



Welcome

# Migration Hub Orchestrator



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# Migration Hub Orchestrator: Welcome

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# Table of Contents

<b>Welcome</b> .....	<b>1</b>
<b>Actions</b> .....	<b>2</b>
CreateTemplate .....	4
Request Syntax .....	4
URI Request Parameters .....	4
Request Body .....	4
Response Syntax .....	6
Response Elements .....	6
Errors .....	7
See Also .....	7
CreateWorkflow .....	9
Request Syntax .....	9
URI Request Parameters .....	9
Request Body .....	9
Response Syntax .....	11
Response Elements .....	12
Errors .....	14
See Also .....	14
CreateWorkflowStep .....	16
Request Syntax .....	16
URI Request Parameters .....	17
Request Body .....	17
Response Syntax .....	19
Response Elements .....	19
Errors .....	20
See Also .....	21
CreateWorkflowStepGroup .....	22
Request Syntax .....	22
URI Request Parameters .....	22
Request Body .....	22
Response Syntax .....	23
Response Elements .....	24
Errors .....	25
See Also .....	26

---

DeleteTemplate .....	27
Request Syntax .....	27
URI Request Parameters .....	27
Request Body .....	27
Response Syntax .....	27
Response Elements .....	27
Errors .....	27
See Also .....	28
DeleteWorkflow .....	30
Request Syntax .....	30
URI Request Parameters .....	30
Request Body .....	30
Response Syntax .....	30
Response Elements .....	30
Errors .....	31
See Also .....	32
DeleteWorkflowStep .....	33
Request Syntax .....	33
URI Request Parameters .....	33
Request Body .....	34
Response Syntax .....	34
Response Elements .....	34
Errors .....	34
See Also .....	35
DeleteWorkflowStepGroup .....	36
Request Syntax .....	36
URI Request Parameters .....	36
Request Body .....	36
Response Syntax .....	36
Response Elements .....	37
Errors .....	37
See Also .....	37
GetTemplate .....	39
Request Syntax .....	39
URI Request Parameters .....	39
Request Body .....	39

Response Syntax .....	39
Response Elements .....	40
Errors .....	42
See Also .....	43
GetTemplateStep .....	44
Request Syntax .....	44
URI Request Parameters .....	44
Request Body .....	45
Response Syntax .....	45
Response Elements .....	46
Errors .....	47
See Also .....	48
GetTemplateStepGroup .....	50
Request Syntax .....	50
URI Request Parameters .....	50
Request Body .....	50
Response Syntax .....	50
Response Elements .....	51
Errors .....	52
See Also .....	53
GetWorkflow .....	55
Request Syntax .....	55
URI Request Parameters .....	55
Request Body .....	55
Response Syntax .....	55
Response Elements .....	56
Errors .....	59
See Also .....	60
GetWorkflowStep .....	61
Request Syntax .....	61
URI Request Parameters .....	61
Request Body .....	62
Response Syntax .....	62
Response Elements .....	63
Errors .....	66
See Also .....	67

---

GetWorkflowStepGroup .....	68
Request Syntax .....	68
URI Request Parameters .....	68
Request Body .....	68
Response Syntax .....	68
Response Elements .....	69
Errors .....	71
See Also .....	72
ListPlugins .....	73
Request Syntax .....	73
URI Request Parameters .....	73
Request Body .....	73
Response Syntax .....	73
Response Elements .....	74
Errors .....	74
See Also .....	75
ListTagsForResource .....	76
Request Syntax .....	76
URI Request Parameters .....	76
Request Body .....	76
Response Syntax .....	76
Response Elements .....	76
Errors .....	77
See Also .....	77
ListTemplates .....	79
Request Syntax .....	79
URI Request Parameters .....	79
Request Body .....	79
Response Syntax .....	79
Response Elements .....	80
Errors .....	80
See Also .....	81
ListTemplateStepGroups .....	82
Request Syntax .....	82
URI Request Parameters .....	82
Request Body .....	82

Response Syntax .....	82
Response Elements .....	83
Errors .....	83
See Also .....	84
ListTemplateSteps .....	85
Request Syntax .....	85
URI Request Parameters .....	85
Request Body .....	86
Response Syntax .....	86
Response Elements .....	86
Errors .....	87
See Also .....	87
ListWorkflows .....	89
Request Syntax .....	89
URI Request Parameters .....	89
Request Body .....	90
Response Syntax .....	90
Response Elements .....	90
Errors .....	91
See Also .....	92
ListWorkflowStepGroups .....	93
Request Syntax .....	93
URI Request Parameters .....	93
Request Body .....	93
Response Syntax .....	94
Response Elements .....	94
Errors .....	95
See Also .....	95
ListWorkflowSteps .....	97
Request Syntax .....	97
URI Request Parameters .....	97
Request Body .....	98
Response Syntax .....	98
Response Elements .....	98
Errors .....	99
See Also .....	99

RetryWorkflowStep .....	101
Request Syntax .....	101
URI Request Parameters .....	101
Request Body .....	102
Response Syntax .....	102
Response Elements .....	102
Errors .....	103
See Also .....	103
StartWorkflow .....	105
Request Syntax .....	105
URI Request Parameters .....	105
Request Body .....	105
Response Syntax .....	105
Response Elements .....	106
Errors .....	107
See Also .....	107
StopWorkflow .....	109
Request Syntax .....	109
URI Request Parameters .....	109
Request Body .....	109
Response Syntax .....	109
Response Elements .....	110
Errors .....	111
See Also .....	111
TagResource .....	113
Request Syntax .....	113
URI Request Parameters .....	113
Request Body .....	113
Response Syntax .....	114
Response Elements .....	114
Errors .....	114
See Also .....	114
UntagResource .....	116
Request Syntax .....	116
URI Request Parameters .....	116
Request Body .....	116



Response Syntax .....	116
Response Elements .....	117
Errors .....	117
See Also .....	117
UpdateTemplate .....	118
Request Syntax .....	118
URI Request Parameters .....	118
Request Body .....	118
Response Syntax .....	119
Response Elements .....	119
Errors .....	120
See Also .....	121
UpdateWorkflow .....	122
Request Syntax .....	122
URI Request Parameters .....	122
Request Body .....	122
Response Syntax .....	123
Response Elements .....	124
Errors .....	126
See Also .....	127
UpdateWorkflowStep .....	128
Request Syntax .....	128
URI Request Parameters .....	129
Request Body .....	129
Response Syntax .....	131
Response Elements .....	132
Errors .....	132
See Also .....	133
UpdateWorkflowStepGroup .....	134
Request Syntax .....	134
URI Request Parameters .....	134
Request Body .....	134
Response Syntax .....	136
Response Elements .....	136
Errors .....	137
See Also .....	138

<b>Data Types</b> .....	<b>139</b>
MigrationWorkflowSummary .....	140
Contents .....	140
See Also .....	142
PlatformCommand .....	143
Contents .....	143
See Also .....	143
PlatformScriptKey .....	144
Contents .....	144
See Also .....	144
PluginSummary .....	145
Contents .....	145
See Also .....	146
StepAutomationConfiguration .....	147
Contents .....	147
See Also .....	148
StepInput .....	149
Contents .....	149
See Also .....	150
StepOutput .....	151
Contents .....	151
See Also .....	151
TemplateInput .....	152
Contents .....	152
See Also .....	152
TemplateSource .....	154
Contents .....	154
See Also .....	154
TemplateStepGroupSummary .....	155
Contents .....	155
See Also .....	155
TemplateStepSummary .....	157
Contents .....	157
See Also .....	158
TemplateSummary .....	160
Contents .....	160

---

See Also .....	160
Tool .....	162
Contents .....	162
See Also .....	162
WorkflowStepAutomationConfiguration .....	163
Contents .....	163
See Also .....	164
WorkflowStepGroupSummary .....	165
Contents .....	165
See Also .....	166
WorkflowStepOutput .....	167
Contents .....	167
See Also .....	168
WorkflowStepOutputUnion .....	169
Contents .....	169
See Also .....	169
WorkflowStepSummary .....	171
Contents .....	171
See Also .....	173
<b>Common Parameters .....</b>	<b>174</b>
<b>Common Errors .....</b>	<b>177</b>

# 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 July 2, 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

### InternalServerError

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

### InternalServerError

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](#)

# 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

### **InternalServerErrorException**

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](#)



# 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

### **InternalServerError**

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](#)

# 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

## **InternalServerError**

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](#)



# 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

### **InternalServerError**

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](#)

# 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

### InternalServerError

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](#)

# 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

### InternalServerErrorException

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](#)

# 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

### **InternalServerError**

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

## **InternalServerError**

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](#)

# 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

## **InternalServerError**

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](#)

# 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

### **InternalServerErrorException**

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

### **InternalServerError**

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

### **InternalServerError**

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

### **InternalServerError**

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

### **InternalServerErrorException**

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

### **InternalServerErrorException**

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

### **InternalServerErrorException**

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

### **InternalServerError**

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

### InternalServerError

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

### **InternalServerErrorException**

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

### **InternalServerError**

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

### InternalServerError

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

### InternalServerError

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](#)

# 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

### **InternalServerError**

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

### **InternalServerError**

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

## InternalServerError

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

### **InternalServerError**

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