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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 Amazon FinSpace Management API Reference provides descriptions, syntax, and usage examples for each of the operations and data types for management of Amazon FinSpace. You can use the API operations to programmatically expand and manage your Amazon FinSpace deployments.

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](#).

API Operations by Topic

Use this section to locate API operations by topic.

Topics

- [Environment API Operations](#) (p. 2)
- [Tagging operations](#) (p. 2)

Environment API Operations

The API operations in this section control FinSpace environment.

- [CreateEnvironment](#) (p. 4)
- [ListEnvironments](#) (p. 12)
- [GetEnvironment](#) (p. 10)
- [DeleteEnvironment](#) (p. 8)
- [UpdateEnvironment](#) (p. 21)

Tagging operations

The API operations in this section control tagging in FinSpace.

- [TagResource](#) (p. 17)
- [UntagResource](#) (p. 19)
- [ListTagsForResource](#) (p. 15)

API Reference Index

This section contains the API Reference documentation.

Topics

- [Actions](#) (p. 3)
- [Data Types](#) (p. 23)
- [Common Errors](#) (p. 30)
- [Common Parameters](#) (p. 32)

Actions

The following actions are supported:

- [CreateEnvironment](#) (p. 4)
- [DeleteEnvironment](#) (p. 8)
- [GetEnvironment](#) (p. 10)
- [ListEnvironments](#) (p. 12)
- [ListTagsForResource](#) (p. 15)
- [TagResource](#) (p. 17)
- [UntagResource](#) (p. 19)
- [UpdateEnvironment](#) (p. 21)

CreateEnvironment

Create a new FinSpace environment.

Request Syntax

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

{
  "dataBundles": [ "string" ],
  "description": "string",
  "federationMode": "string",
  "federationParameters": {
    "applicationCallbackURL": "string",
    "attributeMap": {
      "string" : "string"
    },
    "federationProviderName": "string",
    "federationURN": "string",
    "samlMetadataDocument": "string",
    "samlMetadataURL": "string"
  },
  "kmsKeyId": "string",
  "name": "string",
  "superuserParameters": {
    "emailAddress": "string",
    "firstName": "string",
    "lastName": "string"
  },
  "tags": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

name (p. 4)

The name of the FinSpace environment to be created.

Type: String

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

Pattern: `^[a-zA-Z0-9]+[a-zA-Z0-9-]*[a-zA-Z0-9]$`

Required: Yes

dataBundles (p. 4)

The list of Amazon Resource Names (ARN) of the data bundles to install. Currently supported data bundle ARNs:

- `arn:aws:finpace:${Region}::data-bundle/capital-markets-sample` - Contains sample Capital Markets datasets, categories and controlled vocabularies.

- `arn:aws:finpace:${Region}::data-bundle/taq` (default) - Contains trades and quotes data in addition to sample Capital Markets data.

Type: Array of strings

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

Pattern: `^arn:aws:finpace:[A-Za-z0-9_/.-]{0,63}:\d*:data-bundle/[0-9A-Za-z_-]{1,128}$`

Required: No

description (p. 4)

The description of the FinSpace environment to be created.

Type: String

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

Pattern: `^[a-zA-Z0-9.]{1,1000}$`

Required: No

federationMode (p. 4)

Authentication mode for the environment.

- `FEDERATED` - Users access FinSpace through Single Sign On (SSO) via your Identity provider.
- `LOCAL` - Users access FinSpace via email and password managed within the FinSpace environment.

Type: String

Valid Values: `FEDERATED | LOCAL`

Required: No

federationParameters (p. 4)

Configuration information when authentication mode is `FEDERATED`.

Type: [FederationParameters \(p. 28\)](#) object

Required: No

kmsKeyId (p. 4)

The KMS key id to encrypt your data in the FinSpace environment.

Type: String

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

Pattern: `^[a-zA-Z0-9-:\/*]$`

Required: No

superuserParameters (p. 4)

Configuration information for the superuser.

Type: [SuperuserParameters \(p. 30\)](#) object

Required: No

tags (p. 4)

Add tags to your FinSpace environment.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-. _:/]+$`

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

Value Pattern: `^[a-zA-Z0-9+-. _:@]+$`

Required: No

Response Syntax

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

{
  "environmentArn": "string",
  "environmentId": "string",
  "environmentUrl": "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.

environmentArn (p. 6)

The Amazon Resource Name (ARN) of the FinSpace environment that you created.

Type: String

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

Pattern: `^arn:aws:finspace:[A-Za-z0-9_/.-]{0,63}:\d+:environment/[0-9A-Za-z_-]{1,128}$`

environmentId (p. 6)

The unique identifier for FinSpace environment that you created.

Type: String

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

Pattern: `^[a-zA-Z0-9]{1,26}$`

environmentUrl (p. 6)

The sign-in url for the web application of the FinSpace environment you created.

Type: String

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

Pattern: `^https?:\/\/[-a-zA-Z0-9+&@#/%?=_|!:,.;]*[-a-zA-Z0-9+&@#/%=_|]`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 30\)](#).

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

LimitExceededException

A service limit or quota is exceeded.

HTTP Status Code: 400

ServiceQuotaExceededException

You have exceeded your service quota. To perform the requested action, remove some of the relevant resources, or use Service Quotas to request a service quota increase.

HTTP Status Code: 402

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [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](#)

DeleteEnvironment

Delete an FinSpace environment.

Request Syntax

```
DELETE /environment/environmentId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

environmentId (p. 8)

The identifier for the FinSpace environment.

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

Pattern: `^[a-zA-Z0-9]{1,26}$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 30\)](#).

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: 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](#)

GetEnvironment

Returns the FinSpace environment object.

Request Syntax

```
GET /environment/environmentId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

environmentId (p. 10)

The identifier of the FinSpace environment.

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

Pattern: `^[a-zA-Z0-9]{1,26}$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "environment": {
    "awsAccountId": "string",
    "dedicatedServiceAccountId": "string",
    "description": "string",
    "environmentArn": "string",
    "environmentId": "string",
    "environmentUrl": "string",
    "federationMode": "string",
    "federationParameters": {
      "applicationCallbackURL": "string",
      "attributeMap": {
        "string": "string"
      },
      "federationProviderName": "string",
      "federationURN": "string",
      "samlMetadataDocument": "string",
      "samlMetadataURL": "string"
    },
    "kmsKeyId": "string",
    "name": "string",
    "sageMakerStudioDomainUrl": "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.

environment (p. 10)

The name of the FinSpace environment.

Type: [Environment](#) (p. 25) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 30).

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: 400

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](#)

ListEnvironments

A list of all of your FinSpace environments.

Request Syntax

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

URI Request Parameters

The request uses the following URI parameters.

maxResults (p. 12)

The maximum number of results to return in this request.

Valid Range: Minimum value of 0. Maximum value of 100.

nextToken (p. 12)

A token generated by FinSpace that specifies where to continue pagination if a previous request was truncated. To get the next set of pages, pass in the nextToken value from the response object of the previous page call.

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

Pattern: .*

Request Body

The request does not have a request body.

Response Syntax

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

{
  "environments": [
    {
      "awsAccountId": "string",
      "dedicatedServiceAccountId": "string",
      "description": "string",
      "environmentArn": "string",
      "environmentId": "string",
      "environmentUrl": "string",
      "federationMode": "string",
      "federationParameters": {
        "applicationCallbackURL": "string",
        "attributeMap": {
          "string": "string"
        }
      },
      "federationProviderName": "string",
      "federationURN": "string",
      "samlMetadataDocument": "string",
      "samlMetadataURL": "string"
    },
    "kmsKeyId": "string",
```

```
    "name": "string",  
    "sageMakerStudioDomainUrl": "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.

environments (p. 12)

A list of all of your FinSpace environments.

Type: Array of [Environment](#) (p. 25) objects

nextToken (p. 12)

A token that you can use in a subsequent call to retrieve the next set of results.

Type: String

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

Pattern: .*

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 30).

InternalServerErrorException

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

HTTP Status Code: 500

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](#)

ListTagsForResource

A list of all tags for a resource.

Request Syntax

```
GET /tags/resourceArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[resourceArn \(p. 15\)](#)

The Amazon Resource Name of the resource.

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

Pattern: `^arn:aws:finspace:[A-Za-z0-9_/.-]{0,63}:\d+:environment/[0-9A-Za-z_-]{1,128}$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

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

Response Elements

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

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

[tags \(p. 15\)](#)

A list of all tags for a resource.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-. _:/]+$`

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

Value Pattern: `^[a-zA-Z0-9+-. _:@]+$`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 30\)](#).

InternalServerErrorException

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

HTTP Status Code: 500

InvalidRequestException

The request is invalid. Something is wrong with the input to the request.

HTTP Status Code: 400

ResourceNotFoundException

One or more resources can't be found.

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](#)

TagResource

Adds metadata tags to a FinSpace resource.

Request Syntax

```
POST /tags/resourceArn HTTP/1.1
Content-type: application/json

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

URI Request Parameters

The request uses the following URI parameters.

resourceArn (p. 17)

The Amazon Resource Name (ARN) for the resource.

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

Pattern: `^arn:aws:finspace:[A-Za-z0-9_/.-]{0,63}:\d+:environment/[0-9A-Za-z_-]{1,128}$`

Required: Yes

Request Body

The request accepts the following data in JSON format.

tags (p. 17)

One or more tags to be assigned to the resource.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-. _:/]+`

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

Value Pattern: `^[a-zA-Z0-9+-. _:@]+`

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 30\)](#).

InternalServerErrorException

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

HTTP Status Code: 500

InvalidRequestException

The request is invalid. Something is wrong with the input to the request.

HTTP Status Code: 400

ResourceNotFoundException

One or more resources can't be found.

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](#)

UntagResource

Removes metadata tags from a FinSpace resource.

Request Syntax

```
DELETE /tags/resourceArn?tagKeys=tagKeys HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn (p. 19)

A FinSpace resource from which you want to remove a tag or tags. The value for this parameter is an Amazon Resource Name (ARN).

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

Pattern: `^arn:aws:finspace:[A-Za-z0-9_/.-]{0,63}:\d+:environment/[0-9A-Za-z_-]{1,128}$`

Required: Yes

tagKeys (p. 19)

The tag keys (names) of one or more tags to be removed.

Array Members: Minimum number of 1 item. Maximum number of 50 items.

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

Pattern: `^(?!aws:)[a-zA-Z+-._: /]+$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 30\)](#).

InternalServerErrorException

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

HTTP Status Code: 500

InvalidRequestException

The request is invalid. Something is wrong with the input to the request.

HTTP Status Code: 400

ResourceNotFoundException

One or more resources can't be found.

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](#)

UpdateEnvironment

Update your FinSpace environment.

Request Syntax

```
PUT /environment/environmentId HTTP/1.1
Content-type: application/json

{
  "description": "string",
  "federationMode": "string",
  "federationParameters": {
    "applicationCallBackURL": "string",
    "attributeMap": {
      "string" : "string"
    },
    "federationProviderName": "string",
    "federationURN": "string",
    "samlMetadataDocument": "string",
    "samlMetadataURL": "string"
  },
  "name": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

environmentId (p. 21)

The identifier of the FinSpace environment.

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

Pattern: `^[a-zA-Z0-9]{1,26}$`

Required: Yes

Request Body

The request accepts the following data in JSON format.

description (p. 21)

The description of the environment.

Type: String

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

Pattern: `^[a-zA-Z0-9.]{1,1000}$`

Required: No

federationMode (p. 21)

Authentication mode for the environment.

- **FEDERATED** - Users access FinSpace through Single Sign On (SSO) via your Identity provider.
- **LOCAL** - Users access FinSpace via email and password managed within the FinSpace environment.

Type: String

Valid Values: FEDERATED | LOCAL

Required: No

federationParameters (p. 21)

Configuration information when authentication mode is FEDERATED.

Type: [FederationParameters](#) (p. 28) object

Required: No

name (p. 21)

The name of the environment.

Type: String

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

Pattern: `^[a-zA-Z0-9]+[a-zA-Z0-9-]*[a-zA-Z0-9]$`

Required: No

Response Syntax

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

{
  "environment": {
    "awsAccountId": "string",
    "dedicatedServiceAccountId": "string",
    "description": "string",
    "environmentArn": "string",
    "environmentId": "string",
    "environmentUrl": "string",
    "federationMode": "string",
    "federationParameters": {
      "applicationCallbackURL": "string",
      "attributeMap": {
        "string": "string"
      },
      "federationProviderName": "string",
      "federationURN": "string",
      "samlMetadataDocument": "string",
      "samlMetadataURL": "string"
    },
    "kmsKeyId": "string",
    "name": "string",
    "sageMakerStudioDomainUrl": "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.

environment (p. 22)

Returns the FinSpace environment object.

Type: [Environment \(p. 25\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 30\)](#).

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: 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](#)

Data Types

The following data types are supported:

- [Environment](#) (p. 25)
- [FederationParameters](#) (p. 28)
- [SuperuserParameters](#) (p. 30)

Environment

Represents an FinSpace environment.

Contents

Note

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

awsAccountId

The ID of the AWS account in which the FinSpace environment is created.

Type: String

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

Pattern: `^[a-zA-Z0-9]{1,26}$`

Required: No

dedicatedServiceAccountId

The AWS account ID of the dedicated service account associated with your FinSpace environment.

Type: String

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

Pattern: `^[a-zA-Z0-9]{1,26}$`

Required: No

description

The description of the FinSpace environment.

Type: String

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

Pattern: `^[a-zA-Z0-9.]{1,1000}$`

Required: No

environmentArn

The Amazon Resource Name (ARN) of your FinSpace environment.

Type: String

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

Pattern: `^arn:aws:finspace:[A-Za-z0-9_/.-]{0,63}:\d+:environment/[0-9A-Za-z_-]{1,128}$`

Required: No

environmentId

The identifier of the FinSpace environment.

Type: String

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

Pattern: `^[a-zA-Z0-9]{1,26}$`

Required: No

environmentUrl

The sign-in url for the web application of your FinSpace environment.

Type: String

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

Pattern: `^https?://[-a-zA-Z0-9+&@#/%?=-_~|!:,.;]*[-a-zA-Z0-9+&@#/%=-_~|]`

Required: No

federationMode

The authentication mode for the environment.

Type: String

Valid Values: `FEDERATED` | `LOCAL`

Required: No

federationParameters

Configuration information when authentication mode is `FEDERATED`.

Type: [FederationParameters \(p. 28\)](#) object

Required: No

kmsKeyId

The KMS key id used to encrypt in the FinSpace environment.

Type: String

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

Pattern: `^[a-zA-Z0-9-:\/*]$`

Required: No

name

The name of the FinSpace environment.

Type: String

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

Pattern: `^[a-zA-Z0-9]+[a-zA-Z0-9-]*[a-zA-Z0-9]$`

Required: No

sageMakerStudioDomainUrl

The url of the integrated FinSpace notebook environment in your web application.

Type: String

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

Pattern: `^[a-zA-Z0-9-:\./]*$`

Required: No

status

The current status of creation of the FinSpace environment.

Type: String

Valid Values: `CREATE_REQUESTED | CREATING | CREATED | DELETE_REQUESTED | DELETING | DELETED | FAILED_CREATION | RETRY_DELETION | FAILED_DELETION | SUSPENDED`

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](#)

FederationParameters

Configuration information when authentication mode is FEDERATED.

Contents

Note

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

applicationCallbackURL

The redirect or sign-in URL that should be entered into the SAML 2.0 compliant identity provider configuration (IdP).

Type: String

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

Pattern: `^https?://[a-zA-Z0-9+&#/%?=-_!|:,.;]*[a-zA-Z0-9+&#/%?=-_!|]`

Required: No

attributeMap

SAML attribute name and value. The name must always be `Email` and the value should be set to the attribute definition in which user email is set. For example, name would be `Email` and value `http://schemas.xmlsoap.org/ws/2005/05/identity/claims/emailaddress`. Please check your SAML 2.0 compliant identity provider (IdP) documentation for details.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 32.

Key Pattern: `.*`

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

Value Pattern: `^https?://[a-zA-Z0-9+&#/%?=-_!|:,.;]*[a-zA-Z0-9+&#/%?=-_!|]`

Required: No

federationProviderName

Name of the identity provider (IdP).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

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

Required: No

federationURN

The Uniform Resource Name (URN). Also referred as Service Provider URN or Audience URI or Service Provider Entity ID.

Type: String

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

Pattern: `^[A-Za-z0-9._\-\:/#\+]+$`

Required: No

samlMetadataDocument

SAML 2.0 Metadata document from identity provider (IdP).

Type: String

Length Constraints: Minimum length of 1000. Maximum length of 10000000.

Pattern: .*

Required: No

samlMetadataURL

Provide the metadata URL from your SAML 2.0 compliant identity provider (IdP).

Type: String

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

Pattern: ^https?://[-a-zA-Z0-9+&@#/%?=-_|!:,.;]*[-a-zA-Z0-9+&@#/%=-_|]

Required: No

See Also

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

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

SuperuserParameters

Configuration information for the superuser.

Contents

Note

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

emailAddress

The email address of the superuser.

Type: String

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

Pattern: `[A-Z0-9a-z._%+-]+@[A-Za-z0-9.-]+[.]+[A-Za-z]+`

Required: Yes

firstName

The first name of the superuser.

Type: String

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

Pattern: `^[a-zA-Z0-9]{1,50}$`

Required: Yes

lastName

The last name of the superuser.

Type: String

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

Pattern: `^[a-zA-Z0-9]{1,50}$`

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](#)

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'THHMMSS'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*.