aws

Data API Reference

Amazon FinSpace



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Amazon FinSpace: Data API Reference

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After careful consideration, we decided to end support for Amazon FinSpace, effective October 7, 2026. Amazon FinSpace will no longer accept new customers beginning October 7, 2025. As an existing customer with an Amazon FinSpace environment created before October 7, 2025, you can continue to use the service as normal. After October 7, 2026, you will no longer be able to use Amazon FinSpace. For more information, see Amazon FinSpace end of support.

Welcome

The Amazon FinSpace Dataset browser allows you to collect data and catalog it by relevant business concepts such as asset class, risk classification, or geographic region; which makes it easy to discover and share across your organization.

The FinSpace Dataset browser API Reference provides descriptions, syntax, and usage examples for data operations and data types for Amazon FinSpace Dataset browser. You can use the API operations to programmatically expand and manage actions that you can take inside your Dataset browser environment.

You can also use one of the AWS SDKs to access an API operation that's tailored to the programming language or platform that you're using. For more information, see AWS SDKs.

Using the dataset browser API

Use the topics in this section to understand how to use the FinSpace Dataset browser APIs.

Topics

- Accessing the FinSpace credentials
- Loading data from an Amazon S3 Bucket using the dataset browser API

Accessing the FinSpace credentials

To use the FinSpace Dataset browser API operations, you need to configure a user for programmatic access using the FinSpace web application. For more information, see Configuring a user for programmatic access using FinSpace in the *Amazon FinSpace User Guide*. There are two ways to access the API credentials.

1. **Copy the API credentials from FinSpace web application -** Use API credentials that are associated with your user profile in Dataset browser. The credentials are only valid for 60 minutes. Use the following procedure to procure short term API credentials to use with FinSpace SDK.

   a. From the Dataset browser homepage, go to the gear menu. Choose **API Credentials**.

   b. Copy the **Access Key ID, Secret Access Key, Session Token**.

   c. Use the credentials to use the FinSpace Dataset browser APIs.

```
#!/usr/bin/env python
import boto3
session = boto3.session.Session()
finSpaceClient = session.client(
    region_name='us-east-1',
    service_name='finspace-data',
    aws_access_key_id='Specify Access Key ID',
    aws_secret_access_key='Specify Secret Access Key',
    aws_session_token='Specify Session Token'
)
```

2. **Access credentials programmatically using IAM access key id and secret access key -** Your Amazon Resource Name (ARN) must be registered with your user profile in the FinSpace Dataset browser web application to use this method. Please contact your administrator to verify. You can find your FinSpace environment id from the sign-in URL that you use to login to your Dataset browser web application. For example, if your FinSpace sign-in URL is https://vs57phhvijir4kv5rf6ywt.us-east-1.amazonfinspace.com, the environment id is vs57phhvijir4kv5rf6ywt.

```
                        #!/usr/bin/env python
                        import boto3
                        REGION = "us-east-1"
                        PROD_ENVIRONMENT_ID = "Specify FinSpace environment id"
                        AWS_ACCESS_KEY_ID = "Specify AWS_ACCESS_KEY_ID" # Access
 key id of your user
                        AWS_SECRET_ACCESS_KEY = "Specify AWS_SECRET_ACCESS_KEY" #
 Secret access key for your user
                        session = boto3.Session(AWS_ACCESS_KEY_ID,
 AWS_SECRET_ACCESS_KEY, region_name=REGION)
                        client = session.client(
                            region_name=REGION,
                            service_name='finspace-data',
                            aws_access_key_id=AWS_ACCESS_KEY_ID,
                            aws_secret_access_key=AWS_SECRET_ACCESS_KEY
                        )
                        apiCredentials =
 client.get_programmatic_access_credentials(environmentId=PROD_ENVIRONMENT_ID)
                        finSpaceClient = session.client(
                            service_name='finspace-data',
                            aws_access_key_id=apiCredentials['credentials']
['AccessKeyId'],
                            aws_secret_access_key=apiCredentials['credentials']
['SecretAccessKey'],
                            aws_session_token=apiCredentials['credentials']
['SessionToken']
   )
```

Loading data from an Amazon S3 Bucket using the dataset browser API

You can load data from an external S3 bucket into your Dataset browser environment when you create or update a change set. To do this, you will first need to enable access from your Dataset browser environment to an S3 bucket where the data resides.

> **Note**
>
> In order to setup access to an S3 bucket, you must be authorized to access the FinSpace page in AWS Management Console and make changes to bucket-level permissions in Amazon S3.

Find your FinSpace Dataset browser infrastructure account number in AWS Management console

1. Sign in to your AWS account and open FinSpace from the AWS Management Console. It is located under Analytics, and you can find it by searching for *FinSpace*.
2. In FinSpace, choose **Dataset browser**.
3. In the Dataset browser page, from the list of environments, choose the environment that you want to setup to access an S3 bucket.
4. On the environment page, copy and save the **FinSpace infrastructure account** name.

Setup access for FinSpace infrastructure account in S3 bucket policy

1. Sign in to your AWS account and open Amazon S3 from the AWS Management Console. It is located under Storage, and you can find it by searching for S3.
2. Choose the bucket that you want to access from your FinSpace Dataset browser environment.
3. Set a bucket policy for the bucket with following json code. For example, if your bucket name is `example-bucket` and your FinSpace infrastructure account number is `123456789101` below would be the example policy.

   Using the above policy, you should be able to access `example-bucket` from the FinSpace environment, which is associated with the FinSpace infrastructure account number `123456789101` .

Amazon FinSpace API operations

Use this section to locate FinSpace API operations by topic.

Topics

- Operations for loading data
- Operations for accessing API credentials
- Operations for managing users and permissions

Operations for loading data

The API operations in this section control loading of data in FinSpace.

- CreateChangeset
- CreateDataset
- CreateDataView
- DeleteDataset
- GetChangeset
- GetDataset
- GetDataView
- GetWorkingLocation
- ListChangesets
- ListDatasets
- ListDataViews
- UpdateChangeset
- UpdateDataset

Operations for accessing API credentials

The API operations in this section control accessing API credentials in FinSpace.

- GetProgrammaticAccessCredentials

Operations for managing users and permissions

The API operations in this section control adding and modifying users and permission groups in FinSpace.

- AssociateUserToPermissionGroup
- CreatePermissionGroup
- CreateUser
- DeletePermissionGroup
- DisableUser
- DisassociateUserFromPermissionGroup
- EnableUser
- GetPermissionGroup
- GetUser
- ListPermissionGroups
- ListPermissionGroupsByUser
- ListUsers
- ListUsersByPermissionGroup
- ResetUserPassword
- UpdatePermissionGroup
- UpdateUser

API reference index

This section contains the API Reference documentation.

Topics

- Actions
- Data Types
- Common Error Types
- Common Parameters

Actions

The following actions are supported:

- AssociateUserToPermissionGroup
- CreateChangeset
- CreateDataset
- CreateDataView
- CreatePermissionGroup
- CreateUser
- DeleteDataset
- DeletePermissionGroup
- DisableUser
- DisassociateUserFromPermissionGroup
- EnableUser
- GetChangeset
- GetDataset
- GetDataView
- GetExternalDataViewAccessDetails
- GetPermissionGroup
- GetProgrammaticAccessCredentials
- GetUser

- GetWorkingLocation
- ListChangesets
- ListDatasets
- ListDataViews
- ListPermissionGroups
- ListPermissionGroupsByUser
- ListUsers
- ListUsersByPermissionGroup
- ResetUserPassword
- UpdateChangeset
- UpdateDataset
- UpdatePermissionGroup
- UpdateUser

AssociateUserToPermissionGroup

Adds a user to a permission group to grant permissions for actions a user can perform in FinSpace.

Request Syntax

```
POST /permission-group/permissionGroupId/users/userId HTTP/1.1
Content-type: application/json

{
   "clientToken": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

permissionGroupId

The unique identifier for the permission group.

Length Constraints: Minimum length of 1. Maximum length of 26.

Pattern: `.*\S.*`

Required: Yes

userId

The unique identifier for the user.

Length Constraints: Minimum length of 1. Maximum length of 26.

Pattern: `.*\S.*`

Required: Yes

Request Body

The request accepts the following data in JSON format.

clientToken

A token that ensures idempotency. This token expires in 10 minutes.

Type: String

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

Pattern: `.*\S.*`

Required: No

Response Syntax

```
HTTP/1.1 statusCode
```

Response Elements

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

statusCode

The returned status code of the response.

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 conflicts with an existing resource.

HTTP Status Code: 409

InternalServerException

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

ResourceNotFoundException

One or more resources can't be found.

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

CreateChangeset

Creates a new Changeset in a FinSpace Dataset.

Request Syntax

```
POST /datasets/datasetId/changesetsv2 HTTP/1.1
Content-type: application/json

{
   "changeType": "string",
   "clientToken": "string",
   "formatParams": {
      "string" : "string"
   },
   "sourceParams": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request uses the following URI parameters.

datasetId

The unique identifier for the FinSpace Dataset where the Changeset will be created.

Length Constraints: Minimum length of 1. Maximum length of 26.

Required: Yes

Request Body

The request accepts the following data in JSON format.

changeType

The option to indicate how a Changeset will be applied to a Dataset.

- REPLACE – Changeset will be considered as a replacement to all prior loaded Changesets.

- APPEND – Changeset will be considered as an addition to the end of all prior loaded Changesets.
- MODIFY – Changeset is considered as a replacement to a specific prior ingested Changeset.

Type: String

Valid Values: REPLACE | APPEND | MODIFY

Required: Yes

formatParams

Options that define the structure of the source file(s) including the format type (formatType), header row (withHeader), data separation character (separator) and the type of compression (compression).

formatType is a required attribute and can have the following values:

- PARQUET – Parquet source file format.
- CSV – CSV source file format.
- JSON – JSON source file format.
- XML – XML source file format.

Here is an example of how you could specify the formatParams:

```
"formatParams": { "formatType": "CSV", "withHeader": "true",
"separator": ",", "compression":"None" }
```

Note that if you only provide formatType as CSV, the rest of the attributes will automatically default to CSV values as following:

```
{ "withHeader": "true", "separator": "," }
```

For more information about supported file formats, see Supported Data Types and File Formats in the FinSpace User Guide.

Type: String to string map

Key Length Constraints: Maximum length of 128.

Key Pattern: [\s\S]*\S[\s\S]*

Value Length Constraints: Maximum length of 1000.

Value Pattern: `[\s\S]*\S[\s\S]*`

Required: Yes

sourceParams

Options that define the location of the data being ingested (`s3SourcePath`) and the source of the changeset (`sourceType`).

Both `s3SourcePath` and `sourceType` are required attributes.

Here is an example of how you could specify the `sourceParams`:

```
"sourceParams": { "s3SourcePath": "s3://finspace-landing-us-east-2-
bk7gcfvitndqa6ebnvys4d/scratch/wr5hh8pwkpqqkxa4sxrmcw/ingestion/
equity.csv", "sourceType": "S3" }
```

The S3 path that you specify must allow the FinSpace role access. To do that, you first need to configure the IAM policy on S3 bucket. For more information, see Loading data from an Amazon S3 Bucket using the FinSpace API section.

Type: String to string map

Key Length Constraints: Maximum length of 128.

Key Pattern: `[\s\S]*\S[\s\S]*`

Value Length Constraints: Maximum length of 1000.

Value Pattern: `[\s\S]*\S[\s\S]*`

Required: Yes

clientToken

A token that ensures idempotency. This token expires in 10 minutes.

Type: String

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

Pattern: `.*\S.*`

Required: No

Response Syntax

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

{
   "changesetId": "string",
   "datasetId": "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.

changesetId

The unique identifier of the Changeset that is created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 26.

datasetId

The unique identifier for the FinSpace Dataset where the Changeset is created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 26.

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 conflicts with an existing resource.

HTTP Status Code: 409

InternalServerException

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

LimitExceededException

A limit has exceeded.

HTTP Status Code: 400

ResourceNotFoundException

One or more resources can't be found.

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

CreateDataset

Creates a new FinSpace Dataset.

Request Syntax

```
POST /datasetsv2 HTTP/1.1
Content-type: application/json

{
   "alias": "string",
   "clientToken": "string",
   "datasetDescription": "string",
   "datasetTitle": "string",
   "kind": "string",
   "ownerInfo": {
      "email": "string",
      "name": "string",
      "phoneNumber": "string"
   },
   "permissionGroupParams": {
      "datasetPermissions": [
         {
            "permission": "string"
         }
      ],
      "permissionGroupId": "string"
   },
   "schemaDefinition": {
      "tabularSchemaConfig": {
         "columns": [
            {
               "columnDescription": "string",
               "columnName": "string",
               "dataType": "string"
            }
         ],
         "primaryKeyColumns": [ "string" ]
      }
   }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

datasetTitle

Display title for a FinSpace Dataset.

Type: String

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

Pattern: `.*\S.*`

Required: Yes

kind

The format in which Dataset data is structured.

- `TABULAR` – Data is structured in a tabular format.
- `NON_TABULAR` – Data is structured in a non-tabular format.

Type: String

Valid Values: `TABULAR | NON_TABULAR`

Required: Yes

permissionGroupParams

Permission group parameters for Dataset permissions.

Type: PermissionGroupParams object

Required: Yes

alias

The unique resource identifier for a Dataset.

Type: String

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

Pattern: `^alias\/\S+`

Required: No

clientToken

A token that ensures idempotency. This token expires in 10 minutes.

Type: String

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

Pattern: `.*\S.*`

Required: No

datasetDescription

Description of a Dataset.

Type: String

Length Constraints: Maximum length of 1000.

Pattern: `[\s\S]*`

Required: No

ownerInfo

Contact information for a Dataset owner.

Type: DatasetOwnerInfo object

Required: No

schemaDefinition

Definition for a schema on a tabular Dataset.

Type: SchemaUnion object

Required: No

Response Syntax

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

{
   "datasetId": "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.

datasetId

The unique identifier for the created Dataset.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 26.

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 conflicts with an existing resource.

HTTP Status Code: 409

InternalServerException

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

LimitExceededException

A limit has exceeded.

HTTP Status Code: 400

ResourceNotFoundException

One or more resources can't be found.

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:

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- 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

CreateDataView

Creates a Dataview for a Dataset.

Request Syntax

```
POST /datasets/datasetId/dataviewsv2 HTTP/1.1
Content-type: application/json

{
   "asOfTimestamp": number,
   "autoUpdate": boolean,
   "clientToken": "string",
   "destinationTypeParams": {
      "destinationType": "string",
      "s3DestinationExportFileFormat": "string",
      "s3DestinationExportFileFormatOptions": {
         "string" : "string"
      }
   },
   "partitionColumns": [ "string" ],
   "sortColumns": [ "string" ]
}
```

URI Request Parameters

The request uses the following URI parameters.

datasetId

The unique Dataset identifier that is used to create a Dataview.

Length Constraints: Minimum length of 1. Maximum length of 26.

Required: Yes

Request Body

The request accepts the following data in JSON format.

destinationTypeParams

Options that define the destination type for the Dataview.

Type: DataViewDestinationTypeParams object

Required: Yes

asOfTimestamp

Beginning time to use for the Dataview. The value is determined as epoch time in milliseconds. For example, the value for Monday, November 1, 2021 12:00:00 PM UTC is specified as 1635768000000.

Type: Long

Required: No

autoUpdate

Flag to indicate Dataview should be updated automatically.

Type: Boolean

Required: No

clientToken

A token that ensures idempotency. This token expires in 10 minutes.

Type: String

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

Pattern: `.*\S.*`

Required: No

partitionColumns

Ordered set of column names used to partition data.

Type: Array of strings

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

Pattern: `[\s\S]*\S[\s\S]*`

Required: No

sortColumns

Columns to be used for sorting the data.

Type: Array of strings

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

Pattern: `[\s\S]*\S[\s\S]*`

Required: No

Response Syntax

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

{
   "datasetId": "string",
   "dataViewId": "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.

datasetId

The unique identifier of the Dataset used for the Dataview.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 26.

dataViewId

The unique identifier for the created Dataview.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 26.

Errors

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

ConflictException

The request conflicts with an existing resource.

HTTP Status Code: 409

InternalServerException

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

LimitExceededException

A limit has exceeded.

HTTP Status Code: 400

ResourceNotFoundException

One or more resources can't be found.

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
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- 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

CreatePermissionGroup

Creates a group of permissions for various actions that a user can perform in FinSpace.

Request Syntax

```
POST /permission-group HTTP/1.1
Content-type: application/json

{
   "applicationPermissions": [ "string" ],
   "clientToken": "string",
   "description": "string",
   "name": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

applicationPermissions

The option to indicate FinSpace application permissions that are granted to a specific group.

> **Important**
>
> When assigning application permissions, be aware that the permission `ManageUsersAndGroups` allows users to grant themselves or others access to any functionality in their FinSpace environment's application. It should only be granted to trusted users.

- `CreateDataset` – Group members can create new datasets.
- `ManageClusters` – Group members can manage Apache Spark clusters from FinSpace notebooks.

- `ManageUsersAndGroups` – Group members can manage users and permission groups. This is a privileged permission that allows users to grant themselves or others access to any functionality in the application. It should only be granted to trusted users.
- `ManageAttributeSets` – Group members can manage attribute sets.
- `ViewAuditData` – Group members can view audit data.
- `AccessNotebooks` – Group members will have access to FinSpace notebooks.
- `GetTemporaryCredentials` – Group members can get temporary API credentials.

Type: Array of strings

Valid Values: `CreateDataset | ManageClusters | ManageUsersAndGroups | ManageAttributeSets | ViewAuditData | AccessNotebooks | GetTemporaryCredentials`

Required: Yes

name

The name of the permission group.

Type: String

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

Pattern: `.*\S.*`

Required: Yes

clientToken

A token that ensures idempotency. This token expires in 10 minutes.

Type: String

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

Pattern: `.*\S.*`

Required: No

description

A brief description for the permission group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4000.

Pattern: `[\s\S]*`

Required: No

Response Syntax

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

{
   "permissionGroupId": "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.

permissionGroupId

The unique identifier for the permission group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 26.

Pattern: `.*\S.*`

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 conflicts with an existing resource.

HTTP Status Code: 409

InternalServerException

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

LimitExceededException

A limit has exceeded.

HTTP Status Code: 400

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 .NET V4
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- 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

CreateUser

Creates a new user in FinSpace.

Request Syntax

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

{
   "ApiAccess": "string",
   "apiAccessPrincipalArn": "string",
   "clientToken": "string",
   "emailAddress": "string",
   "firstName": "string",
   "lastName": "string",
   "type": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

emailAddress

The email address of the user that you want to register. The email address serves as a uniquer identifier for each user and cannot be changed after it's created.

Type: String

Length Constraints: Minimum length of 4. Maximum length of 320.

Pattern: `[A-Za-z0-9._%+-]+@[A-Za-z0-9.-]+\.[A-Za-z]{2,4}`

Required: Yes

type

The option to indicate the type of user. Use one of the following options to specify this parameter:

- SUPER_USER – A user with permission to all the functionality and data in FinSpace.
- APP_USER – A user with specific permissions in FinSpace. The users are assigned permissions by adding them to a permission group.

Type: String

Valid Values: `SUPER_USER | APP_USER`

Required: Yes

ApiAccess

The option to indicate whether the user can use the `GetProgrammaticAccessCredentials` API to obtain credentials that can then be used to access other FinSpace Data API operations.

- `ENABLED` – The user has permissions to use the APIs.
- `DISABLED` – The user does not have permissions to use any APIs.

Type: String

Valid Values: `ENABLED | DISABLED`

Required: No

apiAccessPrincipalArn

The ARN identifier of an AWS user or role that is allowed to call the `GetProgrammaticAccessCredentials` API to obtain a credentials token for a specific FinSpace user. This must be an IAM role within your FinSpace account.

Type: String

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

Pattern: `^arn:aws[a-z\-]*:iam::\d{12}:role/?[a-zA-Z_0-9+=,.@\-_/]+$`

Required: No

clientToken

A token that ensures idempotency. This token expires in 10 minutes.

Type: String

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

Pattern: `.*\S.*`

Required: No

firstName

The first name of the user that you want to register.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 50.

Pattern: `.*\S.*`

Required: No

lastName

The last name of the user that you want to register.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 50.

Pattern: `.*\S.*`

Required: No

Response Syntax

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

{
   "userId": "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.

userId

The unique identifier for the user.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 26.

Pattern: `.*\S.*`

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 conflicts with an existing resource.

HTTP Status Code: 409

InternalServerException

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

LimitExceededException

A limit has exceeded.

HTTP Status Code: 400

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

DeleteDataset

Deletes a FinSpace Dataset.

Request Syntax

```
DELETE /datasetsv2/datasetId?clientToken=clientToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

clientToken

A token that ensures idempotency. This token expires in 10 minutes.

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

Pattern: `.*\S.*`

datasetId

The unique identifier of the Dataset to be deleted.

Length Constraints: Minimum length of 1. Maximum length of 26.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "datasetId": "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.

datasetId

The unique identifier for the deleted Dataset.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 26.

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 conflicts with an existing resource.

HTTP Status Code: 409

InternalServerException

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

LimitExceededException

A limit has exceeded.

HTTP Status Code: 400

ResourceNotFoundException

One or more resources can't be found.

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

DeletePermissionGroup

Deletes a permission group. This action is irreversible.

Request Syntax

```
DELETE /permission-group/permissionGroupId?clientToken=clientToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

clientToken

A token that ensures idempotency. This token expires in 10 minutes.

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

Pattern: `.*\S.*`

permissionGroupId

The unique identifier for the permission group that you want to delete.

Length Constraints: Minimum length of 1. Maximum length of 26.

Pattern: `.*\S.*`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "permissionGroupId": "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.

permissionGroupId

The unique identifier for the deleted permission group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 26.

Pattern: `.*\S.*`

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 conflicts with an existing resource.

HTTP Status Code: 409

InternalServerException

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

LimitExceededException

A limit has exceeded.

HTTP Status Code: 400

ResourceNotFoundException

One or more resources can't be found.

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

DisableUser

Denies access to the FinSpace web application and API for the specified user.

Request Syntax

```
POST /user/userId/disable HTTP/1.1
Content-type: application/json

{
   "clientToken": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

userId

The unique identifier for the user that you want to deactivate.

Length Constraints: Minimum length of 1. Maximum length of 26.

Pattern: `.*\S.*`

Required: Yes

Request Body

The request accepts the following data in JSON format.

clientToken

A token that ensures idempotency. This token expires in 10 minutes.

Type: String

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

Pattern: `.*\S.*`

Required: No

Response Syntax

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

{
   "userId": "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.

userId

The unique identifier for the deactivated user.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 26.

Pattern: `.*\S.*`

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 conflicts with an existing resource.

HTTP Status Code: 409

InternalServerException

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

ResourceNotFoundException

One or more resources can't be found.

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

DisassociateUserFromPermissionGroup

Removes a user from a permission group.

Request Syntax

```
DELETE /permission-group/permissionGroupId/users/userId?clientToken=clientToken
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

clientToken

A token that ensures idempotency. This token expires in 10 minutes.

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

Pattern: `.*\S.*`

permissionGroupId

The unique identifier for the permission group.

Length Constraints: Minimum length of 1. Maximum length of 26.

Pattern: `.*\S.*`

Required: Yes

userId

The unique identifier for the user.

Length Constraints: Minimum length of 1. Maximum length of 26.

Pattern: `.*\S.*`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 statusCode
```

Response Elements

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

statusCode

The returned status code of the response.

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 conflicts with an existing resource.

HTTP Status Code: 409

InternalServerException

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

ResourceNotFoundException

One or more resources can't be found.

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

EnableUser

Allows the specified user to access the FinSpace web application and API.

Request Syntax

```
POST /user/userId/enable HTTP/1.1
Content-type: application/json

{
   "clientToken": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

userId

The unique identifier for the user that you want to activate.

Length Constraints: Minimum length of 1. Maximum length of 26.

Pattern: `.*\S.*`

Required: Yes

Request Body

The request accepts the following data in JSON format.

clientToken

A token that ensures idempotency. This token expires in 10 minutes.

Type: String

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

Pattern: `.*\S.*`

Required: No

Response Syntax

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

{
   "userId": "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.

userId

The unique identifier for the active user.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 26.

Pattern: `.*\S.*`

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 conflicts with an existing resource.

HTTP Status Code: 409

InternalServerException

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

LimitExceededException

A limit has exceeded.

HTTP Status Code: 400

ResourceNotFoundException

One or more resources can't be found.

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

GetChangeset

Get information about a Changeset.

Request Syntax

```
GET /datasets/datasetId/changesetsv2/changesetId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

changesetId

The unique identifier of the Changeset for which to get data.

Length Constraints: Minimum length of 1. Maximum length of 26.

Required: Yes

datasetId

The unique identifier for the FinSpace Dataset where the Changeset is created.

Length Constraints: Minimum length of 1. Maximum length of 26.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "activeFromTimestamp": number,
   "activeUntilTimestamp": number,
   "changesetArn": "string",
```

```
   "changesetId": "string",
   "changeType": "string",
   "createTime": number,
   "datasetId": "string",
   "errorInfo": {
      "errorCategory": "string",
      "errorMessage": "string"
   },
   "formatParams": {
      "string" : "string"
   },
   "sourceParams": {
      "string" : "string"
   },
   "status": "string",
   "updatedByChangesetId": "string",
   "updatesChangesetId": "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.

activeFromTimestamp

Beginning time from which the Changeset is active. The value is determined as epoch time in milliseconds. For example, the value for Monday, November 1, 2021 12:00:00 PM UTC is specified as 1635768000000.

Type: Long

activeUntilTimestamp

Time until which the Changeset is active. The value is determined as epoch time in milliseconds. For example, the value for Monday, November 1, 2021 12:00:00 PM UTC is specified as 1635768000000.

Type: Long

changesetArn

The ARN identifier of the Changeset.

Type: String

changesetId

The unique identifier for a Changeset.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 26.

changeType

Type that indicates how a Changeset is applied to a Dataset.

- `REPLACE` – Changeset is considered as a replacement to all prior loaded Changesets.
- `APPEND` – Changeset is considered as an addition to the end of all prior loaded Changesets.
- `MODIFY` – Changeset is considered as a replacement to a specific prior ingested Changeset.

Type: String

Valid Values: `REPLACE | APPEND | MODIFY`

createTime

The timestamp at which the Changeset was created in FinSpace. The value is determined as epoch time in milliseconds. For example, the value for Monday, November 1, 2021 12:00:00 PM UTC is specified as 1635768000000.

Type: Long

datasetId

The unique identifier for the FinSpace Dataset where the Changeset is created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 26.

errorInfo

The structure with error messages.

Type: ChangesetErrorInfo object

formatParams

Structure of the source file(s).

Type: String to string map

Key Length Constraints: Maximum length of 128.

Key Pattern: `[\s\S]*\S[\s\S]*`

Value Length Constraints: Maximum length of 1000.

Value Pattern: `[\s\S]*\S[\s\S]*`

sourceParams

Options that define the location of the data being ingested.

Type: String to string map

Key Length Constraints: Maximum length of 128.

Key Pattern: `[\s\S]*\S[\s\S]*`

Value Length Constraints: Maximum length of 1000.

Value Pattern: `[\s\S]*\S[\s\S]*`

status

The status of Changeset creation operation.

Type: String

Valid Values: `PENDING | FAILED | SUCCESS | RUNNING | STOP_REQUESTED`

updatedByChangesetId

The unique identifier of the updated Changeset.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 26.

updatesChangesetId

The unique identifier of the Changeset that is being updated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 26.

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 conflicts with an existing resource.

HTTP Status Code: 409

InternalServerException

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

ResourceNotFoundException

One or more resources can't be found.

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

GetDataset

Returns information about a Dataset.

Request Syntax

```
GET /datasetsv2/datasetId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

datasetId

The unique identifier for a Dataset.

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

Pattern: `[\s\S]*\S[\s\S]*`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "alias": "string",
   "createTime": number,
   "datasetArn": "string",
   "datasetDescription": "string",
   "datasetId": "string",
   "datasetTitle": "string",
   "kind": "string",
   "lastModifiedTime": number,
   "schemaDefinition": {
      "tabularSchemaConfig": {
```

```
         "columns": [
            {
               "columnDescription": "string",
               "columnName": "string",
               "dataType": "string"
            }
         ],
         "primaryKeyColumns": [ "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.

alias

The unique resource identifier for a Dataset.

Type: String

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

Pattern: `^alias\/\S+`

createTime

The timestamp at which the Dataset was created in FinSpace. The value is determined as epoch time in milliseconds. For example, the value for Monday, November 1, 2021 12:00:00 PM UTC is specified as 1635768000000.

Type: Long

datasetArn

The ARN identifier of the Dataset.

Type: String

datasetDescription

A description of the Dataset.

Type: String

Length Constraints: Maximum length of 1000.

Pattern: `[\s\S]*`

datasetId

The unique identifier for a Dataset.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 26.

datasetTitle

Display title for a Dataset.

Type: String

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

Pattern: `.*\S.*`

kind

The format in which Dataset data is structured.

- `TABULAR` – Data is structured in a tabular format.
- `NON_TABULAR` – Data is structured in a non-tabular format.

Type: String

Valid Values: `TABULAR | NON_TABULAR`

lastModifiedTime

The last time that the Dataset was modified. The value is determined as epoch time in milliseconds. For example, the value for Monday, November 1, 2021 12:00:00 PM UTC is specified as 1635768000000.

Type: Long

schemaDefinition

Definition for a schema on a tabular Dataset.

Type: SchemaUnion object

status

Status of the Dataset creation.

- PENDING – Dataset is pending creation.
- FAILED – Dataset creation has failed.
- SUCCESS – Dataset creation has succeeded.
- RUNNING – Dataset creation is running.

Type: String

Valid Values: PENDING | FAILED | SUCCESS | RUNNING

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 conflicts with an existing resource.

HTTP Status Code: 409

InternalServerException

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

ResourceNotFoundException

One or more resources can't be found.

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

GetDataView

Gets information about a Dataview.

Request Syntax

```
GET /datasets/datasetId/dataviewsv2/dataviewId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

datasetId

The unique identifier for the Dataset used in the Dataview.

Length Constraints: Minimum length of 1. Maximum length of 26.

Required: Yes

dataviewId

The unique identifier for the Dataview.

Length Constraints: Minimum length of 1. Maximum length of 26.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "asOfTimestamp": number,
   "autoUpdate": boolean,
   "createTime": number,
   "datasetId": "string",
```

```
   "dataViewArn": "string",
   "dataViewId": "string",
   "destinationTypeParams": {
      "destinationType": "string",
      "s3DestinationExportFileFormat": "string",
      "s3DestinationExportFileFormatOptions": {
         "string" : "string"
      }
   },
   "errorInfo": {
      "errorCategory": "string",
      "errorMessage": "string"
   },
   "lastModifiedTime": number,
   "partitionColumns": [ "string" ],
   "sortColumns": [ "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.

asOfTimestamp

Time range to use for the Dataview. The value is determined as epoch time in milliseconds. For example, the value for Monday, November 1, 2021 12:00:00 PM UTC is specified as 1635768000000.

Type: Long

autoUpdate

Flag to indicate Dataview should be updated automatically.

Type: Boolean

createTime

The timestamp at which the Dataview was created in FinSpace. The value is determined as epoch time in milliseconds. For example, the value for Monday, November 1, 2021 12:00:00 PM UTC is specified as 1635768000000.

Type: Long

datasetId

The unique identifier for the Dataset used in the Dataview.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 26.

dataViewArn

The ARN identifier of the Dataview.

Type: String

dataViewId

The unique identifier for the Dataview.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 26.

destinationTypeParams

Options that define the destination type for the Dataview.

Type: DataViewDestinationTypeParams object

errorInfo

Information about an error that occurred for the Dataview.

Type: DataViewErrorInfo object

lastModifiedTime

The last time that a Dataview was modified. The value is determined as epoch time in milliseconds. For example, the value for Monday, November 1, 2021 12:00:00 PM UTC is specified as 1635768000000.

Type: Long

partitionColumns

Ordered set of column names used to partition data.

Type: Array of strings

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

Pattern: `[\s\S]*\S[\s\S]*`

sortColumns

Columns to be used for sorting the data.

Type: Array of strings

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

Pattern: `[\s\S]*\S[\s\S]*`

status

The status of a Dataview creation.

- `RUNNING` – Dataview creation is running.
- `STARTING` – Dataview creation is starting.
- `FAILED` – Dataview creation has failed.
- `CANCELLED` – Dataview creation has been cancelled.
- `TIMEOUT` – Dataview creation has timed out.
- `SUCCESS` – Dataview creation has succeeded.
- `PENDING` – Dataview creation is pending.
- `FAILED_CLEANUP_FAILED` – Dataview creation failed and resource cleanup failed.

Type: String

Valid Values: `RUNNING | STARTING | FAILED | CANCELLED | TIMEOUT | SUCCESS | PENDING | FAILED_CLEANUP_FAILED`

Errors

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

ConflictException

The request conflicts with an existing resource.

HTTP Status Code: 409

InternalServerException

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

ResourceNotFoundException

One or more resources can't be found.

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

GetExternalDataViewAccessDetails

Returns the credentials to access the external Dataview from an S3 location. To call this API:

- You must retrieve the programmatic credentials.
- You must be a member of a FinSpace user group, where the dataset that you want to access has `Read Dataset Data` permissions.

Request Syntax

```
POST /datasets/datasetId/dataviewsv2/dataviewId/external-access-details HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

datasetId

The unique identifier for the Dataset.

Length Constraints: Minimum length of 1. Maximum length of 26.

Required: Yes

dataviewId

The unique identifier for the Dataview that you want to access.

Length Constraints: Minimum length of 1. Maximum length of 26.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

```
{
   "credentials": {
      "accessKeyId": "string",
      "expiration": number,
      "secretAccessKey": "string",
      "sessionToken": "string"
   },
   "s3Location": {
      "bucket": "string",
      "key": "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.

credentials

The credentials required to access the external Dataview from the S3 location.

Type: AwsCredentials object

s3Location

The location where the external Dataview is stored.

Type: S3Location 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

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

ResourceNotFoundException

One or more resources can't be found.

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

GetPermissionGroup

Retrieves the details of a specific permission group.

Request Syntax

```
GET /permission-group/permissionGroupId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

permissionGroupId

The unique identifier for the permission group.

Length Constraints: Minimum length of 1. Maximum length of 26.

Pattern: `.*\S.*`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "permissionGroup": {
      "applicationPermissions": [ "string" ],
      "createTime": number,
      "description": "string",
      "lastModifiedTime": number,
      "membershipStatus": "string",
      "name": "string",
      "permissionGroupId": "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.

permissionGroup

The structure for a permission group.

Type: PermissionGroup 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

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

ResourceNotFoundException

One or more resources can't be found.

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

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

GetProgrammaticAccessCredentials

Request programmatic credentials to use with FinSpace SDK. For more information, see Step 2. Access credentials programmatically using IAM access key id and secret access key.

Request Syntax

```
GET /credentials/programmatic?
durationInMinutes=durationInMinutes&environmentId=environmentId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

durationInMinutes

The time duration in which the credentials remain valid.

Valid Range: Minimum value of 1. Maximum value of 60.

environmentId

The FinSpace environment identifier.

Length Constraints: Minimum length of 1. Maximum length of 26.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "credentials": {
      "accessKeyId": "string",
      "secretAccessKey": "string",
```

```
      "sessionToken": "string"
   },
   "durationInMinutes": 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.

credentials

Returns the programmatic credentials.

Type: Credentials object

durationInMinutes

Returns the duration in which the credentials will remain valid.

Type: Long

Valid Range: Minimum value of 1. Maximum value of 60.

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

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

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

GetUser

Retrieves details for a specific user.

Request Syntax

```
GET /user/userId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

userId

The unique identifier of the user to get data for.

Length Constraints: Minimum length of 1. Maximum length of 26.

Pattern: `.*\S.*`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "apiAccess": "string",
   "apiAccessPrincipalArn": "string",
   "createTime": number,
   "emailAddress": "string",
   "firstName": "string",
   "lastDisabledTime": number,
   "lastEnabledTime": number,
   "lastLoginTime": number,
   "lastModifiedTime": number,
   "lastName": "string",
```

```
   "status": "string",
   "type": "string",
   "userId": "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.

apiAccess

Indicates whether the user can use the `GetProgrammaticAccessCredentials` API to obtain credentials that can then be used to access other FinSpace Data API operations.

- `ENABLED` – The user has permissions to use the APIs.
- `DISABLED` – The user does not have permissions to use any APIs.

Type: String

Valid Values: `ENABLED | DISABLED`

apiAccessPrincipalArn

The ARN identifier of an AWS user or role that is allowed to call the `GetProgrammaticAccessCredentials` API to obtain a credentials token for a specific FinSpace user. This must be an IAM role within your FinSpace account.

Type: String

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

Pattern: `^arn:aws[a-z\-]*:iam::\d{12}:role/?[a-zA-Z_0-9+=,.@\-_/]+$`

createTime

The timestamp at which the user was created in FinSpace. The value is determined as epoch time in milliseconds.

Type: Long

emailAddress

The email address that is associated with the user.

Type: String

Length Constraints: Minimum length of 4. Maximum length of 320.

Pattern: `[A-Za-z0-9._%+-]+@[A-Za-z0-9.-]+\.[A-Za-z]{2,4}`

firstName

The first name of the user.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 50.

Pattern: `.*\S.*`

lastDisabledTime

Describes the last time the user was deactivated. The value is determined as epoch time in milliseconds.

Type: Long

lastEnabledTime

Describes the last time the user was activated. The value is determined as epoch time in milliseconds.

Type: Long

lastLoginTime

Describes the last time that the user logged into their account. The value is determined as epoch time in milliseconds.

Type: Long

lastModifiedTime

Describes the last time the user details were updated. The value is determined as epoch time in milliseconds.

Type: Long

lastName

The last name of the user.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 50.

Pattern: `.*\S.*`

status

The current status of the user.

- `CREATING` – The creation is in progress.
- `ENABLED` – The user is created and is currently active.
- `DISABLED` – The user is currently inactive.

Type: String

Valid Values: `CREATING | ENABLED | DISABLED`

type

Indicates the type of user.

- `SUPER_USER` – A user with permission to all the functionality and data in FinSpace.
- `APP_USER` – A user with specific permissions in FinSpace. The users are assigned permissions by adding them to a permission group.

Type: String

Valid Values: `SUPER_USER | APP_USER`

userId

The unique identifier for the user that is retrieved.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 26.

Pattern: `.*\S.*`

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

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

ResourceNotFoundException

One or more resources can't be found.

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:

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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

GetWorkingLocation

A temporary Amazon S3 location, where you can copy your files from a source location to stage or use as a scratch space in FinSpace notebook.

Request Syntax

```
POST /workingLocationV1 HTTP/1.1
Content-type: application/json

{
   "locationType": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

locationType

Specify the type of the working location.

- SAGEMAKER – Use the Amazon S3 location as a temporary location to store data content when working with FinSpace Notebooks that run on SageMaker studio.
- INGESTION – Use the Amazon S3 location as a staging location to copy your data content and then use the location with the Changeset creation operation.

Type: String

Valid Values: INGESTION | SAGEMAKER

Required: No

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "s3Bucket": "string",
   "s3Path": "string",
   "s3Uri": "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.

s3Bucket

Returns the Amazon S3 bucket name for the working location.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `.*\S.*`

s3Path

Returns the Amazon S3 Path for the working location.

Type: String

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

Pattern: `.*\S.*`

s3Uri

Returns the Amazon S3 URI for the working location.

Type: String

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

Pattern: `.*\S.*`

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

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

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 .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

ListChangesets

Lists the FinSpace Changesets for a Dataset.

Request Syntax

```
GET /datasets/datasetId/changesetsv2?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

datasetId

The unique identifier for the FinSpace Dataset to which the Changeset belongs.

Length Constraints: Minimum length of 1. Maximum length of 26.

Required: Yes

maxResults

The maximum number of results per page.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

A token that indicates where a results page should begin.

Request Body

The request does not have a request body.

Response Syntax

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

{
   "changesets": [
      {
         "activeFromTimestamp": number,
         "activeUntilTimestamp": number,
```

```
         "changesetArn": "string",
         "changesetId": "string",
         "changeType": "string",
         "createTime": number,
         "datasetId": "string",
         "errorInfo": {
            "errorCategory": "string",
            "errorMessage": "string"
         },
         "formatParams": {
            "string" : "string"
         },
         "sourceParams": {
            "string" : "string"
         },
         "status": "string",
         "updatedByChangesetId": "string",
         "updatesChangesetId": "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.

changesets

List of Changesets found.

Type: Array of ChangesetSummary objects

nextToken

A token that indicates where a results page should begin.

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

ConflictException

The request conflicts with an existing resource.

HTTP Status Code: 409

InternalServerException

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

ResourceNotFoundException

One or more resources can't be found.

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:

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- 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

ListDatasets

Lists all of the active Datasets that a user has access to.

Request Syntax

```
GET /datasetsv2?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results per page.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

A token that indicates where a results page should begin.

Request Body

The request does not have a request body.

Response Syntax

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

{
   "datasets": [
      {
         "alias": "string",
         "createTime": number,
         "datasetArn": "string",
         "datasetDescription": "string",
         "datasetId": "string",
         "datasetTitle": "string",
         "kind": "string",
         "lastModifiedTime": number,
```

```
         "ownerInfo": {
            "email": "string",
            "name": "string",
            "phoneNumber": "string"
         },
         "schemaDefinition": {
            "tabularSchemaConfig": {
               "columns": [
                  {
                     "columnDescription": "string",
                     "columnName": "string",
                     "dataType": "string"
                  }
               ],
               "primaryKeyColumns": [ "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.

datasets

List of Datasets.

Type: Array of Dataset objects

nextToken

A token that indicates where a results page should begin.

Type: String

Errors

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

ConflictException

The request conflicts with an existing resource.

HTTP Status Code: 409

InternalServerException

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

ResourceNotFoundException

One or more resources can't be found.

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:

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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

ListDataViews

Lists all available Dataviews for a Dataset.

Request Syntax

```
GET /datasets/datasetId/dataviewsv2?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

datasetId

The unique identifier of the Dataset for which to retrieve Dataviews.

Length Constraints: Minimum length of 1. Maximum length of 26.

Required: Yes

maxResults

The maximum number of results per page.

Valid Range: Minimum value of 1. Maximum value of 100.

nextToken

A token that indicates where a results page should begin.

Request Body

The request does not have a request body.

Response Syntax

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

{
   "dataViews": [
```

```
      {
         "asOfTimestamp": number,
         "autoUpdate": boolean,
         "createTime": number,
         "datasetId": "string",
         "dataViewArn": "string",
         "dataViewId": "string",
         "destinationTypeProperties": {
            "destinationType": "string",
            "s3DestinationExportFileFormat": "string",
            "s3DestinationExportFileFormatOptions": {
               "string" : "string"
            }
         },
         "errorInfo": {
            "errorCategory": "string",
            "errorMessage": "string"
         },
         "lastModifiedTime": number,
         "partitionColumns": [ "string" ],
         "sortColumns": [ "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.

dataViews

A list of Dataviews.

Type: Array of DataViewSummary objects

nextToken

A token that indicates where a results page should begin.

Type: String

Errors

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

ConflictException

The request conflicts with an existing resource.

HTTP Status Code: 409

InternalServerException

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

ResourceNotFoundException

One or more resources can't be found.

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:

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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

ListPermissionGroups

Lists all available permission groups in FinSpace.

Request Syntax

```
GET /permission-group?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results per page.

Valid Range: Minimum value of 1. Maximum value of 100.

Required: Yes

nextToken

A token that indicates where a results page should begin.

Request Body

The request does not have a request body.

Response Syntax

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

{
   "nextToken": "string",
   "permissionGroups": [
      {
         "applicationPermissions": [ "string" ],
         "createTime": number,
         "description": "string",
         "lastModifiedTime": number,
         "membershipStatus": "string",
```

```
            "name": "string",
            "permissionGroupId": "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 token that indicates where a results page should begin.

Type: String

permissionGroups

A list of all the permission groups.

Type: Array of PermissionGroup 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

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

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

ListPermissionGroupsByUser

Lists all the permission groups that are associated with a specific user.

Request Syntax

```
GET /user/userId/permission-groups?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results per page.

Valid Range: Minimum value of 1. Maximum value of 100.

Required: Yes

nextToken

A token that indicates where a results page should begin.

userId

The unique identifier for the user.

Length Constraints: Minimum length of 1. Maximum length of 26.

Pattern: `.*\S.*`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

```
{
   "nextToken": "string",
   "permissionGroups": [
      {
         "membershipStatus": "string",
         "name": "string",
         "permissionGroupId": "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 token that indicates where a results page should begin.

Type: String

permissionGroups

A list of returned permission groups.

Type: Array of PermissionGroupByUser 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

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

ResourceNotFoundException

One or more resources can't be found.

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:

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- 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

ListUsers

Lists all available users in FinSpace.

Request Syntax

```
GET /user?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results per page.

Valid Range: Minimum value of 1. Maximum value of 100.

Required: Yes

nextToken

A token that indicates where a results page should begin.

Request Body

The request does not have a request body.

Response Syntax

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

{
   "nextToken": "string",
   "users": [
      {
         "apiAccess": "string",
         "apiAccessPrincipalArn": "string",
         "createTime": number,
         "emailAddress": "string",
         "firstName": "string",
```

```
            "lastDisabledTime": number,
            "lastEnabledTime": number,
            "lastLoginTime": number,
            "lastModifiedTime": number,
            "lastName": "string",
            "status": "string",
            "type": "string",
            "userId": "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 token that indicates where a results page should begin.

Type: String

users

A list of all the users.

Type: Array of User 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

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

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 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

ListUsersByPermissionGroup

Lists details of all the users in a specific permission group.

Request Syntax

```
GET /permission-group/permissionGroupId/users?maxResults=maxResults&nextToken=nextToken
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results per page.

Valid Range: Minimum value of 1. Maximum value of 100.

Required: Yes

nextToken

A token that indicates where a results page should begin.

permissionGroupId

The unique identifier for the permission group.

Length Constraints: Minimum length of 1. Maximum length of 26.

Pattern: `.*\S.*`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

```
{
   "nextToken": "string",
   "users": [
      {
         "apiAccess": "string",
         "apiAccessPrincipalArn": "string",
         "emailAddress": "string",
         "firstName": "string",
         "lastName": "string",
         "membershipStatus": "string",
         "status": "string",
         "type": "string",
         "userId": "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 token that indicates where a results page should begin.

Type: String

users

Lists details of all users in a specific permission group.

Type: Array of UserByPermissionGroup 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

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

ResourceNotFoundException

One or more resources can't be found.

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

ResetUserPassword

Resets the password for a specified user ID and generates a temporary one. Only a superuser can reset password for other users. Resetting the password immediately invalidates the previous password associated with the user.

Request Syntax

```
POST /user/userId/password HTTP/1.1
Content-type: application/json

{
   "clientToken": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

userId

The unique identifier of the user that a temporary password is requested for.

Length Constraints: Minimum length of 1. Maximum length of 26.

Pattern: `.*\S.*`

Required: Yes

Request Body

The request accepts the following data in JSON format.

clientToken

A token that ensures idempotency. This token expires in 10 minutes.

Type: String

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

Pattern: `.*\S.*`

Required: No

Response Syntax

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

{
   "temporaryPassword": "string",
   "userId": "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.

temporaryPassword

A randomly generated temporary password for the requested user. This password expires in 7 days.

Type: String

Length Constraints: Minimum length of 8. Maximum length of 20.

Pattern: `.*\S.*`

userId

The unique identifier of the user that a new password is generated for.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 26.

Pattern: `.*\S.*`

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 conflicts with an existing resource.

HTTP Status Code: 409

InternalServerException

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

ResourceNotFoundException

One or more resources can't be found.

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

UpdateChangeset

Updates a FinSpace Changeset.

Request Syntax

```
PUT /datasets/datasetId/changesetsv2/changesetId HTTP/1.1
Content-type: application/json

{
   "clientToken": "string",
   "formatParams": {
      "string" : "string"
   },
   "sourceParams": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request uses the following URI parameters.

changesetId

The unique identifier for the Changeset to update.

Length Constraints: Minimum length of 1. Maximum length of 26.

Required: Yes

datasetId

The unique identifier for the FinSpace Dataset in which the Changeset is created.

Length Constraints: Minimum length of 1. Maximum length of 26.

Required: Yes

Request Body

The request accepts the following data in JSON format.

formatParams

Options that define the structure of the source file(s) including the format type (`formatType`), header row (`withHeader`), data separation character (`separator`) and the type of compression (`compression`).

`formatType` is a required attribute and can have the following values:

- `PARQUET` – Parquet source file format.
- `CSV` – CSV source file format.
- `JSON` – JSON source file format.
- `XML` – XML source file format.

Here is an example of how you could specify the `formatParams`:

```
"formatParams": { "formatType": "CSV", "withHeader": "true",
"separator": ",", "compression":"None" }
```

Note that if you only provide `formatType` as `CSV`, the rest of the attributes will automatically default to CSV values as following:

```
{ "withHeader": "true", "separator": "," }
```

For more information about supported file formats, see Supported Data Types and File Formats in the FinSpace User Guide.

Type: String to string map

Key Length Constraints: Maximum length of 128.

Key Pattern: `[\s\S]*\S[\s\S]*`

Value Length Constraints: Maximum length of 1000.

Value Pattern: `[\s\S]*\S[\s\S]*`

Required: Yes

sourceParams

Options that define the location of the data being ingested (`s3SourcePath`) and the source of the changeset (`sourceType`).

Both `s3SourcePath` and `sourceType` are required attributes.

Here is an example of how you could specify the `sourceParams`:

```
"sourceParams": { "s3SourcePath": "s3://finspace-landing-us-east-2-
bk7gcfvitndqa6ebnvys4d/scratch/wr5hh8pwkpqqkxa4sxrmcw/ingestion/
equity.csv", "sourceType": "S3" }
```

The S3 path that you specify must allow the FinSpace role access. To do that, you first need to configure the IAM policy on S3 bucket. For more information, see Loading data from an Amazon S3 Bucket using the FinSpace APIsection.

Type: String to string map

Key Length Constraints: Maximum length of 128.

Key Pattern: `[\s\S]*\S[\s\S]*`

Value Length Constraints: Maximum length of 1000.

Value Pattern: `[\s\S]*\S[\s\S]*`

Required: Yes

clientToken

A token that ensures idempotency. This token expires in 10 minutes.

Type: String

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

Pattern: `.*\S.*`

Required: No

Response Syntax

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

{
   "changesetId": "string",
```

```
    "datasetId": "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.

changesetId

The unique identifier for the Changeset to update.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 26.

datasetId

The unique identifier for the FinSpace Dataset in which the Changeset is created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 26.

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 conflicts with an existing resource.

HTTP Status Code: 409

InternalServerException

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

ResourceNotFoundException

One or more resources can't be found.

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

UpdateDataset

Updates a FinSpace Dataset.

Request Syntax

```
PUT /datasetsv2/datasetId HTTP/1.1
Content-type: application/json

{
   "alias": "string",
   "clientToken": "string",
   "datasetDescription": "string",
   "datasetTitle": "string",
   "kind": "string",
   "schemaDefinition": {
      "tabularSchemaConfig": {
         "columns": [
            {
               "columnDescription": "string",
               "columnName": "string",
               "dataType": "string"
            }
         ],
         "primaryKeyColumns": [ "string" ]
      }
   }
}
```

URI Request Parameters

The request uses the following URI parameters.

datasetId

The unique identifier for the Dataset to update.

Length Constraints: Minimum length of 1. Maximum length of 26.

Required: Yes

Request Body

The request accepts the following data in JSON format.

datasetTitle

A display title for the Dataset.

Type: String

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

Pattern: `.*\S.*`

Required: Yes

kind

The format in which the Dataset data is structured.

- `TABULAR` – Data is structured in a tabular format.
- `NON_TABULAR` – Data is structured in a non-tabular format.

Type: String

Valid Values: `TABULAR | NON_TABULAR`

Required: Yes

alias

The unique resource identifier for a Dataset.

Type: String

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

Pattern: `^alias\/\S+`

Required: No

clientToken

A token that ensures idempotency. This token expires in 10 minutes.

Type: String

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

Pattern: `.*\S.*`

Required: No

datasetDescription

A description for the Dataset.

Type: String

Length Constraints: Maximum length of 1000.

Pattern: `[\s\S]*`

Required: No

schemaDefinition

Definition for a schema on a tabular Dataset.

Type: SchemaUnion object

Required: No

Response Syntax

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

{
   "datasetId": "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.

datasetId

The unique identifier for updated Dataset.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 26.

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 conflicts with an existing resource.

HTTP Status Code: 409

InternalServerException

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

ResourceNotFoundException

One or more resources can't be found.

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

UpdatePermissionGroup

Modifies the details of a permission group. You cannot modify a `permissionGroupID`.

Request Syntax

```
PUT /permission-group/permissionGroupId HTTP/1.1
Content-type: application/json

{
   "applicationPermissions": [ "string" ],
   "clientToken": "string",
   "description": "string",
   "name": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

permissionGroupId

The unique identifier for the permission group to update.

Length Constraints: Minimum length of 1. Maximum length of 26.

Pattern: `.*\S.*`

Required: Yes

Request Body

The request accepts the following data in JSON format.

applicationPermissions

The permissions that are granted to a specific group for accessing the FinSpace application.

> **Important**
>
> When assigning application permissions, be aware that the permission `ManageUsersAndGroups` allows users to grant themselves or others access to any

functionality in their FinSpace environment's application. It should only be granted to trusted users.

- `CreateDataset` – Group members can create new datasets.
- `ManageClusters` – Group members can manage Apache Spark clusters from FinSpace notebooks.
- `ManageUsersAndGroups` – Group members can manage users and permission groups. This is a privileged permission that allows users to grant themselves or others access to any functionality in the application. It should only be granted to trusted users.
- `ManageAttributeSets` – Group members can manage attribute sets.
- `ViewAuditData` – Group members can view audit data.
- `AccessNotebooks` – Group members will have access to FinSpace notebooks.
- `GetTemporaryCredentials` – Group members can get temporary API credentials.

Type: Array of strings

Valid Values: `CreateDataset | ManageClusters | ManageUsersAndGroups | ManageAttributeSets | ViewAuditData | AccessNotebooks | GetTemporaryCredentials`

Required: No

clientToken

A token that ensures idempotency. This token expires in 10 minutes.

Type: String

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

Pattern: `.*\S.*`

Required: No

description

A brief description for the permission group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4000.

Pattern: `[\s\S]*`

Required: No

name

The name of the permission group.

Type: String

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

Pattern: `.*\S.*`

Required: No

Response Syntax

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

{
   "permissionGroupId": "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.

permissionGroupId

The unique identifier for the updated permission group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 26.

Pattern: `.*\S.*`

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 conflicts with an existing resource.

HTTP Status Code: 409

InternalServerException

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

ResourceNotFoundException

One or more resources can't be found.

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

UpdateUser

Modifies the details of the specified user. You cannot update the `userId` for a user.

Request Syntax

```
PUT /user/userId HTTP/1.1
Content-type: application/json

{
   "apiAccess": "string",
   "apiAccessPrincipalArn": "string",
   "clientToken": "string",
   "firstName": "string",
   "lastName": "string",
   "type": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

userId

The unique identifier for the user that you want to update.

Length Constraints: Minimum length of 1. Maximum length of 26.

Pattern: `.*\S.*`

Required: Yes

Request Body

The request accepts the following data in JSON format.

apiAccess

The option to indicate whether the user can use the `GetProgrammaticAccessCredentials` API to obtain credentials that can then be used to access other FinSpace Data API operations.

- `ENABLED` – The user has permissions to use the APIs.

- `DISABLED` – The user does not have permissions to use any APIs.

Type: String

Valid Values: `ENABLED | DISABLED`

Required: No

apiAccessPrincipalArn

The ARN identifier of an AWS user or role that is allowed to call the `GetProgrammaticAccessCredentials` API to obtain a credentials token for a specific FinSpace user. This must be an IAM role within your FinSpace account.

Type: String

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

Pattern: `^arn:aws[a-z\-]*:iam::\d{12}:role/?[a-zA-Z_0-9+=,.@\-_/]+$`

Required: No

clientToken

A token that ensures idempotency. This token expires in 10 minutes.

Type: String

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

Pattern: `.*\S.*`

Required: No

firstName

The first name of the user.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 50.

Pattern: `.*\S.*`

Required: No

lastName

The last name of the user.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 50.

Pattern: `.*\S.*`

Required: No

type

The option to indicate the type of user.

- SUPER_USER– A user with permission to all the functionality and data in FinSpace.
- APP_USER – A user with specific permissions in FinSpace. The users are assigned permissions by adding them to a permission group.

Type: String

Valid Values: SUPER_USER | APP_USER

Required: No

Response Syntax

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

{
   "userId": "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.

userId

The unique identifier of the updated user.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 26.

Pattern: `.*\S.*`

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 conflicts with an existing resource.

HTTP Status Code: 409

InternalServerException

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

ResourceNotFoundException

One or more resources can't be found.

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

Data Types

The following data types are supported:

- AwsCredentials
- ChangesetErrorInfo
- ChangesetSummary
- ColumnDefinition
- Credentials
- Dataset
- DatasetOwnerInfo
- DataViewDestinationTypeParams
- DataViewErrorInfo
- DataViewSummary
- PermissionGroup
- PermissionGroupByUser
- PermissionGroupParams

- ResourcePermission
- S3Location
- SchemaDefinition
- SchemaUnion
- User
- UserByPermissionGroup

AwsCredentials

The credentials required to access the external Dataview from the S3 location.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

accessKeyId

The unique identifier for the security credentials.

Type: String

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

Pattern: `[\s\S]*\S[\s\S]*`

Required: No

expiration

The Epoch time when the current credentials expire.

Type: Long

Required: No

secretAccessKey

The secret access key that can be used to sign requests.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Pattern: `[\s\S]*\S[\s\S]*`

Required: No

sessionToken

The token that users must pass to use the credentials.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Pattern: `[\s\S]*\S[\s\S]*`

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

ChangesetErrorInfo

The structure with error messages.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

errorCategory

The category of the error.

- `VALIDATION` – The inputs to this request are invalid.
- `SERVICE_QUOTA_EXCEEDED` – Service quotas have been exceeded. Please contact AWS support to increase quotas.
- `ACCESS_DENIED` – Missing required permission to perform this request.
- `RESOURCE_NOT_FOUND` – One or more inputs to this request were not found.
- `THROTTLING` – The system temporarily lacks sufficient resources to process the request.
- `INTERNAL_SERVICE_EXCEPTION` – An internal service error has occurred.
- `CANCELLED` – Cancelled.
- `USER_RECOVERABLE` – A user recoverable error has occurred.

Type: String

Valid Values: `VALIDATION | SERVICE_QUOTA_EXCEEDED | ACCESS_DENIED | RESOURCE_NOT_FOUND | THROTTLING | INTERNAL_SERVICE_EXCEPTION | CANCELLED | USER_RECOVERABLE`

Required: No

errorMessage

The text of the error message.

Type: String

Length Constraints: Maximum length of 1000.

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

ChangesetSummary

A Changeset is unit of data in a Dataset.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

activeFromTimestamp

Beginning time from which the Changeset is active. The value is determined as epoch time in milliseconds. For example, the value for Monday, November 1, 2021 12:00:00 PM UTC is specified as 1635768000000.

Type: Long

Required: No

activeUntilTimestamp

Time until which the Changeset is active. The value is determined as epoch time in milliseconds. For example, the value for Monday, November 1, 2021 12:00:00 PM UTC is specified as 1635768000000.

Type: Long

Required: No

changesetArn

The ARN identifier of the Changeset.

Type: String

Required: No

changesetId

The unique identifier for a Changeset.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 26.

Required: No

changeType

Type that indicates how a Changeset is applied to a Dataset.

- `REPLACE` – Changeset is considered as a replacement to all prior loaded Changesets.
- `APPEND` – Changeset is considered as an addition to the end of all prior loaded Changesets.
- `MODIFY` – Changeset is considered as a replacement to a specific prior ingested Changeset.

Type: String

Valid Values: `REPLACE | APPEND | MODIFY`

Required: No

createTime

The timestamp at which the Changeset was created in FinSpace. The value is determined as epoch time in milliseconds. For example, the value for Monday, November 1, 2021 12:00:00 PM UTC is specified as 1635768000000.

Type: Long

Required: No

datasetId

The unique identifier for the FinSpace Dataset in which the Changeset is created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 26.

Required: No

errorInfo

The structure with error messages.

Type: ChangesetErrorInfo object

Required: No

formatParams

Options that define the structure of the source file(s).

Type: String to string map

Key Length Constraints: Maximum length of 128.

Key Pattern: `[\s\S]*\S[\s\S]*`

Value Length Constraints: Maximum length of 1000.

Value Pattern: `[\s\S]*\S[\s\S]*`

Required: No

sourceParams

Options that define the location of the data being ingested.

Type: String to string map

Key Length Constraints: Maximum length of 128.

Key Pattern: `[\s\S]*\S[\s\S]*`

Value Length Constraints: Maximum length of 1000.

Value Pattern: `[\s\S]*\S[\s\S]*`

Required: No

status

Status of the Changeset ingestion.

- `PENDING` – Changeset is pending creation.
- `FAILED` – Changeset creation has failed.
- `SUCCESS` – Changeset creation has succeeded.
- `RUNNING` – Changeset creation is running.
- `STOP_REQUESTED` – User requested Changeset creation to stop.

Type: String

Valid Values: `PENDING | FAILED | SUCCESS | RUNNING | STOP_REQUESTED`

Required: No

updatedByChangesetId

The unique identifier of the updated Changeset.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 26.

Required: No

updatesChangesetId

The unique identifier of the Changeset that is updated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 26.

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

ColumnDefinition

The definition of a column in a tabular Dataset.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

columnDescription

Description for a column.

Type: String

Length Constraints: Maximum length of 512.

Pattern: `[\s\S]*`

Required: No

columnName

The name of a column.

Type: String

Length Constraints: Maximum length of 126.

Pattern: `.*\S.*`

Required: No

dataType

Data type of a column.

- `STRING` – A String data type.

  `CHAR` – A char data type.

  `INTEGER` – An integer data type.

`TINYINT` – A tinyint data type.

`SMALLINT` – A smallint data type.

`BIGINT` – A bigint data type.

`FLOAT` – A float data type.

`DOUBLE` – A double data type.

`DATE` – A date data type.

`DATETIME` – A datetime data type.

`BOOLEAN` – A boolean data type.

`BINARY` – A binary data type.

Type: String

Valid Values: `STRING | CHAR | INTEGER | TINYINT | SMALLINT | BIGINT | FLOAT | DOUBLE | DATE | DATETIME | BOOLEAN | BINARY`

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

Credentials

Short term API credentials.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

accessKeyId

The access key identifier.

Type: String

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

Required: No

secretAccessKey

The access key.

Type: String

Length Constraints: Maximum length of 1000.

Required: No

sessionToken

The session token.

Type: String

Length Constraints: Maximum length of 1000.

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

Dataset

The structure for a Dataset.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

alias

The unique resource identifier for a Dataset.

Type: String

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

Pattern: `^alias\/\S+`

Required: No

createTime

The timestamp at which the Dataset was created in FinSpace. The value is determined as epoch time in milliseconds. For example, the value for Monday, November 1, 2021 12:00:00 PM UTC is specified as 1635768000000.

Type: Long

Required: No

datasetArn

The ARN identifier of the Dataset.

Type: String

Required: No

datasetDescription

Description for a Dataset.

Type: String

Length Constraints: Maximum length of 1000.

Pattern: `[\s\S]*`

Required: No

datasetId

An identifier for a Dataset.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 26.

Required: No

datasetTitle

Display title for a Dataset.

Type: String

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

Pattern: `.*\S.*`

Required: No

kind

The format in which Dataset data is structured.

- `TABULAR` – Data is structured in a tabular format.
- `NON_TABULAR` – Data is structured in a non-tabular format.

Type: String

Valid Values: `TABULAR | NON_TABULAR`

Required: No

lastModifiedTime

The last time that the Dataset was modified. The value is determined as epoch time in milliseconds. For example, the value for Monday, November 1, 2021 12:00:00 PM UTC is specified as 1635768000000.

Type: Long

Required: No

ownerInfo

Contact information for a Dataset owner.

Type: DatasetOwnerInfo object

Required: No

schemaDefinition

Definition for a schema on a tabular Dataset.

Type: SchemaUnion 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

DatasetOwnerInfo

A structure for Dataset owner info.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

email

Email address for the Dataset owner.

Type: String

Length Constraints: Minimum length of 4. Maximum length of 320.

Pattern: `[A-Za-z0-9._%+-]+@[A-Za-z0-9.-]+\.[A-Za-z]{2,4}`

Required: No

name

The name of the Dataset owner.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 250.

Pattern: `.*\S.*`

Required: No

phoneNumber

Phone number for the Dataset owner.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 20.

Pattern: `^[\+0-9\#\,\(][\+0-9\-\.\/\(\)\,\#\s]+$`

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

DataViewDestinationTypeParams

Structure for the Dataview destination type parameters.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

destinationType

Destination type for a Dataview.

- GLUE_TABLE – Glue table destination type.
- S3 – S3 destination type.

Type: String

Required: Yes

s3DestinationExportFileFormat

Dataview export file format.

- PARQUET – Parquet export file format.
- DELIMITED_TEXT – Delimited text export file format.

Type: String

Valid Values: PARQUET | DELIMITED_TEXT

Required: No

s3DestinationExportFileFormatOptions

Format Options for S3 Destination type.

Here is an example of how you could specify the s3DestinationExportFileFormatOptions

```
{ "header": "true", "delimiter": ",", "compression": "gzip" }
```

Type: String to string map

Key Length Constraints: Maximum length of 128.

Key Pattern: `[\s\S]*\S[\s\S]*`

Value Length Constraints: Maximum length of 1000.

Value Pattern: `[\s\S]*\S[\s\S]*`

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

DataViewErrorInfo

The structure with error messages.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

errorCategory

The category of the error.

- `VALIDATION` – The inputs to this request are invalid.
- `SERVICE_QUOTA_EXCEEDED` – Service quotas have been exceeded. Please contact AWS support to increase quotas.
- `ACCESS_DENIED` – Missing required permission to perform this request.
- `RESOURCE_NOT_FOUND` – One or more inputs to this request were not found.
- `THROTTLING` – The system temporarily lacks sufficient resources to process the request.
- `INTERNAL_SERVICE_EXCEPTION` – An internal service error has occurred.
- `CANCELLED` – Cancelled.
- `USER_RECOVERABLE` – A user recoverable error has occurred.

Type: String

Valid Values: `VALIDATION | SERVICE_QUOTA_EXCEEDED | ACCESS_DENIED | RESOURCE_NOT_FOUND | THROTTLING | INTERNAL_SERVICE_EXCEPTION | CANCELLED | USER_RECOVERABLE`

Required: No

errorMessage

The text of the error message.

Type: String

Length Constraints: Maximum length of 1000.

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

DataViewSummary

Structure for the summary of a Dataview.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

asOfTimestamp

Time range to use for the Dataview. The value is determined as epoch time in milliseconds. For example, the value for Monday, November 1, 2021 12:00:00 PM UTC is specified as 1635768000000.

Type: Long

Required: No

autoUpdate

The flag to indicate Dataview should be updated automatically.

Type: Boolean

Required: No

createTime

The timestamp at which the Dataview was created in FinSpace. The value is determined as epoch time in milliseconds. For example, the value for Monday, November 1, 2021 12:00:00 PM UTC is specified as 1635768000000.

Type: Long

Required: No

datasetId

Th unique identifier for the Dataview Dataset.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 26.

Required: No

dataViewArn

The ARN identifier of the Dataview.

Type: String

Required: No

dataViewId

The unique identifier for the Dataview.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 26.

Required: No

destinationTypeProperties

Information about the Dataview destination.

Type: DataViewDestinationTypeParams object

Required: No

errorInfo

The structure with error messages.

Type: DataViewErrorInfo object

Required: No

lastModifiedTime

The last time that a Dataview was modified. The value is determined as epoch time in milliseconds. For example, the value for Monday, November 1, 2021 12:00:00 PM UTC is specified as 1635768000000.

Type: Long

Required: No

partitionColumns

Ordered set of column names used to partition data.

Type: Array of strings

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

Pattern: `[\s\S]*\S[\s\S]*`

Required: No

sortColumns

Columns to be used for sorting the data.

Type: Array of strings

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

Pattern: `[\s\S]*\S[\s\S]*`

Required: No

status

The status of a Dataview creation.

- `RUNNING` – Dataview creation is running.
- `STARTING` – Dataview creation is starting.
- `FAILED` – Dataview creation has failed.
- `CANCELLED` – Dataview creation has been cancelled.
- `TIMEOUT` – Dataview creation has timed out.
- `SUCCESS` – Dataview creation has succeeded.
- `PENDING` – Dataview creation is pending.
- `FAILED_CLEANUP_FAILED` – Dataview creation failed and resource cleanup failed.

Type: String

Valid Values: `RUNNING | STARTING | FAILED | CANCELLED | TIMEOUT | SUCCESS | PENDING | FAILED_CLEANUP_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

PermissionGroup

The structure for a permission group.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

applicationPermissions

Indicates the permissions that are granted to a specific group for accessing the FinSpace application.

> **Important**
>
> When assigning application permissions, be aware that the permission `ManageUsersAndGroups` allows users to grant themselves or others access to any functionality in their FinSpace environment's application. It should only be granted to trusted users.

- `CreateDataset` – Group members can create new datasets.
- `ManageClusters` – Group members can manage Apache Spark clusters from FinSpace notebooks.
- `ManageUsersAndGroups` – Group members can manage users and permission groups. This is a privileged permission that allows users to grant themselves or others access to any functionality in the application. It should only be granted to trusted users.
- `ManageAttributeSets` – Group members can manage attribute sets.
- `ViewAuditData` – Group members can view audit data.
- `AccessNotebooks` – Group members will have access to FinSpace notebooks.
- `GetTemporaryCredentials` – Group members can get temporary API credentials.

Type: Array of strings

Valid Values: `CreateDataset | ManageClusters | ManageUsersAndGroups | ManageAttributeSets | ViewAuditData | AccessNotebooks | GetTemporaryCredentials`

Required: No

createTime

The timestamp at which the group was created in FinSpace. The value is determined as epoch time in milliseconds.

Type: Long

Required: No

description

A brief description for the permission group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4000.

Pattern: `[\s\S]*`

Required: No

lastModifiedTime

Describes the last time the permission group was updated. The value is determined as epoch time in milliseconds.

Type: Long

Required: No

membershipStatus

Indicates the status of the user within a permission group.

- `ADDITION_IN_PROGRESS` – The user is currently being added to the permission group.
- `ADDITION_SUCCESS` – The user is successfully added to the permission group.
- `REMOVAL_IN_PROGRESS` – The user is currently being removed from the permission group.

Type: String

Valid Values: `ADDITION_IN_PROGRESS | ADDITION_SUCCESS | REMOVAL_IN_PROGRESS`

Required: No

name

The name of the permission group.

Type: String

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

Pattern: `.*\S.*`

Required: No

permissionGroupId

The unique identifier for the permission group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 26.

Pattern: `.*\S.*`

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

PermissionGroupByUser

The structure of a permission group associated with a user.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

membershipStatus

Indicates the status of the user within a permission group.

- `ADDITION_IN_PROGRESS` – The user is currently being added to the permission group.
- `ADDITION_SUCCESS` – The user is successfully added to the permission group.
- `REMOVAL_IN_PROGRESS` – The user is currently being removed from the permission group.

Type: String

Valid Values: `ADDITION_IN_PROGRESS | ADDITION_SUCCESS | REMOVAL_IN_PROGRESS`

Required: No

name

The name of the permission group.

Type: String

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

Pattern: `.*\S.*`

Required: No

permissionGroupId

The unique identifier for the permission group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 26.

Pattern: `.*\S.*`

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

PermissionGroupParams

Permission group parameters for Dataset permissions.

Here is an example of how you could specify the `PermissionGroupParams`:

```
{ "permissionGroupId": "0r6fCRtSTUk4XPfXQe3M0g", "datasetPermissions":
[ {"permission": "ViewDatasetDetails"}, {"permission": "AddDatasetData"},
{"permission": "EditDatasetMetadata"}, {"permission": "DeleteDataset"} ] }
```

Contents

> **Note**
>
> In the following list, the required parameters are described first.

datasetPermissions

List of resource permissions.

Type: Array of ResourcePermission objects

Required: No

permissionGroupId

The unique identifier for the `PermissionGroup`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 26.

Pattern: `.*\S.*`

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

ResourcePermission

Resource permission for a dataset. When you create a dataset, all the other members of the same user group inherit access to the dataset. You can only create a dataset if your user group has application permission for Create Datasets.

The following is a list of valid dataset permissions that you can apply:

- `ViewDatasetDetails`
- `ReadDatasetDetails`
- `AddDatasetData`
- `CreateDataView`
- `EditDatasetMetadata`
- `DeleteDataset`

For more information on the dataset permissions, see Supported Dataset Permissions in the FinSpace User Guide.

Contents

> **Note**
> In the following list, the required parameters are described first.

permission

Permission for a resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 250.

Pattern: `[\s\S]*\S[\s\S]*`

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

S3Location

The location of an external Dataview in an S3 bucket.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

bucket

The name of the S3 bucket.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `^.*\S.*$`

Required: Yes

key

The path of the folder, within the S3 bucket that contains the Dataset.

Type: String

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

Pattern: `^.*\S.*$`

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

SchemaDefinition

Definition for a schema on a tabular Dataset.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

columns

List of column definitions.

Type: Array of ColumnDefinition objects

Required: No

primaryKeyColumns

List of column names used for primary key.

Type: Array of strings

Length Constraints: Maximum length of 126.

Pattern: `.*\S.*`

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

SchemaUnion

A union of schema types.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

tabularSchemaConfig

The configuration for a schema on a tabular Dataset.

Type: SchemaDefinition 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

User

The details of the user.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

apiAccess

Indicates whether the user can use the `GetProgrammaticAccessCredentials` API to obtain credentials that can then be used to access other FinSpace Data API operations.

- `ENABLED` – The user has permissions to use the APIs.
- `DISABLED` – The user does not have permissions to use any APIs.

Type: String

Valid Values: `ENABLED | DISABLED`

Required: No

apiAccessPrincipalArn

The ARN identifier of an AWS user or role that is allowed to call the `GetProgrammaticAccessCredentials` API to obtain a credentials token for a specific FinSpace user. This must be an IAM role within your FinSpace account.

Type: String

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

Pattern: `^arn:aws[a-z\-]*:iam::\d{12}:role/?[a-zA-Z_0-9+=,.@\-_/]+$`

Required: No

createTime

The timestamp at which the user was created in FinSpace. The value is determined as epoch time in milliseconds.

Type: Long

Required: No

emailAddress

The email address of the user. The email address serves as a uniquer identifier for each user and cannot be changed after it's created.

Type: String

Length Constraints: Minimum length of 4. Maximum length of 320.

Pattern: `[A-Za-z0-9._%+-]+@[A-Za-z0-9.-]+\.[A-Za-z]{2,4}`

Required: No

firstName

The first name of the user.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 50.

Pattern: `.*\S.*`

Required: No

lastDisabledTime

Describes the last time the user was deactivated. The value is determined as epoch time in milliseconds.

Type: Long

Required: No

lastEnabledTime

Describes the last time the user was activated. The value is determined as epoch time in milliseconds.

Type: Long

Required: No

lastLoginTime

Describes the last time that the user logged into their account. The value is determined as epoch time in milliseconds.

Type: Long

Required: No

lastModifiedTime

Describes the last time the user was updated. The value is determined as epoch time in milliseconds.

Type: Long

Required: No

lastName

The last name of the user.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 50.

Pattern: `.*\S.*`

Required: No

status

The current status of the user.

- `CREATING` – The user creation is in progress.
- `ENABLED` – The user is created and is currently active.
- `DISABLED` – The user is currently inactive.

Type: String

Valid Values: `CREATING | ENABLED | DISABLED`

Required: No

type

Indicates the type of user.

- SUPER_USER – A user with permission to all the functionality and data in FinSpace.
- APP_USER – A user with specific permissions in FinSpace. The users are assigned permissions by adding them to a permission group.

Type: String

Valid Values: SUPER_USER | APP_USER

Required: No

userId

The unique identifier for the user.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 26.

Pattern: `.*\S.*`

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

UserByPermissionGroup

The structure of a user associated with a permission group.

Contents

> **Note**
>
> In the following list, the required parameters are described first.

apiAccess

Indicates whether the user can access FinSpace API operations.

- `ENABLED` – The user has permissions to use the API operations.
- `DISABLED` – The user does not have permissions to use any API operations.

Type: String

Valid Values: `ENABLED | DISABLED`

Required: No

apiAccessPrincipalArn

The IAM ARN identifier that is attached to FinSpace API calls.

Type: String

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

Pattern: `^arn:aws[a-z\-]*:iam::\d{12}:role/?[a-zA-Z_0-9+=,.@\-_/]+$`

Required: No

emailAddress

The email address of the user. The email address serves as a unique identifier for each user and cannot be changed after it's created.

Type: String

Length Constraints: Minimum length of 4. Maximum length of 320.

Pattern: `[A-Za-z0-9._%+-]+@[A-Za-z0-9.-]+\.[A-Za-z]{2,4}`

Required: No

firstName

The first name of the user.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 50.

Pattern: `.*\S.*`

Required: No

lastName

The last name of the user.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 50.

Pattern: `.*\S.*`

Required: No

membershipStatus

Indicates the status of the user within a permission group.

- `ADDITION_IN_PROGRESS` – The user is currently being added to the permission group.
- `ADDITION_SUCCESS` – The user is successfully added to the permission group.
- `REMOVAL_IN_PROGRESS` – The user is currently being removed from the permission group.

Type: String

Valid Values: `ADDITION_IN_PROGRESS | ADDITION_SUCCESS | REMOVAL_IN_PROGRESS`

Required: No

status

The current status of the user.

- `CREATING` – The user creation is in progress.
- `ENABLED` – The user is created and is currently active.
- `DISABLED` – The user is currently inactive.

Type: String

Valid Values: `CREATING | ENABLED | DISABLED`

Required: No

type

Indicates the type of user.

- `SUPER_USER` – A user with permission to all the functionality and data in FinSpace.
- `APP_USER` – A user with specific permissions in FinSpace. The users are assigned permissions by adding them to a permission group.

Type: String

Valid Values: `SUPER_USER | APP_USER`

Required: No

userId

The unique identifier for the user.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 26.

Pattern: `.*\S.*`

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 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

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

AWS Glossary

For the latest AWS terminology, see the AWS glossary in the *AWS Glossary Reference*.