aws

Migration Hub Orchestrator

API Version 2021-08-28

Migration Hub Orchestrator: Welcome

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Welcome

This API reference provides descriptions, syntax, and other details about each of the actions and data types for AWS Migration Hub Orchestrator. The topic for each action shows the API request parameters and responses. Alternatively, you can use one of the AWS SDKs to access an API that is tailored to the programming language or platform that you're using.

This document was last published on June 28, 2024.

Actions

The following actions are supported:

- CreateTemplate
- CreateWorkflow
- CreateWorkflowStep
- CreateWorkflowStepGroup
- DeleteTemplate
- DeleteWorkflow
- DeleteWorkflowStep
- DeleteWorkflowStepGroup
- GetTemplate
- GetTemplateStep
- GetTemplateStepGroup
- GetWorkflow
- GetWorkflowStep
- GetWorkflowStepGroup
- ListPlugins
- ListTagsForResource
- ListTemplates
- ListTemplateStepGroups
- ListTemplateSteps
- ListWorkflows
- ListWorkflowStepGroups
- ListWorkflowSteps
- RetryWorkflowStep
- StartWorkflow
- StopWorkflow
- TagResource
- UntagResource

- [UpdateTemplate](#)
- [UpdateWorkflow](#)
- [UpdateWorkflowStep](#)
- [UpdateWorkflowStepGroup](#)

CreateTemplate

Creates a migration workflow template.

Request Syntax

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

{
    "clientToken": "string",
    "tags": {
        "string" : "string"
    },
    "templateDescription": "string",
    "templateName": "string",
    "templateSource": { ... }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

clientToken

A unique, case-sensitive identifier that you provide to ensure the idempotency of the request. For more information, see Idempotency in the Smithy documentation.

Type: String

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

Pattern: `[-a-zA-Z0-9]*`

Required: No

tags

The tags to add to the migration workflow template.

Type: String to string map

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

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

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

templateDescription

A description of the migration workflow template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 250.

Pattern: `.*`

Required: No

templateName

The name of the migration workflow template.

Type: String

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

Pattern: `[ a-zA-Z0-9]*`

Required: Yes

templateSource

The source of the migration workflow template.

Type: TemplateSource object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

Response Syntax

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

{
    "tags": {
        "string" : "string"
    },
    "templateArn": "string",
    "templateId": "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

The tags added to the migration workflow template.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 100.

Key Pattern: `[a-zA-Z0-9-_ ()]+`

Value Length Constraints: Minimum length of 0. Maximum length of 100.

templateArn

The Amazon Resource Name (ARN) of the migration workflow template. The format for an Migration Hub Orchestrator template ARN is `arn:aws:migrationhub-orchestrator:region:account:template/template-abcd1234`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference*.

Type: String

templateId

The ID of the migration workflow template.

Type: String

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ConflictException

This exception is thrown when an attempt to update or delete a resource would cause an inconsistent state.

HTTP Status Code: 409

InternalServerException

An internal error has occurred.

HTTP Status Code: 500

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)

- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateWorkflow

Create a workflow to orchestrate your migrations.

Request Syntax

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

{
    "applicationConfigurationId": "string",
    "description": "string",
    "inputParameters": {
        "string" : { ... }
    },
    "name": "string",
    "stepTargets": [ "string" ],
    "tags": {
        "string" : "string"
    },
    "templateId": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

applicationConfigurationId

The configuration ID of the application configured in Application Discovery Service.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Pattern: `[-a-zA-Z0-9_.+]*`

Required: No

description

The description of the migration workflow.

Type: String

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

Pattern: `[-a-zA-Z0-9_.+, ]*`

Required: No

inputParameters

The input parameters required to create a migration workflow.

Type: String to StepInput object map

Key Length Constraints: Minimum length of 1. Maximum length of 100.

Key Pattern: `[a-zA-Z0-9-_ ()]+`

Required: Yes

name

The name of the migration workflow.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[-a-zA-Z0-9_.+]+[-a-zA-Z0-9_.+ ]*`

Required: Yes

stepTargets

The servers on which a step will be run.

Type: Array of strings

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

Required: No

tags

The tags to add on a migration workflow.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 100.

Key Pattern: `[a-zA-Z0-9-_ ()]+`

Value Length Constraints: Minimum length of 0. Maximum length of 100.

Required: No

templateId

The ID of the template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[-a-zA-Z0-9_.+]+[-a-zA-Z0-9_.+ ]*`

Required: Yes

Response Syntax

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

{
   "adsApplicationConfigurationId": "string",
   "arn": "string",
   "creationTime": number,
   "description": "string",
   "id": "string",
   "name": "string",
   "status": "string",
   "stepTargets": [ "string" ],
   "tags": {
      "string" : "string"
   },
```

```
      "templateId": "string",
      "workflowInputs": {
          "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.

adsApplicationConfigurationId

   The configuration ID of the application configured in Application Discovery Service.

   Type: String

arn

   The Amazon Resource Name (ARN) of the migration workflow.

   Type: String

creationTime

   The time at which the migration workflow was created.

   Type: Timestamp

description

   The description of the migration workflow.

   Type: String

id

   The ID of the migration workflow.

   Type: String

   Length Constraints: Minimum length of 1. Maximum length of 100.

   Pattern: `[a-zA-Z0-9-]+`

name

The name of the migration workflow.

Type: String

status

The status of the migration workflow.

Type: String

Valid Values: CREATING | NOT_STARTED | CREATION_FAILED | STARTING |
IN_PROGRESS | WORKFLOW_FAILED | PAUSED | PAUSING | PAUSING_FAILED
| USER_ATTENTION_REQUIRED | DELETING | DELETION_FAILED | DELETED |
COMPLETED

stepTargets

The servers on which a step will be run.

Type: Array of strings

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

tags

The tags to add on a migration workflow.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 100.

Key Pattern: [a-zA-Z0-9-_ ()]+

Value Length Constraints: Minimum length of 0. Maximum length of 100.

templateId

The ID of the template.

Type: String

workflowInputs

The inputs for creating a migration workflow.

Type: String to [StepInput](#) object map

Key Length Constraints: Minimum length of 1. Maximum length of 100.

Key Pattern: `[a-zA-Z0-9-_ ()]+`

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

An internal error has occurred.

HTTP Status Code: 500

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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- [AWS SDK for Ruby V3](#)

CreateWorkflowStep

Create a step in the migration workflow.

Request Syntax

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

{
   "description": "string",
   "name": "string",
   "next": [ "string" ],
   "outputs": [
      {
         "dataType": "string",
         "name": "string",
         "required": boolean,
         "value": { ... }
      }
   ],
   "previous": [ "string" ],
   "stepActionType": "string",
   "stepGroupId": "string",
   "stepTarget": [ "string" ],
   "workflowId": "string",
   "workflowStepAutomationConfiguration": {
      "command": {
         "linux": "string",
         "windows": "string"
      },
      "runEnvironment": "string",
      "scriptLocationS3Bucket": "string",
      "scriptLocationS3Key": {
         "linux": "string",
         "windows": "string"
      },
      "targetType": "string"
   }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

description

    The description of the step.

    Type: String

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

    Pattern: `[-a-zA-Z0-9_.+, ]*`

    Required: No

name

    The name of the step.

    Type: String

    Length Constraints: Minimum length of 1. Maximum length of 100.

    Pattern: `[-a-zA-Z0-9_.+]+[-a-zA-Z0-9_.+ ]*`

    Required: Yes

next

    The next step.

    Type: Array of strings

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

    Required: No

outputs

    The key value pairs added for the expected output.

Type: Array of [WorkflowStepOutput](#) objects

Required: No

previous

The previous step.

Type: Array of strings

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

Required: No

stepActionType

The action type of the step. You must run and update the status of a manual step for the workflow to continue after the completion of the step.

Type: String

Valid Values: MANUAL | AUTOMATED

Required: Yes

stepGroupId

The ID of the step group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z0-9-]+

Required: Yes

stepTarget

The servers on which a step will be run.

Type: Array of strings

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

Required: No

workflowId

The ID of the migration workflow.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9-]+`

Required: Yes

workflowStepAutomationConfiguration

The custom script to run tests on source or target environments.

Type: WorkflowStepAutomationConfiguration object

Required: No

Response Syntax

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

{
    "id": "string",
    "name": "string",
    "stepGroupId": "string",
    "workflowId": "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.

id

The ID of the step.

Type: String

name

The name of the step.

Type: String

stepGroupId

The ID of the step group.

Type: String

workflowId

The ID of the migration workflow.

Type: String

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

An internal error has occurred.

HTTP Status Code: 500

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

CreateWorkflowStepGroup

Create a step group in a migration workflow.

Request Syntax

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

{
   "description": "string",
   "name": "string",
   "next": [ "string" ],
   "previous": [ "string" ],
   "workflowId": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

description

The description of the step group.

Type: String

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

Pattern: `[-a-zA-Z0-9_.+, ]*`

Required: No

name

The name of the step group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[-a-zA-Z0-9_.+]+[-a-zA-Z0-9_.+ ]*`

Required: Yes

next

The next step group.

Type: Array of strings

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

Required: No

previous

The previous step group.

Type: Array of strings

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

Required: No

workflowId

The ID of the migration workflow that will contain the step group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9-]+`

Required: Yes

Response Syntax

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

```
{
    "creationTime": number,
    "description": "string",
    "id": "string",
    "name": "string",
    "next": [ "string" ],
    "previous": [ "string" ],
    "tools": [
        {
            "name": "string",
            "url": "string"
        }
    ],
    "workflowId": "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.

creationTime

The time at which the step group is created.

Type: Timestamp

description

The description of the step group.

Type: String

id

The ID of the step group.

Type: String

name

The name of the step group.

Type: String

next

The next step group.

Type: Array of strings

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

previous

The previous step group.

Type: Array of strings

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

tools

List of AWS services utilized in a migration workflow.

Type: Array of Tool objects

workflowId

The ID of the migration workflow that contains the step group.

Type: String

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

An internal error has occurred.

HTTP Status Code: 500

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

DeleteTemplate

Deletes a migration workflow template.

Request Syntax

```
DELETE /template/id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

id

> The ID of the request to delete a migration workflow template.
>
> Length Constraints: Minimum length of 1. Maximum length of 100.
>
> Pattern: `[-a-zA-Z0-9_.+]+[-a-zA-Z0-9_.+ ]*`
>
> 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.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

An internal error has occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource is not available.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

DeleteWorkflow

Delete a migration workflow. You must pause a running workflow in Migration Hub Orchestrator console to delete it.

Request Syntax

```
DELETE /migrationworkflow/id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

id

The ID of the migration workflow you want to delete.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9-]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 202
Content-type: application/json

{
   "arn": "string",
   "id": "string",
   "status": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 202 response.

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

arn

The Amazon Resource Name (ARN) of the migration workflow.

Type: String

id

The ID of the migration workflow.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9-]+`

status

The status of the migration workflow.

Type: String

Valid Values: `CREATING | NOT_STARTED | CREATION_FAILED | STARTING | IN_PROGRESS | WORKFLOW_FAILED | PAUSED | PAUSING | PAUSING_FAILED | USER_ATTENTION_REQUIRED | DELETING | DELETION_FAILED | DELETED | COMPLETED`

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

An internal error has occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource is not available.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

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

DeleteWorkflowStep

Delete a step in a migration workflow. Pause the workflow to delete a running step.

Request Syntax

```
DELETE /workflowstep/id?stepGroupId=stepGroupId&workflowId=workflowId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

id

> The ID of the step you want to delete.
>
> Length Constraints: Minimum length of 1. Maximum length of 100.
>
> Pattern: `[a-zA-Z0-9-]+`
>
> Required: Yes

stepGroupId

> The ID of the step group that contains the step you want to delete.
>
> Length Constraints: Minimum length of 1. Maximum length of 100.
>
> Pattern: `[a-zA-Z0-9-]+`
>
> Required: Yes

workflowId

> The ID of the migration workflow.
>
> Length Constraints: Minimum length of 1. Maximum length of 100.
>
> Pattern: `[a-zA-Z0-9-]+`
>
> 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.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

An internal error has occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource is not available.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteWorkflowStepGroup

Delete a step group in a migration workflow.

Request Syntax

```
DELETE /workflowstepgroup/id?workflowId=workflowId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

id

The ID of the step group you want to delete.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9-]+`

Required: Yes

workflowId

The ID of the migration workflow.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9-]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 202
```

Response Elements

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

An internal error has occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource is not available.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

GetTemplate

Get the template you want to use for creating a migration workflow.

Request Syntax

```
GET /migrationworkflowtemplate/id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

id

The ID of the template.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[-a-zA-Z0-9_.+]+[-a-zA-Z0-9_.+ ]*`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "creationTime": number,
   "description": "string",
   "id": "string",
   "inputs": [
      {
         "dataType": "string",
         "inputName": "string",
         "required": boolean
      }
```

```
    ],
    "name": "string",
    "owner": "string",
    "status": "string",
    "statusMessage": "string",
    "tags": {
        "string" : "string"
    },
    "templateArn": "string",
    "templateClass": "string",
    "tools": [
        {
            "name": "string",
            "url": "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.

creationTime

The time at which the template was last created.

Type: Timestamp

description

The time at which the template was last created.

Type: String

id

The ID of the template.

Type: String

inputs

The inputs provided for the creation of the migration workflow.

Type: Array of TemplateInput objects

name

The name of the template.

Type: String

owner

The owner of the migration workflow template.

Type: String

status

The status of the template.

Type: String

Valid Values: `CREATED | READY | PENDING_CREATION | CREATING | CREATION_FAILED`

statusMessage

The status message of retrieving migration workflow templates.

Type: String

tags

The tags added to the migration workflow template.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 100.

Key Pattern: `[a-zA-Z0-9-_ ()]+`

Value Length Constraints: Minimum length of 0. Maximum length of 100.

templateArn

>The Amazon Resource Name (ARN) of the migration workflow template. The format for an Migration Hub Orchestrator template ARN is `arn:aws:migrationhub-orchestrator:region:account:template/template-abcd1234`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference*.

Type: String

templateClass

The class of the migration workflow template. The available template classes are:

- A2C

- MGN

- SAP_MULTI

- SQL_EC2

- SQL_RDS

- VMIE

Type: String

tools

List of AWS services utilized in a migration workflow.

Type: Array of Tool objects

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

An internal error has occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource is not available.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetTemplateStep

Get a specific step in a template.

Request Syntax

```
GET /templatestep/id?stepGroupId=stepGroupId&templateId=templateId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

id

The ID of the step.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9-]+`

Required: Yes

stepGroupId

The ID of the step group.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9-]+`

Required: Yes

templateId

The ID of the template.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[-a-zA-Z0-9_.+]+[-a-zA-Z0-9_.+ ]*`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "creationTime": "string",
   "description": "string",
   "id": "string",
   "name": "string",
   "next": [ "string" ],
   "outputs": [
      {
         "dataType": "string",
         "name": "string",
         "required": boolean
      }
   ],
   "previous": [ "string" ],
   "stepActionType": "string",
   "stepAutomationConfiguration": {
      "command": {
         "linux": "string",
         "windows": "string"
      },
      "runEnvironment": "string",
      "scriptLocationS3Bucket": "string",
      "scriptLocationS3Key": {
         "linux": "string",
         "windows": "string"
      },
      "targetType": "string"
   },
   "stepGroupId": "string",
   "templateId": "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.

creationTime

The time at which the step was created.

Type: String

description

The description of the step.

Type: String

id

The ID of the step.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9-]+`

name

The name of the step.

Type: String

next

The next step.

Type: Array of strings

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

outputs

The outputs of the step.

Type: Array of StepOutput objects

previous

> The previous step.
>
> Type: Array of strings
>
> Length Constraints: Minimum length of 0. Maximum length of 500.

stepActionType

> The action type of the step. You must run and update the status of a manual step for the workflow to continue after the completion of the step.
>
> Type: String
>
> Valid Values: MANUAL | AUTOMATED

stepAutomationConfiguration

> The custom script to run tests on source or target environments.
>
> Type: StepAutomationConfiguration object

stepGroupId

> The ID of the step group.
>
> Type: String
>
> Length Constraints: Minimum length of 1. Maximum length of 100.
>
> Pattern: [a-zA-Z0-9-]+

templateId

> The ID of the template.
>
> Type: String
>
> Length Constraints: Minimum length of 1. Maximum length of 100.
>
> Pattern: [-a-zA-Z0-9_.+]+[-a-zA-Z0-9_.+]*

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

An internal error has occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource is not available.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

- [AWS SDK for Ruby V3](#)

GetTemplateStepGroup

Get a step group in a template.

Request Syntax

```
GET /templates/templateId/stepgroups/id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

id

The ID of the step group.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9-]+`

Required: Yes

templateId

The ID of the template.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[-a-zA-Z0-9_.+]+[-a-zA-Z0-9_.+ ]*`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
```

```
       "creationTime": number,
       "description": "string",
       "id": "string",
       "lastModifiedTime": number,
       "name": "string",
       "next": [ "string" ],
       "previous": [ "string" ],
       "status": "string",
       "templateId": "string",
       "tools": [
          {
             "name": "string",
             "url": "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.

creationTime

> The time at which the step group was created.
>
> Type: Timestamp

description

> The description of the step group.
>
> Type: String

id

> The ID of the step group.
>
> Type: String

lastModifiedTime

> The time at which the step group was last modified.
>
> Type: Timestamp

name

The name of the step group.

Type: String

next

The next step group.

Type: Array of strings

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

previous

The previous step group.

Type: Array of strings

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

status

The status of the step group.

Type: String

Valid Values: `AWAITING_DEPENDENCIES | READY | IN_PROGRESS | COMPLETED | FAILED | PAUSED | PAUSING | USER_ATTENTION_REQUIRED`

templateId

The ID of the template.

Type: String

tools

List of AWS services utilized in a migration workflow.

Type: Array of Tool objects

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

An internal error has occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource is not available.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

- [AWS SDK for Ruby V3](#)

GetWorkflow

Get migration workflow.

Request Syntax

```
GET /migrationworkflow/id HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

id

The ID of the migration workflow.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9-]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "adsApplicationConfigurationId": "string",
   "adsApplicationName": "string",
   "arn": "string",
   "completedSteps": number,
   "creationTime": number,
   "description": "string",
   "endTime": number,
   "id": "string",
   "lastModifiedTime": number,
```

```
      "lastStartTime": number,
      "lastStopTime": number,
      "name": "string",
      "status": "string",
      "statusMessage": "string",
      "tags": {
         "string" : "string"
      },
      "templateId": "string",
      "tools": [
         {
            "name": "string",
            "url": "string"
         }
      ],
      "totalSteps": number,
      "workflowBucket": "string",
      "workflowInputs": {
         "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.

adsApplicationConfigurationId

   The configuration ID of the application configured in Application Discovery Service.

   Type: String

adsApplicationName

   The name of the application configured in Application Discovery Service.

   Type: String

arn

   The Amazon Resource Name (ARN) of the migration workflow.

   Type: String

completedSteps

Get a list of completed steps in the migration workflow.

Type: Integer

creationTime

The time at which the migration workflow was created.

Type: Timestamp

description

The description of the migration workflow.

Type: String

endTime

The time at which the migration workflow ended.

Type: Timestamp

id

The ID of the migration workflow.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9-]+`

lastModifiedTime

The time at which the migration workflow was last modified.

Type: Timestamp

lastStartTime

The time at which the migration workflow was last started.

Type: Timestamp

lastStopTime

The time at which the migration workflow was last stopped.

Type: Timestamp

name

The name of the migration workflow.

Type: String

status

The status of the migration workflow.

Type: String

Valid Values: CREATING | NOT_STARTED | CREATION_FAILED | STARTING | IN_PROGRESS | WORKFLOW_FAILED | PAUSED | PAUSING | PAUSING_FAILED | USER_ATTENTION_REQUIRED | DELETING | DELETION_FAILED | DELETED | COMPLETED

statusMessage

The status message of the migration workflow.

Type: String

tags

The tags added to the migration workflow.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 100.

Key Pattern: [a-zA-Z0-9-_ ()]+

Value Length Constraints: Minimum length of 0. Maximum length of 100.

templateId

The ID of the template.

Type: String

tools

List of AWS services utilized in a migration workflow.

Type: Array of [Tool](#) objects

totalSteps

The total number of steps in the migration workflow.

Type: Integer

workflowBucket

The Amazon S3 bucket where the migration logs are stored.

Type: String

workflowInputs

The inputs required for creating the migration workflow.

Type: String to [StepInput](#) object map

Key Length Constraints: Minimum length of 1. Maximum length of 100.

Key Pattern: `[a-zA-Z0-9-_ ()]+`

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

An internal error has occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource is not available.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetWorkflowStep

Get a step in the migration workflow.

Request Syntax

```
GET /workflowstep/id?stepGroupId=stepGroupId&workflowId=workflowId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

id

The ID of the step.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9-]+`

Required: Yes

stepGroupId

The ID of the step group.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9-]+`

Required: Yes

workflowId

The ID of the migration workflow.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9-]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "creationTime": number,
   "description": "string",
   "endTime": number,
   "lastStartTime": number,
   "name": "string",
   "next": [ "string" ],
   "noOfSrvCompleted": number,
   "noOfSrvFailed": number,
   "outputs": [
      {
         "dataType": "string",
         "name": "string",
         "required": boolean,
         "value": { ... }
      }
   ],
   "owner": "string",
   "previous": [ "string" ],
   "scriptOutputLocation": "string",
   "status": "string",
   "statusMessage": "string",
   "stepActionType": "string",
   "stepGroupId": "string",
   "stepId": "string",
   "stepTarget": [ "string" ],
   "totalNoOfSrv": number,
   "workflowId": "string",
   "workflowStepAutomationConfiguration": {
      "command": {
         "linux": "string",
         "windows": "string"
      },
      "runEnvironment": "string",
```

```
        "scriptLocationS3Bucket": "string",
        "scriptLocationS3Key": {
            "linux": "string",
            "windows": "string"
        },
        "targetType": "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.

creationTime

> The time at which the step was created.
>
> Type: Timestamp

description

> The description of the step.
>
> Type: String

endTime

> The time at which the step ended.
>
> Type: Timestamp

lastStartTime

> The time at which the workflow was last started.
>
> Type: Timestamp

name

> The name of the step.
>
> Type: String

next

The next step.

Type: Array of strings

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

noOfSrvCompleted

The number of servers that have been migrated.

Type: Integer

noOfSrvFailed

The number of servers that have failed to migrate.

Type: Integer

outputs

The outputs of the step.

Type: Array of WorkflowStepOutput objects

Array Members: Minimum number of 0 items. Maximum number of 5 items.

owner

The owner of the step.

Type: String

Valid Values: `AWS_MANAGED | CUSTOM`

previous

The previous step.

Type: Array of strings

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

scriptOutputLocation

The output location of the script.

Type: String

status

The status of the step.

Type: String

Valid Values: AWAITING_DEPENDENCIES | SKIPPED | READY | IN_PROGRESS | COMPLETED | FAILED | PAUSED | USER_ATTENTION_REQUIRED

statusMessage

The status message of the migration workflow.

Type: String

stepActionType

The action type of the step. You must run and update the status of a manual step for the workflow to continue after the completion of the step.

Type: String

Valid Values: MANUAL | AUTOMATED

stepGroupId

The ID of the step group.

Type: String

stepId

The ID of the step.

Type: String

stepTarget

The servers on which a step will be run.

Type: Array of strings

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

totalNoOfSrv

The total number of servers that have been migrated.

Type: Integer

workflowId

The ID of the migration workflow.

Type: String

workflowStepAutomationConfiguration

The custom script to run tests on source or target environments.

Type: WorkflowStepAutomationConfiguration object

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

An internal error has occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource is not available.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetWorkflowStepGroup

Get the step group of a migration workflow.

Request Syntax

```
GET /workflowstepgroup/id?workflowId=workflowId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

id

The ID of the step group.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9-]+`

Required: Yes

workflowId

The ID of the migration workflow.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9-]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

```
{
    "creationTime": number,
    "description": "string",
    "endTime": number,
    "id": "string",
    "lastModifiedTime": number,
    "name": "string",
    "next": [ "string" ],
    "owner": "string",
    "previous": [ "string" ],
    "status": "string",
    "tools": [
        {
            "name": "string",
            "url": "string"
        }
    ],
    "workflowId": "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.

creationTime

The time at which the step group was created.

Type: Timestamp

description

The description of the step group.

Type: String

endTime

The time at which the step group ended.

Type: Timestamp

id

The ID of the step group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9-]+`

lastModifiedTime

The time at which the step group was last modified.

Type: Timestamp

name

The name of the step group.

Type: String

next

The next step group.

Type: Array of strings

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

owner

The owner of the step group.

Type: String

Valid Values: `AWS_MANAGED | CUSTOM`

previous

The previous step group.

Type: Array of strings

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

status

The status of the step group.

Type: String

Valid Values: AWAITING_DEPENDENCIES | READY | IN_PROGRESS | COMPLETED |
FAILED | PAUSED | PAUSING | USER_ATTENTION_REQUIRED

tools

List of AWS services utilized in a migration workflow.

Type: Array of Tool objects

workflowId

The ID of the migration workflow.

Type: String

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

An internal error has occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource is not available.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListPlugins

List AWS Migration Hub Orchestrator plugins.

Request Syntax

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

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of plugins that can be returned.

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

nextToken

The pagination token.

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `.*\S.*`

Request Body

The request does not have a request body.

Response Syntax

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

{
   "nextToken": "string",
   "plugins": [
      {
         "hostname": "string",
         "ipAddress": "string",
```

```
            "pluginId": "string",
            "registeredTime": "string",
            "status": "string",
            "version": "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

The pagination token.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: .*\S.*

plugins

Migration Hub Orchestrator plugins.

Type: Array of PluginSummary objects

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

An internal error has occurred.

HTTP Status Code: 500

ValidationException

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

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListTagsForResource

List the tags added to a resource.

Request Syntax

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

URI Request Parameters

The request uses the following URI parameters.

resourceArn

The Amazon Resource Name (ARN) of the resource.

Pattern: `arn:aws:migrationhub-orchestrator:[a-z0-9-]+:[0-9]+:(template|workflow)/[.]*`

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

   The tags added to a resource.

   Type: String to string map

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

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

   Value Length Constraints: Minimum length of 0. Maximum length of 256.

Errors

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

ResourceNotFoundException

   The resource is not available.

   HTTP Status Code: 404

ValidationException

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

   HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for JavaScript V3](#)

- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

ListTemplates

List the templates available in Migration Hub Orchestrator to create a migration workflow.

Request Syntax

```
GET /migrationworkflowtemplates?maxResults=maxResults&name=name&nextToken=nextToken
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

> The maximum number of results that can be returned.
>
> Valid Range: Minimum value of 0. Maximum value of 100.

name

> The name of the template.
>
> Length Constraints: Minimum length of 1. Maximum length of 100.
>
> Pattern: [-a-zA-Z0-9_.+]+[-a-zA-Z0-9_.+]*

nextToken

> The pagination token.
>
> Length Constraints: Minimum length of 0. Maximum length of 2048.
>
> Pattern: .*\S.*

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
    "nextToken": "string",
    "templateSummary": [
        {
            "arn": "string",
            "description": "string",
            "id": "string",
            "name": "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

The pagination token.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `.*\S.*`

templateSummary

The summary of the template.

Type: Array of TemplateSummary objects

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

An internal error has occurred.

HTTP Status Code: 500

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListTemplateStepGroups

List the step groups in a template.

Request Syntax

```
GET /templatestepgroups/templateId?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results that can be returned.

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

nextToken

The pagination token.

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `.*\S.*`

templateId

The ID of the template.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[-a-zA-Z0-9_.+]+[-a-zA-Z0-9_.+ ]*`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
    "nextToken": "string",
    "templateStepGroupSummary": [
        {
            "id": "string",
            "name": "string",
            "next": [ "string" ],
            "previous": [ "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

The pagination token.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: .*\S.*

templateStepGroupSummary

The summary of the step group in the template.

Type: Array of TemplateStepGroupSummary objects

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

An internal error has occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource is not available.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListTemplateSteps

List the steps in a template.

Request Syntax

```
GET /templatesteps?
maxResults=maxResults&nextToken=nextToken&stepGroupId=stepGroupId&templateId=templateId
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results that can be returned.

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

nextToken

The pagination token.

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: .*\S.*

stepGroupId

The ID of the step group.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z0-9-]+

Required: Yes

templateId

The ID of the template.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [-a-zA-Z0-9_.+]+[-a-zA-Z0-9_.+]*

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "nextToken": "string",
   "templateStepSummaryList": [
      {
         "id": "string",
         "name": "string",
         "next": [ "string" ],
         "owner": "string",
         "previous": [ "string" ],
         "stepActionType": "string",
         "stepGroupId": "string",
         "targetType": "string",
         "templateId": "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

The pagination token.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `.*\S.*`

templateStepSummaryList

The list of summaries of steps in a template.

Type: Array of TemplateStepSummary objects

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

An internal error has occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource is not available.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)

- [AWS SDK for .NET](#)

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

- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)

- [AWS SDK for JavaScript V3](#)

- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

ListWorkflows

List the migration workflows.

Request Syntax

```
GET /migrationworkflows?
adsApplicationConfigurationName=adsApplicationConfigurationName&maxResults=maxResults&name=name
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

adsApplicationConfigurationName

The name of the application configured in Application Discovery Service.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[-a-zA-Z0-9_.+]+[-a-zA-Z0-9_.+ ]*`

maxResults

The maximum number of results that can be returned.

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

name

The name of the migration workflow.

nextToken

The pagination token.

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `.*\S.*`

status

The status of the migration workflow.

Valid Values: `CREATING | NOT_STARTED | CREATION_FAILED | STARTING | IN_PROGRESS | WORKFLOW_FAILED | PAUSED | PAUSING | PAUSING_FAILED`

| USER_ATTENTION_REQUIRED | DELETING | DELETION_FAILED | DELETED |
COMPLETED

templateId

The ID of the template.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[-a-zA-Z0-9_.+]+[-a-zA-Z0-9_.+ ]*`

Request Body

The request does not have a request body.

Response Syntax

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

{
   "migrationWorkflowSummary": [
      {
         "adsApplicationConfigurationName": "string",
         "completedSteps": number,
         "creationTime": number,
         "endTime": number,
         "id": "string",
         "name": "string",
         "status": "string",
         "statusMessage": "string",
         "templateId": "string",
         "totalSteps": number
      }
   ],
   "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.

migrationWorkflowSummary

   The summary of the migration workflow.

   Type: Array of MigrationWorkflowSummary objects

nextToken

   The pagination token.

   Type: String

   Length Constraints: Minimum length of 0. Maximum length of 2048.

   Pattern: `.*\S.*`

Errors

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

AccessDeniedException

   You do not have sufficient access to perform this action.

   HTTP Status Code: 403

InternalServerException

   An internal error has occurred.

   HTTP Status Code: 500

ResourceNotFoundException

   The resource is not available.

   HTTP Status Code: 404

ThrottlingException

   The request was denied due to request throttling.

   HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListWorkflowStepGroups

List the step groups in a migration workflow.

Request Syntax

```
GET /workflowstepgroups?maxResults=maxResults&nextToken=nextToken&workflowId=workflowId
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

  The maximum number of results that can be returned.

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

nextToken

  The pagination token.

  Length Constraints: Minimum length of 0. Maximum length of 2048.

  Pattern: `.*\S.*`

workflowId

  The ID of the migration workflow.

  Length Constraints: Minimum length of 1. Maximum length of 100.

  Pattern: `[a-zA-Z0-9-]+`

  Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "nextToken": "string",
   "workflowStepGroupsSummary": [
      {
         "id": "string",
         "name": "string",
         "next": [ "string" ],
         "owner": "string",
         "previous": [ "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.

nextToken

The pagination token.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: .*\S.*

workflowStepGroupsSummary

The summary of step groups in a migration workflow.

Type: Array of WorkflowStepGroupSummary objects

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

An internal error has occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource is not available.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2

- [AWS SDK for Java V2](#)

- [AWS SDK for JavaScript V3](#)

- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

ListWorkflowSteps

List the steps in a workflow.

Request Syntax

```
GET /workflow/workflowId/workflowstepgroups/stepGroupId/workflowsteps?
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results that can be returned.

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

nextToken

The pagination token.

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `.*\S.*`

stepGroupId

The ID of the step group.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9-]+`

Required: Yes

workflowId

The ID of the migration workflow.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9-]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
   "nextToken": "string",
   "workflowStepsSummary": [
      {
         "description": "string",
         "name": "string",
         "next": [ "string" ],
         "noOfSrvCompleted": number,
         "noOfSrvFailed": number,
         "owner": "string",
         "previous": [ "string" ],
         "scriptLocation": "string",
         "status": "string",
         "statusMessage": "string",
         "stepActionType": "string",
         "stepId": "string",
         "totalNoOfSrv": 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.

nextToken

The pagination token.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `.*\S.*`

workflowStepsSummary

The summary of steps in a migration workflow.

Type: Array of WorkflowStepSummary objects

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

An internal error has occurred.

HTTP Status Code: 500

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

RetryWorkflowStep

Retry a failed step in a migration workflow.

Request Syntax

```
POST /retryworkflowstep/id?stepGroupId=stepGroupId&workflowId=workflowId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

id

The ID of the step.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9-]+`

Required: Yes

stepGroupId

The ID of the step group.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9-]+`

Required: Yes

workflowId

The ID of the migration workflow.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9-]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
    "id": "string",
    "status": "string",
    "stepGroupId": "string",
    "workflowId": "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.

id

    The ID of the step.

    Type: String

status

    The status of the step.

    Type: String

    Valid Values: AWAITING_DEPENDENCIES | SKIPPED | READY | IN_PROGRESS |
    COMPLETED | FAILED | PAUSED | USER_ATTENTION_REQUIRED

stepGroupId

    The ID of the step group.

    Type: String

workflowId

> The ID of the migration workflow.

> Type: String

Errors

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

AccessDeniedException

> You do not have sufficient access to perform this action.

> HTTP Status Code: 403

InternalServerException

> An internal error has occurred.

> HTTP Status Code: 500

ResourceNotFoundException

> The resource is not available.

> HTTP Status Code: 404

ThrottlingException

> The request was denied due to request throttling.

> HTTP Status Code: 429

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

StartWorkflow

Start a migration workflow.

Request Syntax

```
POST /migrationworkflow/id/start HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

id

The ID of the migration workflow.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z0-9-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
    "arn": "string",
    "id": "string",
    "lastStartTime": number,
    "status": "string",
    "statusMessage": "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.

arn

    The Amazon Resource Name (ARN) of the migration workflow.

    Type: String

id

    The ID of the migration workflow.

    Type: String

    Length Constraints: Minimum length of 1. Maximum length of 100.

    Pattern: `[a-zA-Z0-9-]+`

lastStartTime

    The time at which the migration workflow was last started.

    Type: Timestamp

status

    The status of the migration workflow.

    Type: String

    Valid Values: `CREATING | NOT_STARTED | CREATION_FAILED | STARTING | IN_PROGRESS | WORKFLOW_FAILED | PAUSED | PAUSING | PAUSING_FAILED | USER_ATTENTION_REQUIRED | DELETING | DELETION_FAILED | DELETED | COMPLETED`

statusMessage

    The status message of the migration workflow.

    Type: String

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

An internal error has occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource is not available.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2

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

StopWorkflow

Stop an ongoing migration workflow.

Request Syntax

```
POST /migrationworkflow/id/stop HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

id

The ID of the migration workflow.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z0-9-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
    "arn": "string",
    "id": "string",
    "lastStopTime": number,
    "status": "string",
    "statusMessage": "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.

arn

The Amazon Resource Name (ARN) of the migration workflow.

Type: String

id

The ID of the migration workflow.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9-]+`

lastStopTime

The time at which the migration workflow was stopped.

Type: Timestamp

status

The status of the migration workflow.

Type: String

Valid Values: `CREATING | NOT_STARTED | CREATION_FAILED | STARTING | IN_PROGRESS | WORKFLOW_FAILED | PAUSED | PAUSING | PAUSING_FAILED | USER_ATTENTION_REQUIRED | DELETING | DELETION_FAILED | DELETED | COMPLETED`

statusMessage

The status message of the migration workflow.

Type: String

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

An internal error has occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource is not available.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2

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

TagResource

Tag a resource by specifying its Amazon Resource Name (ARN).

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

The Amazon Resource Name (ARN) of the resource to which you want to add tags.

Pattern: `arn:aws:migrationhub-orchestrator:[a-z0-9-]+:[0-9]+:(template|workflow)/[.]*`

Required: Yes

Request Body

The request accepts the following data in JSON format.

tags

A collection of labels, in the form of key:value pairs, that apply to this resource.

Type: String to string map

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

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

Value Length Constraints: Minimum length of 0. 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.

ResourceNotFoundException

The resource is not available.

HTTP Status Code: 404

ValidationException

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

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

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

UntagResource

Deletes the tags for a resource.

Request Syntax

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

URI Request Parameters

The request uses the following URI parameters.

resourceArn

The Amazon Resource Name (ARN) of the resource from which you want to remove tags.

Pattern: `arn:aws:migrationhub-orchestrator:[a-z0-9-]+:[0-9]+:(template|workflow)/[.]*`

Required: Yes

tagKeys

One or more tag keys. Specify only the tag keys, not the tag values.

Array Members: Minimum number of 0 items. Maximum number of 50 items.

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

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

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

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

ResourceNotFoundException

The resource is not available.

HTTP Status Code: 404

ValidationException

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

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateTemplate

Updates a migration workflow template.

Request Syntax

```
POST /template/id HTTP/1.1
Content-type: application/json

{
   "clientToken": "string",
   "templateDescription": "string",
   "templateName": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

id

The ID of the request to update a migration workflow template.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[-a-zA-Z0-9_.+]+[-a-zA-Z0-9_.+ ]*`

Required: Yes

Request Body

The request accepts the following data in JSON format.

clientToken

A unique, case-sensitive identifier that you provide to ensure the idempotency of the request.

Type: String

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

Pattern: `[-a-zA-Z0-9]*`

Required: No

templateDescription

The description of the migration workflow template to update.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 250.

Pattern: `.*`

Required: No

templateName

The name of the migration workflow template to update.

Type: String

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

Pattern: `[ a-zA-Z0-9]*`

Required: No

Response Syntax

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

{
   "tags": {
      "string" : "string"
   },
   "templateArn": "string",
   "templateId": "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

    The tags added to the migration workflow template.

    Type: String to string map

    Key Length Constraints: Minimum length of 1. Maximum length of 100.

    Key Pattern: `[a-zA-Z0-9-_ ()]+`

    Value Length Constraints: Minimum length of 0. Maximum length of 100.

templateArn

    The ARN of the migration workflow template being updated. The format for an Migration Hub Orchestrator template ARN is `arn:aws:migrationhub-orchestrator:region:account:template/template-abcd1234`. For more information about ARNs, see Amazon Resource Names (ARNs) in the *AWS General Reference*.

    Type: String

templateId

    The ID of the migration workflow template being updated.

    Type: String

Errors

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

AccessDeniedException

    You do not have sufficient access to perform this action.

    HTTP Status Code: 403

InternalServerException

    An internal error has occurred.

    HTTP Status Code: 500

ResourceNotFoundException

The resource is not available.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateWorkflow

Update a migration workflow.

Request Syntax

```
POST /migrationworkflow/id HTTP/1.1
Content-type: application/json

{
   "description": "string",
   "inputParameters": {
      "string" : { ... }
   },
   "name": "string",
   "stepTargets": [ "string" ]
}
```

URI Request Parameters

The request uses the following URI parameters.

id

    The ID of the migration workflow.

    Length Constraints: Minimum length of 1. Maximum length of 100.

    Pattern: [a-zA-Z0-9-]+

    Required: Yes

Request Body

The request accepts the following data in JSON format.

description

    The description of the migration workflow.

    Type: String

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

Pattern: `[-a-zA-Z0-9_.+, ]*`

Required: No

inputParameters

The input parameters required to update a migration workflow.

Type: String to StepInput object map

Key Length Constraints: Minimum length of 1. Maximum length of 100.

Key Pattern: `[a-zA-Z0-9-_ ()]+`

Required: No

name

The name of the migration workflow.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[-a-zA-Z0-9_.+]+[-a-zA-Z0-9_.+ ]*`

Required: No

stepTargets

The servers on which a step will be run.

Type: Array of strings

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

Required: No

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
    "adsApplicationConfigurationId": "string",
    "arn": "string",
    "creationTime": number,
    "description": "string",
    "id": "string",
    "lastModifiedTime": number,
    "name": "string",
    "status": "string",
    "stepTargets": [ "string" ],
    "tags": {
        "string" : "string"
    },
    "templateId": "string",
    "workflowInputs": {
        "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.

adsApplicationConfigurationId

The ID of the application configured in Application Discovery Service.

Type: String

arn

The Amazon Resource Name (ARN) of the migration workflow.

Type: String

creationTime

The time at which the migration workflow was created.

Type: Timestamp

description

The description of the migration workflow.

Type: String

id

The ID of the migration workflow.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9-]+`

lastModifiedTime

The time at which the migration workflow was last modified.

Type: Timestamp

name

The name of the migration workflow.

Type: String

status

The status of the migration workflow.

Type: String

Valid Values: `CREATING | NOT_STARTED | CREATION_FAILED | STARTING | IN_PROGRESS | WORKFLOW_FAILED | PAUSED | PAUSING | PAUSING_FAILED | USER_ATTENTION_REQUIRED | DELETING | DELETION_FAILED | DELETED | COMPLETED`

stepTargets

The servers on which a step will be run.

Type: Array of strings

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

tags

The tags added to the migration workflow.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 100.

Key Pattern: `[a-zA-Z0-9-_ ()]+`

Value Length Constraints: Minimum length of 0. Maximum length of 100.

templateId

The ID of the template.

Type: String

workflowInputs

The inputs required to update a migration workflow.

Type: String to StepInput object map

Key Length Constraints: Minimum length of 1. Maximum length of 100.

Key Pattern: `[a-zA-Z0-9-_ ()]+`

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

An internal error has occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource is not available.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateWorkflowStep

Update a step in a migration workflow.

Request Syntax

```
POST /workflowstep/id HTTP/1.1
Content-type: application/json

{
   "description": "string",
   "name": "string",
   "next": [ "string" ],
   "outputs": [
      {
         "dataType": "string",
         "name": "string",
         "required": boolean,
         "value": { ... }
      }
   ],
   "previous": [ "string" ],
   "status": "string",
   "stepActionType": "string",
   "stepGroupId": "string",
   "stepTarget": [ "string" ],
   "workflowId": "string",
   "workflowStepAutomationConfiguration": {
      "command": {
         "linux": "string",
         "windows": "string"
      },
      "runEnvironment": "string",
      "scriptLocationS3Bucket": "string",
      "scriptLocationS3Key": {
         "linux": "string",
         "windows": "string"
      },
      "targetType": "string"
   }
}
```

URI Request Parameters

The request uses the following URI parameters.

id

>   The ID of the step.

>   Length Constraints: Minimum length of 1. Maximum length of 100.

>   Pattern: `[a-zA-Z0-9-]+`

>   Required: Yes

Request Body

The request accepts the following data in JSON format.

description

>   The description of the step.

>   Type: String

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

>   Pattern: `[-a-zA-Z0-9_.+, ]*`

>   Required: No

name

>   The name of the step.

>   Type: String

>   Length Constraints: Minimum length of 1. Maximum length of 100.

>   Pattern: `[-a-zA-Z0-9_.+]+[-a-zA-Z0-9_.+ ]*`

>   Required: No

next

>   The next step.

Type: Array of strings

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

Required: No

outputs

The outputs of a step.

Type: Array of [WorkflowStepOutput](#) objects

Required: No

previous

The previous step.

Type: Array of strings

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

Required: No

status

The status of the step.

Type: String

Valid Values: `AWAITING_DEPENDENCIES | SKIPPED | READY | IN_PROGRESS | COMPLETED | FAILED | PAUSED | USER_ATTENTION_REQUIRED`

Required: No

stepActionType

The action type of the step. You must run and update the status of a manual step for the workflow to continue after the completion of the step.

Type: String

Valid Values: `MANUAL | AUTOMATED`

Required: No

stepGroupId

The ID of the step group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9-]+`

Required: Yes

stepTarget

The servers on which a step will be run.

Type: Array of strings

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

Required: No

workflowId

The ID of the migration workflow.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9-]+`

Required: Yes

workflowStepAutomationConfiguration

The custom script to run tests on the source and target environments.

Type: [WorkflowStepAutomationConfiguration](#) object

Required: No

Response Syntax

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

```
{
    "id": "string",
    "name": "string",
    "stepGroupId": "string",
    "workflowId": "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.

id

The ID of the step.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: [a-zA-Z0-9-]+

name

The name of the step.

Type: String

stepGroupId

The ID of the step group.

Type: String

workflowId

The ID of the migration workflow.

Type: String

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

InternalServerException

An internal error has occurred.

HTTP Status Code: 500

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateWorkflowStepGroup

Update the step group in a migration workflow.

Request Syntax

```
POST /workflowstepgroup/id?workflowId=workflowId HTTP/1.1
Content-type: application/json

{
   "description": "string",
   "name": "string",
   "next": [ "string" ],
   "previous": [ "string" ]
}
```

URI Request Parameters

The request uses the following URI parameters.

id

The ID of the step group.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9-]+`

Required: Yes

workflowId

The ID of the migration workflow.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9-]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

description

The description of the step group.

Type: String

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

Pattern: `[-a-zA-Z0-9_.+, ]*`

Required: No

name

The name of the step group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[-a-zA-Z0-9_.+]+[-a-zA-Z0-9_.+ ]*`

Required: No

next

The next step group.

Type: Array of strings

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

Required: No

previous

The previous step group.

Type: Array of strings

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

Required: No

Response Syntax

```
HTTP/1.1 202
Content-type: application/json

{
   "description": "string",
   "id": "string",
   "lastModifiedTime": number,
   "name": "string",
   "next": [ "string" ],
   "previous": [ "string" ],
   "tools": [
      {
         "name": "string",
         "url": "string"
      }
   ],
   "workflowId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 202 response.

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

description

The description of the step group.

Type: String

id

The ID of the step group.

Type: String

lastModifiedTime

The time at which the step group was last modified.

Type: Timestamp

name

    The name of the step group.

    Type: String

next

    The next step group.

    Type: Array of strings

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

previous

    The previous step group.

    Type: Array of strings

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

tools

    List of AWS services utilized in a migration workflow.

    Type: Array of Tool objects

workflowId

    The ID of the migration workflow.

    Type: String

Errors

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

AccessDeniedException

    You do not have sufficient access to perform this action.

    HTTP Status Code: 403

InternalServerException

    An internal error has occurred.

HTTP Status Code: 500

ResourceNotFoundException

The resource is not available.

HTTP Status Code: 404

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 429

ValidationException

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

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

Data Types

The AWS Migration Hub Orchestrator 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:

- [MigrationWorkflowSummary](#)
- [PlatformCommand](#)
- [PlatformScriptKey](#)
- [PluginSummary](#)
- [StepAutomationConfiguration](#)
- [StepInput](#)
- [StepOutput](#)
- [TemplateInput](#)
- [TemplateSource](#)
- [TemplateStepGroupSummary](#)
- [TemplateStepSummary](#)
- [TemplateSummary](#)
- [Tool](#)
- [WorkflowStepAutomationConfiguration](#)
- [WorkflowStepGroupSummary](#)
- [WorkflowStepOutput](#)
- [WorkflowStepOutputUnion](#)
- [WorkflowStepSummary](#)

MigrationWorkflowSummary

The summary of a migration workflow.

Contents

adsApplicationConfigurationName

The name of the application configured in Application Discovery Service.

Type: String

Required: No

completedSteps

The steps completed in the migration workflow.

Type: Integer

Required: No

creationTime

The time at which the migration workflow was created.

Type: Timestamp

Required: No

endTime

The time at which the migration workflow ended.

Type: Timestamp

Required: No

id

The ID of the migration workflow.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9-]+`

Required: No

name

The name of the migration workflow.

Type: String

Required: No

status

The status of the migration workflow.

Type: String

Valid Values: `CREATING | NOT_STARTED | CREATION_FAILED | STARTING | IN_PROGRESS | WORKFLOW_FAILED | PAUSED | PAUSING | PAUSING_FAILED | USER_ATTENTION_REQUIRED | DELETING | DELETION_FAILED | DELETED | COMPLETED`

Required: No

statusMessage

The status message of the migration workflow.

Type: String

Required: No

templateId

The ID of the template.

Type: String

Required: No

totalSteps

All the steps in a migration workflow.

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

PlatformCommand

Command to be run on a particular operating system.

Contents

linux

Command for Linux.

Type: String

Required: No

windows

Command for Windows.

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

PlatformScriptKey

The script location for a particular operating system.

Contents

linux

The script location for Linux.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

windows

The script location for Windows.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

See Also

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

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

PluginSummary

The summary of the Migration Hub Orchestrator plugin.

Contents

hostname

The name of the host.

Type: String

Required: No

ipAddress

The IP address at which the plugin is located.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 15.

Pattern: `(([0-9]|[1-9][0-9]|1[0-9]{2}|2[0-4][0-9]|25[0-5])\.){3}([0-9]|[1-9][0-9]|1[0-9]{2}|2[0-4][0-9]|25[0-5])`

Required: No

pluginId

The ID of the plugin.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 60.

Pattern: `.*\S.*`

Required: No

registeredTime

The time at which the plugin was registered.

Type: String

Required: No

status

The status of the plugin.

Type: String

Valid Values: HEALTHY | UNHEALTHY

Required: No

version

The version of the plugin.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: .*

Required: No

See Also

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

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

StepAutomationConfiguration

The custom script to run tests on source or target environments.

Contents

command

The command to run the script.

Type: [PlatformCommand](#) object

Required: No

runEnvironment

The source or target environment.

Type: String

Valid Values: AWS | ONPREMISE

Required: No

scriptLocationS3Bucket

The Amazon S3 bucket where the script is located.

Type: String

Required: No

scriptLocationS3Key

The Amazon S3 key for the script location.

Type: [PlatformScriptKey](#) object

Required: No

targetType

The servers on which to run the script.

Type: String

Valid Values: `SINGLE | ALL | NONE`

Required: No

See Also

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

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

StepInput

A map of key value pairs that is generated when you create a migration workflow. The key value pairs will differ based on your selection of the template.

Contents

> ⚠️ **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

integerValue

The value of the integer.

Type: Integer

Required: No

listOfStringsValue

List of string values.

Type: Array of strings

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

Required: No

mapOfStringValue

Map of string values.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 100.

Key Pattern: `[a-zA-Z0-9-_ ()]+`

Value Length Constraints: Minimum length of 0. Maximum length of 100.

Required: No

stringValue

String value.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 100.

Required: No

See Also

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

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

StepOutput

The output of the step.

Contents

dataType

   The data type of the step output.

   Type: String

   Valid Values: `STRING | INTEGER | STRINGLIST | STRINGMAP`

   Required: No

name

   The name of the step.

   Type: String

   Required: No

required

   Determine if an output is required from a step.

   Type: Boolean

   Required: No

See Also

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

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

TemplateInput

The input parameters of a template.

Contents

dataType

The data type of the template input.

Type: String

Valid Values: `STRING | INTEGER | STRINGLIST | STRINGMAP`

Required: No

inputName

The name of the template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[-a-zA-Z0-9_.+]+[-a-zA-Z0-9_.+ ]*`

Required: No

required

Determine if an input is required from the template.

Type: Boolean

Required: No

See Also

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

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

- [AWS SDK for Ruby V3](#)

TemplateSource

The migration workflow template used as the source for the new template.

Contents

> ⚠ **Important**
>
> This data type is a UNION, so only one of the following members can be specified when
> used or returned.

workflowId

The ID of the workflow from the source migration workflow template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[a-zA-Z0-9-]+`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TemplateStepGroupSummary

The summary of the step group in the template.

Contents

id

The ID of the step group.

Type: String

Required: No

name

The name of the step group.

Type: String

Required: No

next

The next step group.

Type: Array of strings

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

Required: No

previous

The previous step group.

Type: Array of strings

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

Required: No

See Also

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

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

TemplateStepSummary

The summary of the step.

Contents

id

The ID of the step.

Type: String

Required: No

name

The name of the step.

Type: String

Required: No

next

The next step.

Type: Array of strings

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

Required: No

owner

The owner of the step.

Type: String

Valid Values: `AWS_MANAGED | CUSTOM`

Required: No

previous

The previous step.

Type: Array of strings

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

Required: No

stepActionType

The action type of the step. You must run and update the status of a manual step for the workflow to continue after the completion of the step.

Type: String

Valid Values: MANUAL | AUTOMATED

Required: No

stepGroupId

The ID of the step group.

Type: String

Required: No

targetType

The servers on which to run the script.

Type: String

Valid Values: SINGLE | ALL | NONE

Required: No

templateId

The ID of the template.

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

TemplateSummary

The summary of the template.

Contents

arn

The Amazon Resource Name (ARN) of the template.

Type: String

Required: No

description

The description of the template.

Type: String

Required: No

id

The ID of the template.

Type: String

Required: No

name

The name of the template.

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 Java V2](#)

- [AWS SDK for Ruby V3](#)

Tool

List of AWS services utilized in a migration workflow.

Contents

name

The name of an AWS service.

Type: String

Required: No

url

The URL of an AWS service.

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

WorkflowStepAutomationConfiguration

The custom script to run tests on source or target environments.

Contents

command

The command required to run the script.

Type: PlatformCommand object

Required: No

runEnvironment

The source or target environment.

Type: String

Valid Values: AWS | ONPREMISE

Required: No

scriptLocationS3Bucket

The Amazon S3 bucket where the script is located.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 63.

Pattern: [0-9a-z]+[0-9a-z\.\-]*[0-9a-z]+

Required: No

scriptLocationS3Key

The Amazon S3 key for the script location.

Type: PlatformScriptKey object

Required: No

targetType

The servers on which to run the script.

Type: String

Valid Values: SINGLE | ALL | NONE

Required: No

See Also

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

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

WorkflowStepGroupSummary

The summary of a step group in a workflow.

Contents

id

The ID of the step group.

Type: String

Required: No

name

The name of the step group.

Type: String

Required: No

next

The next step group.

Type: Array of strings

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

Required: No

owner

The owner of the step group.

Type: String

Valid Values: `AWS_MANAGED | CUSTOM`

Required: No

previous

The previous step group.

Type: Array of strings

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

Required: No

status

The status of the step group.

Type: String

Valid Values: `AWAITING_DEPENDENCIES | READY | IN_PROGRESS | COMPLETED |`
`FAILED | PAUSED | PAUSING | USER_ATTENTION_REQUIRED`

Required: No

See Also

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

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

WorkflowStepOutput

The output of a step.

Contents

dataType

The data type of the output.

Type: String

Valid Values: `STRING | INTEGER | STRINGLIST | STRINGMAP`

Required: No

name

The name of the step.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[-a-zA-Z0-9_.+]+[-a-zA-Z0-9_.+ ]*`

Required: No

required

Determine if an output is required from a step.

Type: Boolean

Required: No

value

The value of the output.

Type: [WorkflowStepOutputUnion](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

See Also

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

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

WorkflowStepOutputUnion

A structure to hold multiple values of an output.

Contents

> ⚠️ **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

integerValue

The integer value.

Type: Integer

Required: No

listOfStringValue

The list of string value.

Type: Array of strings

Length Constraints: Minimum length of 0. Maximum length of 2048.

Required: No

stringValue

The string value.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Required: No

See Also

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

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

WorkflowStepSummary

The summary of the step in a migration workflow.

Contents

description

The description of the step.

Type: String

Required: No

name

The name of the step.

Type: String

Required: No

next

The next step.

Type: Array of strings

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

Required: No

noOfSrvCompleted

The number of servers that have been migrated.

Type: Integer

Required: No

noOfSrvFailed

The number of servers that have failed to migrate.

Type: Integer

Required: No

owner

The owner of the step.

Type: String

Valid Values: `AWS_MANAGED | CUSTOM`

Required: No

previous

The previous step.

Type: Array of strings

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

Required: No

scriptLocation

The location of the script.

Type: String

Required: No

status

The status of the step.

Type: String

Valid Values: `AWAITING_DEPENDENCIES | SKIPPED | READY | IN_PROGRESS | COMPLETED | FAILED | PAUSED | USER_ATTENTION_REQUIRED`

Required: No

statusMessage

The status message of the migration workflow.

Type: String

Required: No

stepActionType

The action type of the step. You must run and update the status of a manual step for the workflow to continue after the completion of the step.

Type: String

Valid Values: MANUAL | AUTOMATED

Required: No

stepId

The ID of the step.

Type: String

Required: No

totalNoOfSrv

The total number of servers that have been migrated.

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 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 [Signing AWS API requests](#) in the *IAM User Guide*.

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 [Create a signed AWS API request](#) in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

X-Amz-Date

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'T'HHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: 20120325T120000Z.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see [Elements of an AWS API request signature](#) in the *IAM User Guide*.

Type: string

Required: Conditional

X-Amz-Security-Token

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS STS, see [AWS services that work with IAM](#) in the *IAM User Guide*.

Condition: If you're using temporary security credentials from AWS STS, you must include the security token.

Type: string

Required: Conditional

X-Amz-Signature

Specifies the hex-encoded signature that was calculated from the string to sign and the derived signing key.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

X-Amz-SignedHeaders

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see Create a signed AWS API request in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

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: 403

ExpiredTokenException

The security token included in the request is expired

HTTP Status Code: 403

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 403

InternalFailure

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

HTTP Status Code: 500

MalformedHttpRequestException

Problems with the request at the HTTP level, e.g. we can't decompress the body according to the decompression algorithm specified by the content-encoding.

HTTP Status Code: 400

NotAuthorized

You do not have permission to perform this action.

HTTP Status Code: 401

OptInRequired

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

HTTP Status Code: 403

RequestAbortedException

Convenient exception that can be used when a request is aborted before a reply is sent back (e.g. client closed connection).

HTTP Status Code: 400

RequestEntityTooLargeException

Problems with the request at the HTTP level. The request entity is too large.

HTTP Status Code: 413

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

RequestTimeoutException

Problems with the request at the HTTP level. Reading the Request timed out.

HTTP Status Code: 408

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

UnrecognizedClientException

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

HTTP Status Code: 403

UnknownOperationException

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

HTTP Status Code: 404

ValidationError

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

HTTP Status Code: 400