aws

# HealthOmics API Reference



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# HealthOmics API Reference:

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# Table of Contents

**HealthOmics API Reference ..... 1**
HealthOmics service endpoints ..... 2
HealthOmics operations for storage, workflows, and analytics ..... 2
Actions ..... 4
AbortMultipartReadSetUpload ..... 8
AcceptShare ..... 11
BatchDeleteReadSet ..... 14
CancelAnnotationImportJob ..... 18
CancelRun ..... 21
CancelRunBatch ..... 24
CancelVariantImportJob ..... 27
CompleteMultipartReadSetUpload ..... 30
CreateAnnotationStore ..... 34
CreateAnnotationStoreVersion ..... 41
CreateConfiguration ..... 46
CreateMultipartReadSetUpload ..... 52
CreateReferenceStore ..... 61
CreateRunCache ..... 66
CreateRunGroup ..... 72
CreateSequenceStore ..... 78
CreateShare ..... 86
CreateVariantStore ..... 90
CreateWorkflow ..... 95
CreateWorkflowVersion ..... 106
DeleteAnnotationStore ..... 118
DeleteAnnotationStoreVersions ..... 121
DeleteBatch ..... 124
DeleteConfiguration ..... 127
DeleteReference ..... 130
DeleteReferenceStore ..... 133
DeleteRun ..... 136
DeleteRunBatch ..... 139
DeleteRunCache ..... 142
DeleteRunGroup ..... 145
DeleteS3AccessPolicy ..... 148

DeleteSequenceStore ..... 151
DeleteShare ..... 154
DeleteVariantStore ..... 157
DeleteWorkflow ..... 160
DeleteWorkflowVersion ..... 163
GetAnnotationImportJob ..... 166
GetAnnotationStore ..... 171
GetAnnotationStoreVersion ..... 177
GetBatch ..... 182
GetConfiguration ..... 189
GetReadSet ..... 194
GetReadSetActivationJob ..... 198
GetReadSetExportJob ..... 202
GetReadSetImportJob ..... 207
GetReadSetMetadata ..... 212
GetReference ..... 219
GetReferenceImportJob ..... 223
GetReferenceMetadata ..... 228
GetReferenceStore ..... 234
GetRun ..... 238
GetRunCache ..... 251
GetRunGroup ..... 256
GetRunTask ..... 261
GetS3AccessPolicy ..... 268
GetSequenceStore ..... 272
GetShare ..... 277
GetVariantImportJob ..... 280
GetVariantStore ..... 285
GetWorkflow ..... 290
GetWorkflowVersion ..... 300
ListAnnotationImportJobs ..... 310
ListAnnotationStores ..... 314
ListAnnotationStoreVersions ..... 318
ListBatch ..... 322
ListConfigurations ..... 326
ListMultipartReadSetUploads ..... 330
ListReadSetActivationJobs ..... 334

ListReadSetExportJobs ..... 338
ListReadSetImportJobs ..... 342
ListReadSets ..... 346
ListReadSetUploadParts ..... 351
ListReferenceImportJobs ..... 356
ListReferences ..... 360
ListReferenceStores ..... 364
ListRunCaches ..... 368
ListRunGroups ..... 372
ListRuns ..... 376
ListRunsInBatch ..... 381
ListRunTasks ..... 385
ListSequenceStores ..... 389
ListShares ..... 393
ListTagsForResource ..... 397
ListVariantImportJobs ..... 400
ListVariantStores ..... 404
ListWorkflows ..... 408
ListWorkflowVersions ..... 412
PutS3AccessPolicy ..... 416
StartAnnotationImportJob ..... 420
StartReadSetActivationJob ..... 425
StartReadSetExportJob ..... 429
StartReadSetImportJob ..... 434
StartReferenceImportJob ..... 439
StartRun ..... 444
StartRunBatch ..... 458
StartVariantImportJob ..... 464
TagResource ..... 468
UntagResource ..... 471
UpdateAnnotationStore ..... 474
UpdateAnnotationStoreVersion ..... 479
UpdateRunCache ..... 484
UpdateRunGroup ..... 488
UpdateSequenceStore ..... 493
UpdateVariantStore ..... 500
UpdateWorkflow ..... 504

UpdateWorkflowVersion ..... 509
UploadReadSetPart ..... 513
Data Types ..... 516
ActivateReadSetFilter ..... 520
ActivateReadSetJobItem ..... 521
ActivateReadSetSourceItem ..... 523
AnnotationImportItemDetail ..... 525
AnnotationImportItemSource ..... 526
AnnotationImportJobItem ..... 527
AnnotationStoreItem ..... 530
AnnotationStoreVersionItem ..... 533
BatchListItem ..... 536
BatchRunSettings ..... 538
CompleteReadSetUploadPartListItem ..... 540
ConfigurationDetails ..... 542
ConfigurationListItem ..... 544
ContainerRegistryMap ..... 546
DefaultRunSetting ..... 547
DefinitionRepository ..... 554
DefinitionRepositoryDetails ..... 556
ETag ..... 558
ExportReadSet ..... 560
ExportReadSetDetail ..... 561
ExportReadSetFilter ..... 563
ExportReadSetJobDetail ..... 564
FileInformation ..... 566
Filter ..... 568
FormatOptions ..... 570
ImageDetails ..... 571
ImageMapping ..... 573
ImportReadSetFilter ..... 574
ImportReadSetJobItem ..... 575
ImportReadSetSourceItem ..... 577
ImportReferenceFilter ..... 581
ImportReferenceJobItem ..... 582
ImportReferenceSourceItem ..... 584
InlineSetting ..... 587

ListAnnotationImportJobsFilter ..... 590
ListAnnotationStoresFilter ..... 591
ListAnnotationStoreVersionsFilter ..... 592
ListVariantImportJobsFilter ..... 593
ListVariantStoresFilter ..... 594
MultipartReadSetUploadListItem ..... 595
ReadOptions ..... 599
ReadSetBatchError ..... 602
ReadSetFiles ..... 603
ReadSetFilter ..... 604
ReadSetListItem ..... 607
ReadSetS3Access ..... 611
ReadSetUploadPartListFilter ..... 612
ReadSetUploadPartListItem ..... 613
ReferenceFiles ..... 615
ReferenceFilter ..... 616
ReferenceItem ..... 618
ReferenceListItem ..... 619
ReferenceStoreDetail ..... 622
ReferenceStoreFilter ..... 624
RegistryMapping ..... 625
RunBatchListItem ..... 627
RunCacheListItem ..... 630
RunConfigurations ..... 633
RunConfigurationsResponse ..... 634
RunGroupListItem ..... 635
RunListItem ..... 638
RunLogLocation ..... 642
RunSummary ..... 643
S3AccessConfig ..... 645
SequenceInformation ..... 646
SequenceStoreDetail ..... 648
SequenceStoreFilter ..... 651
SequenceStoreS3Access ..... 653
ShareDetails ..... 655
SourceFiles ..... 658
SourceReference ..... 659

SseConfig ..... 660
StartReadSetActivationJobSourceItem ..... 661
StartReadSetImportJobSourceItem ..... 662
StartReferenceImportJobSourceItem ..... 665
StoreOptions ..... 667
SubmissionSummary ..... 668
TaskListItem ..... 670
TsvOptions ..... 674
TsvStoreOptions ..... 675
TsvVersionOptions ..... 677
VariantImportItemDetail ..... 679
VariantImportItemSource ..... 681
VariantImportJobItem ..... 682
VariantStoreItem ..... 685
VcfOptions ..... 688
VersionDeleteError ..... 689
VersionOptions ..... 690
VpcConfig ..... 691
VpcConfigResponse ..... 693
WorkflowListItem ..... 695
WorkflowParameter ..... 698
WorkflowVersionListItem ..... 699
Common Parameters ..... 701
Common Error Types ..... 703

# HealthOmics API Reference

This document provides detailed information about the AWS HealthOmics API actions and their parameters.

For information about the IAM access control permissions you need to use this API, see Using IAM identity policies to manage permissions.

You can use AWS SDKs to access HealthOmics APIs using your favorite programming language. The SDKs automatically perform useful tasks for you, such as:

- Cryptographically sign your service requests
- Retry requests
- Handle error responses

The following resources provide additional information about the HealthOmics API.

- *Amazon Web Services General Reference*
  - Service quotas and endpoints for HealthOmics.
- *AWS Command Line Interface*
  - HealthOmics CLI commands.
- Quotas for HealthOmics API operations
  - See API quotas in the *HealthOmics User Guide*.

**Topics**


- HealthOmics service endpoints
- HealthOmics operations for storage, workflows, and analytics
- Actions
- Data Types
- Common Parameters
- Common Error Types

# HealthOmics service endpoints

The *Amazon Web Services General Reference* lists the HealthOmics service endpoints for each region. See Service quotas and endpoints for HealthOmics. For each region, HealthOmics provides separate API endpoints for storage API operations, analytics API operations, and workflow API operations. The endpoints take the following format:

```
    storage-omics.region.amazonaws.com
    analytics-omics.region.amazonaws.com
    workflows-omics.region.amazonaws.com

Examples:
    storage-omics.us-east-1.amazonaws.com
    analytics-omics.eu-west-1.amazonaws.com
    workflows-omics.ap-southeast-1.amazonaws.com
```

# HealthOmics operations for storage, workflows, and analytics

To identify the API operations that apply to storage, analytics, and workflows, see the following tables.

| Storage API operation |
| --- |
| CreateSequenceStore, CreateReferenceStore, DeleteSequenceStore, DeleteReferenceStore |
| BatchDeleteReadSet, DeleteReference |
| CreateMultipartReadSetUpload, CompleteMultipartReadSetUpload, AbortMultipartReadSetUpload |
| GetReference |
| UploadReadSetPart |
| GetReadSet |
| GetSequenceStore, ListSequenceStores |

| Storage API operation |
| --- |
| GetReadSetMetadata, ListReadSets |
| StartReadSetImportJob, GetReadSetImportJob, ListReadSetImportJobs |
| StartReadSetExportJob, GetReadSetExportJob, ListReadSetExportJobs |
| ListReferenceStores |
| StartReferencetImportJob, GetReferenceImportJob, ListReferenceImportJobs |
| ListReferences, GetReferenceMetadata |
| StartReadsetActivationJob |
| ListReadsetActivationJobs, GetReadSetActivationJob |
| ListMultipartReadSetUploads, ListReadSetUploadParts |
| TagResource, UntagResource, ListTagsForResource |

| Workflow API operation |
| --- |
| StartRun |
| CreateWorkflow |
| CancelRun, DeleteRun, GetRun, GetRunTask, ListRunTasks, ListRuns |
| CreateRunGroup, DeleteRunGroup, GetRunGroup, ListRunGroups, UpdateRunGroup |
| CreateRunCache, UpdateRunCache, DeleteRunCache, GetRunCache, ListRunCaches |
| DeleteWorkflow, GetWorkflow, ListWorkflows, UpdateWorkflow |

| Analytics API operation |
| --- |
| CreateVariantStore, DeleteVariantStore, GetVariantStore, ListVariantStores, UpdateVariantStore |

| Analytics API operation |
| --- |
| StartVariantImportJob, CancelVariantImportJob, GetVariantImportJob, ListVariantImportJobs |
| CreateAnnotationStore, DeleteAnnotationStore, GetAnnotationStore, ListAnnotationStores, UpdateAnnotationStore |
| StartAnnotationImportJob, ListAnnotationImportJobs, GetAnnotationImportJob, CancelAnnotationImportJob |

# Actions

The following actions are supported:

- AbortMultipartReadSetUpload
- AcceptShare
- BatchDeleteReadSet
- CancelAnnotationImportJob
- CancelRun
- CancelRunBatch
- CancelVariantImportJob
- CompleteMultipartReadSetUpload
- CreateAnnotationStore
- CreateAnnotationStoreVersion
- CreateConfiguration
- CreateMultipartReadSetUpload
- CreateReferenceStore
- CreateRunCache
- CreateRunGroup
- CreateSequenceStore
- CreateShare
- CreateVariantStore
- CreateWorkflow

- CreateWorkflowVersion
- DeleteAnnotationStore
- DeleteAnnotationStoreVersions
- DeleteBatch
- DeleteConfiguration
- DeleteReference
- DeleteReferenceStore
- DeleteRun
- DeleteRunBatch
- DeleteRunCache
- DeleteRunGroup
- DeleteS3AccessPolicy
- DeleteSequenceStore
- DeleteShare
- DeleteVariantStore
- DeleteWorkflow
- DeleteWorkflowVersion
- GetAnnotationImportJob
- GetAnnotationStore
- GetAnnotationStoreVersion
- GetBatch
- GetConfiguration
- GetReadSet
- GetReadSetActivationJob
- GetReadSetExportJob
- GetReadSetImportJob
- GetReadSetMetadata
- GetReference
- GetReferenceImportJob
- GetReferenceMetadata
- GetReferenceStore

- GetRun
- GetRunCache
- GetRunGroup
- GetRunTask
- GetS3AccessPolicy
- GetSequenceStore
- GetShare
- GetVariantImportJob
- GetVariantStore
- GetWorkflow
- GetWorkflowVersion
- ListAnnotationImportJobs
- ListAnnotationStores
- ListAnnotationStoreVersions
- ListBatch
- ListConfigurations
- ListMultipartReadSetUploads
- ListReadSetActivationJobs
- ListReadSetExportJobs
- ListReadSetImportJobs
- ListReadSets
- ListReadSetUploadParts
- ListReferenceImportJobs
- ListReferences
- ListReferenceStores
- ListRunCaches
- ListRunGroups
- ListRuns
- ListRunsInBatch
- ListRunTasks
- ListSequenceStores

- ListShares
- ListTagsForResource
- ListVariantImportJobs
- ListVariantStores
- ListWorkflows
- ListWorkflowVersions
- PutS3AccessPolicy
- StartAnnotationImportJob
- StartReadSetActivationJob
- StartReadSetExportJob
- StartReadSetImportJob
- StartReferenceImportJob
- StartRun
- StartRunBatch
- StartVariantImportJob
- TagResource
- UntagResource
- UpdateAnnotationStore
- UpdateAnnotationStoreVersion
- UpdateRunCache
- UpdateRunGroup
- UpdateSequenceStore
- UpdateVariantStore
- UpdateWorkflow
- UpdateWorkflowVersion
- UploadReadSetPart

# AbortMultipartReadSetUpload

Stops a multipart read set upload into a sequence store and returns a response with no body if the operation is successful. To confirm that a multipart read set upload has been stopped, use the `ListMultipartReadSetUploads` API operation to view all active multipart read set uploads.

## Request Syntax

```
DELETE /sequencestore/sequenceStoreId/upload/uploadId/abort HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**sequenceStoreId**

The sequence store ID for the store involved in the multipart upload.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

**uploadId**

The ID for the multipart upload.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**NotSupportedOperationException**

The operation is not supported by Amazon Omics, or the API does not exist.

HTTP Status Code: 405

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# AcceptShare

Accept a resource share request.

## Request Syntax

```
POST /share/shareId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**shareId**

The ID of the resource share.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "status": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**status**

The status of the resource share.

Type: String

Valid Values: `PENDING | ACTIVATING | ACTIVE | DELETING | DELETED | FAILED`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# BatchDeleteReadSet

Deletes one or more read sets. If the operation is successful, it returns a response with no body. If there is an error with deleting one of the read sets, the operation returns an error list. If the operation successfully deletes only a subset of files, it will return an error list for the remaining files that fail to be deleted. There is a limit of 100 read sets that can be deleted in each `BatchDeleteReadSet` API call.

## Request Syntax

```
POST /sequencestore/sequenceStoreId/readset/batch/delete HTTP/1.1
Content-type: application/json

{
   "ids": [ "string" ]
}
```

## URI Request Parameters

The request uses the following URI parameters.

### sequenceStoreId

The read sets' sequence store ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### ids

The read sets' IDs.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "errors": [
      {
         "code": "string",
         "id": "string",
         "message": "string"
      }
   ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**errors**

Errors returned by individual delete operations.

Type: Array of ReadSetBatchError objects

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3

- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# CancelAnnotationImportJob

> **Important**
>
> AWS HealthOmics variant stores and annotation stores are no longer open to new customers. Existing customers can continue to use the service as normal. For more information, see AWS HealthOmics variant store and annotation store availability change.

Cancels an annotation import job.

## Request Syntax

```
DELETE /import/annotation/jobId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**jobId**

The job's ID.

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# CancelRun

Cancels a run using its ID and returns a response with no body if the operation is successful. To confirm that the run has been cancelled, use the `ListRuns` API operation to check that it is no longer listed.

## Request Syntax

```
POST /run/id/cancel HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### id

The run's ID.

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 202
```

## Response Elements

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# CancelRunBatch

Cancels all runs within a specified batch. This operation prevents not-yet-submitted runs from starting and submits `CancelRun` requests for runs that have already started.

Cancel is only allowed on batches in `PENDING`, `SUBMITTING`, or `INPROGRESS` state. Cancel operations are non-atomic and may be partially successful. Use `GetBatch` to review `successfulCancelSubmissionCount` and `failedCancelSubmissionCount` in the `submissionSummary`. Only one cancel or delete operation per batch is allowed at a time.

## Request Syntax

```
POST /runBatch/cancel HTTP/1.1
Content-type: application/json

{
   "batchId": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

**batchId**

The identifier portion of the run batch ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

Required: Yes

## Response Syntax

```
HTTP/1.1 202
```

## Response Elements

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# CancelVariantImportJob

> **Important**
>
> AWS HealthOmics variant stores and annotation stores are no longer open to new customers. Existing customers can continue to use the service as normal. For more information, see AWS HealthOmics variant store and annotation store availability change.

Cancels a variant import job.

## Request Syntax

```
DELETE /import/variant/jobId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**jobId**

The job's ID.

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# CompleteMultipartReadSetUpload

Completes a multipart read set upload into a sequence store after you have initiated the upload process with `CreateMultipartReadSetUpload` and uploaded all read set parts using `UploadReadSetPart`. You must specify the parts you uploaded using the parts parameter. If the operation is successful, it returns the read set ID(s) of the uploaded read set(s).

For more information, see Direct upload to a sequence store in the *AWS HealthOmics User Guide*.

## Request Syntax

```
POST /sequencestore/sequenceStoreId/upload/uploadId/complete HTTP/1.1
Content-type: application/json

{
   "parts": [
      {
         "checksum": "string",
         "partNumber": number,
         "partSource": "string"
      }
   ]
}
```

## URI Request Parameters

The request uses the following URI parameters.

### sequenceStoreId

The sequence store ID for the store involved in the multipart upload.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

### uploadId

The ID for the multipart upload.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

Required: Yes

## Request Body

The request accepts the following data in JSON format.

**parts**

The individual uploads or parts of a multipart upload.

Type: Array of CompleteReadSetUploadPartListItem objects

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "readSetId": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**readSetId**

The read set ID created for an uploaded read set.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: [0-9]+

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**NotSupportedOperationException**

The operation is not supported by Amazon Omics, or the API does not exist.

HTTP Status Code: 405

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# CreateAnnotationStore

> **Important**
>
> AWS HealthOmics variant stores and annotation stores are no longer open to new customers. Existing customers can continue to use the service as normal. For more information, see AWS HealthOmics variant store and annotation store availability change.

Creates an annotation store.

## Request Syntax

```
POST /annotationStore HTTP/1.1
Content-type: application/json

{
   "description": "string",
   "name": "string",
   "reference": { ... },
   "sseConfig": {
      "keyArn": "string",
      "type": "string"
   },
   "storeFormat": "string",
   "storeOptions": { ... },
   "tags": {
      "string" : "string"
   },
   "versionName": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

**description**

A description for the store.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

**name**

A name for the store.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: `([a-z]){1}([a-z0-9_]){2,254}`

Required: No

**reference**

The genome reference for the store's annotations.

Type: ReferenceItem object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

**sseConfig**

Server-side encryption (SSE) settings for the store.

Type: SseConfig object

Required: No

**storeFormat**

The annotation file format of the store.

Type: String

Valid Values: `GFF | TSV | VCF`

Required: Yes

**storeOptions**

File parsing options for the annotation store.

Type: StoreOptions object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

**tags**

Tags for the store.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

**versionName**

The name given to an annotation store version to distinguish it from other versions.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: `([a-z]){1}([a-z0-9_]){2,254}`

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "creationTime": "string",
   "id": "string",
   "name": "string",
```

```
    "reference": { ... },
    "status": "string",
    "storeFormat": "string",
    "storeOptions": { ... },
    "versionName": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**creationTime**

When the store was created.

Type: Timestamp

**id**

The store's ID.

Type: String

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

**name**

The store's name.

Type: String

**reference**

The store's genome reference. Required for all stores except TSV format with generic annotations.

Type: ReferenceItem object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

**status**

The store's status.

Type: String

Valid Values: `CREATING | UPDATING | DELETING | ACTIVE | FAILED`

**storeFormat**

The annotation file format of the store.

Type: String

Valid Values: `GFF | TSV | VCF`

**storeOptions**

The store's file parsing options.

Type: StoreOptions object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

**versionName**

The name given to an annotation store version to distinguish it from other versions.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: `([a-z]){1}([a-z0-9_]){2,254}`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# CreateAnnotationStoreVersion

Creates a new version of an annotation store.

## Request Syntax

```
POST /annotationStore/name/version HTTP/1.1
Content-type: application/json

{
   "description": "string",
   "tags": {
      "string" : "string"
   },
   "versionName": "string",
   "versionOptions": { ... }
}
```

## URI Request Parameters

The request uses the following URI parameters.

### name

The name of an annotation store version from which versions are being created.

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: `([a-z]){1}([a-z0-9_]){2,254}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### description

The description of an annotation store version.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

**tags**

Any tags added to annotation store version.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

**versionName**

The name given to an annotation store version to distinguish it from other versions.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: `([a-z]){1}([a-z0-9_]){2,254}`

Required: Yes

**versionOptions**

The options for an annotation store version.

Type: VersionOptions object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "creationTime": "string",
   "id": "string",
   "name": "string",
```

```
    "status": "string",
    "storeId": "string",
    "versionName": "string",
    "versionOptions": { ... }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**creationTime**

The time stamp for the creation of an annotation store version.

Type: Timestamp

**id**

A generated ID for the annotation store

Type: String

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

**name**

The name given to an annotation store version to distinguish it from other versions.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: `([a-z]){1}([a-z0-9_]){2,254}`

**status**

The status of a annotation store version.

Type: String

Valid Values: `CREATING | UPDATING | DELETING | ACTIVE | FAILED`

**storeId**

The ID for the annotation store from which new versions are being created.

Type: String

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

**versionName**

The name given to an annotation store version to distinguish it from other versions.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: `([a-z]){1}([a-z0-9_]){2,254}`

**versionOptions**

The options for an annotation store version.

Type: VersionOptions object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# CreateConfiguration

Create a new configuration.

## Request Syntax

```
POST /configuration HTTP/1.1
Content-type: application/json

{
   "description": "string",
   "name": "string",
   "requestId": "string",
   "runConfigurations": {
      "vpcConfig": {
         "securityGroupIds": [ "string" ],
         "subnetIds": [ "string" ],
         "vpcOwnerAccountId": "string"
      }
   },
   "tags": {
      "string" : "string"
   }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### description

Optional description for the configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**name**

User-friendly name for the configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[A-Za-z0-9][A-Za-z0-9\-\._]*`

Required: Yes

**requestId**

Optional request idempotency token. If not specified, a universally unique identifier (UUID) will be automatically generated for the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: Yes

**runConfigurations**

Required run-specific configurations.

Type: RunConfigurations object

Required: Yes

**tags**

Optional tags for the configuration.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
   "arn": "string",
   "creationTime": "string",
   "description": "string",
   "name": "string",
   "runConfigurations": {
      "vpcConfig": {
         "securityGroupIds": [ "string" ],
         "subnetIds": [ "string" ],
         "vpcId": "string",
         "vpcOwnerAccountId": "string"
      }
   },
   "status": "string",
   "tags": {
      "string" : "string"
   },
   "uuid": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The following data is returned in JSON format by the service.

**arn**

Unique resource identifier for the configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 190.

Pattern: `arn:.+`

**creationTime**

Configuration creation timestamp.

Type: Timestamp

**description**

Description for the configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**name**

User-friendly name for the configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[A-Za-z0-9][A-Za-z0-9\-\._]*`

**runConfigurations**

Run-specific configurations.

Type: RunConfigurationsResponse object

**status**

Current configuration status.

Type: String

Valid Values: `CREATING | ACTIVE | UPDATING | DELETING | DELETED | FAILED`

**tags**

Tags for the configuration.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

**uuid**

Unique identifier for the configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# CreateMultipartReadSetUpload

Initiates a multipart read set upload for uploading partitioned source files into a sequence store. You can directly import source files from an EC2 instance and other local compute, or from an S3 bucket. To separate these source files into parts, use the `split` operation. Each part cannot be larger than 100 MB. If the operation is successful, it provides an `uploadId` which is required by the `UploadReadSetPart` API operation to upload parts into a sequence store.

To continue uploading a multipart read set into your sequence store, you must use the `UploadReadSetPart` API operation to upload each part individually following the steps below:

- Specify the `uploadId` obtained from the previous call to `CreateMultipartReadSetUpload`.
- Upload parts for that `uploadId`.

When you have finished uploading parts, use the `CompleteMultipartReadSetUpload` API to complete the multipart read set upload and to retrieve the final read set IDs in the response.

To learn more about creating parts and the `split` operation, see Direct upload to a sequence store in the *AWS HealthOmics User Guide*.

## Request Syntax

```
POST /sequencestore/sequenceStoreId/upload HTTP/1.1
Content-type: application/json

{
   "clientToken": "string",
   "description": "string",
   "generatedFrom": "string",
   "name": "string",
   "referenceArn": "string",
   "sampleId": "string",
   "sourceFileType": "string",
   "subjectId": "string",
   "tags": {
      "string" : "string"
   }
}
```

## URI Request Parameters

The request uses the following URI parameters.

**sequenceStoreId**

The sequence store ID for the store that is the destination of the multipart uploads.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

**clientToken**

An idempotency token that can be used to avoid triggering multiple multipart uploads.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**description**

The description of the read set.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**generatedFrom**

Where the source originated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**name**

The name of the read set.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: Yes

**referenceArn**

The ARN of the reference.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `arn:.+`

Required: No

**sampleId**

The source's sample ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: Yes

**sourceFileType**

The type of file being uploaded.

Type: String

Valid Values: `FASTQ | BAM | CRAM | UBAM`

Required: Yes

**subjectId**

The source's subject ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: Yes

**tags**

Any tags to add to the read set.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "creationTime": "string",
   "description": "string",
   "generatedFrom": "string",
   "name": "string",
   "referenceArn": "string",
   "sampleId": "string",
   "sequenceStoreId": "string",
   "sourceFileType": "string",
```

```
    "subjectId": "string",
    "tags": {
       "string" : "string"
    },
    "uploadId": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**creationTime**

The creation time of the multipart upload.

Type: Timestamp

**description**

The description of the read set.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**generatedFrom**

The source of the read set.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**name**

The name of the read set.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**referenceArn**

The read set source's reference ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `arn:.+`

**sampleId**

The source's sample ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**sequenceStoreId**

The sequence store ID for the store that the read set will be created in.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

**sourceFileType**

The file type of the read set source.

Type: String

Valid Values: `FASTQ | BAM | CRAM | UBAM`

**subjectId**

The source's subject ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**tags**

The tags to add to the read set.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

**uploadId**

The ID for the initiated multipart upload.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**NotSupportedOperationException**

The operation is not supported by Amazon Omics, or the API does not exist.

HTTP Status Code: 405

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# CreateReferenceStore

Creates a reference store and returns metadata in JSON format. Reference stores are used to store reference genomes in FASTA format. A reference store is created when the first reference genome is imported. To import additional reference genomes from an Amazon S3 bucket, use the `StartReferenceImportJob` API operation.

For more information, see Creating a HealthOmics reference store in the *AWS HealthOmics User Guide*.

## Request Syntax

```
POST /referencestore HTTP/1.1
Content-type: application/json

{
   "clientToken": "string",
   "description": "string",
   "name": "string",
   "sseConfig": {
      "keyArn": "string",
      "type": "string"
   },
   "tags": {
      "string" : "string"
   }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### clientToken

To ensure that requests don't run multiple times, specify a unique token for each request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**description**

A description for the store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**name**

A name for the store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: Yes

**sseConfig**

Server-side encryption (SSE) settings for the store.

Type: SseConfig object

Required: No

**tags**

Tags for the store.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "arn": "string",
   "creationTime": "string",
   "description": "string",
   "id": "string",
   "name": "string",
   "sseConfig": {
      "keyArn": "string",
      "type": "string"
   }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**arn**

The store's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `arn:.+`

**creationTime**

When the store was created.

Type: Timestamp

**description**

The store's description.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**id**

The store's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

**name**

The store's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**sseConfig**

The store's SSE settings.

Type: SseConfig object

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# CreateRunCache

Creates a run cache to store and reference task outputs from completed private runs. Specify an Amazon S3 location where AWS HealthOmics saves the cached data. This data must be immediately accessible and not in an archived state. You can save intermediate task files to a run cache if they are declared as task outputs in the workflow definition file.

For more information, see Call caching and Creating a run cache in the *AWS HealthOmics User Guide*.

## Request Syntax

```
POST /runCache HTTP/1.1
Content-type: application/json

{
   "cacheBehavior": "string",
   "cacheBucketOwnerId": "string",
   "cacheS3Location": "string",
   "description": "string",
   "name": "string",
   "requestId": "string",
   "tags": {
      "string" : "string"
   }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

**cacheBehavior**

Default cache behavior for runs that use this cache. Supported values are:

CACHE_ON_FAILURE: Caches task outputs from completed tasks for runs that fail. This setting is useful if you're debugging a workflow that fails after several tasks completed

successfully. The subsequent run uses the cache outputs for previously-completed tasks if the task definition, inputs, and container in ECR are identical to the prior run.

CACHE_ALWAYS: Caches task outputs from completed tasks for all runs. This setting is useful in development mode, but do not use it in a production setting.

If you don't specify a value, the default behavior is CACHE_ON_FAILURE. When you start a run that uses this cache, you can override the default cache behavior.

For more information, see Run cache behavior in the *AWS HealthOmics User Guide*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `CACHE_ON_FAILURE | CACHE_ALWAYS`

Required: No

**cacheBucketOwnerId**

The AWS account ID of the expected owner of the S3 bucket for the run cache. If not provided, your account ID is set as the owner of the bucket.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `[0-9]+`

Required: No

**cacheS3Location**

Specify the S3 location for storing the cached task outputs. This data must be immediately accessible (not in an archived state).

Type: String

Pattern: `s3://([a-z0-9][a-z0-9-.]{1,61}[a-z0-9])(/(.{0,1024}))?`

Required: Yes

**description**

Enter a description of the run cache.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**name**

Enter a user-friendly name for the run cache.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**requestId**

A unique request token, to ensure idempotency. If you don't specify a token, AWS HealthOmics automatically generates a universally unique identifier (UUID) for the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: Yes

**tags**

Specify one or more tags to associate with this run cache.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
   "arn": "string",
   "id": "string",
   "status": "string",
   "tags": {
      "string" : "string"
   }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The following data is returned in JSON format by the service.

**arn**

Unique resource identifier for the run cache.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:.+`

**id**

Identifier for the run cache.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

**status**

Run cache status.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `ACTIVE | DELETED | FAILED`

**tags**

The tags associated with this run cache.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# CreateRunGroup

Creates a run group to limit the compute resources for the runs that are added to the group. Returns an ARN, ID, and tags for the run group.

## Request Syntax

```
POST /runGroup HTTP/1.1
Content-type: application/json

{
   "maxCpus": number,
   "maxDuration": number,
   "maxGpus": number,
   "maxRuns": number,
   "name": "string",
   "requestId": "string",
   "tags": {
      "string" : "string"
   }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

**maxCpus**

The maximum number of CPUs that can run concurrently across all active runs in the run group.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100000.

Required: No

**maxDuration**

The maximum time for each run (in minutes). If a run exceeds the maximum run time, the run fails automatically.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100000.

Required: No

**maxGpus**

The maximum number of GPUs that can run concurrently across all active runs in the run group.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100000.

Required: No

**maxRuns**

The maximum number of runs that can be running at the same time.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100000.

Required: No

**name**

A name for the group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**requestId**

To ensure that requests don't run multiple times, specify a unique ID for each request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: Yes

**tags**

Tags for the group.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
   "arn": "string",
   "id": "string",
   "tags": {
      "string" : "string"
   }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The following data is returned in JSON format by the service.

**arn**

The group's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:.+`

**id**

The group's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

**tags**

Tags for the run group.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# CreateSequenceStore

Creates a sequence store and returns its metadata. Sequence stores are used to store sequence data files called read sets that are saved in FASTQ, BAM, uBAM, or CRAM formats. For aligned formats (BAM and CRAM), a sequence store can only use one reference genome. For unaligned formats (FASTQ and uBAM), a reference genome is not required. You can create multiple sequence stores per region per account.

The following are optional parameters you can specify for your sequence store:

- Use `s3AccessConfig` to configure your sequence store with S3 access logs (recommended).
- Use `sseConfig` to define your own KMS key for encryption.
- Use `eTagAlgorithmFamily` to define which algorithm to use for the HealthOmics eTag on objects.
- Use `fallbackLocation` to define a backup location for storing files that have failed a direct upload.
- Use `propagatedSetLevelTags` to configure tags that propagate to all objects in your store.

For more information, see Creating a HealthOmics sequence store in the *AWS HealthOmics User Guide*.

## Request Syntax

```
POST /sequencestore HTTP/1.1
Content-type: application/json

{
   "clientToken": "string",
   "description": "string",
   "eTagAlgorithmFamily": "string",
   "fallbackLocation": "string",
   "name": "string",
   "propagatedSetLevelTags": [ "string" ],
   "s3AccessConfig": {
      "accessLogLocation": "string"
   },
   "sseConfig": {
      "keyArn": "string",
      "type": "string"
   },
```

```
   "tags": {
      "string" : "string"
   }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

**clientToken**

An idempotency token used to dedupe retry requests so that duplicate runs are not created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**description**

A description for the store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**eTagAlgorithmFamily**

The ETag algorithm family to use for ingested read sets. The default value is MD5up. For more information on ETags, see ETags and data provenance in the *AWS HealthOmics User Guide*.

Type: String

Valid Values: `MD5up | SHA256up | SHA512up`

Required: No

**fallbackLocation**

An S3 location that is used to store files that have failed a direct upload. You can add or change the `fallbackLocation` after creating a sequence store. This is not required if you are uploading files from a different S3 bucket.

Type: String

Pattern: `$|^s3://([a-z0-9][a-z0-9-.]{1,61}[a-z0-9])/?((.{1,1024})/)?`

Required: No

**name**

A name for the store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: Yes

**propagatedSetLevelTags**

The tags keys to propagate to the S3 objects associated with read sets in the sequence store. These tags can be used as input to add metadata to your read sets.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

**s3AccessConfig**

S3 access configuration parameters. This specifies the parameters needed to access logs stored in S3 buckets. The S3 bucket must be in the same region and account as the sequence store.

Type: S3AccessConfig object

Required: No

**sseConfig**

Server-side encryption (SSE) settings for the store.

Type: SseConfig object

Required: No

**tags**

Tags for the store. You can configure up to 50 tags.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "arn": "string",
   "creationTime": "string",
   "description": "string",
   "eTagAlgorithmFamily": "string",
   "fallbackLocation": "string",
   "id": "string",
   "name": "string",
   "propagatedSetLevelTags": [ "string" ],
   "s3Access": {
      "accessLogLocation": "string",
      "s3AccessPointArn": "string",
      "s3Uri": "string"
   },
   "sseConfig": {
      "keyArn": "string",
      "type": "string"
   },
   "status": "string",
```

```
    "statusMessage": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**arn**

The store's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `arn:.+`

**creationTime**

When the store was created.

Type: Timestamp

**description**

The store's description.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**eTagAlgorithmFamily**

The algorithm family of the ETag.

Type: String

Valid Values: `MD5up | SHA256up | SHA512up`

**fallbackLocation**

An S3 location that is used to store files that have failed a direct upload.

Type: String

Pattern: `$|^s3://([a-z0-9][a-z0-9-.]{1,61}[a-z0-9])/?((.{1,1024})/)?`

**id**

The store's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

**name**

The store's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**propagatedSetLevelTags**

The tags keys to propagate to the S3 objects associated with read sets in the sequence store.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Length Constraints: Minimum length of 1. Maximum length of 128.

**s3Access**

The S3 access metadata of the sequence store.

Type: SequenceStoreS3Access object

**sseConfig**

Server-side encryption (SSE) settings for the store. This contains the KMS key ARN that is used to encrypt read set objects.

Type: SseConfig object

**status**

The status of the sequence store.

Type: String

Valid Values: `CREATING | ACTIVE | UPDATING | DELETING | FAILED`

**statusMessage**

The status message of the sequence store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# CreateShare

Creates a cross-account shared resource. The resource owner makes an offer to share the resource with the principal subscriber (an AWS user with a different account than the resource owner).

The following resources support cross-account sharing:

- HealthOmics variant stores
- HealthOmics annotation stores
- Private workflows

## Request Syntax

```
POST /share HTTP/1.1
Content-type: application/json

{
   "principalSubscriber": "string",
   "resourceArn": "string",
   "shareName": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

**principalSubscriber**

The principal subscriber is the account being offered shared access to the resource.

Type: String

Required: Yes

**resourceArn**

The ARN of the resource to be shared.

Type: String

Required: Yes

**shareName**

A name that the owner defines for the share.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[a-zA-Z0-9_-]+`

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "shareId": "string",
   "shareName": "string",
   "status": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**shareId**

The ID that HealthOmics generates for the share.

Type: String

**shareName**

The name of the share.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[a-zA-Z0-9_-]+`

**status**

The status of the share.

Type: String

Valid Values: `PENDING | ACTIVATING | ACTIVE | DELETING | DELETED | FAILED`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# CreateVariantStore

> **Important**
>
> AWS HealthOmics variant stores and annotation stores are no longer open to new customers. Existing customers can continue to use the service as normal. For more information, see AWS HealthOmics variant store and annotation store availability change.

Creates a variant store.

## Request Syntax

```
POST /variantStore HTTP/1.1
Content-type: application/json

{
   "description": "string",
   "name": "string",
   "reference": { ... },
   "sseConfig": {
      "keyArn": "string",
      "type": "string"
   },
   "tags": {
      "string" : "string"
   }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### description

A description for the store.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

**name**

A name for the store.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: `([a-z]){1}([a-z0-9_]){2,254}`

Required: No

**reference**

The genome reference for the store's variants.

Type: ReferenceItem object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

**sseConfig**

Server-side encryption (SSE) settings for the store.

Type: SseConfig object

Required: No

**tags**

Tags for the store.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "creationTime": "string",
   "id": "string",
   "name": "string",
   "reference": { ... },
   "status": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**creationTime**

When the store was created.

Type: Timestamp

**id**

The store's ID.

Type: String

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

**name**

The store's name.

Type: String

**reference**

The store's genome reference.

Type: ReferenceItem object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

**status**

The store's status.

Type: String

Valid Values: `CREATING | UPDATING | DELETING | ACTIVE | FAILED`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# CreateWorkflow

Creates a private workflow. Before you create a private workflow, you must create and configure these required resources:

- *Workflow definition file:* A workflow definition file written in WDL, Nextflow, or CWL. The workflow definition specifies the inputs and outputs for runs that use the workflow. It also includes specifications for the runs and run tasks for your workflow, including compute and memory requirements. The workflow definition file must be in `.zip` format. For more information, see Workflow definition files in AWS HealthOmics.
  - You can use Amazon Q CLI to build and validate your workflow definition files in WDL, Nextflow, and CWL. For more information, see Example prompts for Amazon Q CLI and the AWS HealthOmics Agentic generative AI tutorial on GitHub.
- *(Optional) Parameter template file:* A parameter template file written in JSON. Create the file to define the run parameters, or AWS HealthOmics generates the parameter template for you. For more information, see Parameter template files for HealthOmics workflows.
- *ECR container images:* Create container images for the workflow in a private ECR repository, or synchronize images from a supported upstream registry with your Amazon ECR private repository.
- *(Optional) Sentieon licenses:* Request a Sentieon license to use the Sentieon software in private workflows.

For more information, see Creating or updating a private workflow in AWS HealthOmics in the *AWS HealthOmics User Guide*.

## Request Syntax

```
POST /workflow HTTP/1.1
Content-type: application/json

{
   "accelerators": "string",
   "containerRegistryMap": {
      "imageMappings": [
         {
            "destinationImage": "string",
            "sourceImage": "string"
         }
      ],
```

```
      "registryMappings": [
         {
            "credentialArn": "string",
            "ecrAccountId": "string",
            "ecrRepositoryPrefix": "string",
            "upstreamRegistryUrl": "string",
            "upstreamRepositoryPrefix": "string"
         }
      ]
   },
   "containerRegistryMapUri": "string",
   "definitionRepository": {
      "connectionArn": "string",
      "excludeFilePatterns": [ "string" ],
      "fullRepositoryId": "string",
      "sourceReference": {
         "type": "string",
         "value": "string"
      }
   },
   "definitionUri": "string",
   "definitionZip": blob,
   "description": "string",
   "engine": "string",
   "main": "string",
   "name": "string",
   "parameterTemplate": {
      "string" : {
         "description": "string",
         "optional": boolean
      }
   },
   "parameterTemplatePath": "string",
   "readmeMarkdown": "string",
   "readmePath": "string",
   "readmeUri": "string",
   "requestId": "string",
   "storageCapacity": number,
   "storageType": "string",
   "tags": {
      "string" : "string"
   },
   "workflowBucketOwnerId": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

**accelerators**

The computational accelerator specified to run the workflow.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: GPU

Required: No

**containerRegistryMap**

(Optional) Use a container registry map to specify mappings between the ECR private repository and one or more upstream registries. For more information, see Container images in the *AWS HealthOmics User Guide*.

Type: ContainerRegistryMap object

Required: No

**containerRegistryMapUri**

(Optional) URI of the S3 location for the registry mapping file.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 750.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**definitionRepository**

The repository information for the workflow definition. This allows you to source your workflow definition directly from a code repository.

Type: DefinitionRepository object

Required: No

**definitionUri**

The S3 URI of a definition for the workflow. The S3 bucket must be in the same region as the workflow.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**definitionZip**

A ZIP archive containing the main workflow definition file and dependencies that it imports for the workflow. You can use a file with a ://fileb prefix instead of the Base64 string. For more information, see Workflow definition requirements in the *AWS HealthOmics User Guide*.

Type: Base64-encoded binary data object

Required: No

**description**

A description for the workflow.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**engine**

The workflow engine for the workflow. By default, AWS HealthOmics detects the engine automatically from your workflow definition. Provide a value if you have workflow definition files from more than one engine in your zip file, or to use WDL lenient.

WDL lenient is designed to handle workflows migrated from Cromwell. It supports customer Cromwell directives and some non-conformant logic. For details, see Implicit type conversion in WDL lenient in the *AWS HealthOmics User Guide*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `WDL | NEXTFLOW | CWL | WDL_LENIENT`

Required: No

**main**

The path of the main definition file for the workflow. This parameter is not required if the ZIP archive contains only one workflow definition file, or if the main definition file is named "main". An example path is: `workflow-definition/main-file.wdl`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**name**

Name (optional but highly recommended) for the workflow to locate relevant information in the CloudWatch logs and AWS HealthOmics console.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**parameterTemplate**

A parameter template for the workflow. If this field is blank, AWS HealthOmics will automatically parse the parameter template values from your workflow definition file. To override these service generated default values, provide a parameter template. To view an example of a parameter template, see Parameter template files in the *AWS HealthOmics User Guide*.

Type: String to WorkflowParameter object map

Map Entries: Maximum number of 2000 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**parameterTemplatePath**

The path to the workflow parameter template JSON file within the repository. This file defines the input parameters for runs that use this workflow. If not specified, the workflow will be created without a parameter template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**readmeMarkdown**

The markdown content for the workflow's README file. This provides documentation and usage information for users of the workflow.

Type: String

Required: No

**readmePath**

The path to the workflow README markdown file within the repository. This file provides documentation and usage information for the workflow. If not specified, the `README.md` file from the root directory of the repository will be used.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

### readmeUri

The S3 URI of the README file for the workflow. This file provides documentation and usage information for the workflow. Requirements include:

- The S3 URI must begin with `s3://USER-OWNED-BUCKET/`
- The requester must have access to the S3 bucket and object.
- The max README content length is 500 KiB.

Type: String

Pattern: `s3://([a-z0-9][a-z0-9-.]{1,61}[a-z0-9])/((.{1,1024}))`

Required: No

### requestId

An idempotency token to ensure that duplicate workflows are not created when AWS HealthOmics submits retry requests.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: Yes

### storageCapacity

The default static storage capacity (in gibibytes) for runs that use this workflow or workflow version. The `storageCapacity` can be overwritten at run time. The storage capacity is not required for runs with a `DYNAMIC` storage type.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100000.

Required: No

### storageType

The default storage type for runs that use this workflow. The `storageType` can be overridden at run time. `DYNAMIC` storage dynamically scales the storage up or down, based on file system

utilization. STATIC storage allocates a fixed amount of storage. For more information about dynamic and static storage types, see Run storage types in the *AWS HealthOmics User Guide*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: STATIC | DYNAMIC

Required: No

**tags**

Tags for the workflow. You can define up to 50 tags for the workflow. For more information, see Adding a tag in the *AWS HealthOmics User Guide*.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

**workflowBucketOwnerId**

The AWS account ID of the expected owner of the S3 bucket that contains the workflow definition. If not specified, the service skips the validation.

Type: String

Pattern: [0-9]{12}

Required: No

## Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
   "arn": "string",
   "id": "string",
   "status": "string",
```

```
   "tags": {
      "string" : "string"
   },
   "uuid": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The following data is returned in JSON format by the service.

**arn**

The workflow's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:.+`

**id**

The workflow's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

**status**

The workflow's status.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `CREATING | ACTIVE | UPDATING | DELETED | FAILED | INACTIVE`

**tags**

The workflow's tags.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

**uuid**

The universally unique identifier (UUID) value for this workflow.

Type: String

Pattern: `[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# CreateWorkflowVersion

Creates a new workflow version for the workflow that you specify with the `workflowId` parameter.

When you create a new version of a workflow, you need to specify the configuration for the new version. It doesn't inherit any configuration values from the workflow.

Provide a version name that is unique for this workflow. You cannot change the name after HealthOmics creates the version.

> **Note**
>
> Don't include any personally identifiable information (PII) in the version name. Version names appear in the workflow version ARN.

For more information, see Workflow versioning in AWS HealthOmics in the *AWS HealthOmics User Guide*.

## Request Syntax

```
POST /workflow/workflowId/version HTTP/1.1
Content-type: application/json

{
   "accelerators": "string",
   "containerRegistryMap": {
      "imageMappings": [
         {
            "destinationImage": "string",
            "sourceImage": "string"
         }
      ],
      "registryMappings": [
         {
            "credentialArn": "string",
            "ecrAccountId": "string",
            "ecrRepositoryPrefix": "string",
            "upstreamRegistryUrl": "string",
            "upstreamRepositoryPrefix": "string"
```

```
            }
         ]
      },
      "containerRegistryMapUri": "string",
      "definitionRepository": {
         "connectionArn": "string",
         "excludeFilePatterns": [ "string" ],
         "fullRepositoryId": "string",
         "sourceReference": {
            "type": "string",
            "value": "string"
         }
      },
      "definitionUri": "string",
      "definitionZip": blob,
      "description": "string",
      "engine": "string",
      "main": "string",
      "parameterTemplate": {
         "string" : {
            "description": "string",
            "optional": boolean
         }
      },
      "parameterTemplatePath": "string",
      "readmeMarkdown": "string",
      "readmePath": "string",
      "readmeUri": "string",
      "requestId": "string",
      "storageCapacity": number,
      "storageType": "string",
      "tags": {
         "string" : "string"
      },
      "versionName": "string",
      "workflowBucketOwnerId": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

**workflowId**

The ID of the workflow where you are creating the new version. The `workflowId` is not the UUID.

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

**accelerators**

The computational accelerator for this workflow version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `GPU`

Required: No

**containerRegistryMap**

(Optional) Use a container registry map to specify mappings between the ECR private repository and one or more upstream registries. For more information, see Container images in the *AWS HealthOmics User Guide*.

Type: ContainerRegistryMap object

Required: No

**containerRegistryMapUri**

(Optional) URI of the S3 location for the registry mapping file.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 750.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**definitionRepository**

The repository information for the workflow version definition. This allows you to source your workflow version definition directly from a code repository.

Type: DefinitionRepository object

Required: No

**definitionUri**

The S3 URI of a definition for this workflow version. The S3 bucket must be in the same region as this workflow version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**definitionZip**

A ZIP archive containing the main workflow definition file and dependencies that it imports for this workflow version. You can use a file with a ://fileb prefix instead of the Base64 string. For more information, see Workflow definition requirements in the *AWS HealthOmics User Guide*.

Type: Base64-encoded binary data object

Required: No

**description**

A description for this workflow version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**engine**

The workflow engine for this workflow version. This is only required if you have workflow definition files from more than one engine in your zip file. Otherwise, the service can detect the engine automatically from your workflow definition.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `WDL | NEXTFLOW | CWL | WDL_LENIENT`

Required: No

**main**

The path of the main definition file for this workflow version. This parameter is not required if the ZIP archive contains only one workflow definition file, or if the main definition file is named "main". An example path is: `workflow-definition/main-file.wdl`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**parameterTemplate**

A parameter template for this workflow version. If this field is blank, AWS HealthOmics will automatically parse the parameter template values from your workflow definition file. To override these service generated default values, provide a parameter template. To view an example of a parameter template, see Parameter template files in the *AWS HealthOmics User Guide*.

Type: String to WorkflowParameter object map

Map Entries: Maximum number of 2000 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**parameterTemplatePath**

The path to the workflow version parameter template JSON file within the repository. This file defines the input parameters for runs that use this workflow version. If not specified, the workflow version will be created without a parameter template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**readmeMarkdown**

The markdown content for the workflow version's README file. This provides documentation and usage information for users of this specific workflow version.

Type: String

Required: No

**readmePath**

The path to the workflow version README markdown file within the repository. This file provides documentation and usage information for the workflow. If not specified, the `README.md` file from the root directory of the repository will be used.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**readmeUri**

The S3 URI of the README file for the workflow version. This file provides documentation and usage information for the workflow version. Requirements include:

- The S3 URI must begin with `s3://USER-OWNED-BUCKET/`
- The requester must have access to the S3 bucket and object.

- The max README content length is 500 KiB.

Type: String

Pattern: `s3://([a-z0-9][a-z0-9-.]{1,61}[a-z0-9])/((.{1,1024}))`

Required: No

**requestId**

An idempotency token to ensure that duplicate workflows are not created when AWS HealthOmics submits retry requests.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: Yes

**storageCapacity**

The default static storage capacity (in gibibytes) for runs that use this workflow version. The `storageCapacity` can be overwritten at run time. The storage capacity is not required for runs with a `DYNAMIC` storage type.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100000.

Required: No

**storageType**

The default storage type for runs that use this workflow version. The `storageType` can be overridden at run time. `DYNAMIC` storage dynamically scales the storage up or down, based on file system utilization. STATIC storage allocates a fixed amount of storage. For more information about dynamic and static storage types, see Run storage types in the *AWS HealthOmics User Guide*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `STATIC | DYNAMIC`

Required: No

**tags**

Tags for this workflow version. You can define up to 50 tags for the workflow. For more information, see Adding a tag in the *AWS HealthOmics User Guide*.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

**versionName**

A name for the workflow version. Provide a version name that is unique for this workflow. You cannot change the name after HealthOmics creates the version.

The version name must start with a letter or number and it can include upper-case and lower-case letters, numbers, hyphens, periods and underscores. The maximum length is 64 characters. You can use a simple naming scheme, such as version1, version2, version3. You can also match your workflow versions with your own internal versioning conventions, such as 2.7.0, 2.7.1, 2.7.2.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[A-Za-z0-9][A-Za-z0-9\-\._]*`

Required: Yes

**workflowBucketOwnerId**

AWS Id of the owner of the S3 bucket that contains the workflow definition. You need to specify this parameter if your account is not the bucket owner.

Type: String

Pattern: `[0-9]{12}`

Required: No

## Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
   "arn": "string",
   "status": "string",
   "tags": {
      "string" : "string"
   },
   "uuid": "string",
   "versionName": "string",
   "workflowId": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The following data is returned in JSON format by the service.

**arn**

ARN of the workflow version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 150.

Pattern: `arn:.+`

**status**

The workflow version status.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `CREATING | ACTIVE | UPDATING | DELETED | FAILED | INACTIVE`

**tags**

The workflow version's tags.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

**uuid**

The universally unique identifier (UUID) value for this workflow version.

Type: String

Pattern: `[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}`

**versionName**

The workflow version name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[A-Za-z0-9][A-Za-z0-9\-\._]*`

**workflowId**

The workflow's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# DeleteAnnotationStore

> **Important**
>
> AWS HealthOmics variant stores and annotation stores are no longer open to new customers. Existing customers can continue to use the service as normal. For more information, see AWS HealthOmics variant store and annotation store availability change.

Deletes an annotation store.

## Request Syntax

```
DELETE /annotationStore/name?force=force HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**force**

Whether to force deletion.

**name**

The store's name.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "status": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**status**

The store's status.

Type: String

Valid Values: `CREATING | UPDATING | DELETING | ACTIVE | FAILED`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# DeleteAnnotationStoreVersions

Deletes one or multiple versions of an annotation store.

## Request Syntax

```
POST /annotationStore/name/versions/delete?force=force HTTP/1.1
Content-type: application/json

{
   "versions": [ "string" ]
}
```

## URI Request Parameters

The request uses the following URI parameters.

**force**

Forces the deletion of an annotation store version when imports are in-progress..

**name**

The name of the annotation store from which versions are being deleted.

Required: Yes

## Request Body

The request accepts the following data in JSON format.

**versions**

The versions of an annotation store to be deleted.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: `([a-z]){1}([a-z0-9_]){2,254}`

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "errors": [
      {
         "message": "string",
         "versionName": "string"
      }
   ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**errors**

Any errors that occur when attempting to delete an annotation store version.

Type: Array of VersionDeleteError objects

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# DeleteBatch

Deletes a run batch resource and its associated metadata. This operation does not delete the individual workflow runs. To delete the runs, call `DeleteRunBatch` before calling `DeleteBatch`.

`DeleteBatch` requires the batch to be in a terminal state: `PROCESSED`, `FAILED`, `CANCELLED`, `RUNS_DELETE_FAILED`, or `RUNS_DELETED`. After `DeleteBatch` completes, the batch metadata is no longer accessible. You cannot call `GetBatch`, `ListRunsInBatch`, `DeleteRunBatch`, or `CancelRunBatch` on a deleted batch.

## Request Syntax

```
DELETE /runBatch/batchId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**batchId**

The identifier portion of the run batch ARN.

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 202
```

## Response Elements

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# DeleteConfiguration

Delete an existing configuration.

## Request Syntax

```
DELETE /configuration/name HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**name**

Configuration name to delete.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[A-Za-z0-9][A-Za-z0-9\-\._]*`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 202
```

## Response Elements

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# DeleteReference

Deletes a reference genome and returns a response with no body if the operation is successful. The read set associated with the reference genome must first be deleted before deleting the reference genome. After the reference genome is deleted, you can delete the reference store using the `DeleteReferenceStore` API operation.

For more information, see Deleting HealthOmics reference and sequence stores in the *AWS HealthOmics User Guide*.

## Request Syntax

```
DELETE /referencestore/referenceStoreId/reference/id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**id**

The reference's ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

**referenceStoreId**

The reference's store ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# DeleteReferenceStore

Deletes a reference store and returns a response with no body if the operation is successful. You can only delete a reference store when it does not contain any reference genomes. To empty a reference store, use `DeleteReference`.

For more information about your workflow status, see Deleting HealthOmics reference and sequence stores in the *AWS HealthOmics User Guide*.

## Request Syntax

```
DELETE /referencestore/id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### id

The store's ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# DeleteRun

Deletes a run and returns a response with no body if the operation is successful. You can only delete a run that has reached a `COMPLETED`, `FAILED`, or `CANCELLED` stage. A completed run has delivered an output, or was cancelled and resulted in no output. When you delete a run, only the metadata associated with the run is deleted. The run outputs remain in Amazon S3 and logs remain in CloudWatch.

To verify that the workflow is deleted:

- Use `ListRuns` to confirm the workflow no longer appears in the list.
- Use `GetRun` to verify the workflow cannot be found.

## Request Syntax

```
DELETE /run/id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**id**

The run's ID.

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 202
```

## Response Elements

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# DeleteRunBatch

Deletes the individual workflow runs within a batch. This operation is separate from `DeleteBatch`, which removes the batch metadata.

Delete is only allowed on batches in `PROCESSED` or `CANCELLED` state. Delete operations are non-atomic and may be partially successful. Use `GetBatch` to review `successfulDeleteSubmissionCount` and `failedDeleteSubmissionCount` in the `submissionSummary`. Only one cancel or delete operation per batch is allowed at a time.

## Request Syntax

```
POST /runBatch/delete HTTP/1.1
Content-type: application/json

{
   "batchId": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

**batchId**

The identifier portion of the run batch ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

Required: Yes

## Response Syntax

```
HTTP/1.1 202
```

## Response Elements

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# DeleteRunCache

Deletes a run cache and returns a response with no body if the operation is successful. This action removes the cache metadata stored in the service account, but does not delete the data in Amazon S3. You can access the cache data in Amazon S3, for inspection or to troubleshoot issues. You can remove old cache data using standard S3 `Delete` operations.

For more information, see Deleting a run cache in the *AWS HealthOmics User Guide*.

## Request Syntax

```
DELETE /runCache/id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### id

Run cache identifier for the cache you want to delete.

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 202
```

## Response Elements

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# DeleteRunGroup

Deletes a run group and returns a response with no body if the operation is successful.

To verify that the run group is deleted:

- Use `ListRunGroups` to confirm the workflow no longer appears in the list.
- Use `GetRunGroup` to verify the workflow cannot be found.

## Request Syntax

```
DELETE /runGroup/id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**id**

The run group's ID.

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 202
```

## Response Elements

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# DeleteS3AccessPolicy

Deletes an access policy for the specified store.

## Request Syntax

```
DELETE /s3accesspolicy/s3AccessPointArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**s3AccessPointArn**

The S3 access point ARN that has the access policy.

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `arn:[^:]*:s3:[^:]*:[^:]*:accesspoint/.*`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**NotSupportedOperationException**

The operation is not supported by Amazon Omics, or the API does not exist.

HTTP Status Code: 405

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++

- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# DeleteSequenceStore

Deletes a sequence store and returns a response with no body if the operation is successful. You can only delete a sequence store when it does not contain any read sets.

Use the `BatchDeleteReadSet` API operation to ensure that all read sets in the sequence store are deleted. When a sequence store is deleted, all tags associated with the store are also deleted.

For more information, see Deleting HealthOmics reference and sequence stores in the *AWS HealthOmics User Guide*.

## Request Syntax

```
DELETE /sequencestore/id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**id**

The sequence store's ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# DeleteShare

Deletes a resource share. If you are the resource owner, the subscriber will no longer have access to the shared resource. If you are the subscriber, this operation deletes your access to the share.

## Request Syntax

```
DELETE /share/shareId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**shareId**

The ID for the resource share to be deleted.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "status": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**status**

The status of the share being deleted.

Type: String

Valid Values: `PENDING | ACTIVATING | ACTIVE | DELETING | DELETED | FAILED`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# DeleteVariantStore

> **Important**
>
> AWS HealthOmics variant stores and annotation stores are no longer open to new customers. Existing customers can continue to use the service as normal. For more information, see AWS HealthOmics variant store and annotation store availability change.

Deletes a variant store.

## Request Syntax

```
DELETE /variantStore/name?force=force HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**force**

Whether to force deletion.

**name**

The store's name.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "status": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**status**

The store's status.

Type: String

Valid Values: `CREATING | UPDATING | DELETING | ACTIVE | FAILED`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# DeleteWorkflow

Deletes a workflow by specifying its ID. This operation returns a response with no body if the deletion is successful.

To verify that the workflow is deleted:

- Use `ListWorkflows` to confirm the workflow no longer appears in the list.
- Use `GetWorkflow` to verify the workflow cannot be found.

## Request Syntax

```
DELETE /workflow/id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**id**

The workflow's ID.

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 202
```

## Response Elements

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# DeleteWorkflowVersion

Deletes a workflow version. Deleting a workflow version doesn't affect any ongoing runs that are using the workflow version.

For more information, see Workflow versioning in AWS HealthOmics in the *AWS HealthOmics User Guide*.

## Request Syntax

```
DELETE /workflow/workflowId/version/versionName HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**versionName**

The workflow version name.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[A-Za-z0-9][A-Za-z0-9\-\._]*`

Required: Yes

**workflowId**

The workflow's ID.

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 202
```

## Response Elements

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# GetAnnotationImportJob

> **Important**
>
> AWS HealthOmics variant stores and annotation stores are no longer open to new customers. Existing customers can continue to use the service as normal. For more information, see AWS HealthOmics variant store and annotation store availability change.

Gets information about an annotation import job.

## Request Syntax

```
GET /import/annotation/jobId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**jobId**

The job's ID.

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "annotationFields": {
      "string" : "string"
   },
   "completionTime": "string",
```

```
    "creationTime": "string",
    "destinationName": "string",
    "formatOptions": { ... },
    "id": "string",
    "items": [
       {
          "jobStatus": "string",
          "source": "string"
       }
    ],
    "roleArn": "string",
    "runLeftNormalization": boolean,
    "status": "string",
    "statusMessage": "string",
    "updateTime": "string",
    "versionName": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**annotationFields**

The annotation schema generated by the parsed annotation data.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 21.

Value Length Constraints: Minimum length of 1. Maximum length of 21.

**completionTime**

When the job completed.

Type: Timestamp

**creationTime**

When the job was created.

Type: Timestamp

**destinationName**

The job's destination annotation store.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: `([a-z]){1}([a-z0-9_]){2,254}`

**formatOptions**

Formatting options for a file.

Type: FormatOptions object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

**id**

The job's ID.

Type: String

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

**items**

The job's imported items.

Type: Array of AnnotationImportItemDetail objects

Array Members: Fixed number of 1 item.

**roleArn**

The job's service role ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:([^: ]*):([^: ]*):([^: ]*):([0-9]{12}):([^: ]*)`

**runLeftNormalization**

The job's left normalization setting.

Type: Boolean

**status**

The job's status.

Type: String

Valid Values: `SUBMITTED | IN_PROGRESS | CANCELLED | COMPLETED | FAILED | COMPLETED_WITH_FAILURES`

**statusMessage**

The job's status message.

Type: String

**updateTime**

When the job was updated.

Type: Timestamp

**versionName**

The name of the annotation store version.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: `([a-z]){1}([a-z0-9_]){2,254}`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# GetAnnotationStore

> **Important**
>
> AWS HealthOmics variant stores and annotation stores are no longer open to new customers. Existing customers can continue to use the service as normal. For more information, see AWS HealthOmics variant store and annotation store availability change.

Gets information about an annotation store.

## Request Syntax

```
GET /annotationStore/name HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**name**

The store's name.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "creationTime": "string",
   "description": "string",
   "id": "string",
   "name": "string",
   "numVersions": number,
```

```
   "reference": { ... },
   "sseConfig": {
      "keyArn": "string",
      "type": "string"
   },
   "status": "string",
   "statusMessage": "string",
   "storeArn": "string",
   "storeFormat": "string",
   "storeOptions": { ... },
   "storeSizeBytes": number,
   "tags": {
      "string" : "string"
   },
   "updateTime": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**creationTime**

When the store was created.

Type: Timestamp

**description**

The store's description.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

**id**

The store's ID.

Type: String

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

**name**

The store's name.

Type: String

**numVersions**

An integer indicating how many versions of an annotation store exist.

Type: Integer

**reference**

The store's genome reference.

Type: ReferenceItem object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

**sseConfig**

The store's server-side encryption (SSE) settings.

Type: SseConfig object

**status**

The store's status.

Type: String

Valid Values: `CREATING | UPDATING | DELETING | ACTIVE | FAILED`

**statusMessage**

A status message.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1000.

**storeArn**

The store's ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:([^: ]*):([^: ]*):([^: ]*):([0-9]{12}):([^: ]*)`

**storeFormat**

The store's annotation file format.

Type: String

Valid Values: `GFF | TSV | VCF`

**storeOptions**

The store's parsing options.

Type: StoreOptions object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

**storeSizeBytes**

The store's size in bytes.

Type: Long

**tags**

The store's tags.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

**updateTime**

When the store was updated.

Type: Timestamp

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# GetAnnotationStoreVersion

Retrieves the metadata for an annotation store version.

## Request Syntax

```
GET /annotationStore/name/version/versionName HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**name**

The name given to an annotation store version to distinguish it from others.

Required: Yes

**versionName**

The name given to an annotation store version to distinguish it from others.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "creationTime": "string",
   "description": "string",
   "id": "string",
   "name": "string",
   "status": "string",
   "statusMessage": "string",
   "storeId": "string",
   "tags": {
```

```
      "string" : "string"
   },
   "updateTime": "string",
   "versionArn": "string",
   "versionName": "string",
   "versionOptions": { ... },
   "versionSizeBytes": number
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**creationTime**

The time stamp for when an annotation store version was created.

Type: Timestamp

**description**

The description for an annotation store version.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

**id**

The annotation store version ID.

Type: String

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

**name**

The name of the annotation store.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: `([a-z]){1}([a-z0-9_]){2,254}`

**status**

The status of an annotation store version.

Type: String

Valid Values: `CREATING | UPDATING | DELETING | ACTIVE | FAILED`

**statusMessage**

The status of an annotation store version.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1000.

**storeId**

The store ID for annotation store version.

Type: String

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

**tags**

Any tags associated with an annotation store version.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

**updateTime**

The time stamp for when an annotation store version was updated.

Type: Timestamp

**versionArn**

The Arn for the annotation store.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:([^: ]*):([^: ]*):([^: ]*):([0-9]{12}):([^: ]*)`

**versionName**

The name given to an annotation store version to distinguish it from others.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: `([a-z]){1}([a-z0-9_]){2,254}`

**versionOptions**

The options for an annotation store version.

Type: VersionOptions object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

**versionSizeBytes**

The size of the annotation store version in Bytes.

Type: Long

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# GetBatch

Retrieves details and current status for a specific run batch, including submission progress and run execution counts.

## Request Syntax

```
GET /runBatch/batchId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### batchId

The identifier portion of the run batch ARN.

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "arn": "string",
   "creationTime": "string",
   "defaultRunSetting": {
      "cacheBehavior": "string",
      "cacheId": "string",
      "configurationName": "string",
      "engineSettings": JSON value,
      "logLevel": "string",
      "name": "string",
      "networkingMode": "string",
```

```
      "outputBucketOwnerId": "string",
      "outputUri": "string",
      "parameters": JSON value,
      "priority": number,
      "retentionMode": "string",
      "roleArn": "string",
      "runGroupId": "string",
      "runTags": {
         "string" : "string"
      },
      "scratchStorageMode": "string",
      "sessionPolicy": "string",
      "storageCapacity": number,
      "storageType": "string",
      "workflowId": "string",
      "workflowOwnerId": "string",
      "workflowType": "string",
      "workflowVersionName": "string"
   },
   "failedTime": "string",
   "failureReason": "string",
   "id": "string",
   "name": "string",
   "processedTime": "string",
   "runSummary": {
      "cancelledRunCount": number,
      "completedRunCount": number,
      "deletedRunCount": number,
      "failedRunCount": number,
      "pendingRunCount": number,
      "runningRunCount": number,
      "startingRunCount": number,
      "stoppingRunCount": number
   },
   "status": "string",
   "submissionSummary": {
      "failedCancelSubmissionCount": number,
      "failedDeleteSubmissionCount": number,
      "failedStartSubmissionCount": number,
      "pendingStartSubmissionCount": number,
      "successfulCancelSubmissionCount": number,
      "successfulDeleteSubmissionCount": number,
      "successfulStartSubmissionCount": number
   },
```

```
    "submittedTime": "string",
    "tags": {
       "string" : "string"
    },
    "totalRuns": number,
    "uuid": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**arn**

The unique ARN of the run batch.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:.+`

**creationTime**

The timestamp when the batch was created.

Type: Timestamp

**defaultRunSetting**

The shared configuration applied to all runs in the batch. See `DefaultRunSetting`.

Type: DefaultRunSetting object

**failedTime**

The timestamp when the batch transitioned to a `FAILED` status.

Type: Timestamp

**failureReason**

A description of the batch failure. Present only when status is `FAILED`.

Type: String

**id**

The identifier portion of the run batch ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

**name**

The optional user-friendly name of the batch.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**processedTime**

The timestamp when all run executions completed.

Type: Timestamp

**runSummary**

A summary of run execution states. Run execution counts are eventually consistent and may lag behind actual run states. Final counts are accurate once the batch reaches `PROCESSED` status. See `RunSummary`.

Type: RunSummary object

**status**

The current status of the run batch. Possible values: `CREATING` (initial setup), `PENDING` (ready to submit runs), `SUBMITTING` (submitting runs), `INPROGRESS` (runs executing), `STOPPING` (cancellation in progress), `PROCESSED` (all runs completed), `CANCELLED` (batch cancelled), `FAILED` (batch failed), `RUNS_DELETING` (deleting runs), `RUNS_DELETE_FAILED` (run deletion failed for some or all runs), `RUNS_DELETED` (runs deleted).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `CREATING | PENDING | SUBMITTING | INPROGRESS | STOPPING | CANCELLED | FAILED | PROCESSED | RUNS_DELETING | RUNS_DELETE_FAILED | RUNS_DELETED`

**submissionSummary**

A summary of run submission outcomes. See `SubmissionSummary`.

Type: SubmissionSummary object

**submittedTime**

The timestamp when all run submissions completed.

Type: Timestamp

**tags**

AWS tags associated with the run batch.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

**totalRuns**

The total number of runs in the batch.

Type: Integer

**uuid**

The universally unique identifier (UUID) for the run batch.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2

- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# GetConfiguration

Retrieve configuration details for specified name.

## Request Syntax

```
GET /configuration/name HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### name

Configuration name to retrieve.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[A-Za-z0-9][A-Za-z0-9\-\._]*`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "arn": "string",
   "creationTime": "string",
   "description": "string",
   "name": "string",
   "runConfigurations": {
      "vpcConfig": {
         "securityGroupIds": [ "string" ],
         "subnetIds": [ "string" ],
         "vpcId": "string",
         "vpcOwnerAccountId": "string"
```

```
      }
   },
   "status": "string",
   "tags": {
      "string" : "string"
   },
   "uuid": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**arn**

Unique resource identifier for the configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 190.

Pattern: `arn:.+`

**creationTime**

Configuration creation timestamp.

Type: Timestamp

**description**

Description for the configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**name**

User-friendly name for the configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[A-Za-z0-9][A-Za-z0-9\-\._]*`

**runConfigurations**

Run-specific configurations.

Type: RunConfigurationsResponse object

**status**

Current configuration status.

Type: String

Valid Values: `CREATING | ACTIVE | UPDATING | DELETING | DELETED | FAILED`

**tags**

Tags for the configuration.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

**uuid**

Unique identifier for the configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# GetReadSet

Retrieves detailed information from parts of a read set and returns the read set in the same format that it was uploaded. You must have read sets uploaded to your sequence store in order to run this operation.

## Request Syntax

```
GET /sequencestore/sequenceStoreId/readset/id?file=file&partNumber=partNumber HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**file**

The file to retrieve.

Valid Values: `SOURCE1 | SOURCE2 | INDEX`

**id**

The read set's ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

**partNumber**

The part number to retrieve.

Valid Range: Minimum value of 1. Maximum value of 10000.

Required: Yes

**sequenceStoreId**

The read set's sequence store ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200

payload
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The response returns the following as the HTTP body.

**payload**

The read set file payload.

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RangeNotSatisfiableException**

The ranges specified in the request are not valid.

HTTP Status Code: 416

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3

- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# GetReadSetActivationJob

Returns detailed information about the status of a read set activation job in JSON format.

## Request Syntax

```
GET /sequencestore/sequenceStoreId/activationjob/id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**id**

The job's ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

**sequenceStoreId**

The job's sequence store ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
```

```
    "completionTime": "string",
    "creationTime": "string",
    "id": "string",
    "sequenceStoreId": "string",
    "sources": [
       {
          "readSetId": "string",
          "status": "string",
          "statusMessage": "string"
       }
    ],
    "status": "string",
    "statusMessage": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**completionTime**

When the job completed.

Type: Timestamp

**creationTime**

When the job was created.

Type: Timestamp

**id**

The job's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

**sequenceStoreId**

The job's sequence store ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

**sources**

The job's source files.

Type: Array of ActivateReadSetSourceItem objects

**status**

The job's status.

Type: String

Valid Values: `SUBMITTED | IN_PROGRESS | CANCELLING | CANCELLED | FAILED | COMPLETED | COMPLETED_WITH_FAILURES`

**statusMessage**

The job's status message.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# GetReadSetExportJob

Retrieves status information about a read set export job and returns the data in JSON format. Use this operation to actively monitor the progress of an export job.

## Request Syntax

```
GET /sequencestore/sequenceStoreId/exportjob/id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**id**

The job's ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

**sequenceStoreId**

The job's sequence store ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
   "completionTime": "string",
   "creationTime": "string",
   "destination": "string",
   "id": "string",
   "readSets": [
      {
         "id": "string",
         "status": "string",
         "statusMessage": "string"
      }
   ],
   "sequenceStoreId": "string",
   "status": "string",
   "statusMessage": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**completionTime**

When the job completed.

Type: Timestamp

**creationTime**

When the job was created.

Type: Timestamp

**destination**

The job's destination in Amazon S3.

Type: String

Pattern: `s3://([a-z0-9][a-z0-9-.]{1,61}[a-z0-9])/?((.{1,1024})/)?`

**id**

The job's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

**readSets**

The job's read sets.

Type: Array of ExportReadSetDetail objects

**sequenceStoreId**

The job's sequence store ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

**status**

The job's status.

Type: String

Valid Values: `SUBMITTED | IN_PROGRESS | CANCELLING | CANCELLED | FAILED | COMPLETED | COMPLETED_WITH_FAILURES`

**statusMessage**

The job's status message.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2

- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# GetReadSetImportJob

Gets detailed and status information about a read set import job and returns the data in JSON format.

## Request Syntax

```
GET /sequencestore/sequenceStoreId/importjob/id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**id**

The job's ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

**sequenceStoreId**

The job's sequence store ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
```

```
    "completionTime": "string",
    "creationTime": "string",
    "id": "string",
    "roleArn": "string",
    "sequenceStoreId": "string",
    "sources": [
       {
          "description": "string",
          "generatedFrom": "string",
          "name": "string",
          "readSetId": "string",
          "referenceArn": "string",
          "sampleId": "string",
          "sourceFiles": {
             "source1": "string",
             "source2": "string"
          },
          "sourceFileType": "string",
          "status": "string",
          "statusMessage": "string",
          "subjectId": "string",
          "tags": {
             "string" : "string"
          }
       }
    ],
    "status": "string",
    "statusMessage": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**completionTime**

When the job completed.

Type: Timestamp

**creationTime**

When the job was created.

Type: Timestamp

**id**

The job's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

**roleArn**

The job's service role ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:.*`

**sequenceStoreId**

The job's sequence store ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

**sources**

The job's source files.

Type: Array of ImportReadSetSourceItem objects

**status**

The job's status.

Type: String

Valid Values: `SUBMITTED | IN_PROGRESS | CANCELLING | CANCELLED | FAILED | COMPLETED | COMPLETED_WITH_FAILURES`

**statusMessage**

The job's status message.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# GetReadSetMetadata

Retrieves the metadata for a read set from a sequence store in JSON format. This operation does not return tags. To retrieve the list of tags for a read set, use the `ListTagsForResource` API operation.

## Request Syntax

```
GET /sequencestore/sequenceStoreId/readset/id/metadata HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### id

The read set's ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

### sequenceStoreId

The read set's sequence store ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
```

```
   "arn": "string",
   "creationJobId": "string",
   "creationTime": "string",
   "creationType": "string",
   "description": "string",
   "etag": {
      "algorithm": "string",
      "source1": "string",
      "source2": "string"
   },
   "files": {
      "index": {
         "contentLength": number,
         "partSize": number,
         "s3Access": {
            "s3Uri": "string"
         },
         "totalParts": number
      },
      "source1": {
         "contentLength": number,
         "partSize": number,
         "s3Access": {
            "s3Uri": "string"
         },
         "totalParts": number
      },
      "source2": {
         "contentLength": number,
         "partSize": number,
         "s3Access": {
            "s3Uri": "string"
         },
         "totalParts": number
      }
   },
   "fileType": "string",
   "id": "string",
   "name": "string",
   "referenceArn": "string",
   "sampleId": "string",
   "sequenceInformation": {
      "alignment": "string",
      "generatedFrom": "string",
```

```
      "totalBaseCount": number,
      "totalReadCount": number
   },
   "sequenceStoreId": "string",
   "status": "string",
   "statusMessage": "string",
   "subjectId": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**arn**

The read set's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `arn:.+`

**creationJobId**

The read set's creation job ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-zA-Z0-9]+`

**creationTime**

When the read set was created.

Type: Timestamp

**creationType**

The creation type of the read set.

Type: String

Valid Values: `IMPORT | UPLOAD`

**description**

The read set's description.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**etag**

The entity tag (ETag) is a hash of the object meant to represent its semantic content.

Type: ETag object

**files**

The read set's files.

Type: ReadSetFiles object

**fileType**

The read set's file type.

Type: String

Valid Values: `FASTQ | BAM | CRAM | UBAM`

**id**

The read set's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

**name**

The read set's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**referenceArn**

The read set's genome reference ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `arn:.+`

**sampleId**

The read set's sample ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**sequenceInformation**

The read set's sequence information.

Type: SequenceInformation object

**sequenceStoreId**

The read set's sequence store ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

**status**

The read set's status.

Type: String

Valid Values: `ARCHIVED | ACTIVATING | ACTIVE | DELETING | DELETED | PROCESSING_UPLOAD | UPLOAD_FAILED`

**statusMessage**

The status message for a read set. It provides more detail as to why the read set has a status.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**subjectId**

The read set's subject ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# GetReference

Downloads parts of data from a reference genome and returns the reference file in the same format that it was uploaded.

For more information, see Creating a HealthOmics reference store in the *AWS HealthOmics User Guide*.

## Request Syntax

```
GET /referencestore/referenceStoreId/reference/id?file=file&partNumber=partNumber
 HTTP/1.1
Range: range
```

## URI Request Parameters

The request uses the following URI parameters.

**file**

The file to retrieve.

Valid Values: `SOURCE | INDEX`

**id**

The reference's ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

**partNumber**

The part number to retrieve.

Valid Range: Minimum value of 1. Maximum value of 10000.

Required: Yes

**range**

The range to retrieve.

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{N}||\p{P}]+`

**referenceStoreId**

The reference's store ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200

payload
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The response returns the following as the HTTP body.

**payload**

The reference file payload.

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RangeNotSatisfiableException**

The ranges specified in the request are not valid.

HTTP Status Code: 416

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2

- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# GetReferenceImportJob

Monitors the status of a reference import job. This operation can be called after calling the `StartReferenceImportJob` operation.

## Request Syntax

```
GET /referencestore/referenceStoreId/importjob/id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**id**

The job's ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

**referenceStoreId**

The job's reference store ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
   "completionTime": "string",
   "creationTime": "string",
   "id": "string",
   "referenceStoreId": "string",
   "roleArn": "string",
   "sources": [
      {
         "description": "string",
         "name": "string",
         "referenceId": "string",
         "sourceFile": "string",
         "status": "string",
         "statusMessage": "string",
         "tags": {
            "string" : "string"
         }
      }
   ],
   "status": "string",
   "statusMessage": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**completionTime**

When the job completed.

Type: Timestamp

**creationTime**

When the job was created.

Type: Timestamp

**id**

The job's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

**referenceStoreId**

The job's reference store ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

**roleArn**

The job's service role ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:.*`

**sources**

The job's source files.

Type: Array of ImportReferenceSourceItem objects

**status**

The job's status.

Type: String

Valid Values: `SUBMITTED | IN_PROGRESS | CANCELLING | CANCELLED | FAILED | COMPLETED | COMPLETED_WITH_FAILURES`

**statusMessage**

The job's status message.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# GetReferenceMetadata

Retrieves metadata for a reference genome. This operation returns the number of parts, part size, and MD5 of an entire file. This operation does not return tags. To retrieve the list of tags for a read set, use the `ListTagsForResource` API operation.

## Request Syntax

```
GET /referencestore/referenceStoreId/reference/id/metadata HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**id**

The reference's ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

**referenceStoreId**

The reference's reference store ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
   "arn": "string",
   "creationJobId": "string",
   "creationTime": "string",
   "creationType": "string",
   "description": "string",
   "files": {
      "index": {
         "contentLength": number,
         "partSize": number,
         "s3Access": {
            "s3Uri": "string"
         },
         "totalParts": number
      },
      "source": {
         "contentLength": number,
         "partSize": number,
         "s3Access": {
            "s3Uri": "string"
         },
         "totalParts": number
      }
   },
   "id": "string",
   "md5": "string",
   "name": "string",
   "referenceStoreId": "string",
   "status": "string",
   "updateTime": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### arn

The reference's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `arn:.+`

**creationJobId**

The reference's creation job ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[a-zA-Z0-9]+`

**creationTime**

When the reference was created.

Type: Timestamp

**creationType**

The reference's creation type.

Type: String

Valid Values: `IMPORT`

**description**

The reference's description.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**files**

The reference's files.

Type: ReferenceFiles object

**id**

The reference's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

**md5**

The reference's MD5 checksum.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}||\p{N}]+`

**name**

The reference's name.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**referenceStoreId**

The reference's reference store ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

**status**

The reference's status.

Type: String

Valid Values: `ACTIVE | DELETING | DELETED`

**updateTime**

When the reference was updated.

Type: Timestamp

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# GetReferenceStore

Gets information about a reference store.

## Request Syntax

```
GET /referencestore/id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### id

The store's ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "arn": "string",
   "creationTime": "string",
   "description": "string",
   "id": "string",
   "name": "string",
   "sseConfig": {
      "keyArn": "string",
      "type": "string"
   }
```

```
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**arn**

The store's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `arn:.+`

**creationTime**

When the store was created.

Type: Timestamp

**description**

The store's description.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**id**

The store's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

**name**

The store's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**sseConfig**

The store's server-side encryption (SSE) settings.

Type: SseConfig object

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# GetRun

Gets detailed information about a specific run using its ID.

AWS HealthOmics stores a configurable number of runs, as determined by service limits, that are available to the console and API. If `GetRun` does not return the requested run, you can find all run logs in the CloudWatch logs. For more information about viewing the run logs, see CloudWatch logs in the *AWS HealthOmics User Guide*.

## Request Syntax

```
GET /run/id?export=export HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**export**

The run's export format.

Array Members: Minimum number of 0 items. Maximum number of 32 items.

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `DEFINITION`

**id**

The run's ID.

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "accelerators": "string",
   "arn": "string",
   "batchId": "string",
   "cacheBehavior": "string",
   "cacheId": "string",
   "configuration": {
      "arn": "string",
      "name": "string",
      "uuid": "string"
   },
   "creationTime": "string",
   "definition": "string",
   "digest": "string",
   "engineSettings": JSON value,
   "engineVersion": "string",
   "failureReason": "string",
   "id": "string",
   "logLevel": "string",
   "logLocation": {
      "engineLogStream": "string",
      "runLogStream": "string"
   },
   "name": "string",
   "networkingMode": "string",
   "outputUri": "string",
   "outputUriPrefixMode": "string",
   "parameters": JSON value,
   "priority": number,
   "resourceDigests": {
      "string" : "string"
   },
   "retentionMode": "string",
   "roleArn": "string",
   "runGroupId": "string",
   "runId": "string",
   "runOutputUri": "string",
   "scratchStorageMode": "string",
   "sessionPolicy": "string",
```

```
   "startedBy": "string",
   "startTime": "string",
   "status": "string",
   "statusMessage": "string",
   "stopTime": "string",
   "storageCapacity": number,
   "storageType": "string",
   "tags": {
      "string" : "string"
   },
   "uuid": "string",
   "vpcConfig": {
      "securityGroupIds": [ "string" ],
      "subnetIds": [ "string" ],
      "vpcId": "string",
      "vpcOwnerAccountId": "string"
   },
   "workflowId": "string",
   "workflowOwnerId": "string",
   "workflowType": "string",
   "workflowUuid": "string",
   "workflowVersionName": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**accelerators**

The computational accelerator used to run the workflow.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: GPU

**arn**

The run's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:.+`

**batchId**

The run's batch ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

**cacheBehavior**

The run cache behavior for the run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `CACHE_ON_FAILURE | CACHE_ALWAYS`

**cacheId**

The run cache associated with the run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

**configuration**

Configuration details for the workflow run.

Type: ConfigurationDetails object

**creationTime**

When the run was created.

Type: Timestamp

**definition**

The run's definition.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**digest**

The run's digest.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

**engineSettings**

The engine-specific settings for the workflow run.

Type: JSON value

**engineVersion**

The actual Nextflow engine version that AWS HealthOmics used for the run. The other workflow definition languages don't provide a value for this field.

Type: String

Pattern: `[0-9]{2}.[0-9]{2}.[0-9]`

**failureReason**

The reason a run has failed.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**id**

The run's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

**logLevel**

The run's log level.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `OFF | FATAL | ERROR | ALL`

**logLocation**

The location of the run log.

Type: RunLogLocation object

**name**

The run's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**networkingMode**

Configuration for run networking behavior. If absent, this will default to RESTRICTED.

Type: String

Valid Values: `RESTRICTED | VPC`

**outputUri**

The run's output URI.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 750.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**outputUriPrefixMode**

The service returns the value that the `StartRun` request specified for `outputUriPrefixMode`. The service returns `SERVICE_DEFINED` if the request did not specify a value.

Type: String

Valid Values: `SERVICE_DEFINED | NONE_WITH_OVERWRITE`

**parameters**

The run's parameters.

Type: JSON value

**priority**

The run's priority.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100000.

**resourceDigests**

The run's resource digests.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 256.

Key Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Value Length Constraints: Minimum length of 0. Maximum length of 64.

Value Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**retentionMode**

The run's retention mode.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `RETAIN | REMOVE`

**roleArn**

The run's service role ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:.+`

**runGroupId**

The run's group ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

**runId**

The run's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

**runOutputUri**

The destination for workflow outputs.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 750.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**scratchStorageMode**

Optional configuration for enabling scratch ephemeral storage mounted at /tmp. If absent, this will default to SHARED. This configuration is applicable only for CPU tasks. For tasks using GPUs, scratch storage is always LOCAL.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `LOCAL | SHARED`

**sessionPolicy**

Inline policy json for scoping down permissions via a session policy on the IAM role.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[\p{L}\p{M}\p{Z}\p{S}\p{N}\p{P}\t\n\r]+`

**startedBy**

Who started the run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

**startTime**

When the run started.

Type: Timestamp

**status**

The run's status.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `PENDING | STARTING | RUNNING | STOPPING | COMPLETED | DELETED | CANCELLED | FAILED`

**statusMessage**

The run's status message.

Type: String

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**stopTime**

The run's stop time.

Type: Timestamp

**storageCapacity**

The run's storage capacity in gibibytes. For dynamic storage, after the run has completed, this value is the maximum amount of storage used during the run.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100000.

**storageType**

The run's storage type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `STATIC | DYNAMIC`

**tags**

The run's tags.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

**uuid**

The universally unique identifier for a run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**vpcConfig**

VPC configuration for the workflow run.

Type: VpcConfigResponse object

**workflowId**

The run's workflow ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

**workflowOwnerId**

The ID of the workflow owner.

Type: String

Pattern: `[0-9]{12}`

**workflowType**

The run's workflow type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `PRIVATE | READY2RUN`

**workflowUuid**

The universally unique identifier (UUID) value for the workflow.

Type: String

Pattern: `[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}`

**workflowVersionName**

The workflow version name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[A-Za-z0-9][A-Za-z0-9\-\._]*`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# GetRunCache

Retrieves detailed information about the specified run cache using its ID.

For more information, see Call caching for AWS HealthOmics runs in the *AWS HealthOmics User Guide*.

## Request Syntax

```
GET /runCache/id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### id

The identifier of the run cache to retrieve.

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "arn": "string",
   "cacheBehavior": "string",
   "cacheBucketOwnerId": "string",
   "cacheS3Uri": "string",
   "creationTime": "string",
   "description": "string",
   "id": "string",
```

```
   "name": "string",
   "status": "string",
   "tags": {
      "string" : "string"
   }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**arn**

Unique resource identifier for the run cache.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:.+`

**cacheBehavior**

The default cache behavior for runs using this cache.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `CACHE_ON_FAILURE | CACHE_ALWAYS`

**cacheBucketOwnerId**

The identifier of the bucket owner.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `[0-9]+`

**cacheS3Uri**

The S3 URI where the cache data is stored.

Type: String

Pattern: `s3://([a-z0-9][a-z0-9-.]{1,61}[a-z0-9])(/(.{0,1024}))?`

**creationTime**

Creation time of the run cache (an ISO 8601 formatted string).

Type: Timestamp

**description**

The run cache description.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**id**

The run cache ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

**name**

The run cache name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**status**

The run cache status.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `ACTIVE | DELETED | FAILED`

**tags**

The tags associated with the run cache.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# GetRunGroup

Gets information about a run group and returns its metadata.

## Request Syntax

```
GET /runGroup/id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### id

The group's ID.

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "arn": "string",
   "creationTime": "string",
   "id": "string",
   "maxCpus": number,
   "maxDuration": number,
   "maxGpus": number,
   "maxRuns": number,
   "name": "string",
   "tags": {
      "string" : "string"
```

```
    }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**arn**

The group's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:.+`

**creationTime**

When the group was created.

Type: Timestamp

**id**

The group's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

**maxCpus**

The group's maximum number of CPUs to use.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100000.

**maxDuration**

The group's maximum run time in minutes.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100000.

**maxGpus**

The maximum GPUs that can be used by a run group.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100000.

**maxRuns**

The maximum number of concurrent runs for the group.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100000.

**name**

The group's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**tags**

The group's tags.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# GetRunTask

Gets detailed information about a run task using its ID.

## Request Syntax

```
GET /run/id/task/taskId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**id**

The workflow run ID.

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

Required: Yes

**taskId**

The task's ID.

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "cacheHit": boolean,
```

```
    "cacheS3Uri": "string",
    "cpus": number,
    "creationTime": "string",
    "failureReason": "string",
    "gpus": number,
    "imageDetails": {
       "image": "string",
       "imageDigest": "string",
       "sourceImage": "string"
    },
    "instanceType": "string",
    "logStream": "string",
    "memory": number,
    "name": "string",
    "startTime": "string",
    "status": "string",
    "statusMessage": "string",
    "stopTime": "string",
    "taskId": "string",
    "uuid": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**cacheHit**

Set to true if AWS HealthOmics found a matching entry in the run cache for this task.

Type: Boolean

**cacheS3Uri**

The S3 URI of the cache location.

Type: String

Pattern: `s3://([a-z0-9][a-z0-9-.]{1,61}[a-z0-9])(/(.{0,1024}))?`

**cpus**

The task's CPU usage.

Type: Integer

Valid Range: Minimum value of 1.

**creationTime**

When the task was created.

Type: Timestamp

**failureReason**

The reason a task has failed.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**gpus**

The number of Graphics Processing Units (GPU) specified in the task.

Type: Integer

Valid Range: Minimum value of 0.

**imageDetails**

Details about the container image that this task uses.

Type: ImageDetails object

**instanceType**

The instance type for a task.

Type: String

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**logStream**

The task's log stream.

Type: String

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**memory**

The task's memory use in gigabytes.

Type: Integer

Valid Range: Minimum value of 1.

**name**

The task's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

**startTime**

The task's start time.

Type: Timestamp

**status**

The task's status.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `PENDING | STARTING | RUNNING | STOPPING | COMPLETED | CANCELLED | FAILED`

**statusMessage**

The task's status message.

Type: String

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**stopTime**

The task's stop time.

Type: Timestamp

**taskId**

The task's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

**uuid**

The universally unique identifier (UUID) for the workflow task.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# GetS3AccessPolicy

Retrieves details about an access policy on a given store.

## Request Syntax

```
GET /s3accesspolicy/s3AccessPointArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### s3AccessPointArn

The S3 access point ARN that has the access policy.

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `arn:[^:]*:s3:[^:]*:[^:]*:accesspoint/.*`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "s3AccessPointArn": "string",
   "s3AccessPolicy": "string",
   "storeId": "string",
   "storeType": "string",
   "updateTime": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**s3AccessPointArn**

The S3 access point ARN that has the access policy.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `arn:[^:]*:s3:[^:]*:[^:]*:accesspoint/.*`

**s3AccessPolicy**

The current resource policy that controls S3 access on the store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100000.

**storeId**

The AWS-generated Sequence Store or Reference Store ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

**storeType**

The type of store associated with the access point.

Type: String

Valid Values: `SEQUENCE_STORE | REFERENCE_STORE`

**updateTime**

The time when the policy was last updated.

Type: Timestamp

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**NotSupportedOperationException**

The operation is not supported by Amazon Omics, or the API does not exist.

HTTP Status Code: 405

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# GetSequenceStore

Retrieves metadata for a sequence store using its ID and returns it in JSON format.

## Request Syntax

```
GET /sequencestore/id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### id

The store's ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "arn": "string",
   "creationTime": "string",
   "description": "string",
   "eTagAlgorithmFamily": "string",
   "fallbackLocation": "string",
   "id": "string",
   "name": "string",
   "propagatedSetLevelTags": [ "string" ],
   "s3Access": {
      "accessLogLocation": "string",
```

```
      "s3AccessPointArn": "string",
      "s3Uri": "string"
   },
   "sseConfig": {
      "keyArn": "string",
      "type": "string"
   },
   "status": "string",
   "statusMessage": "string",
   "updateTime": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**arn**

The store's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `arn:.+`

**creationTime**

When the store was created.

Type: Timestamp

**description**

The store's description.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**eTagAlgorithmFamily**

The algorithm family of the ETag.

Type: String

Valid Values: `MD5up | SHA256up | SHA512up`

**fallbackLocation**

An S3 location that is used to store files that have failed a direct upload.

Type: String

Pattern: `$|^s3://([a-z0-9][a-z0-9-.]{1,61}[a-z0-9])/?((.{1,1024})/)?`

**id**

The store's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

**name**

The store's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**propagatedSetLevelTags**

The tags keys to propagate to the S3 objects associated with read sets in the sequence store.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Length Constraints: Minimum length of 1. Maximum length of 128.

**s3Access**

The S3 metadata of a sequence store, including the ARN and S3 URI of the S3 bucket.

Type: SequenceStoreS3Access object

**sseConfig**

The store's server-side encryption (SSE) settings.

Type: SseConfig object

**status**

The status of the sequence store.

Type: String

Valid Values: `CREATING | ACTIVE | UPDATING | DELETING | FAILED`

**statusMessage**

The status message of the sequence store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**updateTime**

The last-updated time of the sequence store.

Type: Timestamp

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# GetShare

Retrieves the metadata for the specified resource share.

## Request Syntax

```
GET /share/shareId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### shareId

The ID of the share.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "share": {
      "creationTime": "string",
      "ownerId": "string",
      "principalSubscriber": "string",
      "resourceArn": "string",
      "resourceId": "string",
      "shareId": "string",
      "shareName": "string",
      "status": "string",
      "statusMessage": "string",
      "updateTime": "string"
   }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**share**

A resource share details object. The object includes the status, the resourceArn, and ownerId.

Type: ShareDetails object

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# GetVariantImportJob

> **Important**
>
> AWS HealthOmics variant stores and annotation stores are no longer open to new customers. Existing customers can continue to use the service as normal. For more information, see AWS HealthOmics variant store and annotation store availability change.

Gets information about a variant import job.

## Request Syntax

```
GET /import/variant/jobId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**jobId**

The job's ID.

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "annotationFields": {
      "string" : "string"
   },
```

```
    "completionTime": "string",
    "creationTime": "string",
    "destinationName": "string",
    "id": "string",
    "items": [
       {
          "jobStatus": "string",
          "source": "string",
          "statusMessage": "string"
       }
    ],
    "roleArn": "string",
    "runLeftNormalization": boolean,
    "status": "string",
    "statusMessage": "string",
    "updateTime": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**annotationFields**

The annotation schema generated by the parsed annotation data.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 21.

Value Length Constraints: Minimum length of 1. Maximum length of 21.

**completionTime**

When the job completed.

Type: Timestamp

**creationTime**

When the job was created.

Type: Timestamp

**destinationName**

The job's destination variant store.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: `([a-z]){1}([a-z0-9_]){2,254}`

**id**

The job's ID.

Type: String

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

**items**

The job's items.

Type: Array of VariantImportItemDetail objects

Array Members: Minimum number of 1 item.

**roleArn**

The job's service role ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:([^: ]*):([^: ]*):([^: ]*):([0-9]{12}):([^: ]*)`

**runLeftNormalization**

The job's left normalization setting.

Type: Boolean

**status**

The job's status.

Type: String

Valid Values: `SUBMITTED | IN_PROGRESS | CANCELLED | COMPLETED | FAILED | COMPLETED_WITH_FAILURES`

**statusMessage**

The job's status message.

Type: String

**updateTime**

When the job was updated.

Type: Timestamp

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# GetVariantStore

> **Important**
>
> AWS HealthOmics variant stores and annotation stores are no longer open to new customers. Existing customers can continue to use the service as normal. For more information, see AWS HealthOmics variant store and annotation store availability change.

Gets information about a variant store.

## Request Syntax

```
GET /variantStore/name HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**name**

The store's name.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "creationTime": "string",
   "description": "string",
   "id": "string",
   "name": "string",
   "reference": { ... },
```

```
   "sseConfig": {
      "keyArn": "string",
      "type": "string"
   },
   "status": "string",
   "statusMessage": "string",
   "storeArn": "string",
   "storeSizeBytes": number,
   "tags": {
      "string" : "string"
   },
   "updateTime": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**creationTime**

When the store was created.

Type: Timestamp

**description**

The store's description.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

**id**

The store's ID.

Type: String

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

**name**

The store's name.

Type: String

**reference**

The store's genome reference.

Type: ReferenceItem object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

**sseConfig**

The store's server-side encryption (SSE) settings.

Type: SseConfig object

**status**

The store's status.

Type: String

Valid Values: `CREATING | UPDATING | DELETING | ACTIVE | FAILED`

**statusMessage**

The store's status message.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1000.

**storeArn**

The store's ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:([^: ]*):([^: ]*):([^: ]*):([0-9]{12}):([^: ]*)`

**storeSizeBytes**

The store's size in bytes.

Type: Long

**tags**

The store's tags.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

**updateTime**

When the store was updated.

Type: Timestamp

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# GetWorkflow

Gets all information about a workflow using its ID.

If a workflow is shared with you, you cannot export the workflow.

For more information about your workflow status, see Verify the workflow status in the *AWS HealthOmics User Guide*.

## Request Syntax

```
GET /workflow/id?export=export&type=type&workflowOwnerId=workflowOwnerId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**export**

The export format for the workflow.

Array Members: Minimum number of 0 items. Maximum number of 32 items.

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `DEFINITION | README`

**id**

The workflow's ID.

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

Required: Yes

**type**

The workflow's type.

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `PRIVATE | READY2RUN`

**workflowOwnerId**

The ID of the workflow owner.

Pattern: `[0-9]{12}`

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "accelerators": "string",
   "arn": "string",
   "containerRegistryMap": {
      "imageMappings": [
         {
            "destinationImage": "string",
            "sourceImage": "string"
         }
      ],
      "registryMappings": [
         {
            "credentialArn": "string",
            "ecrAccountId": "string",
            "ecrRepositoryPrefix": "string",
            "upstreamRegistryUrl": "string",
            "upstreamRepositoryPrefix": "string"
         }
      ]
   },
   "creationTime": "string",
   "definition": "string",
   "definitionRepositoryDetails": {
      "connectionArn": "string",
      "fullRepositoryId": "string",
      "providerEndpoint": "string",
      "providerType": "string",
      "sourceReference": {
```

```
            "type": "string",
            "value": "string"
         }
      },
      "description": "string",
      "digest": "string",
      "engine": "string",
      "id": "string",
      "main": "string",
      "metadata": {
         "string" : "string"
      },
      "name": "string",
      "parameterTemplate": {
         "string" : {
            "description": "string",
            "optional": boolean
         }
      },
      "profileParameterTemplates": {
         "string" : {
            "string" : {
               "description": "string",
               "optional": boolean
            }
         }
      },
      "profiles": [ "string" ],
      "readme": "string",
      "readmePath": "string",
      "status": "string",
      "statusMessage": "string",
      "storageCapacity": number,
      "storageType": "string",
      "tags": {
         "string" : "string"
      },
      "type": "string",
      "uuid": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**accelerators**

The computational accelerator specified to run the workflow.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: GPU

**arn**

The workflow's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: arn:.+

**containerRegistryMap**

The registry map that this workflow is using.

Type: ContainerRegistryMap object

**creationTime**

When the workflow was created.

Type: Timestamp

**definition**

The workflow's definition.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: [\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+

**definitionRepositoryDetails**

Details about the source code repository that hosts the workflow definition files.

Type: DefinitionRepositoryDetails object

**description**

The workflow's description.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**digest**

The workflow's digest.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

**engine**

The workflow's engine.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `WDL | NEXTFLOW | CWL | WDL_LENIENT`

**id**

The workflow's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

**main**

The path of the main definition file for the workflow.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**metadata**

Gets metadata for the workflow.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

**name**

The workflow's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**parameterTemplate**

The workflow's parameter template.

Type: String to WorkflowParameter object map

Map Entries: Maximum number of 2000 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**profileParameterTemplates**

A mapping of profile names to their parameter templates. Each profile defines its own set of parameters that you can use when starting a run with that profile.

Type: String to string to WorkflowParameter object map map

Map Entries: Maximum number of 2000 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**profiles**

The list of Nextflow profiles that are available for this workflow. Profiles allow you to select predefined configuration settings at runtime.

Type: Array of strings

**readme**

The README content for the workflow, providing documentation and usage information.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**readmePath**

The path to the workflow README markdown file within the repository. This file provides documentation and usage information for the workflow. If not specified, the `README.md` file from the root directory of the repository will be used.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**status**

The workflow's status.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `CREATING | ACTIVE | UPDATING | DELETED | FAILED | INACTIVE`

**statusMessage**

The workflow's status message.

Type: String

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**storageCapacity**

The default static storage capacity (in gibibytes) for runs that use this workflow or workflow version.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100000.

**storageType**

The default storage type for runs using this workflow.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `STATIC | DYNAMIC`

**tags**

The workflow's tags.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

**type**

The workflow's type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `PRIVATE | READY2RUN`

**uuid**

The universally unique identifier (UUID) value for this workflow.

Type: String

Pattern: `[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# GetWorkflowVersion

Gets information about a workflow version. For more information, see Workflow versioning in AWS HealthOmics in the *AWS HealthOmics User Guide*.

## Request Syntax

```
GET /workflow/workflowId/version/versionName?
export=export&type=type&workflowOwnerId=workflowOwnerId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**export**

The export format for the workflow.

Array Members: Minimum number of 0 items. Maximum number of 32 items.

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `DEFINITION | README`

**type**

The workflow's type.

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `PRIVATE | READY2RUN`

**versionName**

The workflow version name.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[A-Za-z0-9][A-Za-z0-9\-\._]*`

Required: Yes

**workflowId**

The workflow's ID. The `workflowId` is not the UUID.

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

Required: Yes

**workflowOwnerId**

The 12-digit account ID of the workflow owner. The workflow owner ID can be retrieved using the `GetShare` API operation. If you are the workflow owner, you do not need to include this ID.

Pattern: `[0-9]{12}`

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "accelerators": "string",
   "arn": "string",
   "containerRegistryMap": {
      "imageMappings": [
         {
            "destinationImage": "string",
            "sourceImage": "string"
         }
      ],
      "registryMappings": [
         {
            "credentialArn": "string",
            "ecrAccountId": "string",
            "ecrRepositoryPrefix": "string",
            "upstreamRegistryUrl": "string",
            "upstreamRepositoryPrefix": "string"
         }
      ]
   },
   "creationTime": "string",
   "definition": "string",
   "definitionRepositoryDetails": {
      "connectionArn": "string",
```

```
      "fullRepositoryId": "string",
      "providerEndpoint": "string",
      "providerType": "string",
      "sourceReference": {
         "type": "string",
         "value": "string"
      }
   },
   "description": "string",
   "digest": "string",
   "engine": "string",
   "main": "string",
   "metadata": {
      "string" : "string"
   },
   "parameterTemplate": {
      "string" : {
         "description": "string",
         "optional": boolean
      }
   },
   "profileParameterTemplates": {
      "string" : {
         "string" : {
            "description": "string",
            "optional": boolean
         }
      }
   },
   "profiles": [ "string" ],
   "readme": "string",
   "readmePath": "string",
   "status": "string",
   "statusMessage": "string",
   "storageCapacity": number,
   "storageType": "string",
   "tags": {
      "string" : "string"
   },
   "type": "string",
   "uuid": "string",
   "versionName": "string",
   "workflowBucketOwnerId": "string",
   "workflowId": "string"
```

```
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**accelerators**

The accelerator for this workflow version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `GPU`

**arn**

ARN of the workflow version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 150.

Pattern: `arn:.+`

**containerRegistryMap**

The registry map that this workflow version uses.

Type: ContainerRegistryMap object

**creationTime**

When the workflow version was created.

Type: Timestamp

**definition**

Definition of the workflow version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**definitionRepositoryDetails**

Details about the source code repository that hosts the workflow version definition files.

Type: DefinitionRepositoryDetails object

**description**

Description of the workflow version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**digest**

The workflow version's digest.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

**engine**

The workflow engine for this workflow version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `WDL | NEXTFLOW | CWL | WDL_LENIENT`

**main**

The path of the main definition file for the workflow.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**metadata**

The metadata for the workflow version.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

**parameterTemplate**

The parameter template for the workflow version.

Type: String to WorkflowParameter object map

Map Entries: Maximum number of 2000 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**profileParameterTemplates**

A mapping of profile names to their parameter templates. Each profile defines its own set of parameters that you can use when starting a run with that profile.

Type: String to string to WorkflowParameter object map map

Map Entries: Maximum number of 2000 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**profiles**

The list of Nextflow profiles that are available for this workflow version. Profiles allow you to select predefined configuration settings at runtime.

Type: Array of strings

**readme**

The README content for the workflow version, providing documentation and usage information specific to this version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**readmePath**

The path to the workflow version README markdown file within the repository. This file provides documentation and usage information for the workflow. If not specified, the `README.md` file from the root directory of the repository will be used.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**status**

The workflow version status

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `CREATING | ACTIVE | UPDATING | DELETED | FAILED | INACTIVE`

**statusMessage**

The workflow version status message

Type: String

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**storageCapacity**

The default run storage capacity for static storage.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100000.

**storageType**

The default storage type for the run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `STATIC | DYNAMIC`

**tags**

The workflow version tags

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

**type**

The workflow version type

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `PRIVATE | READY2RUN`

**uuid**

The universally unique identifier (UUID) value for this workflow version

Type: String

Pattern: `[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{4}-[0-9a-fA-F]{12}`

**versionName**

The workflow version name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[A-Za-z0-9][A-Za-z0-9\-\._]*`

**workflowBucketOwnerId**

AWS Id of the owner of the bucket.

Type: String

Pattern: `[0-9]{12}`

**workflowId**

The workflow's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# ListAnnotationImportJobs

> **Important**
>
> AWS HealthOmics variant stores and annotation stores are no longer open to new customers. Existing customers can continue to use the service as normal. For more information, see AWS HealthOmics variant store and annotation store availability change.

Retrieves a list of annotation import jobs.

## Request Syntax

```
POST /import/annotations?maxResults=maxResults&nextToken=nextToken HTTP/1.1
Content-type: application/json

{
   "filter": {
      "status": "string",
      "storeName": "string"
   },
   "ids": [ "string" ]
}
```

## URI Request Parameters

The request uses the following URI parameters.

**maxResults**

The maximum number of jobs to return in one page of results.

Valid Range: Minimum value of 1. Maximum value of 100.

**nextToken**

Specifies the pagination token from a previous request to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 10000.

## Request Body

The request accepts the following data in JSON format.

**filter**

A filter to apply to the list.

Type: ListAnnotationImportJobsFilter object

Required: No

**ids**

IDs of annotation import jobs to retrieve.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Length Constraints: Minimum length of 1. Maximum length of 50.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "annotationImportJobs": [
      {
         "annotationFields": {
            "string" : "string"
         },
         "completionTime": "string",
         "creationTime": "string",
         "destinationName": "string",
         "id": "string",
         "roleArn": "string",
         "runLeftNormalization": boolean,
         "status": "string",
         "updateTime": "string",
         "versionName": "string"
```

```
      }
   ],
   "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**annotationImportJobs**

A list of jobs.

Type: Array of AnnotationImportJobItem objects

**nextToken**

Specifies the pagination token from a previous request to retrieve the next page of results.

Type: String

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# ListAnnotationStores

> **Important**
>
> AWS HealthOmics variant stores and annotation stores are no longer open to new customers. Existing customers can continue to use the service as normal. For more information, see AWS HealthOmics variant store and annotation store availability change.

Retrieves a list of annotation stores.

## Request Syntax

```
POST /annotationStores?maxResults=maxResults&nextToken=nextToken HTTP/1.1
Content-type: application/json

{
   "filter": {
      "status": "string"
   },
   "ids": [ "string" ]
}
```

## URI Request Parameters

The request uses the following URI parameters.

**maxResults**

The maximum number of stores to return in one page of results.

Valid Range: Minimum value of 1. Maximum value of 100.

**nextToken**

Specify the pagination token from a previous request to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 10000.

## Request Body

The request accepts the following data in JSON format.

**filter**

A filter to apply to the list.

Type: ListAnnotationStoresFilter object

Required: No

**ids**

IDs of stores to list.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Length Constraints: Minimum length of 1. Maximum length of 50.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "annotationStores": [
      {
         "creationTime": "string",
         "description": "string",
         "id": "string",
         "name": "string",
         "reference": { ... },
         "sseConfig": {
            "keyArn": "string",
            "type": "string"
         },
         "status": "string",
         "statusMessage": "string",
         "storeArn": "string",
         "storeFormat": "string",
         "storeSizeBytes": number,
         "updateTime": "string"
```

```
      }
   ],
   "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**annotationStores**

A list of stores.

Type: Array of AnnotationStoreItem objects

**nextToken**

A pagination token that's included if more results are available.

Type: String

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# ListAnnotationStoreVersions

Lists the versions of an annotation store.

## Request Syntax

```
POST /annotationStore/name/versions?maxResults=maxResults&nextToken=nextToken HTTP/1.1
Content-type: application/json

{
   "filter": {
      "status": "string"
   }
}
```

## URI Request Parameters

The request uses the following URI parameters.

**maxResults**

The maximum number of annotation store versions to return in one page of results.

Valid Range: Minimum value of 1. Maximum value of 100.

**name**

The name of an annotation store.

Required: Yes

**nextToken**

Specifies the pagination token from a previous request to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 10000.

## Request Body

The request accepts the following data in JSON format.

**filter**

A filter to apply to the list of annotation store versions.

Type: ListAnnotationStoreVersionsFilter object

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "annotationStoreVersions": [
      {
         "creationTime": "string",
         "description": "string",
         "id": "string",
         "name": "string",
         "status": "string",
         "statusMessage": "string",
         "storeId": "string",
         "updateTime": "string",
         "versionArn": "string",
         "versionName": "string",
         "versionSizeBytes": number
      }
   ],
   "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**annotationStoreVersions**

Lists all versions of an annotation store.

Type: Array of AnnotationStoreVersionItem objects

**nextToken**

Specifies the pagination token from a previous request to retrieve the next page of results.

Type: String

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++

- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# ListBatch

Returns a list of run batches in your account, with optional filtering by status, name, or run group. Results are paginated. Only one filter per call is supported.

## Request Syntax

```
GET /runBatch?
maxItems=maxItems&name=name&runGroupId=runGroupId&startingToken=startingToken&status=status
 HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**maxItems**

The maximum number of batches to return. If not specified, defaults to 100.

Valid Range: Minimum value of 1. Maximum value of 100.

**name**

Filter batches by name.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**runGroupId**

Filter batches by run group ID.

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

**startingToken**

A pagination token returned from a prior `ListBatch` call.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**status**

Filter batches by status.

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `CREATING | PENDING | SUBMITTING | INPROGRESS | STOPPING | CANCELLED | FAILED | PROCESSED | RUNS_DELETING | RUNS_DELETE_FAILED | RUNS_DELETED`

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "items": [
      {
         "createdAt": "string",
         "id": "string",
         "name": "string",
         "status": "string",
         "totalRuns": number,
         "workflowId": "string"
      }
   ],
   "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**items**

A list of batch summary objects. See `BatchListItem`.

Type: Array of BatchListItem objects

**nextToken**

A pagination token to retrieve the next page of results. Absent when no further results are available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# ListConfigurations

List all configurations for the account.

## Request Syntax

```
GET /configuration?maxResults=maxResults&startingToken=startingToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**maxResults**

Maximum number of results to return.

Valid Range: Minimum value of 1. Maximum value of 10.

**startingToken**

Pagination token for retrieving next page of results.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "items": [
      {
         "arn": "string",
         "creationTime": "string",
         "description": "string",
         "name": "string",
```

```
            "status": "string"
        }
    ],
    "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**items**

List of configuration items.

Type: Array of ConfigurationListItem objects

**nextToken**

Token for retrieving next page of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2

- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# ListMultipartReadSetUploads

Lists in-progress multipart read set uploads for a sequence store and returns it in a JSON formatted output. Multipart read set uploads are initiated by the `CreateMultipartReadSetUploads` API operation. This operation returns a response with no body when the upload is complete.

## Request Syntax

```
POST /sequencestore/sequenceStoreId/uploads?maxResults=maxResults&nextToken=nextToken
 HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**maxResults**

The maximum number of multipart uploads returned in a page.

Valid Range: Minimum value of 1. Maximum value of 100.

**nextToken**

Next token returned in the response of a previous ListMultipartReadSetUploads call. Used to get the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 6144.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**sequenceStoreId**

The Sequence Store ID used for the multipart uploads.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "nextToken": "string",
   "uploads": [
      {
         "creationTime": "string",
         "description": "string",
         "generatedFrom": "string",
         "name": "string",
         "referenceArn": "string",
         "sampleId": "string",
         "sequenceStoreId": "string",
         "sourceFileType": "string",
         "subjectId": "string",
         "tags": {
            "string" : "string"
         },
         "uploadId": "string"
      }
   ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**nextToken**

Next token returned in the response of a previous ListMultipartReadSetUploads call. Used to get the next page of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 6144.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**uploads**

An array of multipart uploads.

Type: Array of MultipartReadSetUploadListItem objects

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**NotSupportedOperationException**

The operation is not supported by Amazon Omics, or the API does not exist.

HTTP Status Code: 405

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# ListReadSetActivationJobs

Retrieves a list of read set activation jobs and returns the metadata in a JSON formatted output. To extract metadata from a read set activation job, use the `GetReadSetActivationJob` API operation.

## Request Syntax

```
POST /sequencestore/sequenceStoreId/activationjobs?
maxResults=maxResults&nextToken=nextToken HTTP/1.1
Content-type: application/json

{
   "filter": {
      "createdAfter": "string",
      "createdBefore": "string",
      "status": "string"
   }
}
```

## URI Request Parameters

The request uses the following URI parameters.

**maxResults**

The maximum number of read set activation jobs to return in one page of results.

Valid Range: Minimum value of 1. Maximum value of 100.

**nextToken**

Specify the pagination token from a previous request to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 6144.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**sequenceStoreId**

The read set's sequence store ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### filter

A filter to apply to the list.

Type: ActivateReadSetFilter object

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "activationJobs": [
      {
         "completionTime": "string",
         "creationTime": "string",
         "id": "string",
         "sequenceStoreId": "string",
         "status": "string"
      }
   ],
   "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### activationJobs

A list of jobs.

Type: Array of ActivateReadSetJobItem objects

**nextToken**

A pagination token that's included if more results are available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 6144.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# ListReadSetExportJobs

Retrieves a list of read set export jobs in a JSON formatted response. This API operation is used to check the status of a read set export job initiated by the `StartReadSetExportJob` API operation.

## Request Syntax

```
POST /sequencestore/sequenceStoreId/exportjobs?
maxResults=maxResults&nextToken=nextToken HTTP/1.1
Content-type: application/json

{
   "filter": {
      "createdAfter": "string",
      "createdBefore": "string",
      "status": "string"
   }
}
```

## URI Request Parameters

The request uses the following URI parameters.

**maxResults**

The maximum number of jobs to return in one page of results.

Valid Range: Minimum value of 1. Maximum value of 100.

**nextToken**

Specify the pagination token from a previous request to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 6144.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**sequenceStoreId**

The jobs' sequence store ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### filter

A filter to apply to the list.

Type: ExportReadSetFilter object

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "exportJobs": [
      {
         "completionTime": "string",
         "creationTime": "string",
         "destination": "string",
         "id": "string",
         "sequenceStoreId": "string",
         "status": "string"
      }
   ],
   "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### exportJobs

A list of jobs.

Type: Array of ExportReadSetJobDetail objects

**nextToken**

A pagination token that's included if more results are available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 6144.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# ListReadSetImportJobs

Retrieves a list of read set import jobs and returns the data in JSON format.

## Request Syntax

```
POST /sequencestore/sequenceStoreId/importjobs?
maxResults=maxResults&nextToken=nextToken HTTP/1.1
Content-type: application/json

{
   "filter": {
      "createdAfter": "string",
      "createdBefore": "string",
      "status": "string"
   }
}
```

## URI Request Parameters

The request uses the following URI parameters.

**maxResults**

The maximum number of jobs to return in one page of results.

Valid Range: Minimum value of 1. Maximum value of 100.

**nextToken**

Specify the pagination token from a previous request to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 6144.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**sequenceStoreId**

The jobs' sequence store ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### filter

A filter to apply to the list.

Type: ImportReadSetFilter object

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "importJobs": [
      {
         "completionTime": "string",
         "creationTime": "string",
         "id": "string",
         "roleArn": "string",
         "sequenceStoreId": "string",
         "status": "string"
      }
   ],
   "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### importJobs

A list of jobs.

Type: Array of ImportReadSetJobItem objects

**nextToken**

A pagination token that's included if more results are available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 6144.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# ListReadSets

Retrieves a list of read sets from a sequence store ID and returns the metadata in JSON format.

## Request Syntax

```
POST /sequencestore/sequenceStoreId/readsets?maxResults=maxResults&nextToken=nextToken
 HTTP/1.1
Content-type: application/json

{
   "filter": {
      "createdAfter": "string",
      "createdBefore": "string",
      "creationType": "string",
      "generatedFrom": "string",
      "name": "string",
      "referenceArn": "string",
      "sampleId": "string",
      "status": "string",
      "subjectId": "string"
   }
}
```

## URI Request Parameters

The request uses the following URI parameters.

**maxResults**

The maximum number of read sets to return in one page of results.

Valid Range: Minimum value of 1. Maximum value of 100.

**nextToken**

Specify the pagination token from a previous request to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 6144.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**sequenceStoreId**

The jobs' sequence store ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### filter

A filter to apply to the list.

Type: ReadSetFilter object

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "nextToken": "string",
   "readSets": [
      {
         "arn": "string",
         "creationTime": "string",
         "creationType": "string",
         "description": "string",
         "etag": {
            "algorithm": "string",
            "source1": "string",
            "source2": "string"
         },
         "fileType": "string",
         "id": "string",
         "name": "string",
         "referenceArn": "string",
         "sampleId": "string",
         "sequenceInformation": {
```

```
            "alignment": "string",
            "generatedFrom": "string",
            "totalBaseCount": number,
            "totalReadCount": number
         },
         "sequenceStoreId": "string",
         "status": "string",
         "statusMessage": "string",
         "subjectId": "string"
      }
   ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**nextToken**

A pagination token that's included if more results are available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 6144.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**readSets**

A list of read sets.

Type: Array of ReadSetListItem objects

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3

- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# ListReadSetUploadParts

Lists all parts in a multipart read set upload for a sequence store and returns the metadata in a JSON formatted output.

## Request Syntax

```
POST /sequencestore/sequenceStoreId/upload/uploadId/parts?
maxResults=maxResults&nextToken=nextToken HTTP/1.1
Content-type: application/json

{
   "filter": {
      "createdAfter": "string",
      "createdBefore": "string"
   },
   "partSource": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

**maxResults**

The maximum number of read set upload parts returned in a page.

Valid Range: Minimum value of 1. Maximum value of 100.

**nextToken**

Next token returned in the response of a previous ListReadSetUploadPartsRequest call. Used to get the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 6144.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**sequenceStoreId**

The Sequence Store ID used for the multipart uploads.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

**uploadId**

The ID for the initiated multipart upload.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

**filter**

Attributes used to filter for a specific subset of read set part uploads.

Type: ReadSetUploadPartListFilter object

Required: No

**partSource**

The source file for the upload part.

Type: String

Valid Values: `SOURCE1 | SOURCE2`

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "nextToken": "string",
   "parts": [
```

```
      {
         "checksum": "string",
         "creationTime": "string",
         "lastUpdatedTime": "string",
         "partNumber": number,
         "partSize": number,
         "partSource": "string"
      }
   ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**nextToken**

Next token returned in the response of a previous ListReadSetUploadParts call. Used to get the next page of results.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 6144.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**parts**

An array of upload parts.

Type: Array of ReadSetUploadPartListItem objects

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**NotSupportedOperationException**

The operation is not supported by Amazon Omics, or the API does not exist.

HTTP Status Code: 405

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# ListReferenceImportJobs

Retrieves the metadata of one or more reference import jobs for a reference store.

## Request Syntax

```
POST /referencestore/referenceStoreId/importjobs?
maxResults=maxResults&nextToken=nextToken HTTP/1.1
Content-type: application/json

{
   "filter": {
      "createdAfter": "string",
      "createdBefore": "string",
      "status": "string"
   }
}
```

## URI Request Parameters

The request uses the following URI parameters.

**maxResults**

The maximum number of jobs to return in one page of results.

Valid Range: Minimum value of 1. Maximum value of 100.

**nextToken**

Specify the pagination token from a previous request to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 6144.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**referenceStoreId**

The job's reference store ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### filter

A filter to apply to the list.

Type: ImportReferenceFilter object

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "importJobs": [
      {
         "completionTime": "string",
         "creationTime": "string",
         "id": "string",
         "referenceStoreId": "string",
         "roleArn": "string",
         "status": "string"
      }
   ],
   "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### importJobs

A lis of jobs.

Type: Array of ImportReferenceJobItem objects

**nextToken**

A pagination token that's included if more results are available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 6144.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# ListReferences

Retrieves the metadata of one or more reference genomes in a reference store.

For more information, see Creating a reference store in the *AWS HealthOmics User Guide*.

## Request Syntax

```
POST /referencestore/referenceStoreId/references?
maxResults=maxResults&nextToken=nextToken HTTP/1.1
Content-type: application/json

{
   "filter": {
      "createdAfter": "string",
      "createdBefore": "string",
      "md5": "string",
      "name": "string"
   }
}
```

## URI Request Parameters

The request uses the following URI parameters.

**maxResults**

The maximum number of references to return in one page of results.

Valid Range: Minimum value of 1. Maximum value of 100.

**nextToken**

Specify the pagination token from a previous request to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 6144.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**referenceStoreId**

The references' reference store ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### filter

A filter to apply to the list.

Type: ReferenceFilter object

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "nextToken": "string",
   "references": [
      {
         "arn": "string",
         "creationTime": "string",
         "description": "string",
         "id": "string",
         "md5": "string",
         "name": "string",
         "referenceStoreId": "string",
         "status": "string",
         "updateTime": "string"
      }
   ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**nextToken**

A pagination token that's included if more results are available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 6144.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**references**

A list of references.

Type: Array of ReferenceListItem objects

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# ListReferenceStores

Retrieves a list of reference stores linked to your account and returns their metadata in JSON format.

For more information, see Creating a reference store in the *AWS HealthOmics User Guide*.

## Request Syntax

```
POST /referencestores?maxResults=maxResults&nextToken=nextToken HTTP/1.1
Content-type: application/json

{
   "filter": {
      "createdAfter": "string",
      "createdBefore": "string",
      "name": "string"
   }
}
```

## URI Request Parameters

The request uses the following URI parameters.

**maxResults**

The maximum number of stores to return in one page of results.

Valid Range: Minimum value of 1. Maximum value of 100.

**nextToken**

Specify the pagination token from a previous request to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 6144.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

## Request Body

The request accepts the following data in JSON format.

**filter**

A filter to apply to the list.

Type: ReferenceStoreFilter object

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "nextToken": "string",
   "referenceStores": [
      {
         "arn": "string",
         "creationTime": "string",
         "description": "string",
         "id": "string",
         "name": "string",
         "sseConfig": {
            "keyArn": "string",
            "type": "string"
         }
      }
   ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**nextToken**

A pagination token that's included if more results are available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 6144.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**referenceStores**

A list of reference stores.

Type: Array of ReferenceStoreDetail objects

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# ListRunCaches

Retrieves a list of your run caches and the metadata for each cache.

## Request Syntax

```
GET /runCache?maxResults=maxResults&startingToken=startingToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**maxResults**

The maximum number of results to return.

Valid Range: Minimum value of 1. Maximum value of 100.

**startingToken**

Optional pagination token returned from a prior call to the `ListRunCaches` API operation.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "items": [
      {
         "arn": "string",
         "cacheBehavior": "string",
         "cacheS3Uri": "string",
         "creationTime": "string",
```

```
            "id": "string",
            "name": "string",
            "status": "string"
        }
    ],
    "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**items**

Details about each run cache in the response.

Type: Array of RunCacheListItem objects

**nextToken**

Pagination token to retrieve additional run caches. If the response does not have a `nextToken`value, you have reached to the end of the list.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++

- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# ListRunGroups

Retrieves a list of all run groups and returns the metadata for each run group.

## Request Syntax

```
GET /runGroup?maxResults=maxResults&name=name&startingToken=startingToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**maxResults**

The maximum number of run groups to return in one page of results.

Valid Range: Minimum value of 1. Maximum value of 100.

**name**

The run groups' name.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**startingToken**

Specify the pagination token from a previous request to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
```

```
   "items": [
      {
         "arn": "string",
         "creationTime": "string",
         "id": "string",
         "maxCpus": number,
         "maxDuration": number,
         "maxGpus": number,
         "maxRuns": number,
         "name": "string"
      }
   ],
   "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**items**

A list of groups.

Type: Array of RunGroupListItem objects

**nextToken**

A pagination token that's included if more results are available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# ListRuns

Retrieves a list of runs and returns each run's metadata and status.

AWS HealthOmics stores a configurable number of runs, as determined by service limits, that are available to the console and API. If the `ListRuns` response doesn't include specific runs that you expected, you can find all run logs in the CloudWatch logs. For more information about viewing the run logs, see CloudWatch logs in the *AWS HealthOmics User Guide*.

## Request Syntax

```
GET /run?
batchId=batchId&maxResults=maxResults&name=name&runGroupId=runGroupId&startingToken=startingTok
 HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**batchId**

Filter by batch ID.

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

**maxResults**

The maximum number of runs to return in one page of results.

Valid Range: Minimum value of 1. Maximum value of 100.

**name**

Filter the list by run name.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**runGroupId**

Filter the list by run group ID.

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

**startingToken**

Specify the pagination token from a previous request to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**status**

The status of a run.

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `PENDING | STARTING | RUNNING | STOPPING | COMPLETED | DELETED | CANCELLED | FAILED`

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "items": [
      {
         "arn": "string",
         "batchId": "string",
         "creationTime": "string",
         "id": "string",
         "name": "string",
         "priority": number,
         "startTime": "string",
         "status": "string",
         "stopTime": "string",
         "storageCapacity": number,
         "storageType": "string",
```

```
            "workflowId": "string",
            "workflowName": "string",
            "workflowVersionName": "string"
        }
    ],
    "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**items**

A list of runs.

Type: Array of RunListItem objects

**nextToken**

A pagination token that's included if more results are available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2

- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# ListRunsInBatch

Returns a paginated list of individual workflow runs within a specific batch. Use this operation to map each `runSettingId` to its HealthOmics-generated `runId`, and to check the submission status of each run. Only one filter per call is supported.

## Request Syntax

```
GET /runBatch/batchId/run?
maxItems=maxItems&runId=runId&runSettingId=runSettingId&startingToken=startingToken&submissionS
 HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**batchId**

The identifier portion of the run batch ARN.

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

Required: Yes

**maxItems**

The maximum number of runs to return.

Valid Range: Minimum value of 1. Maximum value of 100.

**runId**

Filter runs by the HealthOmics-generated run ID.

**runSettingId**

Filter runs by the customer-provided run setting ID.

**startingToken**

A pagination token returned from a prior `ListRunsInBatch` call.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**submissionStatus**

Filter runs by submission status.

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `SUCCESS | FAILED | CANCEL_SUCCESS | CANCEL_FAILED | DELETE_SUCCESS | DELETE_FAILED`

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "nextToken": "string",
   "runs": [
      {
         "runArn": "string",
         "runId": "string",
         "runInternalUuid": "string",
         "runSettingId": "string",
         "submissionFailureMessage": "string",
         "submissionFailureReason": "string",
         "submissionStatus": "string"
      }
   ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**nextToken**

A pagination token to retrieve the next page of results. Absent when the last run has been returned.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**runs**

A list of run entries in the batch. See `RunBatchListItem`.

Type: Array of RunBatchListItem objects

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# ListRunTasks

Returns a list of tasks and status information within their specified run. Use this operation to monitor runs and to identify which specific tasks have failed.

## Request Syntax

```
GET /run/id/task?maxResults=maxResults&startingToken=startingToken&status=status
 HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**id**

The run's ID.

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

Required: Yes

**maxResults**

The maximum number of run tasks to return in one page of results.

Valid Range: Minimum value of 1. Maximum value of 100.

**startingToken**

Specify the pagination token from a previous request to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**status**

Filter the list by status.

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `PENDING | STARTING | RUNNING | STOPPING | COMPLETED | CANCELLED | FAILED`

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "items": [
      {
         "cacheHit": boolean,
         "cacheS3Uri": "string",
         "cpus": number,
         "creationTime": "string",
         "gpus": number,
         "instanceType": "string",
         "memory": number,
         "name": "string",
         "startTime": "string",
         "status": "string",
         "stopTime": "string",
         "taskId": "string",
         "uuid": "string"
      }
   ],
   "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**items**

A list of tasks.

Type: Array of TaskListItem objects

**nextToken**

A pagination token that's included if more results are available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# ListSequenceStores

Retrieves a list of sequence stores and returns each sequence store's metadata.

For more information, see Creating a HealthOmics sequence store in the *AWS HealthOmics User Guide*.

## Request Syntax

```
POST /sequencestores?maxResults=maxResults&nextToken=nextToken HTTP/1.1
Content-type: application/json

{
   "filter": {
      "createdAfter": "string",
      "createdBefore": "string",
      "name": "string",
      "status": "string",
      "updatedAfter": "string",
      "updatedBefore": "string"
   }
}
```

## URI Request Parameters

The request uses the following URI parameters.

**maxResults**

The maximum number of stores to return in one page of results.

Valid Range: Minimum value of 1. Maximum value of 100.

**nextToken**

Specify the pagination token from a previous request to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 6144.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

## Request Body

The request accepts the following data in JSON format.

**filter**

A filter to apply to the list.

Type: SequenceStoreFilter object

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "nextToken": "string",
   "sequenceStores": [
      {
         "arn": "string",
         "creationTime": "string",
         "description": "string",
         "eTagAlgorithmFamily": "string",
         "fallbackLocation": "string",
         "id": "string",
         "name": "string",
         "sseConfig": {
            "keyArn": "string",
            "type": "string"
         },
         "status": "string",
         "statusMessage": "string",
         "updateTime": "string"
      }
   ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**nextToken**

A pagination token that's included if more results are available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 6144.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**sequenceStores**

A list of sequence stores.

Type: Array of SequenceStoreDetail objects

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# ListShares

Retrieves the resource shares associated with an account. Use the filter parameter to retrieve a specific subset of the shares.

## Request Syntax

```
POST /shares?maxResults=maxResults&nextToken=nextToken HTTP/1.1
Content-type: application/json

{
   "filter": {
      "resourceArns": [ "string" ],
      "status": [ "string" ],
      "type": [ "string" ]
   },
   "resourceOwner": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

**maxResults**

The maximum number of shares to return in one page of results.

**nextToken**

Next token returned in the response of a previous ListReadSetUploadPartsRequest call. Used to get the next page of results.

## Request Body

The request accepts the following data in JSON format.

**filter**

Attributes that you use to filter for a specific subset of resource shares.

Type: Filter object

Required: No

**resourceOwner**

The account that owns the resource shares.

Type: String

Valid Values: `SELF | OTHER`

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "nextToken": "string",
   "shares": [
      {
         "creationTime": "string",
         "ownerId": "string",
         "principalSubscriber": "string",
         "resourceArn": "string",
         "resourceId": "string",
         "shareId": "string",
         "shareName": "string",
         "status": "string",
         "statusMessage": "string",
         "updateTime": "string"
      }
   ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**nextToken**

Next token returned in the response of a previous ListSharesResponse call. Used to get the next page of results.

Type: String

**shares**

The shares available and their metadata details.

Type: Array of ShareDetails objects

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# ListTagsForResource

Retrieves a list of tags for a resource.

## Request Syntax

```
GET /tags/resourceArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**resourceArn**

The resource's ARN.

Length Constraints: Minimum length of 1. Maximum length of 150.

Pattern: `arn:.+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "tags": {
      "string" : "string"
   }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**tags**

A list of tags.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# ListVariantImportJobs

> **Important**
>
> AWS HealthOmics variant stores and annotation stores are no longer open to new customers. Existing customers can continue to use the service as normal. For more information, see AWS HealthOmics variant store and annotation store availability change.

Retrieves a list of variant import jobs.

## Request Syntax

```
POST /import/variants?maxResults=maxResults&nextToken=nextToken HTTP/1.1
Content-type: application/json

{
   "filter": {
      "status": "string",
      "storeName": "string"
   },
   "ids": [ "string" ]
}
```

## URI Request Parameters

The request uses the following URI parameters.

**maxResults**

The maximum number of import jobs to return in one page of results.

Valid Range: Minimum value of 1. Maximum value of 100.

**nextToken**

Specify the pagination token from a previous request to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 10000.

## Request Body

The request accepts the following data in JSON format.

### filter

A filter to apply to the list.

Type: ListVariantImportJobsFilter object

Required: No

### ids

A list of job IDs.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Length Constraints: Minimum length of 1. Maximum length of 50.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "nextToken": "string",
   "variantImportJobs": [
      {
         "annotationFields": {
            "string" : "string"
         },
         "completionTime": "string",
         "creationTime": "string",
         "destinationName": "string",
         "id": "string",
         "roleArn": "string",
         "runLeftNormalization": boolean,
         "status": "string",
```

```
            "updateTime": "string"
        }
    ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**nextToken**

A pagination token that's included if more results are available.

Type: String

**variantImportJobs**

A list of jobs.

Type: Array of VariantImportJobItem objects

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# ListVariantStores

> **Important**
>
> AWS HealthOmics variant stores and annotation stores are no longer open to new customers. Existing customers can continue to use the service as normal. For more information, see AWS HealthOmics variant store and annotation store availability change.

Retrieves a list of variant stores.

## Request Syntax

```
POST /variantStores?maxResults=maxResults&nextToken=nextToken HTTP/1.1
Content-type: application/json

{
   "filter": {
      "status": "string"
   },
   "ids": [ "string" ]
}
```

## URI Request Parameters

The request uses the following URI parameters.

**maxResults**

The maximum number of stores to return in one page of results.

Valid Range: Minimum value of 1. Maximum value of 100.

**nextToken**

Specify the pagination token from a previous request to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 10000.

## Request Body

The request accepts the following data in JSON format.

### filter

A filter to apply to the list.

Type: ListVariantStoresFilter object

Required: No

### ids

A list of store IDs.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Length Constraints: Minimum length of 1. Maximum length of 50.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "nextToken": "string",
   "variantStores": [
      {
         "creationTime": "string",
         "description": "string",
         "id": "string",
         "name": "string",
         "reference": { ... },
         "sseConfig": {
            "keyArn": "string",
            "type": "string"
         },
         "status": "string",
         "statusMessage": "string",
         "storeArn": "string",
         "storeSizeBytes": number,
         "updateTime": "string"
      }
```

```
    ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**nextToken**

A pagination token that's included if more results are available.

Type: String

**variantStores**

A list of variant stores.

Type: Array of VariantStoreItem objects

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# ListWorkflows

Retrieves a list of existing workflows. You can filter for specific workflows by their name and type. Using the type parameter, specify `PRIVATE` to retrieve a list of private workflows or specify `READY2RUN` for a list of all Ready2Run workflows. If you do not specify the type of workflow, this operation returns a list of existing workflows.

## Request Syntax

```
GET /workflow?maxResults=maxResults&name=name&startingToken=startingToken&type=type
 HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**maxResults**

The maximum number of workflows to return in one page of results.

Valid Range: Minimum value of 1. Maximum value of 100.

**name**

Filter the list by workflow name.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**startingToken**

Specify the pagination token from a previous request to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**type**

Filter the list by workflow type.

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `PRIVATE | READY2RUN`

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "items": [
      {
         "arn": "string",
         "creationTime": "string",
         "digest": "string",
         "id": "string",
         "metadata": {
            "string" : "string"
         },
         "name": "string",
         "status": "string",
         "type": "string"
      }
   ],
   "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**items**

A list of workflow items.

Type: Array of WorkflowListItem objects

**nextToken**

A pagination token that's included if more results are available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# ListWorkflowVersions

Lists the workflow versions for the specified workflow. For more information, see Workflow versioning in AWS HealthOmics in the *AWS HealthOmics User Guide*.

## Request Syntax

```
GET /workflow/workflowId/version?
maxResults=maxResults&startingToken=startingToken&type=type&workflowOwnerId=workflowOwnerId
 HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**maxResults**

The maximum number of workflows to return in one page of results.

Valid Range: Minimum value of 1. Maximum value of 100.

**startingToken**

Specify the pagination token from a previous request to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**type**

The workflow type.

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `PRIVATE | READY2RUN`

**workflowId**

The workflow's ID. The `workflowId` is not the UUID.

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

Required: Yes

**workflowOwnerId**

The 12-digit account ID of the workflow owner. The workflow owner ID can be retrieved using the `GetShare` API operation. If you are the workflow owner, you do not need to include this ID.

Pattern: `[0-9]{12}`

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "items": [
      {
         "arn": "string",
         "creationTime": "string",
         "description": "string",
         "digest": "string",
         "metadata": {
            "string" : "string"
         },
         "status": "string",
         "type": "string",
         "versionName": "string",
         "workflowId": "string"
      }
   ],
   "nextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**items**

A list of workflow version items.

Type: Array of WorkflowVersionListItem objects

**nextToken**

A pagination token that's included if more results are available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# PutS3AccessPolicy

Adds an access policy to the specified store.

## Request Syntax

```
PUT /s3accesspolicy/s3AccessPointArn HTTP/1.1
Content-type: application/json

{
   "s3AccessPolicy": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### s3AccessPointArn

The S3 access point ARN where you want to put the access policy.

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `arn:[^:]*:s3:[^:]*:[^:]*:accesspoint/.*`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### s3AccessPolicy

The resource policy that controls S3 access to the store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100000.

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "s3AccessPointArn": "string",
   "storeId": "string",
   "storeType": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**s3AccessPointArn**

The S3 access point ARN that now has the access policy.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `arn:[^:]*:s3:[^:]*:[^:]*:accesspoint/.*`

**storeId**

The AWS-generated Sequence Store or Reference Store ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

**storeType**

The type of store associated with the access point.

Type: String

Valid Values: `SEQUENCE_STORE | REFERENCE_STORE`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**NotSupportedOperationException**

The operation is not supported by Amazon Omics, or the API does not exist.

HTTP Status Code: 405

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# StartAnnotationImportJob

> **Important**
>
> AWS HealthOmics variant stores and annotation stores are no longer open to new customers. Existing customers can continue to use the service as normal. For more information, see AWS HealthOmics variant store and annotation store availability change.

Starts an annotation import job.

## Request Syntax

```
POST /import/annotation HTTP/1.1
Content-type: application/json

{
   "annotationFields": {
      "string" : "string"
   },
   "destinationName": "string",
   "formatOptions": { ... },
   "items": [
      {
         "source": "string"
      }
   ],
   "roleArn": "string",
   "runLeftNormalization": boolean,
   "versionName": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

**annotationFields**

The annotation schema generated by the parsed annotation data.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 21.

Value Length Constraints: Minimum length of 1. Maximum length of 21.

Required: No

**destinationName**

A destination annotation store for the job.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: `([a-z]){1}([a-z0-9_]){2,254}`

Required: Yes

**formatOptions**

Formatting options for the annotation file.

Type: FormatOptions object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: No

**items**

Items to import.

Type: Array of AnnotationImportItemSource objects

Array Members: Minimum number of 1 item.

Required: Yes

**roleArn**

A service role for the job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:([^: ]*):([^: ]*):([^: ]*):([0-9]{12}):([^: ]*)`

Required: Yes

**runLeftNormalization**

The job's left normalization setting.

Type: Boolean

Required: No

**versionName**

The name of the annotation store version.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: `([a-z]){1}([a-z0-9_]){2,254}`

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "jobId": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**jobId**

The job's ID.

Type: String

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# StartReadSetActivationJob

Activates an archived read set and returns its metadata in a JSON formatted output. AWS HealthOmics automatically archives unused read sets after 30 days. To monitor the status of your read set activation job, use the `GetReadSetActivationJob` operation.

To learn more, see Activating read sets in the *AWS HealthOmics User Guide*.

## Request Syntax

```
POST /sequencestore/sequenceStoreId/activationjob HTTP/1.1
Content-type: application/json

{
   "clientToken": "string",
   "sources": [
      {
         "readSetId": "string"
      }
   ]
}
```

## URI Request Parameters

The request uses the following URI parameters.

### sequenceStoreId

The read set's sequence store ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### clientToken

To ensure that jobs don't run multiple times, specify a unique token for each job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**sources**

The job's source files.

Type: Array of StartReadSetActivationJobSourceItem objects

Array Members: Minimum number of 1 item. Maximum number of 20 items.

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "creationTime": "string",
   "id": "string",
   "sequenceStoreId": "string",
   "status": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**creationTime**

When the job was created.

Type: Timestamp

**id**

The job's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

**sequenceStoreId**

The read set's sequence store ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

**status**

The job's status.

Type: String

Valid Values: `SUBMITTED | IN_PROGRESS | CANCELLING | CANCELLED | FAILED | COMPLETED | COMPLETED_WITH_FAILURES`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# StartReadSetExportJob

Starts a read set export job. When the export job is finished, the read set is exported to an Amazon S3 bucket which can be retrieved using the `GetReadSetExportJob` API operation.

To monitor the status of the export job, use the `ListReadSetExportJobs` API operation.

## Request Syntax

```
POST /sequencestore/sequenceStoreId/exportjob HTTP/1.1
Content-type: application/json

{
   "clientToken": "string",
   "destination": "string",
   "roleArn": "string",
   "sources": [
      {
         "readSetId": "string"
      }
   ]
}
```

## URI Request Parameters

The request uses the following URI parameters.

### sequenceStoreId

The read set's sequence store ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

**clientToken**

To ensure that jobs don't run multiple times, specify a unique token for each job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**destination**

A location for exported files in Amazon S3.

Type: String

Pattern: `s3://([a-z0-9][a-z0-9-.]{1,61}[a-z0-9])/?((.{1,1024})/)?`

Required: Yes

**roleArn**

A service role for the job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:.*`

Required: Yes

**sources**

The job's source files.

Type: Array of ExportReadSet objects

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Required: Yes

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "creationTime": "string",
   "destination": "string",
   "id": "string",
   "sequenceStoreId": "string",
   "status": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**creationTime**

When the job was created.

Type: Timestamp

**destination**

The job's output location.

Type: String

Pattern: `s3://([a-z0-9][a-z0-9-.]{1,61}[a-z0-9])/?((.{1,1024})/)?`

**id**

The job's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

**sequenceStoreId**

The read set's sequence store ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

**status**

The job's status.

Type: String

Valid Values: `SUBMITTED | IN_PROGRESS | CANCELLING | CANCELLED | FAILED | COMPLETED | COMPLETED_WITH_FAILURES`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# StartReadSetImportJob

Imports a read set from the sequence store. Read set import jobs support a maximum of 100 read sets of different types. Monitor the progress of your read set import job by calling the `GetReadSetImportJob` API operation.

## Request Syntax

```
POST /sequencestore/sequenceStoreId/importjob HTTP/1.1
Content-type: application/json

{
   "clientToken": "string",
   "roleArn": "string",
   "sources": [
      {
         "description": "string",
         "generatedFrom": "string",
         "name": "string",
         "referenceArn": "string",
         "sampleId": "string",
         "sourceFiles": {
            "source1": "string",
            "source2": "string"
         },
         "sourceFileType": "string",
         "subjectId": "string",
         "tags": {
            "string" : "string"
         }
      }
   ]
}
```

## URI Request Parameters

The request uses the following URI parameters.

### sequenceStoreId

The read set's sequence store ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

**clientToken**

To ensure that jobs don't run multiple times, specify a unique token for each job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**roleArn**

A service role for the job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:.*`

Required: Yes

**sources**

The job's source files.

Type: Array of StartReadSetImportJobSourceItem objects

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Required: Yes

## Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "creationTime": "string",
   "id": "string",
   "roleArn": "string",
   "sequenceStoreId": "string",
   "status": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**creationTime**

When the job was created.

Type: Timestamp

**id**

The job's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

**roleArn**

The job's service role ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:.*`

**sequenceStoreId**

The read set's sequence store ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

**status**

The job's status.

Type: String

Valid Values: `SUBMITTED | IN_PROGRESS | CANCELLING | CANCELLED | FAILED | COMPLETED | COMPLETED_WITH_FAILURES`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# StartReferenceImportJob

Imports a reference genome from Amazon S3 into a specified reference store. You can have multiple reference genomes in a reference store. You can only import reference genomes one at a time into each reference store. Monitor the status of your reference import job by using the `GetReferenceImportJob` API operation.

## Request Syntax

```
POST /referencestore/referenceStoreId/importjob HTTP/1.1
Content-type: application/json

{
   "clientToken": "string",
   "roleArn": "string",
   "sources": [
      {
         "description": "string",
         "name": "string",
         "sourceFile": "string",
         "tags": {
            "string" : "string"
         }
      }
   ]
}
```

## URI Request Parameters

The request uses the following URI parameters.

### referenceStoreId

The job's reference store ID.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

**clientToken**

To ensure that jobs don't run multiple times, specify a unique token for each job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**roleArn**

A service role for the job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:.*`

Required: Yes

**sources**

The job's source files.

Type: Array of StartReferenceImportJobSourceItem objects

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
   "creationTime": "string",
   "id": "string",
   "referenceStoreId": "string",
   "roleArn": "string",
   "status": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**creationTime**

When the job was created.

Type: Timestamp

**id**

The job's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

**referenceStoreId**

The job's reference store ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

**roleArn**

The job's service role ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:.*`

**status**

The job's status.

Type: String

Valid Values: `SUBMITTED | IN_PROGRESS | CANCELLING | CANCELLED | FAILED | COMPLETED | COMPLETED_WITH_FAILURES`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# StartRun

Starts a new run and returns details about the run, or duplicates an existing run. A run is a single invocation of a workflow. If you provide request IDs, AWS HealthOmics identifies duplicate requests and starts the run only once. Monitor the progress of the run by calling the `GetRun` API operation.

To start a new run, the following inputs are required:

- A service role ARN (`roleArn`).
- The run's workflow ID (`workflowId`, not the `uuid` or `runId`).
- An Amazon S3 location (`outputUri`) where the run outputs will be saved.
- All required workflow parameters (`parameter`), which can include optional parameters from the parameter template. The run cannot include any parameters that are not defined in the parameter template. To see all possible parameters, use the `GetRun` API operation.
- For runs with a `STATIC` (default) storage type, specify the required storage capacity (in gibibytes). A storage capacity value is not required for runs that use `DYNAMIC` storage.

`StartRun` can also duplicate an existing run using the run's default values. You can modify these default values and/or add other optional inputs. To duplicate a run, the following inputs are required:

- A service role ARN (`roleArn`).
- The ID of the run to duplicate (`runId`).
- An Amazon S3 location where the run outputs will be saved (`outputUri`).

To learn more about the optional parameters for `StartRun`, see Starting a run in the *AWS HealthOmics User Guide*.

Use the `retentionMode` input to control how long the metadata for each run is stored in CloudWatch. There are two retention modes:

- Specify `REMOVE` to automatically remove the oldest runs when you reach the maximum service retention limit for runs. It is recommended that you use the `REMOVE` mode to initiate major run requests so that your runs do not fail when you reach the limit.
- The `retentionMode` is set to the `RETAIN` mode by default, which allows you to manually remove runs after reaching the maximum service retention limit. Under this setting, you cannot create additional runs until you remove the excess runs.

To learn more about the retention modes, see Run retention mode in the *AWS HealthOmics User Guide*.

You can use Amazon Q CLI to analyze run logs and make performance optimization recommendations. To get started, see the AWS HealthOmics MCP server on GitHub.

## Request Syntax

```
POST /run HTTP/1.1
Content-type: application/json

{
   "cacheBehavior": "string",
   "cacheId": "string",
   "configurationName": "string",
   "engineSettings": JSON value,
   "logLevel": "string",
   "name": "string",
   "networkingMode": "string",
   "outputUri": "string",
   "outputUriPrefixMode": "string",
   "parameters": JSON value,
   "priority": number,
   "requestId": "string",
   "retentionMode": "string",
   "roleArn": "string",
   "runGroupId": "string",
   "runId": "string",
   "scratchStorageMode": "string",
   "sessionPolicy": "string",
   "storageCapacity": number,
   "storageType": "string",
   "tags": {
      "string" : "string"
   },
   "workflowId": "string",
   "workflowOwnerId": "string",
   "workflowType": "string",
   "workflowVersionName": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

**cacheBehavior**

The cache behavior for the run. You specify this value if you want to override the default behavior for the cache. You had set the default value when you created the cache. For more information, see Run cache behavior in the *AWS HealthOmics User Guide*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `CACHE_ON_FAILURE | CACHE_ALWAYS`

Required: No

**cacheId**

Identifier of the cache associated with this run. If you don't specify a cache ID, no task outputs are cached for this run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

Required: No

**configurationName**

Optional configuration name to use for the workflow run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[A-Za-z0-9][A-Za-z0-9\-\._]*`

Required: No

**engineSettings**

Engine-specific settings for the workflow run. Use this field to specify configuration options that are specific to the workflow engine (for example, Nextflow profiles, Nextflow runtime configuration).

Type: JSON value

Required: No

**logLevel**

A log level for the run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `OFF | FATAL | ERROR | ALL`

Required: No

**name**

A name for the run. This is recommended to view and organize runs in the AWS HealthOmics console and CloudWatch logs.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**networkingMode**

Optional configuration for run networking behavior. If not specified, this will default to RESTRICTED.

Type: String

Valid Values: `RESTRICTED | VPC`

Required: No

**outputUri**

An output S3 URI for the run. The S3 bucket must be in the same region as the workflow. The role ARN must have permission to write to this S3 bucket.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 750.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: Yes

**outputUriPrefixMode**

You can control the path prefixes that the service adds beneath `outputUri`. If you don't specify a value, the service uses `SERVICE_DEFINED`, which adds a run-specific prefix.

Type: String

Valid Values: `SERVICE_DEFINED | NONE_WITH_OVERWRITE`

Required: No

**parameters**

Parameters for the run. The run needs all required parameters and can include optional parameters. The run cannot include any parameters that are not defined in the parameter template. To retrieve parameters from the run, use the GetRun API operation.

Type: JSON value

Required: No

**priority**

Use the run priority (highest: 1) to establish the order of runs in a run group when you start a run. If multiple runs share the same priority, the run that was initiated first will have the higher priority. Runs that do not belong to a run group can be assigned a priority. The priorities of these runs are ranked among other runs that are not in a run group. For more information, see Run priority in the *AWS HealthOmics User Guide*.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100000.

Required: No

**requestId**

An idempotency token used to dedupe retry requests so that duplicate runs are not created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: Yes

**retentionMode**

The retention mode for the run. The default value is `RETAIN`.

AWS HealthOmics stores a fixed number of runs that are available to the console and API. In the default mode (`RETAIN`), you need to remove runs manually when the number of run exceeds the maximum. If you set the retention mode to `REMOVE`, AWS HealthOmics automatically removes runs (that have mode set to `REMOVE`) when the number of run exceeds the maximum. All run logs are available in CloudWatch logs, if you need information about a run that is no longer available to the API.

For more information about retention mode, see Specifying run retention mode in the *AWS HealthOmics User Guide*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `RETAIN | REMOVE`

Required: No

**roleArn**

A service role for the run. The `roleArn` requires access to AWS HealthOmics, S3, Cloudwatch logs, and EC2. An example `roleArn` is `arn:aws:iam::123456789012:role/omics-service-role-serviceRole-W8O1XMPL7QZ`. In this example, the AWS account ID is `123456789012` and the role name is `omics-service-role-serviceRole-W8O1XMPL7QZ`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:.+`

Required: Yes

**runGroupId**

The run's group ID. Use a run group to cap the compute resources (and number of concurrent runs) for the runs that you add to the run group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

Required: No

**runId**

The ID of a run to duplicate.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

Required: No

**scratchStorageMode**

Optional configuration for enabling scratch ephemeral storage mounted at /tmp. If not specified, this will default to SHARED. This configuration is applicable only for CPU tasks. For tasks using GPUs, scratch storage is always LOCAL.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `LOCAL | SHARED`

Required: No

**sessionPolicy**

Optional inline policy json for scoping down permissions via a session policy on the IAM role provided in the roleArn parameter.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[\p{L}\p{M}\p{Z}\p{S}\p{N}\p{P}\t\n\r]+`

Required: No

**storageCapacity**

The `STATIC` storage capacity (in gibibytes, GiB) for this run. The default run storage capacity is 1200 GiB. If your requested storage capacity is unavailable, the system rounds up the value to the nearest 1200 GiB multiple. If the requested storage capacity is still unavailable, the system rounds up the value to the nearest 2400 GiB multiple. This field is not required if the storage type is `DYNAMIC` (the system ignores any value that you enter).

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100000.

Required: No

**storageType**

The storage type for the run. If you set the storage type to `DYNAMIC`, AWS HealthOmics dynamically scales the storage up or down, based on file system utilization. By default, the run uses `STATIC` storage type, which allocates a fixed amount of storage. For more information about `DYNAMIC` and `STATIC` storage, see Run storage types in the *AWS HealthOmics User Guide*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `STATIC | DYNAMIC`

Required: No

**tags**

Tags for the run. You can add up to 50 tags per run. For more information, see Adding a tag in the *AWS HealthOmics User Guide*.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

**workflowId**

The run's workflow ID. The `workflowId` is not the UUID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

Required: No

**workflowOwnerId**

The 12-digit account ID of the workflow owner that is used for running a shared workflow. The workflow owner ID can be retrieved using the `GetShare` API operation. If you are the workflow owner, you do not need to include this ID.

Type: String

Pattern: `[0-9]{12}`

Required: No

**workflowType**

The run's workflow type. The `workflowType` must be specified if you are running a `READY2RUN` workflow. If you are running a `PRIVATE` workflow (default), you do not need to include the workflow type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `PRIVATE | READY2RUN`

Required: No

**workflowVersionName**

The name of the workflow version. Use workflow versions to track and organize changes to the workflow. If your workflow has multiple versions, the run uses the default version unless you specify a version name. To learn more, see Workflow versioning in the *AWS HealthOmics User Guide*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[A-Za-z0-9][A-Za-z0-9\-\._]*`

Required: No

## Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
   "arn": "string",
   "configuration": {
      "arn": "string",
      "name": "string",
      "uuid": "string"
   },
   "id": "string",
   "networkingMode": "string",
   "runOutputUri": "string",
   "status": "string",
   "tags": {
      "string" : "string"
   },
   "uuid": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The following data is returned in JSON format by the service.

**arn**

Unique resource identifier for the run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:.+`

**configuration**

Configuration details for the workflow run.

Type: ConfigurationDetails object

**id**

The run's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

**networkingMode**

Networking mode for the workflow run.

Type: String

**runOutputUri**

The destination for workflow outputs.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 750.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**status**

The run's status.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `PENDING | STARTING | RUNNING | STOPPING | COMPLETED | DELETED | CANCELLED | FAILED`

**tags**

The run's tags.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

**uuid**

The universally unique identifier for a run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2

- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# StartRunBatch

Starts a batch of workflow runs. You can group up to 100,000 runs into a single batch that share a common configuration defined in `defaultRunSetting`. Per-run overrides can be provided either inline via `inlineSettings` (up to 100 runs) or via a JSON file stored in Amazon S3 via `s3UriSettings` (up to 100,000 runs).

`StartRunBatch` validates common fields synchronously and returns immediately with a batch ID and status `CREATING`. The batch transitions to `PENDING` once initial setup completes. Runs are then submitted gradually and asynchronously at a rate governed by your `StartRun` throughput quota.

## Request Syntax

```
POST /runBatch HTTP/1.1
Content-type: application/json

{
   "batchName": "string",
   "batchRunSettings": { ... },
   "defaultRunSetting": {
      "cacheBehavior": "string",
      "cacheId": "string",
      "configurationName": "string",
      "engineSettings": JSON value,
      "logLevel": "string",
      "name": "string",
      "networkingMode": "string",
      "outputBucketOwnerId": "string",
      "outputUri": "string",
      "parameters": JSON value,
      "priority": number,
      "retentionMode": "string",
      "roleArn": "string",
      "runGroupId": "string",
      "runTags": {
         "string" : "string"
      },
      "scratchStorageMode": "string",
      "sessionPolicy": "string",
      "storageCapacity": number,
      "storageType": "string",
      "workflowId": "string",
```

```
      "workflowOwnerId": "string",
      "workflowType": "string",
      "workflowVersionName": "string"
   },
   "requestId": "string",
   "tags": {
      "string" : "string"
   }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### batchName

An optional user-friendly name for the run batch.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

### batchRunSettings

The individual run configurations. Specify exactly one of `inlineSettings` or `s3UriSettings`. See `BatchRunSettings`.

Type: BatchRunSettings object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

### defaultRunSetting

Shared configuration applied to all runs in the batch. See `DefaultRunSetting`.

Type: DefaultRunSetting object

Required: Yes

**requestId**

A client token used to deduplicate retry requests and prevent duplicate batches from being created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: Yes

**tags**

AWS tags to associate with the batch resource. These tags are not inherited by individual runs. To tag individual runs, use `defaultRunSetting.runTags`.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
   "arn": "string",
   "id": "string",
   "status": "string",
   "tags": {
      "string" : "string"
   },
   "uuid": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response.

The following data is returned in JSON format by the service.

**arn**

The unique ARN of the run batch.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:.+`

**id**

The identifier portion of the run batch ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

**status**

The initial status of the run batch. Returns `CREATING` while the batch is being initialized.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `CREATING | PENDING | SUBMITTING | INPROGRESS | STOPPING | CANCELLED | FAILED | PROCESSED | RUNS_DELETING | RUNS_DELETE_FAILED | RUNS_DELETED`

**tags**

AWS tags associated with the run batch.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

**uuid**

The universally unique identifier (UUID) for the run batch.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# StartVariantImportJob

> **Important**
>
> AWS HealthOmics variant stores and annotation stores are no longer open to new customers. Existing customers can continue to use the service as normal. For more information, see AWS HealthOmics variant store and annotation store availability change.

Starts a variant import job.

## Request Syntax

```
POST /import/variant HTTP/1.1
Content-type: application/json

{
   "annotationFields": {
      "string" : "string"
   },
   "destinationName": "string",
   "items": [
      {
         "source": "string"
      }
   ],
   "roleArn": "string",
   "runLeftNormalization": boolean
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

**annotationFields**

The annotation schema generated by the parsed annotation data.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 21.

Value Length Constraints: Minimum length of 1. Maximum length of 21.

Required: No

**destinationName**

The destination variant store for the job.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: `([a-z]){1}([a-z0-9_]){2,254}`

Required: Yes

**items**

Items to import.

Type: Array of VariantImportItemSource objects

Array Members: Minimum number of 1 item.

Required: Yes

**roleArn**

A service role for the job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:([^: ]*):([^: ]*):([^: ]*):([0-9]{12}):([^: ]*)`

Required: Yes

**runLeftNormalization**

The job's left normalization setting.

Type: Boolean

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "jobId": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**jobId**

The job's ID.

Type: String

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

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- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# TagResource

Tags a resource.

## Request Syntax

```
POST /tags/resourceArn HTTP/1.1
Content-type: application/json

{
   "tags": {
      "string" : "string"
   }
}
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceArn

The resource's ARN.

Length Constraints: Minimum length of 1. Maximum length of 150.

Pattern: `arn:.+`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### tags

Tags for the resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: Yes

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# UntagResource

Removes tags from a resource.

## Request Syntax

```
DELETE /tags/resourceArn?tagKeys=tagKeys HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**resourceArn**

The resource's ARN.

Length Constraints: Minimum length of 1. Maximum length of 150.

Pattern: `arn:.+`

Required: Yes

**tagKeys**

Keys of tags to remove.

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# UpdateAnnotationStore

> **Important**
>
> AWS HealthOmics variant stores and annotation stores are no longer open to new customers. Existing customers can continue to use the service as normal. For more information, see AWS HealthOmics variant store and annotation store availability change.

Updates an annotation store.

## Request Syntax

```
POST /annotationStore/name HTTP/1.1
Content-type: application/json

{
   "description": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### name

A name for the store.

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### description

A description for the store.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "creationTime": "string",
   "description": "string",
   "id": "string",
   "name": "string",
   "reference": { ... },
   "status": "string",
   "storeFormat": "string",
   "storeOptions": { ... },
   "updateTime": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**creationTime**

When the store was created.

Type: Timestamp

**description**

The store's description.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

**id**

The store's ID.

Type: String

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

**name**

The store's name.

Type: String

**reference**

The store's genome reference.

Type: ReferenceItem object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

**status**

The store's status.

Type: String

Valid Values: `CREATING | UPDATING | DELETING | ACTIVE | FAILED`

**storeFormat**

The annotation file format of the store.

Type: String

Valid Values: `GFF | TSV | VCF`

**storeOptions**

Parsing options for the store.

Type: StoreOptions object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

**updateTime**

When the store was updated.

Type: Timestamp

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3

- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# UpdateAnnotationStoreVersion

Updates the description of an annotation store version.

## Request Syntax

```
POST /annotationStore/name/version/versionName HTTP/1.1
Content-type: application/json

{
   "description": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

**name**

The name of an annotation store.

Required: Yes

**versionName**

The name of an annotation store version.

Required: Yes

## Request Body

The request accepts the following data in JSON format.

**description**

The description of an annotation store.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "creationTime": "string",
   "description": "string",
   "id": "string",
   "name": "string",
   "status": "string",
   "storeId": "string",
   "updateTime": "string",
   "versionName": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**creationTime**

The time stamp for when an annotation store version was created.

Type: Timestamp

**description**

The description of an annotation store version.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

**id**

The annotation store version ID.

Type: String

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

**name**

The name of an annotation store.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: `([a-z]){1}([a-z0-9_]){2,254}`

**status**

The status of an annotation store version.

Type: String

Valid Values: `CREATING | UPDATING | DELETING | ACTIVE | FAILED`

**storeId**

The annotation store ID.

Type: String

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

**updateTime**

The time stamp for when an annotation store version was updated.

Type: Timestamp

**versionName**

The name of an annotation store version.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: `([a-z]){1}([a-z0-9_]){2,254}`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3

- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# UpdateRunCache

Updates a run cache using its ID and returns a response with no body if the operation is successful. You can update the run cache description, name, or the default run cache behavior with CACHE_ON_FAILURE or CACHE_ALWAYS. To confirm that your run cache settings have been properly updated, use the GetRunCache API operation.

For more information, see How call caching works in the *AWS HealthOmics User Guide*.

## Request Syntax

```
POST /runCache/id HTTP/1.1
Content-type: application/json

{
   "cacheBehavior": "string",
   "description": "string",
   "name": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### id

The identifier of the run cache you want to update.

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: [0-9]+

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### cacheBehavior

Update the default run cache behavior.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `CACHE_ON_FAILURE | CACHE_ALWAYS`

Required: No

**description**

Update the run cache description.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**name**

Update the name of the run cache.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

## Response Syntax

```
HTTP/1.1 202
```

## Response Elements

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# UpdateRunGroup

Updates the settings of a run group and returns a response with no body if the operation is successful.

You can update the following settings with `UpdateRunGroup`:

- Maximum number of CPUs
- Run time (measured in minutes)
- Number of GPUs
- Number of concurrent runs
- Group name

To confirm that the settings have been successfully updated, use the `ListRunGroups` or `GetRunGroup` API operations to verify that the desired changes have been made.

## Request Syntax

```
POST /runGroup/id HTTP/1.1
Content-type: application/json

{
   "maxCpus": number,
   "maxDuration": number,
   "maxGpus": number,
   "maxRuns": number,
   "name": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### id

The group's ID.

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

**maxCpus**

The maximum number of CPUs to use.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100000.

Required: No

**maxDuration**

A maximum run time for the group in minutes.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100000.

Required: No

**maxGpus**

The maximum GPUs that can be used by a run group.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100000.

Required: No

**maxRuns**

The maximum number of concurrent runs for the group.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100000.

Required: No

**name**

A name for the group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

## Response Syntax

```
HTTP/1.1 202
```

## Response Elements

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# UpdateSequenceStore

Update one or more parameters for the sequence store.

## Request Syntax

```
PATCH /sequencestore/id HTTP/1.1
Content-type: application/json

{
   "clientToken": "string",
   "description": "string",
   "fallbackLocation": "string",
   "name": "string",
   "propagatedSetLevelTags": [ "string" ],
   "s3AccessConfig": {
      "accessLogLocation": "string"
   }
}
```

## URI Request Parameters

The request uses the following URI parameters.

### id

The ID of the sequence store.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### clientToken

To ensure that requests don't run multiple times, specify a unique token for each request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**description**

A description for the sequence store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**fallbackLocation**

The S3 URI of a bucket and folder to store Read Sets that fail to upload.

Type: String

Pattern: `$|^s3://([a-z0-9][a-z0-9-.]{1,61}[a-z0-9])/?((.{1,1024})/)?`

Required: No

**name**

A name for the sequence store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**propagatedSetLevelTags**

The tags keys to propagate to the S3 objects associated with read sets in the sequence store.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

**s3AccessConfig**

S3 access configuration parameters.

Type: S3AccessConfig object

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "arn": "string",
   "creationTime": "string",
   "description": "string",
   "eTagAlgorithmFamily": "string",
   "fallbackLocation": "string",
   "id": "string",
   "name": "string",
   "propagatedSetLevelTags": [ "string" ],
   "s3Access": {
      "accessLogLocation": "string",
      "s3AccessPointArn": "string",
      "s3Uri": "string"
   },
   "sseConfig": {
      "keyArn": "string",
      "type": "string"
   },
   "status": "string",
   "statusMessage": "string",
   "updateTime": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**arn**

The ARN of the sequence store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `arn:.+`

**creationTime**

The time when the store was created.

Type: Timestamp

**description**

Description of the sequence store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**eTagAlgorithmFamily**

The ETag algorithm family to use on ingested read sets.

Type: String

Valid Values: `MD5up | SHA256up | SHA512up`

**fallbackLocation**

The S3 URI of a bucket and folder to store Read Sets that fail to upload.

Type: String

Pattern: `$|^s3://([a-z0-9][a-z0-9-.]{1,61}[a-z0-9])/?((.{1,1024})/)?`

**id**

The ID of the sequence store.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

**name**

The name of the sequence store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**propagatedSetLevelTags**

The tags keys to propagate to the S3 objects associated with read sets in the sequence store.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Length Constraints: Minimum length of 1. Maximum length of 128.

**s3Access**

The S3 access metadata of the sequence store.

Type: SequenceStoreS3Access object

**sseConfig**

Server-side encryption (SSE) settings for a store.

Type: SseConfig object

**status**

The status of the sequence store.

Type: String

Valid Values: `CREATING | ACTIVE | UPDATING | DELETING | FAILED`

**statusMessage**

The status message of the sequence store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

**updateTime**

The last-updated time of the Sequence Store.

Type: Timestamp

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# UpdateVariantStore

> **Important**
>
> AWS HealthOmics variant stores and annotation stores are no longer open to new customers. Existing customers can continue to use the service as normal. For more information, see AWS HealthOmics variant store and annotation store availability change.

Updates a variant store.

## Request Syntax

```
POST /variantStore/name HTTP/1.1
Content-type: application/json

{
   "description": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

**name**

A name for the store.

Required: Yes

## Request Body

The request accepts the following data in JSON format.

**description**

A description for the store.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "creationTime": "string",
   "description": "string",
   "id": "string",
   "name": "string",
   "reference": { ... },
   "status": "string",
   "updateTime": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**creationTime**

When the store was created.

Type: Timestamp

**description**

The store's description.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

**id**

The store's ID.

Type: String

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

**name**

The store's name.

Type: String

**reference**

The store's genome reference.

Type: ReferenceItem object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

**status**

The store's status.

Type: String

Valid Values: `CREATING | UPDATING | DELETING | ACTIVE | FAILED`

**updateTime**

When the store was updated.

Type: Timestamp

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# UpdateWorkflow

Updates information about a workflow.

You can update the following workflow information:

- Name
- Description
- Default storage type
- Default storage capacity (with workflow ID)

This operation returns a response with no body if the operation is successful. You can check the workflow updates by calling the `GetWorkflow` API operation.

For more information, see Update a private workflow in the *AWS HealthOmics User Guide*.

## Request Syntax

```
POST /workflow/id HTTP/1.1
Content-type: application/json

{
   "description": "string",
   "name": "string",
   "readmeMarkdown": "string",
   "storageCapacity": number,
   "storageType": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### id

The workflow's ID.

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

**description**

A description for the workflow.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**name**

A name for the workflow.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**readmeMarkdown**

The markdown content for the workflow's README file. This provides documentation and usage information for users of the workflow.

Type: String

Required: No

**storageCapacity**

The default static storage capacity (in gibibytes) for runs that use this workflow or workflow version.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100000.

Required: No

**storageType**

The default storage type for runs that use this workflow. STATIC storage allocates a fixed amount of storage. DYNAMIC storage dynamically scales the storage up or down, based on file system utilization. For more information about static and dynamic storage, see Running workflows in the *AWS HealthOmics User Guide*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `STATIC | DYNAMIC`

Required: No

## Response Syntax

```
HTTP/1.1 202
```

## Response Elements

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2

- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# UpdateWorkflowVersion

Updates information about the workflow version. For more information, see Workflow versioning in AWS HealthOmics in the *AWS HealthOmics User Guide*.

## Request Syntax

```
POST /workflow/workflowId/version/versionName HTTP/1.1
Content-type: application/json

{
   "description": "string",
   "readmeMarkdown": "string",
   "storageCapacity": number,
   "storageType": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### versionName

The name of the workflow version.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[A-Za-z0-9][A-Za-z0-9\-\._]*`

Required: Yes

### workflowId

The workflow's ID. The `workflowId` is not the UUID.

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

**description**

Description of the workflow version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**readmeMarkdown**

The markdown content for the workflow version's README file. This provides documentation and usage information for users of this specific workflow version.

Type: String

Required: No

**storageCapacity**

The default static storage capacity (in gibibytes) for runs that use this workflow version. The `storageCapacity` can be overwritten at run time. The storage capacity is not required for runs with a `DYNAMIC` storage type.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100000.

Required: No

**storageType**

The default storage type for runs that use this workflow version. The `storageType` can be overridden at run time. `DYNAMIC` storage dynamically scales the storage up or down, based on file system utilization. STATIC storage allocates a fixed amount of storage. For more information about dynamic and static storage types, see Run storage types in the *in the* AWS HealthOmics User Guide .

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `STATIC | DYNAMIC`

Required: No

## Response Syntax

```
HTTP/1.1 202
```

## Response Elements

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**ConflictException**

The request cannot be applied to the target resource in its current state.

HTTP Status Code: 409

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# UploadReadSetPart

Uploads a specific part of a read set into a sequence store. When you a upload a read set part with a part number that already exists, the new part replaces the existing one. This operation returns a JSON formatted response containing a string identifier that is used to confirm that parts are being added to the intended upload.

For more information, see Direct upload to a sequence store in the *AWS HealthOmics User Guide*.

## Request Syntax

```
PUT /sequencestore/sequenceStoreId/upload/uploadId/part?
partNumber=partNumber&partSource=partSource HTTP/1.1

payload
```

## URI Request Parameters

The request uses the following URI parameters.

**partNumber**

The number of the part being uploaded.

Valid Range: Minimum value of 1. Maximum value of 10000.

Required: Yes

**partSource**

The source file for an upload part.

Valid Values: `SOURCE1 | SOURCE2`

Required: Yes

**sequenceStoreId**

The Sequence Store ID used for the multipart upload.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

**uploadId**

The ID for the initiated multipart upload.

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

## Request Body

The request accepts the following binary data.

**payload**

The read set data to upload for a part.

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "checksum": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

**checksum**

An identifier used to confirm that parts are being added to the intended upload.

Type: String

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerException**

An unexpected error occurred. Try the request again.

HTTP Status Code: 500

**NotSupportedOperationException**

The operation is not supported by Amazon Omics, or the API does not exist.

HTTP Status Code: 405

**RequestTimeoutException**

The request timed out.

HTTP Status Code: 408

**ResourceNotFoundException**

The target resource was not found in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 429

**ValidationException**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400

### See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

## Data Types

The following data types are supported:

- ActivateReadSetFilter
- ActivateReadSetJobItem
- ActivateReadSetSourceItem
- AnnotationImportItemDetail
- AnnotationImportItemSource
- AnnotationImportJobItem
- AnnotationStoreItem
- AnnotationStoreVersionItem
- BatchListItem
- BatchRunSettings
- CompleteReadSetUploadPartListItem

- ConfigurationDetails
- ConfigurationListItem
- ContainerRegistryMap
- DefaultRunSetting
- DefinitionRepository
- DefinitionRepositoryDetails
- ETag
- ExportReadSet
- ExportReadSetDetail
- ExportReadSetFilter
- ExportReadSetJobDetail
- FileInformation
- Filter
- FormatOptions
- ImageDetails
- ImageMapping
- ImportReadSetFilter
- ImportReadSetJobItem
- ImportReadSetSourceItem
- ImportReferenceFilter
- ImportReferenceJobItem
- ImportReferenceSourceItem
- InlineSetting
- ListAnnotationImportJobsFilter
- ListAnnotationStoresFilter
- ListAnnotationStoreVersionsFilter
- ListVariantImportJobsFilter
- ListVariantStoresFilter
- MultipartReadSetUploadListItem
- ReadOptions
- ReadSetBatchError

- ReadSetFiles
- ReadSetFilter
- ReadSetListItem
- ReadSetS3Access
- ReadSetUploadPartListFilter
- ReadSetUploadPartListItem
- ReferenceFiles
- ReferenceFilter
- ReferenceItem
- ReferenceListItem
- ReferenceStoreDetail
- ReferenceStoreFilter
- RegistryMapping
- RunBatchListItem
- RunCacheListItem
- RunConfigurations
- RunConfigurationsResponse
- RunGroupListItem
- RunListItem
- RunLogLocation
- RunSummary
- S3AccessConfig
- SequenceInformation
- SequenceStoreDetail
- SequenceStoreFilter
- SequenceStoreS3Access
- ShareDetails
- SourceFiles
- SourceReference
- SseConfig
- StartReadSetActivationJobSourceItem

- StartReadSetImportJobSourceItem
- StartReferenceImportJobSourceItem
- StoreOptions
- SubmissionSummary
- TaskListItem
- TsvOptions
- TsvStoreOptions
- TsvVersionOptions
- VariantImportItemDetail
- VariantImportItemSource
- VariantImportJobItem
- VariantStoreItem
- VcfOptions
- VersionDeleteError
- VersionOptions
- VpcConfig
- VpcConfigResponse
- WorkflowListItem
- WorkflowParameter
- WorkflowVersionListItem

# ActivateReadSetFilter

A read set activation job filter.

## Contents

**createdAfter**

The filter's start date.

Type: Timestamp

Required: No

**createdBefore**

The filter's end date.

Type: Timestamp

Required: No

**status**

The filter's status.

Type: String

Valid Values: `SUBMITTED | IN_PROGRESS | CANCELLING | CANCELLED | FAILED | COMPLETED | COMPLETED_WITH_FAILURES`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# ActivateReadSetJobItem

A read set activation job.

## Contents

**creationTime**

When the job was created.

Type: Timestamp

Required: Yes

**id**

The job's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

**sequenceStoreId**

The job's sequence store ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

**status**

The job's status.

Type: String

Valid Values: `SUBMITTED | IN_PROGRESS | CANCELLING | CANCELLED | FAILED | COMPLETED | COMPLETED_WITH_FAILURES`

Required: Yes

**completionTime**

When the job completed.

Type: Timestamp

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# ActivateReadSetSourceItem

A source for a read set activation job.

## Contents

**readSetId**

The source's read set ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

**status**

The source's status.

Type: String

Valid Values: `NOT_STARTED | IN_PROGRESS | FINISHED | FAILED`

Required: Yes

**statusMessage**

The source's status message.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# AnnotationImportItemDetail

Details about an imported annotation item.

## Contents

### jobStatus

The item's job status.

Type: String

Valid Values: `SUBMITTED | IN_PROGRESS | CANCELLED | COMPLETED | FAILED | COMPLETED_WITH_FAILURES`

Required: Yes

### source

The source file's location in Amazon S3.

Type: String

Pattern: `s3://([a-z0-9][a-z0-9-.]{1,61}[a-z0-9])/(.{1,1024})`

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# AnnotationImportItemSource

A source for an annotation import job.

## Contents

**source**

The source file's location in Amazon S3.

Type: String

Pattern: `s3://([a-z0-9][a-z0-9-.]{1,61}[a-z0-9])/(.{1,1024})`

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# AnnotationImportJobItem

An annotation import job.

## Contents

**creationTime**

When the job was created.

Type: Timestamp

Required: Yes

**destinationName**

The job's destination annotation store.

Type: String

Required: Yes

**id**

The job's ID.

Type: String

Required: Yes

**roleArn**

The job's service role ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:([^: ]*):([^: ]*):([^: ]*):([0-9]{12}):([^: ]*)`

Required: Yes

**status**

The job's status.

Type: String

Valid Values: `SUBMITTED | IN_PROGRESS | CANCELLED | COMPLETED | FAILED | COMPLETED_WITH_FAILURES`

Required: Yes

**updateTime**

When the job was updated.

Type: Timestamp

Required: Yes

**versionName**

The name of the annotation store version.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: `([a-z]){1}([a-z0-9_]){2,254}`

Required: Yes

**annotationFields**

The annotation schema generated by the parsed annotation data.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 21.

Value Length Constraints: Minimum length of 1. Maximum length of 21.

Required: No

**completionTime**

When the job completed.

Type: Timestamp

Required: No

**runLeftNormalization**

The job's left normalization setting.

Type: Boolean

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# AnnotationStoreItem

An annotation store.

## Contents

**creationTime**

The store's creation time.

Type: Timestamp

Required: Yes

**description**

The store's description.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: Yes

**id**

The store's ID.

Type: String

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

Required: Yes

**name**

The store's name.

Type: String

Required: Yes

**reference**

The store's genome reference.

Type: ReferenceItem object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

**sseConfig**

The store's server-side encryption (SSE) settings.

Type: SseConfig object

Required: Yes

**status**

The store's status.

Type: String

Valid Values: `CREATING | UPDATING | DELETING | ACTIVE | FAILED`

Required: Yes

**statusMessage**

The store's status message.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1000.

Required: Yes

**storeArn**

The store's ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:([^: ]*):([^: ]*):([^: ]*):([0-9]{12}):([^: ]*)`

Required: Yes

**storeFormat**

The store's file format.

Type: String

Valid Values: `GFF | TSV | VCF`

Required: Yes

**storeSizeBytes**

The store's size in bytes.

Type: Long

Required: Yes

**updateTime**

When the store was updated.

Type: Timestamp

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# AnnotationStoreVersionItem

Annotation store versions.

## Contents

**creationTime**

The time stamp for when an annotation store version was created.

Type: Timestamp

Required: Yes

**description**

The description of an annotation store version.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: Yes

**id**

The annotation store version ID.

Type: String

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

Required: Yes

**name**

A name given to an annotation store version to distinguish it from others.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: `([a-z]){1}([a-z0-9_]){2,254}`

Required: Yes

**status**

The status of an annotation store version.

Type: String

Valid Values: `CREATING | UPDATING | DELETING | ACTIVE | FAILED`

Required: Yes

**statusMessage**

The status of an annotation store version.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1000.

Required: Yes

**storeId**

The store ID for an annotation store version.

Type: String

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

Required: Yes

**updateTime**

The time stamp for when an annotation store version was updated.

Type: Timestamp

Required: Yes

**versionArn**

The Arn for an annotation store version.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:([^: ]*):([^: ]*):([^: ]*):([0-9]{12}):([^: ]*)`

Required: Yes

**versionName**

The name of an annotation store version.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: `([a-z]){1}([a-z0-9_]){2,254}`

Required: Yes

**versionSizeBytes**

The size of an annotation store version in Bytes.

Type: Long

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# BatchListItem

A summary of a batch returned by `ListBatch`.

## Contents

**createdAt**

The timestamp when the batch was created.

Type: Timestamp

Required: No

**id**

The batch identifier.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

Required: No

**name**

The batch name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**status**

The current batch status.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `CREATING | PENDING | SUBMITTING | INPROGRESS | STOPPING | CANCELLED | FAILED | PROCESSED | RUNS_DELETING | RUNS_DELETE_FAILED | RUNS_DELETED`

Required: No

**totalRuns**

The total number of runs in the batch.

Type: Integer

Required: No

**workflowId**

The identifier of the workflow used for the batch.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# BatchRunSettings

A union type representing per-run configurations for the batch. Specify exactly one of the following members.

## Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

**inlineSettings**

A list of per-run configurations provided inline in the request. Each entry must include a unique `runSettingId`. Supports up to 100 entries. For batches with more than 100 runs, use `s3UriSettings`.

Type: Array of InlineSetting objects

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Required: No

**s3UriSettings**

An Amazon S3 URI pointing to a JSON file containing per-run configurations. The file must be a JSON array in the same format as `inlineSettings`. Supports up to 100,000 run configurations. The maximum file size is 6 GB.

The IAM service role in `roleArn` must have read access to this S3 object. HealthOmics validates access to the file during the synchronous API call and records the file's ETag. If the file is modified after submission, the batch fails.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 750.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# CompleteReadSetUploadPartListItem

Part of the response to the CompleteReadSetUpload API, including metadata.

## Contents

**checksum**

A unique identifier used to confirm that parts are being added to the correct upload.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: Yes

**partNumber**

A number identifying the part in a read set upload.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10000.

Required: Yes

**partSource**

The source file of the part being uploaded.

Type: String

Valid Values: `SOURCE1 | SOURCE2`

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

# ConfigurationDetails

Minimal details for a configuration resource.

## Contents

**arn**

Unique resource identifier for the configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 190.

Pattern: `arn:.+`

Required: No

**name**

User-friendly name for the configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[A-Za-z0-9][A-Za-z0-9\-\._]*`

Required: No

**uuid**

Unique identifier for the configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# ConfigurationListItem

Configuration list item with summary information.

## Contents

**arn**

Unique resource identifier for the configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 190.

Pattern: `arn:.+`

Required: No

**creationTime**

Configuration creation timestamp.

Type: Timestamp

Required: No

**description**

Description for the configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**name**

User-friendly name for the configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[A-Za-z0-9][A-Za-z0-9\-\._]*`

Required: No

**status**

Current configuration status.

Type: String

Valid Values: `CREATING | ACTIVE | UPDATING | DELETING | DELETED | FAILED`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# ContainerRegistryMap

Use a container registry map to specify mappings between the ECR private repository and one or more upstream registries. For more information, see Container images in the *AWS HealthOmics User Guide*.

## Contents

**imageMappings**

Image mappings specify path mappings between the ECR private repository and their corresponding external repositories.

Type: Array of ImageMapping objects

Required: No

**registryMappings**

The mappings between upstream container registries and repository prefixes in your Amazon Elastic Container Registry (Amazon ECR) private registry. The list can include both pull through cache mappings and mappings for registries that AWS HealthOmics copies images from.

Type: Array of RegistryMapping objects

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# DefaultRunSetting

Shared configuration applied to all runs in a batch. Fields specified in a per-run `InlineSetting` entry override the corresponding fields in this object for that run. The `parameters` and `runTags` fields are merged rather than replaced — run-specific values take precedence when keys overlap.

## Contents

**roleArn**

The IAM role ARN that grants HealthOmics permissions to access required AWS resources such as Amazon S3 and CloudWatch. The role must have the same permissions required for individual `StartRun` calls.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:.+`

Required: Yes

**workflowId**

The identifier of the workflow to run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

Required: Yes

**cacheBehavior**

The cache behavior for the runs. Requires `cacheId` to be set.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `CACHE_ON_FAILURE | CACHE_ALWAYS`

Required: No

**cacheId**

The identifier of the run cache to associate with the runs.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

Required: No

**configurationName**

Optional configuration name to use for the workflow run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[A-Za-z0-9][A-Za-z0-9\-\._]*`

Required: No

**engineSettings**

Engine-specific settings for the workflow run. Use this field to specify configuration options that are specific to the workflow engine (for example, Nextflow profiles, Nextflow runtime configuration).

Type: JSON value

Required: No

**logLevel**

The verbosity level for CloudWatch Logs emitted during each run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `OFF | FATAL | ERROR | ALL`

Required: No

**name**

An optional user-friendly name applied to each workflow run. Can be overridden per run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**networkingMode**

Optional configuration for run networking behavior. If not specified, this will default to RESTRICTED.

Type: String

Valid Values: `RESTRICTED | VPC`

Required: No

**outputBucketOwnerId**

The expected AWS account ID of the owner of the output S3 bucket. Can be overridden per run.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `[0-9]+`

Required: No

**outputUri**

The destination S3 URI for workflow outputs. Must begin with `s3://`. The `roleArn` must grant write permissions to this bucket. Can be overridden per run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 750.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**parameters**

Workflow parameter names and values shared across all runs. Merged with per-run parameters; run-specific values take precedence when keys overlap. Can be overridden per run.

Type: JSON value

Required: No

**priority**

An integer priority for the workflow runs. Higher values correspond to higher priority. A value of 0 corresponds to the lowest priority. Can be overridden per run.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100000.

Required: No

**retentionMode**

The retention behavior for runs after completion.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `RETAIN | REMOVE`

Required: No

**runGroupId**

The ID of the run group to contain all workflow runs in the batch.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

Required: No

**runTags**

AWS tags to associate with each workflow run. Merged with per-run `runTags`; run-specific values take precedence when keys overlap.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

**scratchStorageMode**

Optional configuration for enabling scratch ephemeral storage mounted at /tmp. If not specified, this will default to SHARED. This configuration is applicable only for CPU tasks. For tasks using GPUs, scratch storage is always LOCAL.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `LOCAL | SHARED`

Required: No

**sessionPolicy**

Optional inline policy json for scoping down permissions via a session policy on the IAM role provided in the roleArn parameter.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `[\p{L}\p{M}\p{Z}\p{S}\p{N}\p{P}\t\n\r]+`

Required: No

**storageCapacity**

The filesystem size in gibibytes (GiB) provisioned for each workflow run and shared by all tasks in that run. Defaults to 1200 GiB if not specified.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100000.

Required: No

**storageType**

The storage type for the workflow runs.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `STATIC | DYNAMIC`

Required: No

**workflowOwnerId**

The AWS account ID of the workflow owner, used for cross-account workflow sharing.

Type: String

Pattern: `[0-9]{12}`

Required: No

**workflowType**

The type of the originating workflow. Batch runs are not supported with `READY2RUN` workflows.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `PRIVATE | READY2RUN`

Required: No

**workflowVersionName**

The version name of the specified workflow.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[A-Za-z0-9][A-Za-z0-9\-\._]*`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# DefinitionRepository

Contains information about a source code repository that hosts the workflow definition files.

## Contents

**connectionArn**

The Amazon Resource Name (ARN) of the connection to the source code repository.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `arn:aws(-[\w]+)*:.+:.+:[0-9]{12}:.+`

Required: Yes

**fullRepositoryId**

The full repository identifier, including the repository owner and name. For example, 'repository-owner/repository-name'.

Type: String

Pattern: `.+/.+`

Required: Yes

**excludeFilePatterns**

A list of file patterns to exclude when retrieving the workflow definition from the repository.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 50 items.

Required: No

**sourceReference**

The source reference for the repository, such as a branch name, tag, or commit ID.

Type: SourceReference object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# DefinitionRepositoryDetails

Contains detailed information about the source code repository that hosts the workflow definition files.

## Contents

**connectionArn**

The Amazon Resource Name (ARN) of the connection to the source code repository.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `arn:aws(-[\w]+)*:.+:.+:[0-9]{12}:.+`

Required: No

**fullRepositoryId**

The full repository identifier, including the repository owner and name. For example, 'repository-owner/repository-name'.

Type: String

Pattern: `.+/.+`

Required: No

**providerEndpoint**

The endpoint URL of the source code repository provider.

Type: String

Required: No

**providerType**

The provider type of the source code repository, such as Bitbucket, GitHub, GitHubEnterpriseServer, GitLab, and GitLabSelfManaged.

Type: String

Required: No

**sourceReference**

The source reference for the repository, such as a branch name, tag, or commit ID.

Type: SourceReference object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# ETag

The entity tag (ETag) is a hash of the object representing its semantic content.

## Contents

**algorithm**

The algorithm used to calculate the read set's ETag(s).

Type: String

Valid Values: `FASTQ_MD5up | BAM_MD5up | CRAM_MD5up | FASTQ_SHA256up | BAM_SHA256up | CRAM_SHA256up | FASTQ_SHA512up | BAM_SHA512up | CRAM_SHA512up`

Required: No

**source1**

The ETag hash calculated on Source1 of the read set.

Type: String

Required: No

**source2**

The ETag hash calculated on Source2 of the read set.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# ExportReadSet

A read set.

## Contents

### readSetId

The set's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# ExportReadSetDetail

Details about a read set.

## Contents

**id**

The set's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

**status**

The set's status.

Type: String

Valid Values: `NOT_STARTED | IN_PROGRESS | FINISHED | FAILED`

Required: Yes

**statusMessage**

The set's status message.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# ExportReadSetFilter

An read set export job filter.

## Contents

**createdAfter**

The filter's start date.

Type: Timestamp

Required: No

**createdBefore**

The filter's end date.

Type: Timestamp

Required: No

**status**

A status to filter on.

Type: String

Valid Values: `SUBMITTED | IN_PROGRESS | CANCELLING | CANCELLED | FAILED | COMPLETED | COMPLETED_WITH_FAILURES`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# ExportReadSetJobDetail

Details about a read set export job.

## Contents

**creationTime**

When the job was created.

Type: Timestamp

Required: Yes

**destination**

The job's destination in Amazon S3.

Type: String

Pattern: `s3://([a-z0-9][a-z0-9-.]{1,61}[a-z0-9])/?((.{1,1024})/)?`

Required: Yes

**id**

The job's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

**sequenceStoreId**

The job's sequence store ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

**status**

The job's status.

Type: String

Valid Values: `SUBMITTED | IN_PROGRESS | CANCELLING | CANCELLED | FAILED | COMPLETED | COMPLETED_WITH_FAILURES`

Required: Yes

**completionTime**

When the job completed.

Type: Timestamp

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# FileInformation

Details about a file.

## Contents

**contentLength**

The file's content length.

Type: Long

Valid Range: Minimum value of 1. Maximum value of 5497558138880.

Required: No

**partSize**

The file's part size.

Type: Long

Valid Range: Minimum value of 1. Maximum value of 5368709120.

Required: No

**s3Access**

The S3 URI metadata of a sequence store.

Type: ReadSetS3Access object

Required: No

**totalParts**

The file's total parts.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10000.

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# Filter

Use filters to return a subset of resources. You can define filters for specific parameters, such as the resource status.

## Contents

**resourceArns**

Filter based on the Amazon Resource Number (ARN) of the resource. You can specify up to 10 values.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Required: No

**status**

Filter based on the resource status. You can specify up to 10 values.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Valid Values: `PENDING | ACTIVATING | ACTIVE | DELETING | DELETED | FAILED`

Required: No

**type**

The type of resources to be filtered. You can specify one or more of the resource types.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Valid Values: `VARIANT_STORE | ANNOTATION_STORE | WORKFLOW`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# FormatOptions

Formatting options for a file.

## Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

**tsvOptions**

Options for a TSV file.

Type: TsvOptions object

Required: No

**vcfOptions**

Options for a VCF file.

Type: VcfOptions object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# ImageDetails

Information about the container image used for a task.

## Contents

**image**

The URI of the container image.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 750.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**imageDigest**

The container image digest. If the image URI was transformed, this will be the digest of the container image referenced by the transformed URI.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `sha[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**sourceImage**

URI of the source registry. If the URI is from a third-party registry, AWS HealthOmics transforms the URI to the corresponding ECR path, using the pull-through cache mapping rules.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 750.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# ImageMapping

Specifies image mappings that workflow tasks can use. For example, you can replace all the task references of a public image to use an equivalent image in your private ECR repository. You can use image mappings with upstream registries that don't support pull through cache. You need to manually synchronize the upstream registry with your private repository.

## Contents

**destinationImage**

Specifies the URI of the corresponding image in the private ECR registry.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 750.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**sourceImage**

Specifies the URI of the source image in the upstream registry.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 750.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# ImportReadSetFilter

A filter for import read set jobs.

## Contents

**createdAfter**

The filter's start date.

Type: Timestamp

Required: No

**createdBefore**

The filter's end date.

Type: Timestamp

Required: No

**status**

A status to filter on.

Type: String

Valid Values: `SUBMITTED | IN_PROGRESS | CANCELLING | CANCELLED | FAILED | COMPLETED | COMPLETED_WITH_FAILURES`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# ImportReadSetJobItem

An import read set job.

## Contents

**creationTime**

When the job was created.

Type: Timestamp

Required: Yes

**id**

The job's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

**roleArn**

The job's service role ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:.*`

Required: Yes

**sequenceStoreId**

The job's sequence store ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

**status**

The job's status.

Type: String

Valid Values: `SUBMITTED | IN_PROGRESS | CANCELLING | CANCELLED | FAILED | COMPLETED | COMPLETED_WITH_FAILURES`

Required: Yes

**completionTime**

When the job completed.

Type: Timestamp

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# ImportReadSetSourceItem

A source for an import read set job.

## Contents

**sampleId**

The source's sample ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: Yes

**sourceFiles**

The source files' location in Amazon S3.

Type: SourceFiles object

Required: Yes

**sourceFileType**

The source's file type.

Type: String

Valid Values: `FASTQ | BAM | CRAM | UBAM`

Required: Yes

**status**

The source's status.

Type: String

Valid Values: `NOT_STARTED | IN_PROGRESS | FINISHED | FAILED`

Required: Yes

**subjectId**

The source's subject ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: Yes

**description**

The source's description.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**generatedFrom**

Where the source originated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**name**

The source's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**readSetId**

The source's read set ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: No

**referenceArn**

The source's genome reference ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `arn:.+`

Required: No

**statusMessage**

The source's status message.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**tags**

The source's tags.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# ImportReferenceFilter

A filter for import references.

## Contents

**createdAfter**

The filter's start date.

Type: Timestamp

Required: No

**createdBefore**

The filter's end date.

Type: Timestamp

Required: No

**status**

A status to filter on.

Type: String

Valid Values: `SUBMITTED | IN_PROGRESS | CANCELLING | CANCELLED | FAILED | COMPLETED | COMPLETED_WITH_FAILURES`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# ImportReferenceJobItem

An import reference job.

## Contents

**creationTime**

When the job was created.

Type: Timestamp

Required: Yes

**id**

The job's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

**referenceStoreId**

The job's reference store ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

**roleArn**

The job's service role ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:.*`

Required: Yes

**status**

The job's status.

Type: String

Valid Values: `SUBMITTED | IN_PROGRESS | CANCELLING | CANCELLED | FAILED | COMPLETED | COMPLETED_WITH_FAILURES`

Required: Yes

**completionTime**

When the job completed.

Type: Timestamp

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# ImportReferenceSourceItem

An genome reference source.

## Contents

**status**

The source's status.

Type: String

Valid Values: `NOT_STARTED | IN_PROGRESS | FINISHED | FAILED`

Required: Yes

**description**

The source's description.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**name**

The source's name.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**referenceId**

The source's reference ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: No

**sourceFile**

The source file's location in Amazon S3.

Type: String

Pattern: `s3://([a-z0-9][a-z0-9-.]{1,61}[a-z0-9])/(.{1,1024})`

Required: No

**statusMessage**

The source's status message.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**tags**

The source's tags.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# InlineSetting

A per-run configuration that overrides or merges with fields from `DefaultRunSetting` for a specific run.

## Contents

**runSettingId**

A customer-provided unique identifier for this run configuration within the batch. After submission, use `ListRunsInBatch` to map each `runSettingId` to the HealthOmics-generated `runId`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: Yes

**engineSettings**

Per-run engine-specific settings. Use this field to specify configuration options that are specific to the workflow engine (for example, Nextflow profiles, Nextflow runtime configuration). Overrides `defaultRunSetting.engineSettings` for this run.

Type: JSON value

Required: No

**name**

An optional user-friendly name for this run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**outputBucketOwnerId**

The expected AWS account ID of the owner of the output S3 bucket for this run.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `[0-9]+`

Required: No

**outputUri**

Override the destination S3 URI for this run's outputs.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 750.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**parameters**

Per-run workflow parameters. Merged with `defaultRunSetting.parameters`; values in this object take precedence when keys overlap.

Type: JSON value

Required: No

**priority**

Override the priority for this run.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100000.

Required: No

**runTags**

Per-run AWS tags. Merged with `defaultRunSetting.runTags`; values in this object take precedence when keys overlap.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# ListAnnotationImportJobsFilter

A filter for annotation import jobs.

## Contents

**status**

A status to filter on.

Type: String

Valid Values: `SUBMITTED | IN_PROGRESS | CANCELLED | COMPLETED | FAILED | COMPLETED_WITH_FAILURES`

Required: No

**storeName**

A store name to filter on.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# ListAnnotationStoresFilter

A filter for annotation stores.

## Contents

### status

A status to filter on.

Type: String

Valid Values: `CREATING | UPDATING | DELETING | ACTIVE | FAILED`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# ListAnnotationStoreVersionsFilter

Use filters to focus the returned annotation store versions on a specific parameter, such as the status of the annotation store.

## Contents

**status**

The status of an annotation store version.

Type: String

Valid Values: `CREATING | UPDATING | DELETING | ACTIVE | FAILED`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# ListVariantImportJobsFilter

A filter for variant import jobs.

## Contents

**status**

A status to filter on.

Type: String

Valid Values: `SUBMITTED | IN_PROGRESS | CANCELLED | COMPLETED | FAILED | COMPLETED_WITH_FAILURES`

Required: No

**storeName**

A store name to filter on.

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# ListVariantStoresFilter

A filter for variant stores.

## Contents

### status

A status to filter on.

Type: String

Valid Values: `CREATING | UPDATING | DELETING | ACTIVE | FAILED`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# MultipartReadSetUploadListItem

Part of the response to ListMultipartReadSetUploads, excluding completed and aborted multipart uploads.

## Contents

**creationTime**

The time stamp for when a direct upload was created.

Type: Timestamp

Required: Yes

**generatedFrom**

The source of an uploaded part.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: Yes

**referenceArn**

The source's reference ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `arn:.+`

Required: Yes

**sampleId**

The read set source's sample ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: Yes

**sequenceStoreId**

The sequence store ID used for the multipart upload.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

**sourceFileType**

The type of file the read set originated from.

Type: String

Valid Values: `FASTQ | BAM | CRAM | UBAM`

Required: Yes

**subjectId**

The read set source's subject ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: Yes

**uploadId**

The ID for the initiated multipart upload.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

**description**

The description of a read set.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**name**

The name of a read set.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**tags**

Any tags you wish to add to a read set.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

# ReadOptions

Read options for an annotation import job.

## Contents

**comment**

The file's comment character.

Type: String

Length Constraints: Fixed length of 1.

Required: No

**encoding**

The file's encoding.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 20.

Required: No

**escape**

A character for escaping quotes in the file.

Type: String

Length Constraints: Fixed length of 1.

Required: No

**escapeQuotes**

Whether quotes need to be escaped in the file.

Type: Boolean

Required: No

**header**

Whether the file has a header row.

Type: Boolean

Required: No

**lineSep**

A line separator for the file.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 20.

Required: No

**quote**

The file's quote character.

Type: String

Length Constraints: Fixed length of 1.

Required: No

**quoteAll**

Whether all values need to be quoted, or just those that contain quotes.

Type: Boolean

Required: No

**sep**

The file's field separator.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 20.

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# ReadSetBatchError

An error from a batch read set operation.

## Contents

**code**

The error's code.

Type: String

Required: Yes

**id**

The error's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

**message**

The error's message.

Type: String

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# ReadSetFiles

Files in a read set.

## Contents

**index**

The files' index.

Type: FileInformation object

Required: No

**source1**

The location of the first file in Amazon S3.

Type: FileInformation object

Required: No

**source2**

The location of the second file in Amazon S3.

Type: FileInformation object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# ReadSetFilter

A filter for read sets.

## Contents

**createdAfter**

The filter's start date.

Type: Timestamp

Required: No

**createdBefore**

The filter's end date.

Type: Timestamp

Required: No

**creationType**

The creation type of the read set.

Type: String

Valid Values: `IMPORT | UPLOAD`

Required: No

**generatedFrom**

Where the source originated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**name**

A name to filter on.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**referenceArn**

A genome reference ARN to filter on.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 127.

Pattern: `$|^arn:.+`

Required: No

**sampleId**

The read set source's sample ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**status**

A status to filter on.

Type: String

Valid Values: `ARCHIVED | ACTIVATING | ACTIVE | DELETING | DELETED | PROCESSING_UPLOAD | UPLOAD_FAILED`

Required: No

**subjectId**

The read set source's subject ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# ReadSetListItem

A read set.

## Contents

**arn**

The read set's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `arn:.+`

Required: Yes

**creationTime**

When the read set was created.

Type: Timestamp

Required: Yes

**fileType**

The read set's file type.

Type: String

Valid Values: `FASTQ | BAM | CRAM | UBAM`

Required: Yes

**id**

The read set's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

**sequenceStoreId**

The read set's sequence store ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

**status**

The read set's status.

Type: String

Valid Values: `ARCHIVED | ACTIVATING | ACTIVE | DELETING | DELETED | PROCESSING_UPLOAD | UPLOAD_FAILED`

Required: Yes

**creationType**

The creation type of the read set.

Type: String

Valid Values: `IMPORT | UPLOAD`

Required: No

**description**

The read set's description.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**etag**

The entity tag (ETag) is a hash of the object representing its semantic content.

Type: ETag object

Required: No

**name**

The read set's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**referenceArn**

The read set's genome reference ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `arn:.+`

Required: No

**sampleId**

The read set's sample ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**sequenceInformation**

Details about a sequence.

Type: SequenceInformation object

Required: No

**statusMessage**

The status for a read set. It provides more detail as to why the read set has a status.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**subjectId**

The read set's subject ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# ReadSetS3Access

The S3 URI for each read set file.

## Contents

### s3Uri

The S3 URI for each read set file.

Type: String

Pattern: `s3://([a-z0-9][a-z0-9-.]{1,61}[a-z0-9])/(.{1,1024})`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# ReadSetUploadPartListFilter

Filter settings that select for read set upload parts of interest.

## Contents

**createdAfter**

Filters for read set uploads after a specified time.

Type: Timestamp

Required: No

**createdBefore**

Filters for read set part uploads before a specified time.

Type: Timestamp

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# ReadSetUploadPartListItem

The metadata of a single part of a file that was added to a multipart upload. A list of these parts is returned in the response to the ListReadSetUploadParts API.

## Contents

**checksum**

A unique identifier used to confirm that parts are being added to the correct upload.

Type: String

Required: Yes

**partNumber**

The number identifying the part in an upload.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10000.

Required: Yes

**partSize**

The size of the the part in an upload.

Type: Long

Valid Range: Minimum value of 1. Maximum value of 5368709120.

Required: Yes

**partSource**

The origin of the part being direct uploaded.

Type: String

Valid Values: `SOURCE1 | SOURCE2`

Required: Yes

**creationTime**

The time stamp for when a direct upload was created.

Type: Timestamp

Required: No

**lastUpdatedTime**

The time stamp for the most recent update to an uploaded part.

Type: Timestamp

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# ReferenceFiles

A set of genome reference files.

## Contents

**index**

The files' index.

Type: FileInformation object

Required: No

**source**

The source file's location in Amazon S3.

Type: FileInformation object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# ReferenceFilter

A filter for references.

## Contents

**createdAfter**

The filter's start date.

Type: Timestamp

Required: No

**createdBefore**

The filter's end date.

Type: Timestamp

Required: No

**md5**

An MD5 checksum to filter on.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}||\p{N}]+`

Required: No

**name**

A name to filter on.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# ReferenceItem

A genome reference.

## Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

**referenceArn**

The reference's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `arn:.+`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# ReferenceListItem

A genome reference.

## Contents

**arn**

The reference's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `arn:.+`

Required: Yes

**creationTime**

When the reference was created.

Type: Timestamp

Required: Yes

**id**

The reference's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

**md5**

The reference's MD5 checksum.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}||\p{N}]+`

Required: Yes

**referenceStoreId**

The reference's store ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

**updateTime**

When the reference was updated.

Type: Timestamp

Required: Yes

**description**

The reference's description.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**name**

The reference's name.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**status**

The reference's status.

Type: String

Valid Values: `ACTIVE | DELETING | DELETED`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# ReferenceStoreDetail

Details about a reference store.

## Contents

**arn**

The store's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `arn:.+`

Required: Yes

**creationTime**

When the store was created.

Type: Timestamp

Required: Yes

**id**

The store's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

**description**

The store's description.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+

Required: No

**name**

The store's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: [\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+

Required: No

**sseConfig**

The store's server-side encryption (SSE) settings.

Type: SseConfig object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# ReferenceStoreFilter

A filter for reference stores.

## Contents

**createdAfter**

The filter's start date.

Type: Timestamp

Required: No

**createdBefore**

The filter's end date.

Type: Timestamp

Required: No

**name**

The name to filter on.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# RegistryMapping

Maps an upstream container registry to a repository prefix in your Amazon Elastic Container Registry (Amazon ECR) private registry. For registries that Amazon ECR pull through cache supports, you create a pull through cache rule that synchronizes the upstream repositories with your private repositories. You can also use some registries that pull through cache doesn't support. For these registries, specify `credentialArn`, and AWS HealthOmics copies each image into a private Amazon ECR repository the first time a task needs it.

## Contents

**ecrRepositoryPrefix**

The repository prefix to use in the ECR private repository.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: Yes

**upstreamRegistryUrl**

The URI of the upstream registry.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 750.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: Yes

**credentialArn**

The Amazon Resource Name (ARN) of the AWS Secrets Manager secret that holds the credentials for the upstream registry. You must specify this value when Amazon Elastic Container Registry (Amazon ECR) doesn't support pull through cache for the upstream registry. HealthOmics supports only some of these registries. The workflow role must have permission to call the `secretsmanager:GetSecretValue` operation on the secret. For more information about the supported registries, see Container images in the *AWS HealthOmics User Guide*.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws(-\w+)*:secretsmanager:[a-z0-9-]+:[0-9]{12}:secret:[a-zA-Z0-9\/_+=.@-]+`

Required: No

**ecrAccountId**

Account ID of the account that owns the upstream container image.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `[0-9]+`

Required: No

**upstreamRepositoryPrefix**

The repository prefix of the corresponding repository in the upstream registry.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 30.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# RunBatchListItem

A single run entry returned by `ListRunsInBatch`.

## Contents

**runArn**

The unique ARN of the workflow run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:.+`

Required: No

**runId**

The HealthOmics-generated identifier for the workflow run. Empty if submission failed.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

Required: No

**runInternalUuid**

The universally unique identifier (UUID) for the run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**runSettingId**

The customer-provided identifier for the run configuration. Use this to correlate results back to the input configuration provided in `inlineSettings` or `s3UriSettings`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**submissionFailureMessage**

A detailed message describing the submission failure.

Type: String

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**submissionFailureReason**

The error category for a failed submission. See the run-level failure table in the HealthOmics User Guide for details on each value.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**submissionStatus**

The submission outcome for this run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `SUCCESS | FAILED | CANCEL_SUCCESS | CANCEL_FAILED | DELETE_SUCCESS | DELETE_FAILED`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# RunCacheListItem

List entry for one run cache.

## Contents

**arn**

Unique resource identifier for the run cache.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:.+`

Required: No

**cacheBehavior**

Default cache behavior for the run cache.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `CACHE_ON_FAILURE | CACHE_ALWAYS`

Required: No

**cacheS3Uri**

The S3 uri for the run cache data.

Type: String

Pattern: `s3://([a-z0-9][a-z0-9-.]{1,61}[a-z0-9])(/(.{0,1024}))?`

Required: No

**creationTime**

The time that this run cache was created (an ISO 8601 formatted string).

Type: Timestamp

Required: No

**id**

The identifier for this run cache.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

Required: No

**name**

The name of the run cache.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**status**

The run cache status.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `ACTIVE | DELETED | FAILED`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

# RunConfigurations

Run-specific configuration settings.

## Contents

### vpcConfig

VPC configuration for workflow runs.

Type: VpcConfig object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# RunConfigurationsResponse

Run-specific configuration settings with computed values.

## Contents

### vpcConfig

VPC configuration for workflow runs with computed VPC ID.

Type: VpcConfigResponse object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# RunGroupListItem

A run group.

## Contents

**arn**

The group's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:.+`

Required: No

**creationTime**

When the group was created.

Type: Timestamp

Required: No

**id**

The group's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

Required: No

**maxCpus**

The group's maximum CPU count setting.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100000.

Required: No

**maxDuration**

The group's maximum duration setting in minutes.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100000.

Required: No

**maxGpus**

The maximum GPUs that can be used by a run group.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100000.

Required: No

**maxRuns**

The group's maximum concurrent run setting.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100000.

Required: No

**name**

The group's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# RunListItem

A workflow run.

## Contents

**arn**

The run's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:.+`

Required: No

**batchId**

The run's batch ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

Required: No

**creationTime**

When the run was created.

Type: Timestamp

Required: No

**id**

The run's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

Required: No

**name**

The run's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**priority**

The run's priority.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100000.

Required: No

**startTime**

When the run started.

Type: Timestamp

Required: No

**status**

The run's status.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `PENDING | STARTING | RUNNING | STOPPING | COMPLETED | DELETED | CANCELLED | FAILED`

Required: No

**stopTime**

When the run stopped.

Type: Timestamp

Required: No

**storageCapacity**

The run's storage capacity in gibibytes. For dynamic storage, after the run has completed, this value is the maximum amount of storage used during the run.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100000.

Required: No

**storageType**

The run's storage type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `STATIC | DYNAMIC`

Required: No

**workflowId**

The run's workflow ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

Required: No

**workflowName**

The name of the workflow.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**workflowVersionName**

The name of the workflow version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[A-Za-z0-9][A-Za-z0-9\-\._]*`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# RunLogLocation

The URI for the run log.

## Contents

**engineLogStream**

The log stream ARN for the engine log.

Type: String

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**runLogStream**

The log stream ARN for the run log.

Type: String

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# RunSummary

A summary of the runs in a batch.

## Contents

**cancelledRunCount**

The number of cancelled runs.

Type: Integer

Required: No

**completedRunCount**

The number of completed runs.

Type: Integer

Required: No

**deletedRunCount**

The number of deleted runs.

Type: Integer

Required: No

**failedRunCount**

The number of failed runs.

Type: Integer

Required: No

**pendingRunCount**

The number of pending runs.

Type: Integer

Required: No

**runningRunCount**

The number of running runs.

Type: Integer

Required: No

**startingRunCount**

The number of starting runs.

Type: Integer

Required: No

**stoppingRunCount**

The number of stopping runs.

Type: Integer

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# S3AccessConfig

S3 access configuration parameters.

## Contents

### accessLogLocation

Location of the access logs.

Type: String

Pattern: `$|^s3://([a-z0-9][a-z0-9-.]{1,61}[a-z0-9])/?((.{1,800})/)?`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# SequenceInformation

Details about a sequence.

## Contents

**alignment**

The sequence's alignment setting.

Type: String

Required: No

**generatedFrom**

Where the sequence originated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**totalBaseCount**

The sequence's total base count.

Type: Long

Required: No

**totalReadCount**

The sequence's total read count.

Type: Long

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# SequenceStoreDetail

Details about a sequence store.

## Contents

**arn**

The store's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `arn:.+`

Required: Yes

**creationTime**

When the store was created.

Type: Timestamp

Required: Yes

**id**

The store's ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

**description**

The store's description.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**eTagAlgorithmFamily**

The algorithm family of the ETag.

Type: String

Valid Values: `MD5up | SHA256up | SHA512up`

Required: No

**fallbackLocation**

An S3 location that is used to store files that have failed a direct upload.

Type: String

Pattern: `$|^s3://([a-z0-9][a-z0-9-.]{1,61}[a-z0-9])/?((.{1,1024})/)?`

Required: No

**name**

The store's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**sseConfig**

The store's server-side encryption (SSE) settings.

Type: SseConfig object

Required: No

**status**

Status of the sequence store.

Type: String

Valid Values: `CREATING | ACTIVE | UPDATING | DELETING | FAILED`

Required: No

**statusMessage**

The status message of the sequence store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**updateTime**

The last-updated time of the Sequence Store.

Type: Timestamp

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# SequenceStoreFilter

A filter for a sequence store.

## Contents

**createdAfter**

The filter's start date.

Type: Timestamp

Required: No

**createdBefore**

The filter's end date.

Type: Timestamp

Required: No

**name**

A name to filter on.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**status**

Filter results based on status.

Type: String

Valid Values: `CREATING | ACTIVE | UPDATING | DELETING | FAILED`

Required: No

**updatedAfter**

Filter results based on stores updated after the specified time.

Type: Timestamp

Required: No

**updatedBefore**

Filter results based on stores updated before the specified time.

Type: Timestamp

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# SequenceStoreS3Access

The S3 access metadata of the sequence store.

## Contents

**accessLogLocation**

Location of the access logs.

Type: String

Pattern: `$|^s3://([a-z0-9][a-z0-9-.]{1,61}[a-z0-9])/?((.{1,800})/)?`

Required: No

**s3AccessPointArn**

This is ARN of the access point associated with the S3 bucket storing read sets.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: `arn:[^:]*:s3:[^:]*:[^:]*:accesspoint/.*`

Required: No

**s3Uri**

The S3 URI of the sequence store.

Type: String

Pattern: `s3://([a-z0-9][a-z0-9-.]{1,61}[a-z0-9])/(.{1,1024})`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

# ShareDetails

The details of a resource share.

## Contents

**creationTime**

The timestamp of when the resource share was created.

Type: Timestamp

Required: No

**ownerId**

The account ID for the data owner. The owner creates the resource share.

Type: String

Required: No

**principalSubscriber**

The principal subscriber is the account that is sharing the resource.

Type: String

Required: No

**resourceArn**

The Arn of the shared resource.

Type: String

Required: No

**resourceId**

The ID of the shared resource.

Type: String

Required: No

**shareId**

The ID of the resource share.

Type: String

Required: No

**shareName**

The name of the resource share.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[a-zA-Z0-9_-]+`

Required: No

**status**

The status of the share.

Type: String

Valid Values: `PENDING | ACTIVATING | ACTIVE | DELETING | DELETED | FAILED`

Required: No

**statusMessage**

The status message for a resource share. It provides additional details about the share status.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1000.

Required: No

**updateTime**

The timestamp of the resource share update.

Type: Timestamp

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# SourceFiles

Source files for a sequence.

## Contents

**source1**

The location of the first file in Amazon S3.

Type: String

Pattern: `s3://([a-z0-9][a-z0-9-.]{1,61}[a-z0-9])/(.{1,1024})`

Required: Yes

**source2**

The location of the second file in Amazon S3.

Type: String

Pattern: `s3://([a-z0-9][a-z0-9-.]{1,61}[a-z0-9])/(.{1,1024})`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# SourceReference

Contains information about the source reference in a code repository, such as a branch, tag, or commit.

## Contents

**type**

The type of source reference, such as branch, tag, or commit.

Type: String

Valid Values: `BRANCH | TAG | COMMIT`

Required: Yes

**value**

The value of the source reference, such as the branch name, tag name, or commit ID.

Type: String

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# SseConfig

Server-side encryption (SSE) settings for a store.

## Contents

**type**

The encryption type.

Type: String

Valid Values: KMS

Required: Yes

**keyArn**

An encryption key ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `.*arn:([^: ]*):([^: ]*):([^: ]*):([0-9]{12}):([^: ]*).*`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# StartReadSetActivationJobSourceItem

A source for a read set activation job.

## Contents

### readSetId

The source's read set ID.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 36.

Pattern: `[0-9]+`

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# StartReadSetImportJobSourceItem

A source for a read set import job.

## Contents

**sampleId**

The source's sample ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: Yes

**sourceFiles**

The source files' location in Amazon S3.

Type: SourceFiles object

Required: Yes

**sourceFileType**

The source's file type.

Type: String

Valid Values: `FASTQ | BAM | CRAM | UBAM`

Required: Yes

**subjectId**

The source's subject ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: Yes

**description**

The source's description.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**generatedFrom**

Where the source originated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**name**

The source's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**referenceArn**

The source's reference ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `arn:.+`

Required: No

**tags**

The source's tags.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# StartReferenceImportJobSourceItem

A source for a reference import job.

## Contents

**name**

The source's name.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: Yes

**sourceFile**

The source file's location in Amazon S3.

Type: String

Pattern: `s3://([a-z0-9][a-z0-9-.]{1,61}[a-z0-9])/(.{1,1024})`

Required: Yes

**description**

The source's description.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**tags**

The source's tags.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# StoreOptions

Settings for a store.

## Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

**tsvStoreOptions**

File settings for a TSV store.

Type: TsvStoreOptions object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# SubmissionSummary

A summary of the submissions in a batch.

## Contents

**failedCancelSubmissionCount**

The number of failed cancel submissions.

Type: Integer

Required: No

**failedDeleteSubmissionCount**

The number of failed delete submissions.

Type: Integer

Required: No

**failedStartSubmissionCount**

The number of failed start submissions.

Type: Integer

Required: No

**pendingStartSubmissionCount**

The number of pending start submissions.

Type: Integer

Required: No

**successfulCancelSubmissionCount**

The number of successful cancel submissions.

Type: Integer

Required: No

**successfulDeleteSubmissionCount**

The number of successful delete submissions.

Type: Integer

Required: No

**successfulStartSubmissionCount**

The number of successful start submissions.

Type: Integer

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# TaskListItem

A workflow run task.

## Contents

**cacheHit**

Set to true if AWS HealthOmics found a matching entry in the run cache for this task.

Type: Boolean

Required: No

**cacheS3Uri**

The S3 URI of the cache location.

Type: String

Pattern: `s3://([a-z0-9][a-z0-9-.]{1,61}[a-z0-9])(/(.{0,1024}))?`

Required: No

**cpus**

The task's CPU count.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

**creationTime**

When the task was created.

Type: Timestamp

Required: No

**gpus**

The number of Graphics Processing Units (GPU) specified for the task.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

**instanceType**

The instance type for a task.

Type: String

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**memory**

The task's memory use in gigabyes.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

**name**

The task's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

**startTime**

When the task started.

Type: Timestamp

Required: No

**status**

The task's status.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `PENDING | STARTING | RUNNING | STOPPING | COMPLETED | CANCELLED | FAILED`

Required: No

**stopTime**

When the task stopped.

Type: Timestamp

Required: No

**taskId**

The task's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

Required: No

**uuid**

The universally unique identifier (UUID) for the workflow task.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

# TsvOptions

Formatting options for a TSV file.

## Contents

### readOptions

The file's read options.

Type: ReadOptions object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# TsvStoreOptions

File settings for a TSV store.

## Contents

**annotationType**

The store's annotation type.

Type: String

Valid Values: `GENERIC | CHR_POS | CHR_POS_REF_ALT | CHR_START_END_ONE_BASE | CHR_START_END_REF_ALT_ONE_BASE | CHR_START_END_ZERO_BASE | CHR_START_END_REF_ALT_ZERO_BASE`

Required: No

**formatToHeader**

The store's header key to column name mapping.

Type: String to string map

Valid Keys: `CHR | START | END | REF | ALT | POS`

Value Length Constraints: Minimum length of 0. Maximum length of 1000.

Required: No

**schema**

The store's schema.

Type: Array of string to string maps

Array Members: Minimum number of 1 item. Maximum number of 5000 items.

Map Entries: Maximum number of 1 item.

Key Pattern: `[a-z0-9_]{1,255}`

Valid Values: `LONG | INT | STRING | FLOAT | DOUBLE | BOOLEAN`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# TsvVersionOptions

The options for a TSV file.

## Contents

**annotationType**

The store version's annotation type.

Type: String

Valid Values: `GENERIC | CHR_POS | CHR_POS_REF_ALT | CHR_START_END_ONE_BASE | CHR_START_END_REF_ALT_ONE_BASE | CHR_START_END_ZERO_BASE | CHR_START_END_REF_ALT_ZERO_BASE`

Required: No

**formatToHeader**

The annotation store version's header key to column name mapping.

Type: String to string map

Valid Keys: `CHR | START | END | REF | ALT | POS`

Value Length Constraints: Minimum length of 0. Maximum length of 1000.

Required: No

**schema**

The TSV schema for an annotation store version.

Type: Array of string to string maps

Array Members: Minimum number of 1 item. Maximum number of 5000 items.

Map Entries: Maximum number of 1 item.

Key Pattern: `[a-z0-9_]{1,255}`

Valid Values: `LONG | INT | STRING | FLOAT | DOUBLE | BOOLEAN`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# VariantImportItemDetail

Details about an imported variant item.

## Contents

**jobStatus**

The item's job status.

Type: String

Valid Values: `SUBMITTED | IN_PROGRESS | CANCELLED | COMPLETED | FAILED | COMPLETED_WITH_FAILURES`

Required: Yes

**source**

The source file's location in Amazon S3.

Type: String

Pattern: `s3://([a-z0-9][a-z0-9-.]{1,61}[a-z0-9])/(.{1,1024})`

Required: Yes

**statusMessage**

A message that provides additional context about a job

Type: String

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# VariantImportItemSource

A imported variant item's source.

## Contents

### source

The source file's location in Amazon S3.

Type: String

Pattern: `s3://([a-z0-9][a-z0-9-.]{1,61}[a-z0-9])/(.{1,1024})`

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# VariantImportJobItem

A variant import job.

## Contents

**creationTime**

When the job was created.

Type: Timestamp

Required: Yes

**destinationName**

The job's destination variant store.

Type: String

Required: Yes

**id**

The job's ID.

Type: String

Required: Yes

**roleArn**

The job's service role ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:([^: ]*):([^: ]*):([^: ]*):([0-9]{12}):([^: ]*)`

Required: Yes

**status**

The job's status.

Type: String

Valid Values: `SUBMITTED | IN_PROGRESS | CANCELLED | COMPLETED | FAILED | COMPLETED_WITH_FAILURES`

Required: Yes

**updateTime**

When the job was updated.

Type: Timestamp

Required: Yes

**annotationFields**

The annotation schema generated by the parsed annotation data.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 21.

Value Length Constraints: Minimum length of 1. Maximum length of 21.

Required: No

**completionTime**

When the job completed.

Type: Timestamp

Required: No

**runLeftNormalization**

The job's left normalization setting.

Type: Boolean

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# VariantStoreItem

A variant store.

## Contents

**creationTime**

When the store was created.

Type: Timestamp

Required: Yes

**description**

The store's description.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: Yes

**id**

The store's ID.

Type: String

Pattern: `[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

Required: Yes

**name**

The store's name.

Type: String

Required: Yes

**reference**

The store's genome reference.

Type: ReferenceItem object

**Note:** This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

**sseConfig**

The store's server-side encryption (SSE) settings.

Type: SseConfig object

Required: Yes

**status**

The store's status.

Type: String

Valid Values: `CREATING | UPDATING | DELETING | ACTIVE | FAILED`

Required: Yes

**statusMessage**

The store's status message.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1000.

Required: Yes

**storeArn**

The store's ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:([^: ]*):([^: ]*):([^: ]*):([0-9]{12}):([^: ]*)`

Required: Yes

**storeSizeBytes**

The store's size in bytes.

Type: Long

Required: Yes

**updateTime**

When the store was updated.

Type: Timestamp

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# VcfOptions

Formatting options for a VCF file.

## Contents

**ignoreFilterField**

The file's ignore filter field setting.

Type: Boolean

Required: No

**ignoreQualField**

The file's ignore qual field setting.

Type: Boolean

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# VersionDeleteError

The error preventing deletion of the annotation store version.

## Contents

**message**

The message explaining the error in annotation store deletion.

Type: String

Required: Yes

**versionName**

The name given to an annotation store version.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

Pattern: `([a-z]){1}([a-z0-9_]){2,254}`

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# VersionOptions

The options for an annotation store version.

## Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

**tsvVersionOptions**

File settings for a version of a TSV store.

Type: TsvVersionOptions object

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# VpcConfig

VPC configuration for workflow runs.

## Contents

**securityGroupIds**

List of security group IDs. Maximum of 5 security groups allowed.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Length Constraints: Minimum length of 4. Maximum length of 128.

Pattern: `sg-[0-9a-f]+`

Required: No

**subnetIds**

List of subnet IDs. Maximum of 16 subnets allowed.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 16 items.

Length Constraints: Minimum length of 8. Maximum length of 128.

Pattern: `subnet-[0-9a-f]+`

Required: No

**vpcOwnerAccountId**

The AWS account ID of the cross-account VPC owner for RAM-shared VPC configurations.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `[0-9]+`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# VpcConfigResponse

VPC configuration for workflow runs with computed VPC ID.

## Contents

**securityGroupIds**

List of security group IDs.

Type: Array of strings

Length Constraints: Minimum length of 4. Maximum length of 128.

Pattern: `sg-[0-9a-f]+`

Required: No

**subnetIds**

List of subnet IDs.

Type: Array of strings

Length Constraints: Minimum length of 8. Maximum length of 128.

Pattern: `subnet-[0-9a-f]+`

Required: No

**vpcId**

VPC ID computed from the provided subnet IDs.

Type: String

Length Constraints: Minimum length of 5. Maximum length of 128.

Pattern: `vpc-[0-9a-f]+`

Required: No

**vpcOwnerAccountId**

The AWS account ID of the cross-account VPC owner for RAM-shared VPC configurations.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `[0-9]+`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# WorkflowListItem

A workflow.

## Contents

**arn**

The workflow's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `arn:.+`

Required: No

**creationTime**

When the workflow was created.

Type: Timestamp

Required: No

**digest**

The workflow's digest.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

**id**

The workflow's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

Required: No

**metadata**

Any metadata available for workflow. The information listed may vary depending on the workflow, and there may also be no metadata to return.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

**name**

The workflow's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**status**

The workflow's status.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `CREATING | ACTIVE | UPDATING | DELETED | FAILED | INACTIVE`

Required: No

**type**

The workflow's type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `PRIVATE | READY2RUN`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# WorkflowParameter

A workflow parameter.

## Contents

**description**

The parameter's description.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**optional**

Whether the parameter is optional.

Type: Boolean

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# WorkflowVersionListItem

A list of workflow version items.

## Contents

**arn**

ARN of the workflow version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 150.

Pattern: `arn:.+`

Required: No

**creationTime**

The creation time of the workflow version.

Type: Timestamp

Required: No

**description**

The description of the workflow version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\p{L}||\p{M}||\p{Z}||\p{S}||\p{N}||\p{P}]+`

Required: No

**digest**

The digist of the workflow version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

**metadata**

Metadata for the workflow version.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

**status**

The status of the workflow version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `CREATING | ACTIVE | UPDATING | DELETED | FAILED | INACTIVE`

Required: No

**type**

The type of the workflow version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Valid Values: `PRIVATE | READY2RUN`

Required: No

**versionName**

The name of the workflow version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[A-Za-z0-9][A-Za-z0-9\-\._]*`

Required: No

**workflowId**

The workflow's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 18.

Pattern: `[0-9]+`

Required: No

### See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

## Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see Signing AWS API requests in the *IAM User Guide*.

**X-Amz-Algorithm**

The hash algorithm that you used to create the request signature.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Valid Values: `AWS4-HMAC-SHA256`

Required: Conditional

**X-Amz-Credential**

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4_request"). The value is expressed in the following format: *access_key*/*YYYYMMDD*/*region*/*service*/aws4_request.

For more information, see Create a signed AWS API request in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

**X-Amz-Date**

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'T'HHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: `20120325T120000Z`.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see Elements of an AWS API request signature in the *IAM User Guide*.

Type: string

Required: Conditional

**X-Amz-Security-Token**

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS STS, see AWS services that work with IAM in the *IAM User Guide*.

Condition: If you're using temporary security credentials from AWS STS, you must include the security token.

Type: string

Required: Conditional

**X-Amz-Signature**

Specifies the hex-encoded signature that was calculated from the string to sign and the derived signing key.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

**X-Amz-SignedHeaders**

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see Create a signed AWS API request in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

# Common Error Types

This section lists common error types that this AWS service may return. Not all services return all error types listed here. For errors specific to an API action for this service, see the topic for that API action.

**AccessDeniedException**

You don't have permission to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 403

**ExpiredTokenException**

The security token included in the request has expired. Request a new security token and try again.

HTTP Status Code: 403

**IncompleteSignature**

The request signature doesn't conform to AWS standards. Verify that you're using valid AWS credentials and that your request is properly formatted. If you're using an SDK, ensure it's up to date.

HTTP Status Code: 403

**InternalFailure**

The request can't be processed right now because of an internal server issue. Try again later. If the problem persists, contact AWS Support.

HTTP Status Code: 500

**MalformedHttpRequestException**

The request body can't be processed. This typically happens when the request body can't be decompressed using the specified content encoding algorithm. Verify that the content encoding header matches the compression format used.

HTTP Status Code: 400

**NotAuthorized**

You don't have permissions to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 401

**OptInRequired**

Your AWS account needs a subscription for this service. Verify that you've enabled the service in your account.

HTTP Status Code: 403

**RequestAbortedException**

The request was aborted before a response could be returned. This typically happens when the client closes the connection.

HTTP Status Code: 400

**RequestEntityTooLargeException**

The request entity is too large. Reduce the size of the request body and try again.

HTTP Status Code: 413

**RequestTimeoutException**

The request timed out. The server didn't receive the complete request within the expected time frame. Try again.

HTTP Status Code: 408

**ServiceUnavailable**

The service is temporarily unavailable. Try again later.

HTTP Status Code: 503

**ThrottlingException**

Your request rate is too high. The AWS SDKs automatically retry requests that receive this exception. Reduce the frequency of requests.

HTTP Status Code: 400

**UnknownOperationException**

The action or operation isn't recognized. Verify that the action name is spelled correctly and that it's supported by the API version you're using.

HTTP Status Code: 404

**UnrecognizedClientException**

The X.509 certificate or AWS access key ID you provided doesn't exist in our records. Verify that you're using valid credentials and that they haven't expired.

HTTP Status Code: 403

**ValidationError**

The input doesn't meet the required format or constraints. Check that all required parameters are included and that values are valid.

HTTP Status Code: 400