
AWS Mainframe Modernization (M2)

API Reference

API Version 2021-04-28



AWS Mainframe Modernization (M2): API Reference

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Welcome

AWS Mainframe Modernization provides tools and resources to help you plan and implement migration and modernization from mainframes to AWS managed runtime environments. It provides tools for analyzing existing mainframe applications, developing or updating mainframe applications using COBOL or PL/I, and implementing an automated pipeline for continuous integration and continuous delivery (CI/CD) of the applications.

This document was last published on November 25, 2021.

Actions

The following actions are supported:

- [CreateApplication](#) (p. 3)
- [CreateDataSetImportTask](#) (p. 6)
- [CreateDeployment](#) (p. 9)
- [CreateEnvironment](#) (p. 12)
- [DeleteApplication](#) (p. 16)
- [DeleteEnvironment](#) (p. 18)
- [GetApplication](#) (p. 20)
- [GetBatchJobExecution](#) (p. 23)
- [GetDataSetImportTask](#) (p. 25)
- [GetDeployment](#) (p. 28)
- [GetEnvironment](#) (p. 30)
- [ListApplications](#) (p. 33)
- [ListBatchJobExecutions](#) (p. 36)
- [ListDataSetImportHistory](#) (p. 39)
- [ListEnvironments](#) (p. 42)
- [ListTagsForResource](#) (p. 44)
- [StartApplication](#) (p. 46)
- [StartBatchJob](#) (p. 48)
- [StopApplication](#) (p. 51)
- [TagResource](#) (p. 53)
- [UntagResource](#) (p. 55)
- [UpdateApplication](#) (p. 57)
- [UpdateEnvironment](#) (p. 60)

CreateApplication

Creates a new application with given parameters. Requires an existing environment and application definition file.

Request Syntax

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

{
  "definition": {
    "content": "string",
    "s3Location": "string"
  },
  "description": "string",
  "engineType": "string",
  "name": "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.

definition (p. 3)

The application definition for this application. You can specify either inline JSON or an S3 bucket location.

Type: [Definition \(p. 78\)](#) object

Required: Yes

description (p. 3)

The description of the application.

Type: String

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

Required: No

engineType (p. 3)

The type of the target platform for this application.

Type: String

Valid Values: `microfocus`

Required: Yes

name (p. 3)

The unique identifier of the application.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: Yes

tags (p. 3)

A list of tags to apply to the application.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

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

Key Pattern: `^(?!aws:).+$`

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

Required: No

Response Syntax

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

{
  "applicationArn": "string",
  "applicationVersion": number
}
```

Response Elements

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

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

applicationArn (p. 4)

The Amazon Resource Name (ARN) of the application.

Type: String

applicationVersion (p. 4)

The version number of the application.

Type: Integer

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 94\)](#).

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

ConflictException

The parameters provided in the request conflict with existing resources.

HTTP Status Code: 409

InternalServerErrorException

An unexpected error occurred during the processing of the request.

HTTP Status Code: 500

ThrottlingException

The number of requests made exceeds the limit.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

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](#)

CreateDataSetImportTask

Initiates a data set import task.

Request Syntax

```
POST /applications/applicationArn/dataset-import-task HTTP/1.1
Content-type: application/json

{
  "importConfig": {
    "dataSets": [
      {
        "dataSet": {
          "location": "string",
          "name": "string"
        },
        "externalLocation": {
          "s3Location": "string"
        }
      }
    ],
    "s3Location": "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

applicationArn (p. 6)

The Amazon Resource Name (ARN) of the application.

Required: Yes

Request Body

The request accepts the following data in JSON format.

importConfig (p. 6)

The data set import task configuration.

Type: [DataSetImportConfig](#) (p. 74) object

Required: Yes

Response Syntax

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

{
  "taskId": "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.

taskId (p. 6)

The task identifier. This operation is asynchronous. Use this identifier with the [GetDataSetImportTask](#) (p. 25) operation to obtain the status of this task.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 94).

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

ConflictException

The parameters provided in the request conflict with existing resources.

HTTP Status Code: 409

InternalServerErrorException

An unexpected error occurred during the processing of the request.

HTTP Status Code: 500

ThrottlingException

The number of requests made exceeds the limit.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

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](#)

CreateDeployment

Creates and starts a deployment to deploy an application into an environment.

Request Syntax

```
POST /applications/applicationArn/deployments HTTP/1.1
Content-type: application/json

{
  "applicationVersion": number,
  "environmentArn": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[applicationArn \(p. 9\)](#)

The Amazon Resource Name (ARN) of the application.

Required: Yes

Request Body

The request accepts the following data in JSON format.

[applicationVersion \(p. 9\)](#)

The version of the application to deploy.

Type: Integer

Required: Yes

[environmentArn \(p. 9\)](#)

The Amazon Resource Name (ARN) of the environment where this application will be deployed.

Type: String

Required: Yes

Response Syntax

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

{
  "deploymentId": "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.

deploymentId (p. 9)

The unique identifier of the deployment.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 94\)](#).

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

ConflictException

The parameters provided in the request conflict with existing resources.

HTTP Status Code: 409

InternalServerErrorException

An unexpected error occurred during the processing of the request.

HTTP Status Code: 500

ThrottlingException

The number of requests made exceeds the limit.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

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](#)

CreateEnvironment

Creates a runtime environment for a given runtime engine.

Request Syntax

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

{
  "description": "string",
  "desiredCapacity": number,
  "engineType": "string",
  "engineVersion": "string",
  "haEnabled": boolean,
  "instanceType": "string",
  "name": "string",
  "publiclyAccessible": boolean,
  "securityGroupIds": [ "string" ],
  "storageConfigurations": [
    {
      "efs": {
        "file-system-id": "string",
        "mount-point": "string"
      },
      "fsx": {
        "file-system-id": "string",
        "mount-point": "string"
      }
    }
  ],
  "subnetIds": [ "string" ],
  "tags": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

description (p. 12)

The description of the environment.

Type: String

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

Required: No

desiredCapacity (p. 12)

The desired capacity for the environment.

Type: Integer

Required: No

engineType (p. 12)

The engine type for the environment.

Type: String

Valid Values: `microfocus`

Required: Yes

engineVersion (p. 12)

The version of the engine type for the environment.

Type: String

Required: No

haEnabled (p. 12)

Specifies whether the environment uses a high availability cluster.

Type: Boolean

Required: Yes

instanceType (p. 12)

The type of instance for the environment.

Type: String

Required: Yes

name (p. 12)

The unique identifier of the environment.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: Yes

publiclyAccessible (p. 12)

Specifies whether the environment is publicly accessible.

Type: Boolean

Required: No

securityGroupIds (p. 12)

The list of security groups for the VPC associated with this environment.

Type: Array of strings

Required: No

storageConfigurations (p. 12)

Optional. The storage configurations for this environment.

Type: Array of [StorageConfiguration \(p. 90\)](#) objects

Required: No

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

The list of subnets associated with the VPC for this environment.

Type: Array of strings

Required: No

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

The tags for the environment.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

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

Key Pattern: `^(?!aws:).+$`

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

Required: No

Response Syntax

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

{
  "environmentArn": "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 \(p. 14\)](#)

The Amazon Resource Name (ARN) that identifies this environment.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 94\)](#).

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

ConflictException

The parameters provided in the request conflict with existing resources.

HTTP Status Code: 409

InternalServerErrorException

An unexpected error occurred during the processing of the request.

HTTP Status Code: 500

ThrottlingException

The number of requests made exceeds the limit.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

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](#)

DeleteApplication

Deletes a specific application.

Request Syntax

```
DELETE /applications/applicationArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

applicationArn (p. 16)

The Amazon Resource Name (ARN) of the application to delete.

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. 94).

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

ConflictException

The parameters provided in the request conflict with existing resources.

HTTP Status Code: 409

InternalServerErrorException

An unexpected error occurred during the processing of the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

ThrottlingException

The number of requests made exceeds the limit.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

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

Deletes a specific environment. The environment cannot have applications running on it. If it does, those applications must be deleted before the environment can be deleted.

Request Syntax

```
DELETE /environments/environmentArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

environmentArn (p. 18)

The Amazon Resource Name (ARN) of the environment to delete.

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 \(p. 94\)](#).

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

ConflictException

The parameters provided in the request conflict with existing resources.

HTTP Status Code: 409

InternalServerErrorException

An unexpected error occurred during the processing of the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

ThrottlingException

The number of requests made exceeds the limit.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

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](#)

GetApplication

Describes the details of a specific application.

Request Syntax

```
GET /applications/applicationArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

applicationArn (p. 20)

The Amazon Resource Name (ARN) of the application.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "application": {
    "applicationArn": "string",
    "creationTime": number,
    "definition": {
      "content": "string",
      "s3Location": "string"
    },
    "deployedVersion": {
      "applicationVersion": number,
      "failureReason": "string",
      "status": "string"
    },
    "description": "string",
    "engineType": "string",
    "environmentArn": "string",
    "failureReason": "string",
    "lastStartTime": number,
    "latestVersion": {
      "applicationVersion": number,
      "failureReason": "string",
      "status": "string"
    },
    "listenerArns": [ "string" ],
    "name": "string",
    "status": "string",
    "tags": {
      "string" : "string"
    }
  },
}
```

```
    "targetGroupArn": "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.

application (p. 20)

The details of the application.

Type: [Application](#) (p. 64) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 94).

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

InternalServerErrorException

An unexpected error occurred during the processing of the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

ThrottlingException

The number of requests made exceeds the limit.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

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](#)

GetBatchJobExecution

Gets the details of a specific batch job execution.

Request Syntax

```
GET /applications/applicationArn/batch-job-executions/executionId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

applicationArn (p. 23)

The Amazon Resource Name (ARN) of the batch job execution.

Pattern: `^arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:~/+,@.-]{0,1023}$`

Required: Yes

executionId (p. 23)

The unique identifier of the batch job execution.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "batchJobExecution": {
    "applicationArn": "string",
    "endTime": number,
    "executionId": "string",
    "jobId": "string",
    "jobName": "string",
    "jobType": "string",
    "jobUser": "string",
    "result": "string",
    "startTime": number,
    "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.

[batchJobExecution](#) (p. 23)

Returns details about the batch job that is running.

Type: [BatchJobExecution](#) (p. 71) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 94).

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

InternalServerErrorException

An unexpected error occurred during the processing of the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

ThrottlingException

The number of requests made exceeds the limit.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

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](#)

GetDataSetImportTask

Gets the status of a data set import task initiated with the [CreateDataSetImportTask](#) (p. 6) operation.

Request Syntax

```
GET /applications/applicationArn/dataset-import-tasks/taskId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[applicationArn](#) (p. 25)

The Amazon Resource Name (ARN) of the application.

Required: Yes

[taskId](#) (p. 25)

The task identifier returned by the [CreateDataSetImportTask](#) (p. 6) operation.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "logStream": "string",
  "status": "string",
  "summary": {
    "failed": number,
    "inProgress": number,
    "pending": number,
    "succeeded": number,
    "total": number
  },
  "taskId": "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.

[logStream](#) (p. 25)

A combination of the CloudWatch Logs log group name and log stream name that contains the log entries for the task.

Type: String

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

The status of the task.

Type: String

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

A summary of the status of the task.

Type: [DataSetImportSummary \(p. 76\)](#) object

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

The task identifier.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 94\)](#).

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

InternalServerErrorException

An unexpected error occurred during the processing of the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

ThrottlingException

The number of requests made exceeds the limit.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

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](#)

GetDeployment

Gets details of a specific deployment with a given deployment identifier.

Request Syntax

```
GET /applications/applicationArn/deployments/deploymentId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

applicationArn (p. 28)

The Amazon Resource Name (ARN) for the deployment.

Required: Yes

deploymentId (p. 28)

The unique identifier for the deployment.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "deployment": {
    "applicationArn": "string",
    "applicationVersion": number,
    "creationTime": number,
    "deploymentId": "string",
    "environmentArn": "string",
    "failureReason": "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.

deployment (p. 28)

Returns details about the deployment.

Type: [Deployment](#) (p. 80) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 94).

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

InternalServerErrorException

An unexpected error occurred during the processing of the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

ThrottlingException

The number of requests made exceeds the limit.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

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

Describes a specific runtime environment.

Request Syntax

```
GET /environments/environmentArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[environmentArn \(p. 30\)](#)

The Amazon Resource Name (ARN) for the environment.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "environment": {
    "actualCapacity": number,
    "creationTime": number,
    "description": "string",
    "desiredCapacity": number,
    "engineType": "string",
    "engineVersion": "string",
    "environmentArn": "string",
    "failureReason": "string",
    "haEnabled": boolean,
    "instanceType": "string",
    "loadBalancerArn": "string",
    "name": "string",
    "publiclyAccessible": boolean,
    "securityGroupIds": [ "string" ],
    "status": "string",
    "storageConfigurations": [
      {
        "efs": {
          "file-system-id": "string",
          "mount-point": "string"
        },
        "fsx": {
          "file-system-id": "string",
          "mount-point": "string"
        }
      }
    ]
  }
}
```

```
"subnetIds": [ "string" ],  
"tags": {  
  "string" : "string"  
},  
"vpcId": "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. 30)

Returns details about the environment.

Type: [Environment](#) (p. 83) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 94).

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

InternalServerErrorException

An unexpected error occurred during the processing of the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

ThrottlingException

The number of requests made exceeds the limit.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

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](#)

ListApplications

Lists the applications running on a specific environment.

Request Syntax

```
GET /applications?  
environmentArn=environmentArn&maxResults=maxResults&names=names&nextToken=nextToken  
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

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

The Amazon Resource Name (ARN) of the environment.

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

The maximum number of applications to return.

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

The names of the applications running on the environment.

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

A pagination token to control the number of applications displayed in the list.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200  
Content-type: application/json  
  
{  
  "applications": [  
    {  
      "applicationArn": "string",  
      "applicationVersion": number,  
      "creationTime": number,  
      "description": "string",  
      "engineType": "string",  
      "environmentArn": "string",  
      "lastStartTime": number,  
      "name": "string",  
      "status": "string"  
    }  
  ],  
  "nextToken": "string"  
}
```


Response Elements

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

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

applications (p. 33)

Returns a list of summary details for all the applications in an environment.

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

nextToken (p. 33)

A pagination token that's returned when the response doesn't contain all applications.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 94).

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

InternalServerErrorException

An unexpected error occurred during the processing of the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

ThrottlingException

The number of requests made exceeds the limit.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

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](#)

ListBatchJobExecutions

Lists historical, current, and scheduled batch job executions.

Request Syntax

```
GET /applications/applicationArn/batch-job-executions?  
executionIds=executionIds&jobName=jobName&maxResults=maxResults&nextToken=nextToken&startedAfter=startedAfter  
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

applicationArn (p. 36)

The Amazon Resource Name (ARN) for the application associated with the batch jobs.

Pattern: `^arn:(aws|aws-cn|aws-iso|aws-iso-[a-z]{1}|aws-us-gov):[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:([a-z]{2}-((iso[a-z]{0,1}-)|(gov-)){0,1}[a-z]+-[0-9]):[0-9]{12}:[A-Za-z0-9/][A-Za-z0-9:_/+=@.-]{0,1023}$`

Required: Yes

executionIds (p. 36)

The unique identifier of each batch job execution.

jobName (p. 36)

The name of each batch job execution.

maxResults (p. 36)

The maximum number of batch job executions to return.

nextToken (p. 36)

A pagination token to control the number of batch job executions displayed in the list.

startedAfter (p. 36)

The time after which the batch job executions started.

startedBefore (p. 36)

The time before which the batch job executions started.

status (p. 36)

The status of the batch job executions.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Content-type: application/json

```
{
  "batchJobExecutions": [
    {
      "applicationArn": "string",
      "endTime": number,
      "executionId": "string",
      "jobId": "string",
      "jobName": "string",
      "jobType": "string",
      "jobUser": "string",
      "result": "string",
      "startTime": number,
      "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.

batchJobExecutions (p. 36)

Returns a list of batch job executions for an application.

Type: Array of [BatchJobExecution](#) (p. 71) objects

nextToken (p. 36)

A pagination token that's returned when the response doesn't contain all batch job executions.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 94).

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

InternalServerErrorException

An unexpected error occurred during the processing of the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

ThrottlingException

The number of requests made exceeds the limit.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

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](#)

ListDataSetImportHistory

Lists the data set imports for the specified application.

Request Syntax

```
GET /applications/applicationArn/dataset-import-tasks?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[applicationArn \(p. 39\)](#)

The Amazon Resource Name (ARN) of the application.

Required: Yes

[maxResults \(p. 39\)](#)

The maximum number of objects to return.

[nextToken \(p. 39\)](#)

A pagination token returned from a previous call to this operation. This specifies the next item to return. To return to the beginning of the list, exclude this parameter.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200  
Content-type: application/json  
  
{  
  "dataSetImportTasks": [  
    {  
      "logStream": "string",  
      "status": "string",  
      "summary": {  
        "failed": number,  
        "inProgress": number,  
        "pending": number,  
        "succeeded": number,  
        "total": number  
      },  
      "taskId": "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.

dataSetImportTasks (p. 39)

The data set import tasks.

Type: Array of [DataSetImportTask](#) (p. 77) objects

nextToken (p. 39)

If there are more items to return, this contains a token that is passed to a subsequent call to this operation to retrieve the next set of items.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 94).

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

InternalServerErrorException

An unexpected error occurred during the processing of the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

ThrottlingException

The number of requests made exceeds the limit.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

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

Lists the runtime environments.

Request Syntax

```
GET /environments?  
engineType=engineType&maxResults=maxResults&names=names&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

engineType (p. 42)

The engine type for the environment.

Valid Values: `microfocus`

maxResults (p. 42)

The maximum number of environments to return.

names (p. 42)

The name of the environment.

nextToken (p. 42)

A pagination token to control the number of environments displayed in the list.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200  
Content-type: application/json  
  
{  
  "environments": [  
    {  
      "creationTime": number,  
      "engineType": "string",  
      "engineVersion": "string",  
      "environmentArn": "string",  
      "instanceType": "string",  
      "name": "string",  
      "status": "string"  
    }  
  ],  
  "nextToken": "string"  
}
```

Response Elements

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

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

environments (p. 42)

Returns a list of summary details for all the environments in your account.

Type: Array of [EnvironmentSummary](#) (p. 86) objects

nextToken (p. 42)

A pagination token that's returned when the response doesn't contain all the environments.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 94).

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

InternalServerErrorException

An unexpected error occurred during the processing of the request.

HTTP Status Code: 500

ThrottlingException

The number of requests made exceeds the limit.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

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

Lists the tags for the specified resource.

Request Syntax

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

URI Request Parameters

The request uses the following URI parameters.

resourceArn (p. 44)

The Amazon Resource Name (ARN) of the resource.

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. 44)

The tags for the resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

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

Key Pattern: `^(?!aws:).+$`

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

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 94\)](#).

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

InternalServerErrorException

An unexpected error occurred during the processing of the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

ThrottlingException

The number of requests made exceeds the limit.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

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](#)

StartApplication

Starts an application that is currently stopped.

Request Syntax

```
POST /applications/applicationArn/start HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

applicationArn (p. 46)

The Amazon Resource Name (ARN) of the application.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "applicationArn": "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.

applicationArn (p. 46)

The Amazon Resource Name (ARN) of the application.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 94\)](#).

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

ConflictException

The parameters provided in the request conflict with existing resources.

HTTP Status Code: 409

InternalServerErrorException

An unexpected error occurred during the processing of the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

ThrottlingException

The number of requests made exceeds the limit.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

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](#)

StartBatchJob

Starts a batch job and returns the unique identifier of this execution of the batch job.

Request Syntax

```
POST /applications/applicationArn/batch-job HTTP/1.1
Content-type: application/json

{
  "batchJob": {
    "jclFileName": "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

applicationArn (p. 48)

The Amazon Resource Name (ARN) of the application associated with the batch job.

Required: Yes

Request Body

The request accepts the following data in JSON format.

batchJob (p. 48)

An object representing the batch job.

Type: [BatchJob](#) (p. 70) object

Required: Yes

Response Syntax

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

{
  "batchJobExecution": {
    "applicationArn": "string",
    "endTime": number,
    "executionId": "string",
    "jobId": "string",
    "jobName": "string",
    "jobType": "string",
    "jobUser": "string",
    "result": "string",
    "startTime": number,
    "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.

batchJobExecution (p. 48)

Returns details about the started batch job.

Type: [BatchJobExecution](#) (p. 71) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 94).

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

ConflictException

The parameters provided in the request conflict with existing resources.

HTTP Status Code: 409

InternalServerErrorException

An unexpected error occurred during the processing of the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

ThrottlingException

The number of requests made exceeds the limit.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

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](#)

StopApplication

Stops a running application.

Request Syntax

```
POST /applications/applicationArn/stop HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

applicationArn (p. 51)

The Amazon Resource Name (ARN) of the application to stop.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "applicationArn": "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.

applicationArn (p. 51)

The Amazon Resource Name (ARN) of the application.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 94\)](#).

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

ConflictException

The parameters provided in the request conflict with existing resources.

HTTP Status Code: 409

InternalServerErrorException

An unexpected error occurred during the processing of the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

ThrottlingException

The number of requests made exceeds the limit.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

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 one or more tags to the specified 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. 53)

The Amazon Resource Name (ARN) of the resource.

Required: Yes

Request Body

The request accepts the following data in JSON format.

tags (p. 53)

The tags to add to the resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

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

Key Pattern: `^(?!aws:).+$`

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

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 \(p. 94\)](#).

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

InternalServerErrorException

An unexpected error occurred during the processing of the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

ThrottlingException

The number of requests made exceeds the limit.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

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 one or more tags from the specified resource.

Request Syntax

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

URI Request Parameters

The request uses the following URI parameters.

[resourceArn \(p. 55\)](#)

The Amazon Resource Name (ARN) of the resource.

Required: Yes

[tagKeys \(p. 55\)](#)

The keys of the tags to remove.

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

Pattern: `^(?!aws:).+$`

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 \(p. 94\)](#).

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

InternalServerErrorException

An unexpected error occurred during the processing of the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

ThrottlingException

The number of requests made exceeds the limit.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

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](#)

UpdateApplication

Updates an application and creates a new version.

Request Syntax

```
PATCH /applications/applicationArn HTTP/1.1
Content-type: application/json

{
  "currentApplicationVersion": number,
  "definition": {
    "content": "string",
    "s3Location": "string"
  },
  "description": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

applicationArn (p. 57)

The Amazon Resource Name (ARN) of the application to update.

Required: Yes

Request Body

The request accepts the following data in JSON format.

currentApplicationVersion (p. 57)

The current version of the application to update.

Type: Integer

Required: Yes

definition (p. 57)

The application definition file for the application to update.

Type: [Definition](#) (p. 78) object

Required: No

description (p. 57)

The description of the application to update.

Type: String

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

Required: No

Response Syntax

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

{
  "applicationArn": "string",
  "applicationVersion": number
}
```

Response Elements

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

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

applicationArn (p. 58)

The Amazon Resource Name (ARN) of the application.

Type: String

applicationVersion (p. 58)

The new version of the application.

Type: Integer

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 94\)](#).

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

ConflictException

The parameters provided in the request conflict with existing resources.

HTTP Status Code: 409

InternalServerErrorException

An unexpected error occurred during the processing of the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

ThrottlingException

The number of requests made exceeds the limit.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

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

Updates the configuration details, such as engine patching, scaling, or other changes, for a specific environment.

Request Syntax

```
PATCH /environments/environmentArn HTTP/1.1
Content-type: application/json

{
  "desiredCapacity": number,
  "instanceType": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

environmentArn (p. 60)

The Amazon Resource Name (ARN) for the environment to update.

Required: Yes

Request Body

The request accepts the following data in JSON format.

desiredCapacity (p. 60)

The desired capacity for the environment to update.

Type: Integer

Required: No

instanceType (p. 60)

The instance type for the environment to update.

Type: String

Required: No

Response Syntax

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

{
  "environmentArn": "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. 60)

Returns details about the updated environment.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 94).

AccessDeniedException

The account or role doesn't have the right permissions to make the request.

HTTP Status Code: 403

ConflictException

The parameters provided in the request conflict with existing resources.

HTTP Status Code: 409

InternalServerErrorException

An unexpected error occurred during the processing of the request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 404

ThrottlingException

The number of requests made exceeds the limit.

HTTP Status Code: 429

ValidationException

One or more parameters provided in the request is not valid.

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 `AwsMainframeModernization` 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. 64)
- [ApplicationSummary](#) (p. 67)
- [ApplicationVersionSummary](#) (p. 69)
- [BatchJob](#) (p. 70)
- [BatchJobExecution](#) (p. 71)
- [DataSet](#) (p. 73)
- [DataSetImportConfig](#) (p. 74)
- [DataSetImportItem](#) (p. 75)
- [DataSetImportSummary](#) (p. 76)
- [DataSetImportTask](#) (p. 77)
- [Definition](#) (p. 78)
- [DeployedVersionSummary](#) (p. 79)
- [Deployment](#) (p. 80)
- [EfsStorageConfiguration](#) (p. 82)
- [Environment](#) (p. 83)
- [EnvironmentSummary](#) (p. 86)
- [ExternalLocation](#) (p. 88)
- [FsxStorageConfiguration](#) (p. 89)
- [StorageConfiguration](#) (p. 90)
- [ValidationExceptionField](#) (p. 91)

Application

An AWS Mainframe Modernization application.

Contents

applicationArn

The Amazon Resource Name (ARN) of the application.

Type: String

Required: Yes

creationTime

The timestamp of when this application was created.

Type: Timestamp

Required: Yes

definition

The application definition file for the application.

Type: [Definition](#) (p. 78) object

Required: Yes

deployedVersion

The version of the application that is deployed.

Type: [DeployedVersionSummary](#) (p. 79) object

Required: No

description

The description of the application.

Type: String

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

Required: No

engineType

The type of the target platform for the application.

Type: String

Valid Values: `microfocus`

Required: Yes

environmentArn

The Amazon Resource Name (ARN) of the environment where the application will be deployed.

Type: String

Required: No

failureReason

The reason for the failure, if any.

Type: String

Required: No

lastStartTime

The timestamp of when the application was last started. Null until the application has started running for the first time.

Type: Timestamp

Required: No

latestVersion

The latest version of the application.

Type: [ApplicationVersionSummary](#) (p. 69) object

Required: Yes

listenerArns

The Amazon Resource Name (ARN) for the listener resource associated with this application.

Type: Array of strings

Required: No

name

The unique identifier of the application.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_-\-]{1,59}`

Required: Yes

status

The status of the application.

Type: String

Valid Values: `Creating` | `Created` | `Available` | `Ready` | `Starting` | `Running` | `Stopping` | `Stopped` | `Failed` | `Deleting`

Required: Yes

tags

A list of tags associated with the application.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

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

Key Pattern: `^(?!aws:).+$`

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

Required: No

targetGroupArn

The Amazon Resource Name (ARN) of the target group. This only applies to applications that have been previously deployed.

Type: String

Required: No

See Also

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

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

ApplicationSummary

A subset of the possible application attributes. Used in the application list.

Contents

applicationArn

The Amazon Resource Name (ARN) for the application.

Type: String

Required: Yes

applicationVersion

The version of the application.

Type: Integer

Required: Yes

creationTime

The timestamp of when the application was created.

Type: Timestamp

Required: Yes

description

The description of the application.

Type: String

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

Required: No

engineType

The type of the target platform for this application.

Type: String

Valid Values: `microfocus`

Required: Yes

environmentArn

The Amazon Resource Name (ARN) for the environment associated with this application.

Type: String

Required: No

lastStartTime

The timestamp of when the application was last started. Null until the application has started running for the first time.

Type: Timestamp

Required: No

name

The name of the application.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: Yes

status

The status of the application.

Type: String

Required: Yes

See Also

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

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

ApplicationVersionSummary

Defines an application version summary.

Contents

applicationVersion

The application version.

Type: Integer

Required: Yes

failureReason

The reason for the failure, if any.

Type: String

Required: No

status

The status of the application.

Type: String

Valid Values: `Deploying` | `Succeeded` | `Failed`

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](#)

BatchJob

Defines a batch job.

Contents

jclFileName

The name of the JCL file associated with this batch job.

Type: String

Required: No

See Also

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

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

BatchJobExecution

A specific execution of a batch job.

Contents

applicationArn

The Amazon Resource Name (ARN) for the application associated with this batch job execution.

Type: String

Required: Yes

endTime

The timestamp of when the batch job execution ended.

Type: Timestamp

Required: No

executionId

The unique identifier for this batch job execution.

Type: String

Required: Yes

jobId

The unique identifier for this batch job.

Type: String

Required: No

jobName

The name of this batch job.

Type: String

Required: No

jobType

The type of job.

Type: String

Valid Values: VSE | JES2 | JES3

Required: No

jobUser

The user for the job.

Type: String

Required: No

result

The result of this batch job execution.

Type: String

Required: No

startTime

The timestamp of when the batch job execution started.

Type: Timestamp

Required: Yes

status

The status of the batch job execution.

Type: String

Valid Values: `Submitting` | `Holding` | `Dispatching` | `Running` | `Complete`

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](#)

DataSet

Defines a data set.

Contents

location

The location of the data set.

Type: String

Required: Yes

name

The name of the data set.

Type: String

Required: Yes

See Also

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

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

DataSetImportConfig

Defines how to import one or more data sets with the [CreateDataSetImportTask](#) (p. 6) operation.

Contents

dataSets

The data sets.

Type: Array of [DataSetImportItem](#) (p. 75) objects

Required: No

s3Location

The Amazon S3 location of the data sets.

Type: String

Required: No

See Also

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

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

DataSetImportItem

Defines an imported data set.

Contents

dataSet

The data set.

Type: [DataSet](#) (p. 73) object

Required: Yes

externalLocation

The location of the data set.

Type: [ExternalLocation](#) (p. 88) object

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](#)

DataSetImportSummary

Represents a summary of data set imports.

Contents

failed

The number of data set imports that have failed.

Type: Integer

Required: Yes

inProgress

The number of data set imports that are in progress.

Type: Integer

Required: Yes

pending

The number of data set imports that are pending.

Type: Integer

Required: Yes

succeeded

The number of data set imports that have succeeded.

Type: Integer

Required: Yes

total

The total number of data set imports.

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

DataSetImportTask

Contains information about a data set import task.

Contents

logStream

A combination of the CloudWatch Logs log group name and log stream name that contains the log entries for the task.

Type: String

Required: Yes

status

The status of the data set import task.

Type: String

Required: Yes

summary

A summary of the data set import task.

Type: [DataSetImportSummary](#) (p. 76) object

Required: Yes

taskId

The identifier of the data set import task.

Type: String

Required: Yes

See Also

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

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

Definition

The application definition for a particular application.

Contents

content

The content of the application definition. This is a JSON object that contains the resource configuration/definitions that identify an application.

Type: String

Required: No

s3Location

The S3 bucket that contains the application definition.

Type: String

Required: No

See Also

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

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

DeployedVersionSummary

Contains a summary of a deployed application.

Contents

applicationVersion

The version of the deployed application.

Type: Integer

Required: Yes

failureReason

The reason for the failure, if any.

Type: String

Required: No

status

The status of the deployment.

Type: String

Valid Values: `Deploying` | `Succeeded` | `Failed`

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](#)

Deployment

Defines a specific application deployment.

Contents

applicationArn

The Amazon Resource Name (ARN) of the application associated with this deployment.

Type: String

Required: Yes

applicationVersion

The version of the application associated with this deployment.

Type: Integer

Required: Yes

creationTime

The timestamp of when this deployment was created.

Type: Timestamp

Required: Yes

deploymentId

The unique identifier of this deployment.

Type: String

Required: Yes

environmentArn

The Amazon Resource Name (ARN) of the environment associated with this deployment.

Type: String

Required: Yes

failureReason

The reason for the failure, if any.

Type: String

Required: No

status

The status of this deployment.

Type: String

Valid Values: `Deploying` | `Succeeded` | `Failed`

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](#)

EfsStorageConfiguration

Defines the storage configuration for an Amazon EFS file system.

Contents

file-system-id

The file system identifier.

Type: String

Required: Yes

mount-point

The mount point for the file system.

Type: String

Required: Yes

See Also

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

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

Environment

The compute environment that runs your application. Based on the scaling configuration you supply, the environment can scale up or down as required.

Contents

actualCapacity

The actual capacity of the environment.

Type: Integer

Required: No

creationTime

The timestamp when the environment was created.

Type: Timestamp

Required: Yes

description

The description of the environment.

Type: String

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

Required: No

desiredCapacity

The desired capacity of the environment if you select High Availability.

Type: Integer

Required: No

engineType

The target platform required to deploy and run applications for this environment.

Type: String

Valid Values: `microfocus`

Required: Yes

engineVersion

The version of the target platform.

Type: String

Required: Yes

environmentArn

The Amazon Resource Name (ARN) of the environment.

Type: String

Required: Yes

failureReason

The reason for the failure, if any.

Type: String

Required: No

haEnabled

The high availability configuration used for auto-scaling.

Type: Boolean

Required: Yes

instanceType

The type of the instance for the environment.

Type: String

Required: Yes

loadBalancerArn

The Amazon Resource Name (ARN) of the load balancer on this environment.

Type: String

Required: No

name

The identifier of the environment,

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: Yes

publiclyAccessible

Specifies whether the environment is publicly accessible.

Type: Boolean

Required: No

securityGroupIds

A list of the unique identifiers associated with the security groups in this environment.

Type: Array of strings

Required: Yes

status

The status of the environment.

Type: String

Valid Values: `Creating` | `Available` | `Deleting` | `Failed`

Required: Yes

storageConfigurations

A list of the storage associated with this environment.

Type: Array of [StorageConfiguration](#) (p. 90) objects

Required: No

subnetIds

The list of subnet IDs under your VPC.

Type: Array of strings

Required: Yes

tags

The list of tags to apply to the environment.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 200 items.

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

Key Pattern: $^(?!aws:)\.+\$$

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

Required: No

vpclId

The unique identifier of your VPC.

Type: String

Required: Yes

See Also

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

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

EnvironmentSummary

Contains a subset of the possible environment attributes. Used in the environment list.

Contents

creationTime

The timestamp when the environment was created.

Type: Timestamp

Required: Yes

engineType

The target platform for the environment.

Type: String

Valid Values: `microfocus`

Required: Yes

engineVersion

The version of the runtime engine.

Type: String

Required: Yes

environmentArn

The Amazon Resource Name (ARN) of the environment.

Type: String

Required: Yes

instanceType

The instance type of the environment.

Type: String

Required: Yes

name

The name of the environment.

Type: String

Pattern: `[A-Za-z0-9][A-Za-z0-9_\-]{1,59}`

Required: Yes

status

The status of the environment

Type: String

Valid Values: `Creating` | `Available` | `Deleting` | `Failed`

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](#)

ExternalLocation

Defines an external storage location.

Contents

s3Location

The URL of the Amazon S3 bucket.

Type: String

Required: No

See Also

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

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

FsxStorageConfiguration

Defines the storage configuration for an Amazon FSx file system.

Contents

file-system-id

The file system identifier.

Type: String

Required: Yes

mount-point

The mount point for the file system.

Type: String

Required: Yes

See Also

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

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

StorageConfiguration

Defines the storage configuration for an [Environment](#) (p. 83).

Contents

efs

Defines the storage configuration for an Amazon EFS file system.

Type: [EfsStorageConfiguration](#) (p. 82) object

Required: No

fsx

Defines the storage configuration for an Amazon FSx file system.

Type: [FsxStorageConfiguration](#) (p. 89) object

Required: No

See Also

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

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

ValidationExceptionField

Contains information about a validation exception field.

Contents

message

The message of the exception field.

Type: String

Required: Yes

name

The name of the exception field.

Type: String

Required: Yes

See Also

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

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

Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see [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

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