
Amazon AppStream 2.0

API Reference

API Version 2016-12-01



Amazon AppStream 2.0: API Reference

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Welcome

API documentation for Amazon AppStream 2.0.

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Actions

The following actions are supported:

- [AssociateFleet \(p. 3\)](#)
- [CreateFleet \(p. 5\)](#)
- [CreateStack \(p. 9\)](#)
- [CreateStreamingURL \(p. 12\)](#)
- [DeleteFleet \(p. 15\)](#)
- [DeleteStack \(p. 17\)](#)
- [DescribeFleets \(p. 19\)](#)
- [DescribeImages \(p. 22\)](#)
- [DescribeSessions \(p. 24\)](#)
- [DescribeStacks \(p. 27\)](#)
- [DisassociateFleet \(p. 30\)](#)
- [ExpireSession \(p. 32\)](#)
- [ListAssociatedFleets \(p. 33\)](#)
- [ListAssociatedStacks \(p. 35\)](#)
- [StartFleet \(p. 37\)](#)
- [StopFleet \(p. 39\)](#)
- [UpdateFleet \(p. 41\)](#)
- [UpdateStack \(p. 46\)](#)

AssociateFleet

Associate a fleet to a stack.

Request Syntax

```
{  
    "FleetName": "string",  
    "StackName": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 69\)](#).

The request accepts the following data in JSON format.

FleetName (p. 3)

The name of the fleet to associate.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

StackName (p. 3)

The name of the stack to which the fleet is associated.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

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 \(p. 71\)](#).

ConcurrentModificationException

An API error occurred. Wait a few minutes and try again.

HTTP Status Code: 400

IncompatibleImageException

The image does not support storage connectors.

HTTP Status Code: 400

LimitExceeded

The requested limit exceeds the permitted limit for an account.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource was not 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](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

CreateFleet

Creates a new fleet.

Request Syntax

```
{  
    "ComputeCapacity": {  
        "DesiredInstances": number  
    },  
    "Description": "string",  
    "DisconnectTimeoutInSeconds": number,  
    "DisplayName": "string",  
    "EnableDefaultInternetAccess": boolean,  
    "ImageName": "string",  
    "InstanceType": "string",  
    "MaxUserDurationInSeconds": number,  
    "Name": "string",  
    "VpcConfig": {  
        "SecurityGroupIds": [ "string" ],  
        "SubnetIds": [ "string" ]  
    }  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 69\)](#).

The request accepts the following data in JSON format.

ComputeCapacity (p. 5)

The parameters for the capacity allocated to the fleet.

Type: [ComputeCapacity \(p. 52\)](#) object

Required: Yes

Description (p. 5)

The description of the fleet.

Type: String

Length Constraints: Maximum length of 256.

Required: No

DisconnectTimeoutInSeconds (p. 5)

The time after disconnection when a session is considered to have ended. If a user who got disconnected reconnects within this timeout interval, the user is connected back to their previous session. The input can be any numeric value in seconds between 60 and 57600.

Type: Integer

Required: No

DisplayName (p. 5)

The display name of the fleet.

Type: String

Length Constraints: Maximum length of 100.

Required: No

[EnableDefaultInternetAccess \(p. 5\)](#)

Enables or disables default Internet access for the fleet.

Type: Boolean

Required: No

[ImageName \(p. 5\)](#)

Unique name of the image used by the fleet.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

[InstanceType \(p. 5\)](#)

The instance type of compute resources for the fleet. Fleet instances are launched from this instance type.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

[MaxUserDurationInSeconds \(p. 5\)](#)

The maximum time for which a streaming session can run. The input can be any numeric value in seconds between 600 and 57600.

Type: Integer

Required: No

[Name \(p. 5\)](#)

A unique identifier for the fleet.

Type: String

Pattern: ^[a-zA-Z0-9][a-zA-Z0-9_.-]{0,100}\$

Required: Yes

[VpcConfig \(p. 5\)](#)

The VPC configuration for the fleet.

Type: [VpcConfig \(p. 68\)](#) object

Required: No

Response Syntax

```
{
```

```
"Fleet": {  
    "Arn": "string",  
    "ComputeCapacityStatus": {  
        "Available": number,  
        "Desired": number,  
        "InUse": number,  
        "Running": number  
    },  
    "CreatedTime": number,  
    "Description": "string",  
    "DisconnectTimeoutInSeconds": number,  
    "DisplayName": "string",  
    "EnableDefaultInternetAccess": boolean,  
    "FleetErrors": [  
        {  
            "ErrorCode": "string",  
            "ErrorMessage": "string"  
        }  
    ],  
    "ImageName": "string",  
    "InstanceType": "string",  
    "MaxUserDurationInSeconds": number,  
    "Name": "string",  
    "State": "string",  
    "VpcConfig": {  
        "SecurityGroupIds": [ "string" ],  
        "SubnetIds": [ "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.

Fleet (p. 6)

The details for the created fleet.

Type: [Fleet \(p. 54\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 71\)](#).

ConcurrentModificationException

An API error occurred. Wait a few minutes and try again.

HTTP Status Code: 400

InvalidRoleException

The specified role is invalid.

HTTP Status Code: 400

LimitExceededException

The requested limit exceeds the permitted limit for an account.

HTTP Status Code: 400

ResourceAlreadyExistsException

The specified resource already exists.

HTTP Status Code: 400

ResourceNotAvailableException

The specified resource exists and is not in use, but isn't available.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource was not 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](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

CreateStack

Create a new stack.

Request Syntax

```
{  
    "Description": "string",  
    "DisplayName": "string",  
    "Name": "string",  
    "StorageConnectors": [  
        {  
            "ConnectorType": "string",  
            "ResourceIdentifier": "string"  
        }  
    ]  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 69\)](#).

The request accepts the following data in JSON format.

Description (p. 9)

The description displayed to end users on the AppStream 2.0 portal.

Type: String

Length Constraints: Maximum length of 256.

Required: No

DisplayName (p. 9)

The name displayed to end users on the AppStream 2.0 portal.

Type: String

Length Constraints: Maximum length of 100.

Required: No

Name (p. 9)

The unique identifier for this stack.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

StorageConnectors (p. 9)

The storage connectors to be enabled for the stack.

Type: Array of [StorageConnector \(p. 67\)](#) objects

Required: No

Response Syntax

```
{  
    "Stack": {  
        "Arn": "string",  
        "CreatedTime": number,  
        "Description": "string",  
        "DisplayName": "string",  
        "Name": "string",  
        "StackErrors": [  
            {  
                "ErrorCode": "string",  
                "ErrorMessage": "string"  
            }  
        ],  
        "StorageConnectors": [  
            {  
                "ConnectorType": "string",  
                "ResourceIdentifier": "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.

Stack (p. 10)

The details for the created stack.

Type: [Stack \(p. 64\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 71\)](#).

ConcurrentModificationException

An API error occurred. Wait a few minutes and try again.

HTTP Status Code: 400

InvalidParameterCombinationException

Indicates an incorrect combination of parameters, or a missing parameter.

HTTP Status Code: 400

InvalidRoleException

The specified role is invalid.

HTTP Status Code: 400

LimitExceeded

The requested limit exceeds the permitted limit for an account.

HTTP Status Code: 400

ResourceAlreadyExistsException

The specified resource already exists.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource was not 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](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

CreateStreamingURL

Creates a URL to start an AppStream 2.0 streaming session for a user. By default, the URL is valid only for 1 minute from the time that it is generated.

Request Syntax

```
{  
    "ApplicationId": "string",  
    "FleetName": "string",  
    "SessionContext": "string",  
    "StackName": "string",  
    "UserId": "string",  
    "Validity": number  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 69\)](#).

The request accepts the following data in JSON format.

[ApplicationId \(p. 12\)](#)

The ID of the application that must be launched after the session starts.

Type: String

Length Constraints: Minimum length of 1.

Required: No

[FleetName \(p. 12\)](#)

The fleet for which the URL is generated.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

[SessionContext \(p. 12\)](#)

The sessionContext of the streaming URL.

Type: String

Length Constraints: Minimum length of 1.

Required: No

[StackName \(p. 12\)](#)

The stack for which the URL is generated.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

UserId (p. 12)

A unique user ID for whom the URL is generated.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 32.

Required: Yes

Validity (p. 12)

The duration up to which the URL returned by this action is valid. The input can be any numeric value in seconds between 1 and 604800 seconds.

Type: Long

Required: No

Response Syntax

```
{  
    "Expires": number,  
    "StreamingURL": "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.

Expires (p. 13)

Elapsed seconds after the Unix epoch, at which time this URL expires.

Type: Timestamp

StreamingURL (p. 13)

The URL to start the AppStream 2.0 streaming session.

Type: String

Length Constraints: Minimum length of 1.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 71\)](#).

InvalidParameterCombinationException

Indicates an incorrect combination of parameters, or a missing parameter.

HTTP Status Code: 400

OperationNotPermittedException

The attempted operation is not permitted.

HTTP Status Code: 400

ResourceNotAvailableException

The specified resource exists and is not in use, but isn't available.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource was not 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](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

DeleteFleet

Deletes a fleet.

Request Syntax

```
{  
    "Name": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 69\)](#).

The request accepts the following data in JSON format.

Name (p. 15)

The name of the fleet to be deleted.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

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 \(p. 71\)](#).

ConcurrentModificationException

An API error occurred. Wait a few minutes and try again.

HTTP Status Code: 400

ResourceInUseException

The specified resource is in use.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource was not 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](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

DeleteStack

Deletes the stack. After this operation completes, the environment can no longer be activated, and any reservations made for the stack are released.

Request Syntax

```
{  
    "Name": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 69\)](#).

The request accepts the following data in JSON format.

Name (p. 17)

The name of the stack to delete.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

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 \(p. 71\)](#).

ConcurrentModificationException

An API error occurred. Wait a few minutes and try again.

HTTP Status Code: 400

ResourceInUseException

The specified resource is in use.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource was not 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](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

DescribeFleets

If fleet names are provided, this operation describes the specified fleets; otherwise, all the fleets in the account are described.

Request Syntax

```
{  
    "Names": [ "string" ],  
    "NextToken": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 69\)](#).

The request accepts the following data in JSON format.

[Names \(p. 19\)](#)

The fleet names to describe. Use null to describe all the fleets for the AWS account.

Type: Array of strings

Length Constraints: Minimum length of 1.

Required: No

[NextToken \(p. 19\)](#)

The pagination token to use to retrieve the next page of results for this operation. If this value is null, it retrieves the first page.

Type: String

Length Constraints: Minimum length of 1.

Required: No

Response Syntax

```
{  
    "Fleets": [  
        {  
            "Arn": "string",  
            "ComputeCapacityStatus": {  
                "Available": number,  
                "Desired": number,  
                "InUse": number,  
                "Running": number  
            },  
            "CreatedTime": number,  
            "Description": "string",  
            "DisconnectTimeoutInSeconds": number,  
            "DisplayName": "string",  
            "EnableDefaultInternetAccess": boolean,  
            "FleetId": "string",  
            "LastModifiedTime": number,  
            "Name": "string",  
            "Status": "string",  
            "StatusReason": "string",  
            "StatusReasonCode": "string",  
            "StatusReasonSummary": "string",  
            "StatusReasonText": "string",  
            "StatusText": "string",  
            "Thumbnail": "string",  
            "ThumbnailType": "string",  
            "ThumbnailWidth": number  
        }  
    ]  
}
```

```
"FleetErrors": [  
    {  
        "ErrorCode": "string",  
        "ErrorMessage": "string"  
    }  
,  
    "ImageName": "string",  
    "InstanceType": "string",  
    "MaxUserDurationInSeconds": number,  
    "Name": "string",  
    "State": "string",  
    "VpcConfig": {  
        "SecurityGroupIds": [ "string" ],  
        "SubnetIds": [ "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.

Fleets (p. 19)

The list of fleet details.

Type: Array of [Fleet \(p. 54\)](#) objects

NextToken (p. 19)

The pagination token to use to retrieve the next page of results for this operation. If there are no more pages, this value is null.

Type: String

Length Constraints: Minimum length of 1.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 71\)](#).

ResourceNotFoundException

The specified resource was not 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](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

DescribeImages

Describes the images. If a list of names is not provided, all images in your account are returned. This operation does not return a paginated result.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 69\)](#).

The request accepts the following data in JSON format.

Names (p. 22)

A specific list of images to describe.

Type: Array of strings

Length Constraints: Minimum length of 1.

Required: No

Response Syntax

```
{  
    "Images": [  
        {  
            "Applications": [  
                {  
                    "DisplayName": "string",  
                    "Enabled": boolean,  
                    "IconURL": "string",  
                    "LaunchParameters": "string",  
                    "LaunchPath": "string",  
                    "Metadata": {  
                        "string" : "string"  
                    },  
                    "Name": "string"  
                }  
            ],  
            "Arn": "string",  
            "BaseImageArn": "string",  
            "CreatedTime": number,  
            "Description": "string",  
            "DisplayName": "string",  
            "ImageBuilderSupported": boolean,  
            "Name": "string",  
            "Platform": "string",  
            "PublicBaseImageReleasedDate": number,  
            "State": "string",  
            "StateChangeReason": {  
                "string": "string"  
            }  
        }  
    ]  
}
```

```
        "Code": "string",
        "Message": "string"
    },
    "Visibility": "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.

[Images \(p. 22\)](#)

The list of images.

Type: Array of [Image \(p. 58\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 71\)](#).

ResourceNotFoundException

The specified resource was not 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](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

DescribeSessions

Describes the streaming sessions for a stack and a fleet. If a user ID is provided, this operation returns streaming sessions for only that user. Pass this value for the `nextToken` parameter in a subsequent call to this operation to retrieve the next set of items. If an authentication type is not provided, the operation defaults to users authenticated using a streaming URL.

Request Syntax

```
{  
    "AuthenticationType": "string",  
    "FleetName": "string",  
    "Limit": number,  
    "NextToken": "string",  
    "StackName": "string",  
    "UserId": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 69\)](#).

The request accepts the following data in JSON format.

[AuthenticationType \(p. 24\)](#)

The authentication method of the user. It can be `API` for a user authenticated using a streaming URL, or `SAML` for a SAML federated user. If an authentication type is not provided, the operation defaults to users authenticated using a streaming URL.

Type: String

Valid Values: `API` | `SAML` | `USERPOOL`

Required: No

[FleetName \(p. 24\)](#)

The name of the fleet for which to list sessions.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

[Limit \(p. 24\)](#)

The size of each page of results. The default value is 20 and the maximum supported value is 50.

Type: Integer

Required: No

[NextToken \(p. 24\)](#)

The pagination token to use to retrieve the next page of results for this operation. If this value is null, it retrieves the first page.

Type: String

Length Constraints: Minimum length of 1.

Required: No

[StackName \(p. 24\)](#)

The name of the stack for which to list sessions.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

[UserId \(p. 24\)](#)

The user for whom to list sessions. Use null to describe all the sessions for the stack and fleet.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 32.

Required: No

Response Syntax

```
{  
    "NextToken": "string",  
    "Sessions": [  
        {  
            "AuthenticationType": "string",  
            "FleetName": "string",  
            "Id": "string",  
            "StackName": "string",  
            "State": "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 \(p. 25\)](#)

The pagination token to use to retrieve the next page of results for this operation. If there are no more pages, this value is null.

Type: String

Length Constraints: Minimum length of 1.

[Sessions \(p. 25\)](#)

The list of streaming sessions.

Type: Array of [Session \(p. 62\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 71\)](#).

InvalidParameterCombinationException

Indicates an incorrect combination of parameters, or a missing parameter.

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](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

DescribeStacks

If stack names are not provided, this operation describes the specified stacks; otherwise, all stacks in the account are described. Pass the `nextToken` value in a subsequent call to this operation to retrieve the next set of items.

Request Syntax

```
{  
    "Names": [ "string" ],  
    "NextToken": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 69\)](#).

The request accepts the following data in JSON format.

Names (p. 27)

The stack names to describe. Use null to describe all the stacks for the AWS account.

Type: Array of strings

Length Constraints: Minimum length of 1.

Required: No

NextToken (p. 27)

The pagination token to use to retrieve the next page of results for this operation. If this value is null, it retrieves the first page.

Type: String

Length Constraints: Minimum length of 1.

Required: No

Response Syntax

```
{  
    "NextToken": "string",  
    "Stacks": [  
        {  
            "Arn": "string",  
            "CreatedTime": number,  
            "Description": "string",  
            "DisplayName": "string",  
            "Name": "string",  
            "StackErrors": [  
                {  
                    "ErrorCode": "string",  
                    "ErrorMessage": "string"  
                }  
            ]  
        }  
    ]  
}
```

```
        ],
        "StorageConnectors": [
            {
                "ConnectorType": "string",
                "ResourceIdentifier": "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 \(p. 27\)](#)

The pagination token to use to retrieve the next page of results for this operation. If there are no more pages, this value is null.

Type: String

Length Constraints: Minimum length of 1.

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

The list of stack details.

Type: Array of [Stack \(p. 64\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 71\)](#).

ResourceNotFoundException

The specified resource was not 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](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

DisassociateFleet

Disassociates a fleet from a stack.

Request Syntax

```
{  
    "FleetName": "string",  
    "StackName": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 69\)](#).

The request accepts the following data in JSON format.

FleetName (p. 30)

The name of the fleet to disassociate.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

StackName (p. 30)

The name of the stack with which the fleet is associated.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

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 \(p. 71\)](#).

ConcurrentModificationException

An API error occurred. Wait a few minutes and try again.

HTTP Status Code: 400

ResourceInUseException

The specified resource is in use.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource was not 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](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

ExpireSession

This operation immediately stops a streaming session.

Request Syntax

```
{  
    "SessionId": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 69\)](#).

The request accepts the following data in JSON format.

[SessionId \(p. 32\)](#)

The unique identifier of the streaming session to be stopped.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

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 \(p. 71\)](#).

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](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

ListAssociatedFleets

Lists all fleets associated with the stack.

Request Syntax

```
{  
    "NextToken": "string",  
    "StackName": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 69\)](#).

The request accepts the following data in JSON format.

[NextToken \(p. 33\)](#)

The pagination token to use to retrieve the next page of results for this operation. If this value is null, it retrieves the first page.

Type: String

Length Constraints: Minimum length of 1.

Required: No

[StackName \(p. 33\)](#)

The name of the stack whose associated fleets are listed.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

Response Syntax

```
{  
    "Names": [ "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.

[Names \(p. 33\)](#)

The names of associated fleets.

Type: Array of strings

Length Constraints: Minimum length of 1.

NextToken (p. 33)

The pagination token to use to retrieve the next page of results for this operation. If there are no more pages, this value is null.

Type: String

Length Constraints: Minimum length of 1.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 71\)](#).

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](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

ListAssociatedStacks

Lists all stacks to which the specified fleet is associated.

Request Syntax

```
{  
    "FleetName": "string",  
    "NextToken": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 69\)](#).

The request accepts the following data in JSON format.

[FleetName \(p. 35\)](#)

The name of the fleet whose associated stacks are listed.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

[NextToken \(p. 35\)](#)

The pagination token to use to retrieve the next page of results for this operation. If this value is null, it retrieves the first page.

Type: String

Length Constraints: Minimum length of 1.

Required: No

Response Syntax

```
{  
    "Names": [ "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.

[Names \(p. 35\)](#)

The names of associated stacks.

Type: Array of strings

Length Constraints: Minimum length of 1.

[NextToken \(p. 35\)](#)

The pagination token to use to retrieve the next page of results for this operation. If there are no more pages, this value is null.

Type: String

Length Constraints: Minimum length of 1.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 71\)](#).

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](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

StartFleet

Starts a fleet.

Request Syntax

```
{  
    "Name": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 69\)](#).

The request accepts the following data in JSON format.

Name (p. 37)

The name of the fleet to start.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

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 \(p. 71\)](#).

ConcurrentModificationException

An API error occurred. Wait a few minutes and try again.

HTTP Status Code: 400

LimitExceededException

The requested limit exceeds the permitted limit for an account.

HTTP Status Code: 400

OperationNotPermittedException

The attempted operation is not permitted.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource was not 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](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

StopFleet

Stops a fleet.

Request Syntax

```
{  
    "Name": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 69\)](#).

The request accepts the following data in JSON format.

Name (p. 39)

The name of the fleet to stop.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

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 \(p. 71\)](#).

ConcurrentModificationException

An API error occurred. Wait a few minutes and try again.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource was not 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](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

UpdateFleet

Updates an existing fleet. All the attributes except the fleet name can be updated in the **STOPPED** state. When a fleet is in the **RUNNING** state, only `DisplayName` and `ComputeCapacity` can be updated. A fleet cannot be updated in a status of **STARTING** or **STOPPING**.

Request Syntax

```
{  
    "AttributesToDelete": [ "string" ],  
    "ComputeCapacity": {  
        "DesiredInstances": number  
    },  
    "DeleteVpcConfig": boolean,  
    "Description": "string",  
    "DisconnectTimeoutInSeconds": number,  
    "DisplayName": "string",  
    "EnableDefaultInternetAccess": boolean,  
    "ImageName": "string",  
    "InstanceType": "string",  
    "MaxUserDurationInSeconds": number,  
    "Name": "string",  
    "VpcConfig": {  
        "SecurityGroupIds": [ "string" ],  
        "SubnetIds": [ "string" ]  
    }  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 69\)](#).

The request accepts the following data in JSON format.

[AttributesToDelete \(p. 41\)](#)

Fleet attributes to be deleted.

Type: Array of strings

Valid Values: `VPC_CONFIGURATION` | `VPC_CONFIGURATION_SECURITY_GROUP_IDS`

Required: No

[ComputeCapacity \(p. 41\)](#)

The parameters for the capacity allocated to the fleet.

Type: [ComputeCapacity \(p. 52\)](#) object

Required: No

[DeleteVpcConfig \(p. 41\)](#)

This parameter has been deprecated.

Delete the VPC association for the specified fleet.

Type: Boolean

Required: No

[Description \(p. 41\)](#)

The description displayed to end users on the AppStream 2.0 portal.

Type: String

Length Constraints: Maximum length of 256.

Required: No

[DisconnectTimeoutInSeconds \(p. 41\)](#)

The time after disconnection when a session is considered to have ended. If a user who got disconnected reconnects within this timeout interval, the user is connected back to their previous session. The input can be any numeric value in seconds between 60 and 57600.

Type: Integer

Required: No

[DisplayName \(p. 41\)](#)

The name displayed to end users on the AppStream 2.0 portal.

Type: String

Length Constraints: Maximum length of 100.

Required: No

[EnableDefaultInternetAccess \(p. 41\)](#)

Enables or disables default Internet access for the fleet.

Type: Boolean

Required: No

[ImageName \(p. 41\)](#)

The image name from which a fleet is created.

Type: String

Length Constraints: Minimum length of 1.

Required: No

[InstanceType \(p. 41\)](#)

The instance type of compute resources for the fleet. Fleet instances are launched from this instance type.

Type: String

Length Constraints: Minimum length of 1.

Required: No

[MaxUserDurationInSeconds \(p. 41\)](#)

The maximum time for which a streaming session can run. The input can be any numeric value in seconds between 600 and 57600.

Type: Integer

Required: No

[Name \(p. 41\)](#)

The name of the fleet.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

[VpcConfig \(p. 41\)](#)

The VPC configuration for the fleet.

Type: [VpcConfig \(p. 68\)](#) object

Required: No

Response Syntax

```
{  
    "Fleet": {  
        "Arn": "string",  
        "ComputeCapacityStatus": {  
            "Available": number,  
            "Desired": number,  
            "InUse": number,  
            "Running": number  
        },  
        "CreatedTime": number,  
        "Description": "string",  
        "DisconnectTimeoutInSeconds": number,  
        "DisplayName": "string",  
        "EnableDefaultInternetAccess": boolean,  
        "FleetErrors": [  
            {  
                "ErrorCode": "string",  
                "ErrorMessage": "string"  
            }  
        ],  
        "ImageName": "string",  
        "InstanceType": "string",  
        "MaxUserDurationInSeconds": number,  
        "Name": "string",  
        "State": "string",  
        "VpcConfig": {  
            "SecurityGroupIds": [ "string" ],  
            "SubnetIds": [ "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.

[Fleet \(p. 43\)](#)

A list of fleet details.

Type: [Fleet \(p. 54\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 71\)](#).

ConcurrentModificationException

An API error occurred. Wait a few minutes and try again.

HTTP Status Code: 400

IncompatibleImageException

The image does not support storage connectors.

HTTP Status Code: 400

InvalidParameterCombinationException

Indicates an incorrect combination of parameters, or a missing parameter.

HTTP Status Code: 400

InvalidRoleException

The specified role is invalid.

HTTP Status Code: 400

LimitExceededException

The requested limit exceeds the permitted limit for an account.

HTTP Status Code: 400

ResourceInUseException

The specified resource is in use.

HTTP Status Code: 400

ResourceNotAvailableException

The specified resource exists and is not in use, but isn't available.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource was not 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](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

UpdateStack

Updates the specified fields in the stack with the specified name.

Request Syntax

```
{  
    "DeleteStorageConnectors": boolean,  
    "Description": string,  
    "DisplayName": string,  
    "Name": string,  
    "StorageConnectors": [  
        {  
            "ConnectorType": string,  
            "ResourceIdentifier": string  
        }  
    ]  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 69\)](#).

The request accepts the following data in JSON format.

[DeleteStorageConnectors \(p. 46\)](#)

Remove all the storage connectors currently enabled for the stack.

Type: Boolean

Required: No

[Description \(p. 46\)](#)

The description displayed to end users on the AppStream 2.0 portal.

Type: String

Length Constraints: Maximum length of 256.

Required: No

[DisplayName \(p. 46\)](#)

The name displayed to end users on the AppStream 2.0 portal.

Type: String

Length Constraints: Maximum length of 100.

Required: No

[Name \(p. 46\)](#)

The name of the stack to update.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

[StorageConnectors \(p. 46\)](#)

The storage connectors to be enabled for the stack.

Type: Array of [StorageConnector \(p. 67\)](#) objects

Required: No

Response Syntax

```
{  
    "Stack": {  
        "Arn": "string",  
        "CreatedTime": number,  
        "Description": "string",  
        "DisplayName": "string",  
        "Name": "string",  
        "StackErrors": [  
            {  
                "ErrorCode": "string",  
                "ErrorMessage": "string"  
            }  
        ],  
        "StorageConnectors": [  
            {  
                "ConnectorType": "string",  
                "ResourceIdentifier": "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.

[Stack \(p. 47\)](#)

A list of stack details.

Type: [Stack \(p. 64\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 71\)](#).

IncompatibleImageException

The image does not support storage connectors.

HTTP Status Code: 400

InvalidParameterCombinationException

Indicates an incorrect combination of parameters, or a missing parameter.

HTTP Status Code: 400

InvalidRoleException

The specified role is invalid.

HTTP Status Code: 400

LimitExceededException

The requested limit exceeds the permitted limit for an account.

HTTP Status Code: 400

ResourceInUseException

The specified resource is in use.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource was not 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](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

Data Types

The Amazon AppStream 2.0 API contains several data types that various actions use. This section describes each data type in detail.

Note

The order of each element in a data type structure is not guaranteed. Applications should not assume a particular order.

The following data types are supported:

- [Application \(p. 50\)](#)
- [ComputeCapacity \(p. 52\)](#)
- [ComputeCapacityStatus \(p. 53\)](#)
- [Fleet \(p. 54\)](#)
- [FleetError \(p. 57\)](#)
- [Image \(p. 58\)](#)
- [ImageStateChangeReason \(p. 61\)](#)
- [Session \(p. 62\)](#)
- [Stack \(p. 64\)](#)
- [StackError \(p. 66\)](#)
- [StorageConnector \(p. 67\)](#)
- [VpcConfig \(p. 68\)](#)

Application

An entry for a single application in the application catalog.

Contents

DisplayName

The name of the application shown to the end users.

Type: String

Length Constraints: Minimum length of 1.

Required: No

Enabled

An application can be disabled after image creation if there is a problem.

Type: Boolean

Required: No

IconURL

The URL for the application icon. This URL may be time-limited.

Type: String

Length Constraints: Minimum length of 1.

Required: No

LaunchParameters

A list of arguments that are passed to the application at launch.

Type: String

Length Constraints: Minimum length of 1.

Required: No

LaunchPath

The path to the application executable in the instance.

Type: String

Length Constraints: Minimum length of 1.

Required: No

Metadata

Additional attributes that describe the application.

Type: String to string map

Length Constraints: Minimum length of 1.

Required: No

Name

The unique identifier for the application.

Type: String

Length Constraints: Minimum length of 1.

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](#)
- [AWS SDK for Ruby V2](#)

ComputeCapacity

The capacity configuration for the fleet.

Contents

DesiredInstances

The desired number of streaming instances.

Type: Integer

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](#)
- [AWS SDK for Ruby V2](#)

ComputeCapacityStatus

The capacity information for the fleet.

Contents

Available

The number of currently available instances that can be used to stream sessions.

Type: Integer

Required: No

Desired

The desired number of streaming instances.

Type: Integer

Required: Yes

InUse

The number of instances that are being used for streaming.

Type: Integer

Required: No

Running

The total number of simultaneous streaming instances that are running.

Type: Integer

Required: No

See Also

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

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

Fleet

Contains the parameters for a fleet.

Contents

Arn

The ARN for the fleet.

Type: String

Pattern: ^arn:aws:[A-Za-z0-9][A-Za-z0-9_/-]{0,62}:[A-Za-z0-9_/-]{0,63}:[A-Za-z0-9_/-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+@.-]{0,1023}\$

Required: Yes

ComputeCapacityStatus

The capacity information for the fleet.

Type: [ComputeCapacityStatus \(p. 53\)](#) object

Required: Yes

CreatedTime

The time at which the fleet was created.

Type: Timestamp

Required: No

Description

The description displayed to end users on the AppStream 2.0 portal.

Type: String

Length Constraints: Minimum length of 1.

Required: No

DisconnectTimeoutInSeconds

The time after disconnection when a session is considered to have ended. If a user who got disconnected reconnects within this timeout interval, the user is connected back to their previous session. The input can be any numeric value in seconds between 60 and 57600.

Type: Integer

Required: No

DisplayName

The name displayed to end users on the AppStream 2.0 portal.

Type: String

Length Constraints: Minimum length of 1.

Required: No

EnableDefaultInternetAccess

Whether default Internet access is enabled for the fleet.

Type: Boolean

Required: No

FleetErrors

The list of fleet errors is appended to this list.

Type: Array of [FleetError \(p. 57\)](#) objects

Required: No

ImageName

The image used by the fleet.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

InstanceType

The instance type of compute resources for the fleet. The fleet instances are launched from this instance type.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

MaxUserDurationInSeconds

The maximum time for which a streaming session can run. The value can be any numeric value in seconds between 600 and 57600.

Type: Integer

Required: No

Name

The name of the fleet.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

State

The current state for the fleet.

Type: String

Valid Values: STARTING | RUNNING | STOPPING | STOPPED

Required: Yes

VpcConfig

The VPC configuration for the fleet.

Type: [VpcConfig \(p. 68\)](#) 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](#)
- [AWS SDK for Ruby V2](#)

FleetError

The details of the fleet error.

Contents

ErrorCode

The error code for the fleet error.

Type: String

Valid Values: IAM_SERVICE_ROLE_MISSING_ENI_DESCRIBE_ACTION | IAM_SERVICE_ROLE_MISSING_ENI_CREATE_ACTION | IAM_SERVICE_ROLE_MISSING_ENI_DELETE_ACTION | NETWORK_INTERFACE_LIMIT_EXCEEDED | INTERNAL_SERVICE_ERROR | IAM_SERVICE_ROLE_IS_MISSING | SUBNET_HAS_INSUFFICIENT_IP_ADDRESSES | IAM_SERVICE_ROLE_MISSING_DESCRIBE_SUBNET_ACTION | SUBNET_NOT_FOUND | IMAGE_NOT_FOUND | INVALID_SUBNET_CONFIGURATION

Required: No

ErrorMessage

The error message generated when the fleet has errors.

Type: String

Length Constraints: Minimum length of 1.

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](#)
- [AWS SDK for Ruby V2](#)

Image

New streaming instances are booted from images. The image stores the application catalog and is connected to fleets.

Contents

Applications

The applications associated with an image.

Type: Array of [Application \(p. 50\)](#) objects

Required: No

Arn

The ARN for the image.

Type: String

Pattern: ^arn:aws:[A-Za-z0-9][A-Za-z0-9_/-]{0,62}:[A-Za-z0-9_/-]{0,63}:[A-Za-z0-9_/-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+@.-]{0,1023}\$

Required: No

BaseImageArn

The source image ARN from which this image was created.

Type: String

Pattern: ^arn:aws:[A-Za-z0-9][A-Za-z0-9_/-]{0,62}:[A-Za-z0-9_/-]{0,63}:[A-Za-z0-9_/-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+@.-]{0,1023}\$

Required: No

CreatedTime

The timestamp when the image was created.

Type: Timestamp

Required: No

Description

A meaningful description for the image.

Type: String

Length Constraints: Minimum length of 1.

Required: No

DisplayName

The display name for the image.

Type: String

Length Constraints: Minimum length of 1.

Required: No

ImageBuilderSupported

Whether an image builder can be launched from this image.

Type: Boolean

Required: No

Name

The unique identifier for the image.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

Platform

The operating system platform of the image.

Type: String

Valid Values: WINDOWS

Required: No

PublicBaseImageReleasedDate

The AWS release date of the public base image. For private images, this date is the release date of the base image from which the image was created.

Type: Timestamp

Required: No

State

The image starts in the **PENDING** state, and then moves to **AVAILABLE** if image creation succeeds and **FAILED** if image creation has failed.

Type: String

Valid Values: PENDING | AVAILABLE | FAILED | DELETING

Required: No

StateChangeReason

The reason why the last state change occurred.

Type: [ImageStateChangeReason \(p. 61\)](#) object

Required: No

Visibility

The visibility of an image to the user; images can be public or private.

Type: String

Valid Values: PUBLIC | PRIVATE

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](#)
- [AWS SDK for Ruby V2](#)

ImageStateChangeReason

The reason why the last state change occurred.

Contents

Code

The state change reason code of the image.

Type: String

Valid Values: INTERNAL_ERROR | IMAGE_BUILDER_NOT_AVAILABLE

Required: No

Message

The state change reason message to the end user.

Type: String

Length Constraints: Minimum length of 1.

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](#)
- [AWS SDK for Ruby V2](#)

Session

Contains the parameters for a streaming session.

Contents

AuthenticationType

The authentication method of the user for whom the session was created. It can be `API` for a user authenticated using a streaming URL or `SAML` for a SAML federated user.

Type: String

Valid Values: `API` | `SAML` | `USERPOOL`

Required: No

FleetName

The name of the fleet for which the streaming session was created.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

Id

The unique ID for a streaming session.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

StackName

The name of the stack for which the streaming session was created.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

State

The current state of the streaming session.

Type: String

Valid Values: `ACTIVE` | `PENDING` | `EXPIRED`

Required: Yes

UserId

The identifier of the user for whom the session was created.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 32.

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](#)
- [AWS SDK for Ruby V2](#)

Stack

Details about a stack.

Contents

Arn

The ARN of the stack.

Type: String

Pattern: ^arn:aws:[A-Za-z0-9][A-Za-z0-9_/-]{0,62}:[A-Za-z0-9_/-]{0,63}:[A-Za-z0-9_/-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+@.-]{0,1023}\$

Required: No

CreatedTime

The timestamp when the stack was created.

Type: Timestamp

Required: No

Description

A meaningful description for the stack.

Type: String

Length Constraints: Minimum length of 1.

Required: No

DisplayName

A display name for the stack.

Type: String

Length Constraints: Minimum length of 1.

Required: No

Name

The unique identifier of the stack.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

StackErrors

The list of errors associated with the stack.

Type: Array of [StackError](#) (p. 66) objects

Required: No

StorageConnectors

The storage connectors to be enabled for the stack.

Type: Array of [StorageConnector \(p. 67\)](#) objects

Required: No

See Also

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

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

StackError

Contains the parameters for a stack error.

Contents

ErrorCode

The error code of a stack error.

Type: String

Valid Values: `STORAGE_CONNECTOR_ERROR` | `INTERNAL_SERVICE_ERROR`

Required: No

ErrorMessage

The error message of a stack error.

Type: String

Length Constraints: Minimum length of 1.

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](#)
- [AWS SDK for Ruby V2](#)

StorageConnector

Contains the parameters for a storage connector.

Contents

ConnectorType

The type of storage connector. The possible values include: HOMEFOLDERS.

Type: String

Valid Values: HOMEFOLDERS

Required: Yes

ResourceIdentifier

The ARN associated with the storage connector.

Type: String

Length Constraints: Minimum length of 1.

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](#)
- [AWS SDK for Ruby V2](#)

VpcConfig

VPC configuration information.

Contents

SecurityGroupIds

Security groups associated with the fleet.

Type: Array of strings

Array Members: Maximum number of 5 items.

Length Constraints: Minimum length of 1.

Required: No

SubnetIds

The list of subnets to which a network interface is established from the fleet instance.

Type: Array of strings

Length Constraints: Minimum length of 1.

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](#)
- [AWS SDK for Ruby V2](#)

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

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

InvalidClientId

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

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

ValidationException

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

HTTP Status Code: 400