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# Amazon FinSpace

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# Welcome

Amazon FinSpace is a data management and analytics service for the financial services industry (FSI). It reduces the time to find and prepare all types of financial data to be ready for analysis from months to minutes.

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

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

## Topics

- [Accessing the FinSpace credentials \(p. 2\)](#)
- [Loading data from an Amazon S3 Bucket using the FinSpace API \(p. 3\)](#)

## Accessing the FinSpace credentials

To use the FinSpace data APIs, you need to be a registered user in FinSpace environment. You use API credentials that are associated with your user profile in Amazon FinSpace. The credentials are only valid for 60 minutes. There are two ways to access the API credentials.

1. **Copy the API credentials from FinSpace web application** - You do not have to be a registered Identity Access and Management (IAM) user. Use the following procedure to procure short term API credentials to use with FinSpace SDK.
  - a. From the FinSpace 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 data 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 FinSpace 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 FinSpace 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 IAM user
AWS_SECRET_ACCESS_KEY = "Specify AWS_SECRET_ACCESS_KEY" #
Secret access key for your IAM user
session = boto3.Session(AWS_ACCESS_KEY_ID,
AWS_SECRET_ACCESS_KEY, region_name=REGION)
```

## Amazon FinSpace Loading data from an Amazon S3 Bucket using the FinSpace API

---

```
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 FinSpace API

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

### 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 infrastructure account number from Amazon FinSpace page 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 the FinSpace page, from the list of environments, choose the environment that you want to setup to access an S3 bucket.
3. 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 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.

```
{ "Version": "2012-10-17", "Id": "CrossAccountAccess", "Statement":
  [ { "Effect": "Allow", "Principal": { "AWS": [ "arn:aws:iam::123456789101:role/
FinSpaceServiceRole" ] }, "Action": "s3:GetObject", "Resource":
  "arn:aws:s3:::example-bucket/*" }, { "Effect": "Allow", "Principal": { "AWS":
  [ "arn:aws:iam::123456789101:role/FinSpaceServiceRole" ] }, "Action": "s3:ListBucket",
  "Resource": "arn:aws:s3:::example-bucket" } ] }
```

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Loading data from an Amazon  
S3 Bucket using the FinSpace API

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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 \(p. 5\)](#)
- [Operations for accessing API credentials \(p. 5\)](#)
- [Operations for managing users and permissions \(p. 5\)](#)

## Operations for loading data

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

- [CreateChangeset \(p. 12\)](#)
- [CreateDataset \(p. 16\)](#)
- [CreateDataView \(p. 20\)](#)
- [DeleteDataset \(p. 31\)](#)
- [GetChangeset \(p. 44\)](#)
- [GetDataset \(p. 48\)](#)
- [GetDataView \(p. 52\)](#)
- [GetWorkingLocation \(p. 67\)](#)
- [ListChangesets \(p. 70\)](#)
- [ListDatasets \(p. 73\)](#)
- [ListDataViews \(p. 76\)](#)
- [UpdateChangeset \(p. 92\)](#)
- [UpdateDataset \(p. 96\)](#)

## Operations for accessing API credentials

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

- [GetProgrammaticAccessCredentials \(p. 61\)](#)

## Operations for managing users and permissions

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

- [AssociateUserToPermissionGroup \(p. 9\)](#)
- [CreatePermissionGroup \(p. 24\)](#)
- [CreateUser \(p. 27\)](#)
- [DeletePermissionGroup \(p. 33\)](#)
- [DisableUser \(p. 36\)](#)



- [DisassociateUserFromPermissionGroup](#) (p. 39)
- [EnableUser](#) (p. 41)
- [GetPermissionGroup](#) (p. 59)
- [GetUser](#) (p. 63)
- [ListPermissionGroups](#) (p. 79)
- [ListPermissionGroupsByUser](#) (p. 81)
- [ListUsers](#) (p. 84)
- [ListUsersByPermissionGroup](#) (p. 86)
- [ResetUserPassword](#) (p. 89)
- [UpdatePermissionGroup](#) (p. 100)
- [UpdateUser](#) (p. 103)

# API reference index

This section contains the API Reference documentation.

## Topics

- [Actions](#) (p. 7)
- [Data Types](#) (p. 106)
- [Common Errors](#) (p. 138)
- [Common Parameters](#) (p. 139)

## Actions

The following actions are supported:

- [AssociateUserToPermissionGroup](#) (p. 9)
- [CreateChangeset](#) (p. 12)
- [CreateDataset](#) (p. 16)
- [CreateDataView](#) (p. 20)
- [CreatePermissionGroup](#) (p. 24)
- [CreateUser](#) (p. 27)
- [DeleteDataset](#) (p. 31)
- [DeletePermissionGroup](#) (p. 33)
- [DisableUser](#) (p. 36)
- [DisassociateUserFromPermissionGroup](#) (p. 39)
- [EnableUser](#) (p. 41)
- [GetChangeset](#) (p. 44)
- [GetDataset](#) (p. 48)
- [GetDataView](#) (p. 52)
- [GetExternalDataViewAccessDetails](#) (p. 56)
- [GetPermissionGroup](#) (p. 59)
- [GetProgrammaticAccessCredentials](#) (p. 61)
- [GetUser](#) (p. 63)
- [GetWorkingLocation](#) (p. 67)
- [ListChangesets](#) (p. 70)
- [ListDatasets](#) (p. 73)
- [ListDataViews](#) (p. 76)
- [ListPermissionGroups](#) (p. 79)
- [ListPermissionGroupsByUser](#) (p. 81)
- [ListUsers](#) (p. 84)
- [ListUsersByPermissionGroup](#) (p. 86)
- [ResetUserPassword](#) (p. 89)
- [UpdateChangeset](#) (p. 92)
- [UpdateDataset](#) (p. 96)

- [UpdatePermissionGroup](#) (p. 100)
- [UpdateUser](#) (p. 103)

## AssociateUserToPermissionGroup

Adds a user account 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** (p. 9)

The unique identifier for the permission group.

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

Pattern: `.*\S.*`

Required: Yes

#### **userId** (p. 9)

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** (p. 9)

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** (p. 9)

The returned status code of the response.

## Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 138).

### **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

### **InternalServerErrorException**

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)
- [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** (p. 12)

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** (p. 12)

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** (p. 12)

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 (p. 12)**

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/wr5hh8pwkppqkxa4sxrmcw/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 (p. 12)**

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** (p. 14)

The unique identifier of the Changeset that is created.

Type: String

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

### **datasetId** (p. 14)

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 Errors \(p. 138\)](#).

### **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

### **InternalServerErrorException**

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [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** (p. 16)

Display title for a FinSpace Dataset.

Type: String

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

Pattern: .\*\S.\*

Required: Yes

### **kind (p. 16)**

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 (p. 16)**

Permission group parameters for Dataset permissions.

Type: [PermissionGroupParams \(p. 128\)](#) object

Required: Yes

### **alias (p. 16)**

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 (p. 16)**

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 (p. 16)**

Description of a Dataset.

Type: String

Length Constraints: Maximum length of 1000.

Pattern: `[\s\S]*`

Required: No

### **ownerInfo (p. 16)**

Contact information for a Dataset owner.

Type: [DatasetOwnerInfo \(p. 118\)](#) object

Required: No

### **schemaDefinition (p. 16)**

Definition for a schema on a tabular Dataset.

Type: [SchemaUnion \(p. 132\)](#) 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 (p. 18)**

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 Errors \(p. 138\)](#).

### **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

### **InternalServerErrorException**

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [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** (p. 20)

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** (p. 20)

Options that define the destination type for the Dataview.

Type: [DataViewDestinationTypeParams](#) (p. 119) object

Required: Yes

#### **asOfTimestamp** (p. 20)

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** (p. 20)

Flag to indicate Dataview should be updated automatically.

Type: Boolean

Required: No

**clientToken (p. 20)**

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 (p. 20)**

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 (p. 20)**

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 (p. 21)**

The unique identifier of the Dataset used for the Dataview.

Type: String



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

**dataViewId** (p. 21)

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 Errors](#) (p. 138).

### **ConflictException**

The request conflicts with an existing resource.

HTTP Status Code: 409

### **InternalServerErrorException**

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)
- [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** (p. 24)

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** (p. 24)

The name of the permission group.

Type: String

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

Pattern: `.*\S.*`

Required: Yes

#### **clientToken (p. 24)**

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 (p. 24)**

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 (p. 25)**

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 Errors \(p. 138\)](#).

### **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

### **InternalServerErrorException**

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [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 \(p. 27\)](#)

The email address of the user that you want to register. 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: Yes

### [type \(p. 27\)](#)

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 \(p. 27\)](#)

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 \(p. 27\)](#)

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:~{12}:role/?[a-zA-Z_0-9+=,.\@-_/]+$`

Required: No

#### [clientToken \(p. 27\)](#)

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 \(p. 27\)](#)

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 \(p. 27\)](#)

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 (p. 28)**

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 Errors \(p. 138\)](#).

### **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

### **InternalServerErrorException**

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [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** (p. 31)

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

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

Pattern: `.*\S.*`

### **datasetId** (p. 31)

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** (p. 31)

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 Errors \(p. 138\)](#).

### **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

### **InternalServerErrorException**

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [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** (p. 33)

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

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

Pattern: `.*\S.*`

#### **permissionGroupId** (p. 33)

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** (p. 33)

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 Errors \(p. 138\)](#).

### **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

### **InternalServerErrorException**

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [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** (p. 36)

The unique identifier for the user account that you want to disable.

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** (p. 36)

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 (p. 36)**

The unique identifier for the disabled user account.

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 Errors \(p. 138\)](#).

**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

**InternalServerErrorException**

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)



- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DisassociateUserFromPermissionGroup

Removes a user account 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** (p. 39)

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

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

Pattern: `.*\S.*`

### **permissionGroupId** (p. 39)

The unique identifier for the permission group.

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

Pattern: `.*\S.*`

Required: Yes

### **userId** (p. 39)

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** (p. 39)

The returned status code of the response.

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 138\)](#).

### **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

### **InternalServerErrorException**

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [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** (p. 41)

The unique identifier for the user account that you want to enable.

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** (p. 41)

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 (p. 41)**

The unique identifier for the enabled user account.

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 Errors \(p. 138\)](#).

**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

**InternalServerErrorException**

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](#)

- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [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 \(p. 44\)](#)

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

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

Required: Yes

### [datasetId \(p. 44\)](#)

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 (p. 44)**

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 (p. 44)**

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 (p. 44)**

The ARN identifier of the Changeset.

Type: String

### **changesetId (p. 44)**

The unique identifier for a Changeset.

Type: String

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

### **changeType (p. 44)**

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 (p. 44)**

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 (p. 44)**

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 (p. 44)**

The structure with error messages.

Type: [ChangesetErrorInfo \(p. 109\)](#) object

#### **formatParams (p. 44)**

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 (p. 44)**

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 (p. 44)**

The status of Changeset creation operation.

Type: String

Valid Values: PENDING | FAILED | SUCCESS | RUNNING | STOP\_REQUESTED

#### **updatedByChangesetId (p. 44)**

The unique identifier of the updated Changeset.

Type: String

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

#### **updatesChangesetId (p. 44)**

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 Errors \(p. 138\)](#).

#### **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

**InternalServerErrorException**

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [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** (p. 48)

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 (p. 48)**

The unique resource identifier for a Dataset.

Type: String

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

Pattern: `^alias\/\S+`

**createTime (p. 48)**

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 (p. 48)**

The ARN identifier of the Dataset.

Type: String

**datasetDescription (p. 48)**

A description of the Dataset.

Type: String

Length Constraints: Maximum length of 1000.

Pattern: `[\s\S]*`

**datasetId (p. 48)**

The unique identifier for a Dataset.

Type: String

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

**datasetTitle (p. 48)**

Display title for a Dataset.

Type: String

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

Pattern: `.*\S.*`

**kind (p. 48)**

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 (p. 48)**

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 (p. 48)**

Definition for a schema on a tabular Dataset.

Type: [SchemaUnion \(p. 132\)](#) object

### **status (p. 48)**

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 Errors \(p. 138\)](#).

### **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

### **InternalServerErrorException**

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [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** (p. 52)

The unique identifier for the Dataset used in the Dataview.

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

Required: Yes

#### **dataviewId** (p. 52)

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 (p. 52)**

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 (p. 52)**

Flag to indicate Dataview should be updated automatically.

Type: Boolean

### **createTime (p. 52)**

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 (p. 52)**

The unique identifier for the Dataset used in the Dataview.

Type: String

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

### **dataViewArn (p. 52)**

The ARN identifier of the Dataview.

Type: String

### **dataViewId (p. 52)**

The unique identifier for the Dataview.

Type: String

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

### **destinationTypeParams (p. 52)**

Options that define the destination type for the Dataview.

Type: [DataViewDestinationTypeParams \(p. 119\)](#) object

### **errorInfo (p. 52)**

Information about an error that occurred for the Dataview.

Type: [DataViewErrorInfo \(p. 121\)](#) object



### **lastModifiedTime (p. 52)**

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 (p. 52)**

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 (p. 52)**

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 (p. 52)**

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 Errors \(p. 138\)](#).

### **ConflictException**

The request conflicts with an existing resource.

HTTP Status Code: 409

### **InternalServerErrorException**

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [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** (p. 56)

The unique identifier for the Dataset.

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

Required: Yes

#### **dataviewId** (p. 56)

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 (p. 56)**

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

Type: [AwsCredentials \(p. 107\)](#) object

**s3Location (p. 56)**

The location where the external Dataview is stored.

Type: [S3Location \(p. 130\)](#) object

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 138\)](#).

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerErrorException**

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [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** (p. 59)

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** (p. 59)

The structure for a permission group.

Type: [PermissionGroup](#) (p. 125) object

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 138\)](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetProgrammaticAccessCredentials

Request programmatic credentials to use with FinSpace SDK.

## Request Syntax

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

## URI Request Parameters

The request uses the following URI parameters.

### **durationInMinutes** (p. 61)

The time duration in which the credentials remain valid.

Valid Range: Minimum value of 60. Maximum value of 720.

### **environmentId** (p. 61)

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** (p. 61)

Returns the programmatic credentials.

Type: [Credentials](#) (p. 115) object



### **durationInMinutes (p. 61)**

Returns the duration in which the credentials will remain valid.

Type: Long

Valid Range: Minimum value of 60. Maximum value of 720.

## **Errors**

For information about the errors that are common to all actions, see [Common Errors \(p. 138\)](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [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** (p. 63)

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** (p. 63)

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 (p. 63)**

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 (p. 63)**

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

Type: Long

#### **emailAddress (p. 63)**

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 (p. 63)**

The first name of the user.

Type: String

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

Pattern: `.*\S.*`

#### **lastDisabledTime (p. 63)**

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

Type: Long

#### **lastEnabledTime (p. 63)**

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

Type: Long

#### **lastLoginTime (p. 63)**

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

Type: Long

### **lastModifiedTime (p. 63)**

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

Type: Long

### **lastName (p. 63)**

The last name of the user.

Type: String

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

Pattern: .\*\S.\*

### **status (p. 63)**

The current status of the user account.

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

Type: String

Valid Values: **CREATING** | **ENABLED** | **DISABLED**

### **type (p. 63)**

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 (p. 63)**

The unique identifier for the user account 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 Errors \(p. 138\)](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [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 (p. 67)

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 (p. 67)

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 (p. 67)**

Returns the Amazon S3 Path for the working location.

Type: String

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

Pattern: .\*\.S.\*

#### **s3Uri (p. 67)**

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 Errors \(p. 138\)](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [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** (p. 70)

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** (p. 70)

The maximum number of results per page.

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

#### **nextToken** (p. 70)

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 (p. 70)**

List of Changesets found.

Type: Array of [ChangesetSummary \(p. 110\)](#) objects

### **nextToken (p. 70)**

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 Errors \(p. 138\)](#).

### **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

### **InternalServerErrorException**

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [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** (p. 73)

The maximum number of results per page.

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

#### **nextToken** (p. 73)

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 (p. 73)**

List of Datasets.

Type: Array of [Dataset \(p. 116\)](#) objects

### **nextToken (p. 73)**

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 Errors \(p. 138\)](#).

### **ConflictException**

The request conflicts with an existing resource.

HTTP Status Code: 409

### **InternalServerErrorException**

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](#)

- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [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** (p. 76)

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

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

Required: Yes

#### **maxResults** (p. 76)

The maximum number of results per page.

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

#### **nextToken** (p. 76)

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 (p. 76)**

A list of Dataviews.

Type: Array of [DataViewSummary \(p. 122\)](#) objects

### **nextToken (p. 76)**

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 Errors \(p. 138\)](#).

### **ConflictException**

The request conflicts with an existing resource.

HTTP Status Code: 409

### **InternalServerErrorException**

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [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 (p. 79)

The maximum number of results per page.

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

Required: Yes

#### nextToken (p. 79)

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 (p. 79)

A token that indicates where a results page should begin.

Type: String

**permissionGroups (p. 79)**

A list of all the permission groups.

Type: Array of [PermissionGroup \(p. 125\)](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 138\)](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## ListPermissionGroupsByUser

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

### 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 (p. 81)

The maximum number of results per page.

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

Required: Yes

#### nextToken (p. 81)

A token that indicates where a results page should begin.

#### userId (p. 81)

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 (p. 81)**

A token that indicates where a results page should begin.

Type: String

**permissionGroups (p. 81)**

A list of returned permission groups.

Type: Array of [PermissionGroupByUser \(p. 127\)](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 138\)](#).

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerErrorException**

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

## ListUsers

Lists all available user accounts in FinSpace.

### Request Syntax

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

### URI Request Parameters

The request uses the following URI parameters.

#### **maxResults** (p. 84)

The maximum number of results per page.

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

Required: Yes

#### **nextToken** (p. 84)

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 (p. 84)**

A token that indicates where a results page should begin.

Type: String

**users (p. 84)**

A list of all the user accounts.

Type: Array of [User \(p. 133\)](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 138\)](#).

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

**InternalServerErrorException**

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:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [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 (p. 86)

The maximum number of results per page.

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

Required: Yes

### nextToken (p. 86)

A token that indicates where a results page should begin.

### permissionGroupId (p. 86)

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** (p. 86)

A token that indicates where a results page should begin.

Type: String

### **users** (p. 86)

Lists details of all users in a specific permission group.

Type: Array of [UserByPermissionGroup](#) (p. 136) objects

## Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 138).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **InternalServerErrorException**

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [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** (p. 89)

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** (p. 89)

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** (p. 89)

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

Type: String

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

Pattern: `.*\S.*`

### **userId** (p. 89)

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 Errors](#) (p. 138).

### **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

### **InternalServerErrorException**

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [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** (p. 92)

The unique identifier for the Changeset to update.

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

Required: Yes

#### **datasetId** (p. 92)

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** (p. 92)

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 \(p. 92\)](#)

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/wr5hh8pwkppqkxa4sxrmcw/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 \(p. 92\)](#)

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** (p. 94)

The unique identifier for the Changeset to update.

Type: String

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

### **datasetId** (p. 94)

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 Errors \(p. 138\)](#).

### **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

### **InternalServerErrorException**

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [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** (p. 96)

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** (p. 96)

A display title for the Dataset.

Type: String

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

Pattern: .\*\.S.\*

Required: Yes

### **kind** (p. 96)

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 (p. 96)**

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 (p. 96)**

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 (p. 96)**

A description for the Dataset.

Type: String

Length Constraints: Maximum length of 1000.

Pattern: `[\s\S]*`

Required: No

#### **schemaDefinition (p. 96)**

Definition for a schema on a tabular Dataset.

Type: [SchemaUnion \(p. 132\)](#) 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** (p. 97)

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 Errors](#) (p. 138).

### **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

### **InternalServerErrorException**

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [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` (p. 100)

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` (p. 100)

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 (p. 100)**

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 (p. 100)**

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 (p. 100)**

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 (p. 101)**

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 Errors \(p. 138\)](#).

### **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

### **InternalServerErrorException**

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## UpdateUser

Modifies the details of the specified user account. 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** (p. 103)

The unique identifier for the user account 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** (p. 103)

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** (p. 103)

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 (p. 103)**

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 (p. 103)**

The first name of the user.

Type: String

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

Pattern: `.*\S.*`

Required: No

#### **lastName (p. 103)**

The last name of the user.

Type: String

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

Pattern: `.*\S.*`

Required: No

#### **type (p. 103)**

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 (p. 104)**

The unique identifier of the updated user account.

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 Errors \(p. 138\)](#).

### **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

### **InternalServerErrorException**

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](#)
- [AWS SDK for .NET](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

## Data Types

The following data types are supported:

- [AwsCredentials](#) (p. 107)
- [ChangesetErrorInfo](#) (p. 109)
- [ChangesetSummary](#) (p. 110)
- [ColumnDefinition](#) (p. 113)
- [Credentials](#) (p. 115)
- [Dataset](#) (p. 116)
- [DatasetOwnerInfo](#) (p. 118)
- [DataViewDestinationTypeParams](#) (p. 119)
- [DataViewErrorInfo](#) (p. 121)
- [DataViewSummary](#) (p. 122)
- [PermissionGroup](#) (p. 125)
- [PermissionGroupByUser](#) (p. 127)
- [PermissionGroupParams](#) (p. 128)
- [ResourcePermission](#) (p. 129)
- [S3Location](#) (p. 130)
- [SchemaDefinition](#) (p. 131)
- [SchemaUnion](#) (p. 132)
- [User](#) (p. 133)
- [UserByPermissionGroup](#) (p. 136)

## 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 Go](#)
- [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 Go](#)
- [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 \(p. 109\)](#) 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 Go](#)
- [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 Go](#)
- [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 Go](#)
- [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 \(p. 118\)](#) object

Required: No

#### **schemaDefinition**

Definition for a schema on a tabular Dataset.

Type: [SchemaUnion \(p. 132\)](#) 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 Go](#)
- [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 Go](#)
- [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 Go](#)
- [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 Go](#)
- [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**

The 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 \(p. 119\)](#) object

Required: No

### **errorInfo**

The structure with error messages.

Type: [DataViewErrorInfo \(p. 121\)](#) 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 Go](#)
- [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 account within a permission group.

- `ADDITION_IN_PROGRESS` – The user account is currently being added to the permission group.
- `ADDITION_SUCCESS` – The user account 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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

## PermissionGroupByUser

The structure of a permission group associated with a user account.

### Contents

#### Note

In the following list, the required parameters are described first.

#### membershipStatus

Indicates the status of the user account within a permission group.

- `ADDITION_IN_PROGRESS` – The user account is currently being added to the permission group.
- `ADDITION_SUCCESS` – The user account 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 Go](#)
- [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](#) (p. 129) 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 Go](#)
- [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 Go](#)
- [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 Go](#)
- [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 \(p. 113\)](#) 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 Go](#)
- [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 \(p. 131\)](#) 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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# User

The details of the user account.

## 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 account 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 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

**lastDisabledTime**

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

Type: Long

Required: No

**lastEnabledTime**

Describes the last time the user account was enabled. 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 account 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 account.

- **CREATING** – The user account creation is in progress.
- **ENABLED** – The user account is created and is currently active.
- **DISABLED** – The user account 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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



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

Pattern: `.*\S.*`

Required: No

#### **membershipStatus**

Indicates the status of the user account within a permission group.

- `ADDITION_IN_PROGRESS` – The user account is currently being added to the permission group.
- `ADDITION_SUCCESS` – The user account 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 account.

- `CREATING` – The user account creation is in progress.
- `ENABLED` – The user account is created and is currently active.
- `DISABLED` – The user account 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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

## Common Errors

This section lists the errors common to the API actions of all AWS services. For errors specific to an API action for this service, see the topic for that API action.

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 400

### **IncompleteSignature**

The request signature does not conform to AWS standards.

HTTP Status Code: 400

### **InternalFailure**

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

HTTP Status Code: 500

### **InvalidAction**

The action or operation requested is invalid. Verify that the action is typed correctly.

HTTP Status Code: 400

### **InvalidClientTokenId**

The X.509 certificate or AWS access key ID provided does not exist in our records.

HTTP Status Code: 403

### **InvalidParameterCombination**

Parameters that must not be used together were used together.

HTTP Status Code: 400

### **InvalidParameterValue**

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

### **InvalidQueryParameter**

The AWS query string is malformed or does not adhere to AWS standards.

HTTP Status Code: 400

### **MalformedQueryString**

The query string contains a syntax error.

HTTP Status Code: 404

**MissingAction**

The request is missing an action or a required parameter.

HTTP Status Code: 400

**MissingAuthenticationToken**

The request must contain either a valid (registered) AWS access key ID or X.509 certificate.

HTTP Status Code: 403

**MissingParameter**

A required parameter for the specified action is not supplied.

HTTP Status Code: 400

**NotAuthorized**

You do not have permission to perform this action.

HTTP Status Code: 400

**OptInRequired**

The AWS access key ID needs a subscription for the service.

HTTP Status Code: 403

**RequestExpired**

The request reached the service more than 15 minutes after the date stamp on the request or more than 15 minutes after the request expiration date (such as for pre-signed URLs), or the date stamp on the request is more than 15 minutes in the future.

HTTP Status Code: 400

**ServiceUnavailable**

The request has failed due to a temporary failure of the server.

HTTP Status Code: 503

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 400

**ValidationError**

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

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 [Signature Version 4 Signing Process](#) in the *Amazon Web Services General Reference*.

**Action**

The action to be performed.

Type: string

Required: Yes

#### **Version**

The API version that the request is written for, expressed in the format YYYY-MM-DD.

Type: string

Required: Yes

#### **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 [Task 2: Create a String to Sign for Signature Version 4](#) in the *Amazon Web Services General Reference*.

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 [Handling Dates in Signature Version 4](#) in the *Amazon Web Services General Reference*.

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 Security Token Service, go to [AWS Services That Work with IAM](#) in the *IAM User Guide*.

Condition: If you're using temporary security credentials from the AWS Security Token Service, 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 [Task 1: Create a Canonical Request For Signature Version 4](#) in the *Amazon Web Services General Reference*.

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 General Reference*.