
AWS CodePipeline

API Reference

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AWS CodePipeline: API Reference

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Welcome

Overview

This is the AWS CodePipeline API Reference. This guide provides descriptions of the actions and data types for AWS CodePipeline. Some functionality for your pipeline is only configurable through the API. For additional information, see the [AWS CodePipeline User Guide](#).

You can use the AWS CodePipeline API to work with pipelines, stages, actions, gates, and transitions, as described below.

Pipelines are models of automated release processes. Each pipeline is uniquely named, and consists of actions, gates, and stages.

You can work with pipelines by calling:

- [CreatePipeline \(p. 13\)](#), which creates a uniquely-named pipeline.
- [DeletePipeline \(p. 21\)](#), which deletes the specified pipeline.
- [GetPipeline \(p. 31\)](#), which returns information about a pipeline structure.
- [GetPipelineExecution \(p. 35\)](#), which returns information about a specific execution of a pipeline.
- [GetPipelineState \(p. 38\)](#), which returns information about the current state of the stages and actions of a pipeline.
- [ListPipelines \(p. 52\)](#), which gets a summary of all of the pipelines associated with your account.
- [StartPipelineExecution \(p. 77\)](#), which runs the the most recent revision of an artifact through the pipeline.
- [UpdatePipeline \(p. 79\)](#), which updates a pipeline with edits or changes to the structure of the pipeline.

Pipelines include *stages*, which are logical groupings of gates and actions. Each stage contains one or more actions that must complete before the next stage begins. A stage will result in success or failure. If a stage fails, then the pipeline stops at that stage and will remain stopped until either a new version of an artifact appears in the source location, or a user takes action to re-run the most recent artifact through the pipeline. You can call [GetPipelineState \(p. 38\)](#), which displays the status of a pipeline, including the status of stages in the pipeline, or [GetPipeline \(p. 31\)](#), which returns the entire structure of the pipeline, including the stages of that pipeline. For more information about the structure of stages and actions, also refer to the [AWS CodePipeline Pipeline Structure Reference](#).

Pipeline stages include *actions*, which are categorized into categories such as source or build actions performed within a stage of a pipeline. For example, you can use a source action to import artifacts into a pipeline from a source such as Amazon S3. Like stages, you do not work with actions directly in most cases, but you do define and interact with actions when working with pipeline operations such as [CreatePipeline \(p. 13\)](#) and [GetPipelineState \(p. 38\)](#).

Pipelines also include *transitions*, which allow the transition of artifacts from one stage to the next in a pipeline after the actions in one stage complete.

You can work with transitions by calling:

- [DisableStageTransition \(p. 23\)](#), which prevents artifacts from transitioning to the next stage in a pipeline.
- [EnableStageTransition \(p. 25\)](#), which enables transition of artifacts between stages in a pipeline.

Using the API to integrate with AWS CodePipeline

For third-party integrators or developers who want to create their own integrations with AWS CodePipeline, the expected sequence varies from the standard API user. In order to integrate with AWS CodePipeline, developers will need to work with the following items:

Jobs, which are instances of an action. For example, a job for a source action might import a revision of an artifact from a source.

You can work with jobs by calling:

- [AcknowledgeJob \(p. 4\)](#), which confirms whether a job worker has received the specified job,
- [GetJobDetails \(p. 27\)](#), which returns the details of a job,
- [PollForJobs \(p. 54\)](#), which determines whether there are any jobs to act upon,
- [PutJobFailureResult \(p. 67\)](#), which provides details of a job failure, and
- [PutJobSuccessResult \(p. 68\)](#), which provides details of a job success.

Third party jobs, which are instances of an action created by a partner action and integrated into AWS CodePipeline. Partner actions are created by members of the AWS Partner Network.

You can work with third party jobs by calling:

- [AcknowledgeThirdPartyJob \(p. 6\)](#), which confirms whether a job worker has received the specified job,
- [GetThirdPartyJobDetails \(p. 42\)](#), which requests the details of a job for a partner action,
- [PollForThirdPartyJobs \(p. 59\)](#), which determines whether there are any jobs to act upon,
- [PutThirdPartyJobFailureResult \(p. 70\)](#), which provides details of a job failure, and
- [PutThirdPartyJobSuccessResult \(p. 72\)](#), which provides details of a job success.

This document was last published on December 9, 2016.

Actions

The following actions are supported:

- [AcknowledgeJob](#) (p. 4)
- [AcknowledgeThirdPartyJob](#) (p. 6)
- [CreateCustomActionType](#) (p. 8)
- [CreatePipeline](#) (p. 13)
- [DeleteCustomActionType](#) (p. 19)
- [DeletePipeline](#) (p. 21)
- [DisableStageTransition](#) (p. 23)
- [EnableStageTransition](#) (p. 25)
- [GetJobDetails](#) (p. 27)
- [GetPipeline](#) (p. 31)
- [GetPipelineExecution](#) (p. 35)
- [GetPipelineState](#) (p. 38)
- [GetThirdPartyJobDetails](#) (p. 42)
- [ListActionTypes](#) (p. 45)
- [ListPipelines](#) (p. 52)
- [PollForJobs](#) (p. 54)
- [PollForThirdPartyJobs](#) (p. 59)
- [PutActionRevision](#) (p. 61)
- [PutApprovalResult](#) (p. 64)
- [PutJobFailureResult](#) (p. 67)
- [PutJobSuccessResult](#) (p. 68)
- [PutThirdPartyJobFailureResult](#) (p. 70)
- [PutThirdPartyJobSuccessResult](#) (p. 72)
- [RetryStageExecution](#) (p. 74)
- [StartPipelineExecution](#) (p. 77)
- [UpdatePipeline](#) (p. 79)

AcknowledgeJob

Returns information about a specified job and whether that job has been received by the job worker. Only used for custom actions.

Request Syntax

```
{  
  "jobId": "string",  
  "nonce": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 129).

The request accepts the following data in JSON format.

jobId (p. 4)

The unique system-generated ID of the job for which you want to confirm receipt.

Type: String

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

nonce (p. 4)

A system-generated random number that AWS CodePipeline uses to ensure that the job is being worked on by only one job worker. Get this number from the response of the [PollForJobs](#) (p. 54) request that returned this job.

Type: String

Required: Yes

Response Syntax

```
{  
  "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.

status (p. 4)

Whether the job worker has received the specified job.

Type: String

Valid Values: Created | Queued | Dispatched | InProgress | TimedOut | Succeeded | Failed

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 131).

InvalidNonceException

The specified nonce was specified in an invalid format.

HTTP Status Code: 400

JobNotFoundException

The specified job was specified in an invalid format or cannot be found.

HTTP Status Code: 400

ValidationException

The validation was specified in an invalid format.

HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1
Host: codepipeline.us-east-1.amazonaws.com
Accept-Encoding: identity
Content-Length: 63
X-Amz-Target: CodePipeline_20150709.AcknowledgeJob
X-Amz-Date: 20160707T205252Z
User-Agent: aws-cli/1.7.38 Python/2.7.9 Windows/7
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAI44QH8DHBEXAMPLE/20160707/
us-east-1/codepipeline/aws4_request, SignedHeaders=content-type;host;user-
agent;x-amz-date;x-amz-target, Signature=8d9b5998EXAMPLE

{
  "nonce": "3",
  "jobId": "f4f4ff82-2d11-EXAMPLE"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 620484b7-88cb-11e5-b497-75c49EXAMPLE
Content-Type: application/x-amz-json-1.1
Content-Length: 23

{
  "status": "InProgress"
}
```

AcknowledgeThirdPartyJob

Confirms a job worker has received the specified job. Only used for partner actions.

Request Syntax

```
{  
  "clientToken": "string",  
  "jobId": "string",  
  "nonce": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 129).

The request accepts the following data in JSON format.

clientToken (p. 6)

The clientToken portion of the clientId and clientToken pair used to verify that the calling entity is allowed access to the job and its details.

Type: String

Required: Yes

jobId (p. 6)

The unique system-generated ID of the job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: Yes

nonce (p. 6)

A system-generated random number that AWS CodePipeline uses to ensure that the job is being worked on by only one job worker. Get this number from the response to a [GetThirdPartyJobDetails](#) (p. 42) request.

Type: String

Required: Yes

Response Syntax

```
{  
  "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.

status (p. 6)

The status information for the third party job, if any.

Type: String

Valid Values: Created | Queued | Dispatched | InProgress | TimedOut | Succeeded | Failed

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 131\)](#).

InvalidClientTokenException

The client token was specified in an invalid format

HTTP Status Code: 400

InvalidNonceException

The specified nonce was specified in an invalid format.

HTTP Status Code: 400

JobNotFoundException

The specified job was specified in an invalid format or cannot be found.

HTTP Status Code: 400

ValidationException

The validation was specified in an invalid format.

HTTP Status Code: 400

CreateCustomActionType

Creates a new custom action that can be used in all pipelines associated with the AWS account. Only used for custom actions.

Request Syntax

```
{
  "category": "string",
  "configurationProperties": [
    {
      "description": "string",
      "key": boolean,
      "name": "string",
      "queryable": boolean,
      "required": boolean,
      "secret": boolean,
      "type": "string"
    }
  ],
  "inputArtifactDetails": {
    "maximumCount": number,
    "minimumCount": number
  },
  "outputArtifactDetails": {
    "maximumCount": number,
    "minimumCount": number
  },
  "provider": "string",
  "settings": {
    "entityUrlTemplate": "string",
    "executionUrlTemplate": "string",
    "revisionUrlTemplate": "string",
    "thirdPartyConfigurationUrl": "string"
  },
  "version": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 129).

The request accepts the following data in JSON format.

category (p. 8)

The category of the custom action, such as a build action or a test action.

Note

Although Source and Approval are listed as valid values, they are not currently functional. These values are reserved for future use.

Type: String

Valid Values: Source | Build | Deploy | Test | Invoke | Approval

Required: Yes

configurationProperties (p. 8)

The configuration properties for the custom action.

Note

You can refer to a name in the configuration properties of the custom action within the URL templates by following the format of {Config:name}, as long as the configuration property is both required and not secret. For more information, see [Create a Custom Action for a Pipeline](#).

Type: array of [ActionConfigurationProperty \(p. 88\)](#) objects

Array Members: Maximum number of 10 items.

Required: No

inputArtifactDetails (p. 8)

Returns information about the details of an artifact.

Type: [ArtifactDetails \(p. 100\)](#) object

Required: Yes

outputArtifactDetails (p. 8)

Returns information about the details of an artifact.

Type: [ArtifactDetails \(p. 100\)](#) object

Required: Yes

provider (p. 8)

The provider of the service used in the custom action, such as AWS CodeDeploy.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 25.

Pattern: [0-9A-Za-z_-]+

Required: Yes

settings (p. 8)

Returns information about the settings for an action type.

Type: [ActionTypeSettings \(p. 97\)](#) object

Required: No

version (p. 8)

The version identifier of the custom action.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 9.

Pattern: [0-9A-Za-z_-]+

Required: Yes

Response Syntax

```
{
  "actionType": {
    "actionConfigurationProperties": [
      {
        "description": "string",
        "key": boolean,
        "name": "string",
        "queryable": boolean,
        "required": boolean,
        "secret": boolean,
        "type": "string"
      }
    ],
    "id": {
      "category": "string",
      "owner": "string",
```



```
    "provider": "string",
    "version": "string"
  },
  "inputArtifactDetails": {
    "maximumCount": number,
    "minimumCount": number
  },
  "outputArtifactDetails": {
    "maximumCount": number,
    "minimumCount": number
  },
  "settings": {
    "entityUrlTemplate": "string",
    "executionUrlTemplate": "string",
    "revisionUrlTemplate": "string",
    "thirdPartyConfigurationUrl": "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.

actionType (p. 9)

Returns information about the details of an action type.

Type: [ActionType](#) (p. 95) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 131).

LimitExceededException

The number of pipelines associated with the AWS account has exceeded the limit allowed for the account.

HTTP Status Code: 400

ValidationException

The validation was specified in an invalid format.

HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1
Host: codepipeline.us-east-1.amazonaws.com
Accept-Encoding: identity
Content-Length: 665
X-Amz-Target: CodePipeline_20150709.CreateCustomActionType
X-Amz-Date: 20160707T203658Z
User-Agent: aws-cli/1.7.38 Python/2.7.9 Windows/7
Content-Type: application/x-amz-json-1.1
```

```
Authorization: AWS4-HMAC-SHA256 Credential=AKIAI44QH8DHBEXAMPLE/20160707/us-east-1/codepipeline/aws4_request, SignedHeaders=content-type;host;user-agent;x-amz-date;x-amz-target, Signature=8d9b5998EXAMPLE
```

```
{
  "category": "Build",
  "settings": {
    "entityUrlTemplate": "https://192.0.2.4/job/{Config:ProjectName}/",
    "executionUrlTemplate": "https://192.0.2.4/job/{Config:ProjectName}/lastSuccessfulBuild/{ExternalExecutionId}/"
  },
  "configurationProperties": [
    {
      "description": "The name of the build project must be provided when this action is added to the pipeline.",
      "required": true,
      "secret": false,
      "key": true,
      "type": "String",
      "queryable": false,
      "name": "JenkinsBuildProject"
    }
  ],
  "version": "1",
  "provider": "JenkinsProviderName",
  "inputArtifactDetails": {
    "maximumCount": 1,
    "minimumCount": 0
  },
  "outputArtifactDetails": {
    "maximumCount": 1,
    "minimumCount": 0
  }
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 620484b7-88cb-11e5-b497-75c49EXAMPLE
Content-Type: application/x-amz-json-1.1
Content-Length: 683
```

```
{
  "actionType": {
    "actionConfigurationProperties": [
      {
        "description": "The name of the build project must be provided when this action is added to the pipeline.",
        "key": true,
        "name": "JenkinsBuildProject",
        "queryable": false,
        "required": true,
        "secret": false
      }
    ]
  },
  "id": {
    "__type": "ActionTypeId",
    "category": "Build",

```

```
    "owner": "Custom",
    "provider": "JenkinsProviderName",
    "version": "1"
  },
  "inputArtifactDetails": {
    "maximumCount": 1,
    "minimumCount": 0
  },
  "outputArtifactDetails": {
    "maximumCount": 1,
    "minimumCount": 0
  },
  "settings": {
    "entityUrlTemplate": "https://192.0.2.4/job/{Config:ProjectName}/",
    "executionUrlTemplate": "https://192.0.2.4/job/{Config:ProjectName}/
lastSuccessfulBuild/{ExternalExecutionId}/"
  }
}
```

CreatePipeline

Creates a pipeline.

Request Syntax

```
{
  "pipeline": {
    "artifactStore": {
      "encryptionKey": {
        "id": "string",
        "type": "string"
      },
      "location": "string",
      "type": "string"
    },
    "name": "string",
    "roleArn": "string",
    "stages": [
      {
        "actions": [
          {
            "actionTypeId": {
              "category": "string",
              "owner": "string",
              "provider": "string",
              "version": "string"
            },
            "configuration": {
              "string": "string"
            },
            "inputArtifacts": [
              {
                "name": "string"
              }
            ],
            "name": "string",
            "outputArtifacts": [
              {
                "name": "string"
              }
            ],
            "roleArn": "string",
            "runOrder": number
          }
        ],
        "blockers": [
          {
            "name": "string",
            "type": "string"
          }
        ],
        "name": "string"
      }
    ],
    "version": number
  }
}
```

```
}

```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 129).

The request accepts the following data in JSON format.

pipeline (p. 13)

Represents the structure of actions and stages to be performed in the pipeline.

Type: [PipelineDeclaration](#) (p. 117) object

Required: Yes

Response Syntax

```
{
  "pipeline": {
    "artifactStore": {
      "encryptionKey": {
        "id": "string",
        "type": "string"
      },
      "location": "string",
      "type": "string"
    },
    "name": "string",
    "roleArn": "string",
    "stages": [
      {
        "actions": [
          {
            "actionTypeId": {
              "category": "string",
              "owner": "string",
              "provider": "string",
              "version": "string"
            },
            "configuration": {
              "string": "string"
            },
            "inputArtifacts": [
              {
                "name": "string"
              }
            ],
            "name": "string",
            "outputArtifacts": [
              {
                "name": "string"
              }
            ],
            "roleArn": "string",
            "runOrder": number
          }
        ]
      }
    ]
  }
}
```

```
    "blockers": [
      {
        "name": "string",
        "type": "string"
      }
    ],
    "name": "string"
  }
],
"version": 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.

pipeline (p. 14)

Represents the structure of actions and stages to be performed in the pipeline.

Type: [PipelineDeclaration \(p. 117\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 131\)](#).

InvalidActionDeclarationException

The specified action declaration was specified in an invalid format.

HTTP Status Code: 400

InvalidBlockerDeclarationException

Reserved for future use.

HTTP Status Code: 400

InvalidStageDeclarationException

The specified stage declaration was specified in an invalid format.

HTTP Status Code: 400

InvalidStructureException

The specified structure was specified in an invalid format.

HTTP Status Code: 400

LimitExceededException

The number of pipelines associated with the AWS account has exceeded the limit allowed for the account.

HTTP Status Code: 400

PipelineNameInUseException

The specified pipeline name is already in use.

HTTP Status Code: 400

ValidationException

The validation was specified in an invalid format.

HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1
Host: codepipeline.us-east-1.amazonaws.com
Accept-Encoding: identity
Content-Length: 923
X-Amz-Target: CodePipeline_20150709.CreatePipeline
X-Amz-Date: 20160707T175936Z
User-Agent: aws-cli/1.7.38 Python/2.7.9 Windows/7
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAI44QH8DHBEXAMPLE/20160707/
us-east-1/codepipeline/aws4_request, SignedHeaders=content-type;host;user-
agent;x-amz-date;x-amz-target, Signature=8d9b5998EXAMPLE

{
  "pipeline": {
    "roleArn": "arn:aws:iam::111111111111:role/AWS-CodePipeline-Service",
    "stages": [
      {
        "name": "Source",
        "actions": [
          {
            "inputArtifacts": [],
            "name": "Source",
            "actionTypeId": {
              "category": "Source",
              "owner": "AWS",
              "version": "1",
              "provider": "S3"
            },
            "outputArtifacts": [
              {
                "name": "MyApp"
              }
            ],
            "configuration": {
              "S3Bucket": "awscodepipeline-demo-bucket",
              "S3ObjectKey": "aws-codepipeline-s3-aws-codedeploy_linux.zip"
            },
            "runOrder": 1
          }
        ]
      },
      {
        "name": "Beta",
        "actions": [
          {
            "inputArtifacts": [
              {
                "name": "MyApp"
              }
            ],
            "name": "CodePipelineDemoFleet",
            "actionTypeId": {
              "category": "Deploy",

```

```
        "owner": "AWS",
        "version": "1",
        "provider": "CodeDeploy"
    },
    "outputArtifacts": [],
    "configuration": {
        "ApplicationName": "CodePipelineDemoApplication",
        "DeploymentGroupName": "CodePipelineDemoFleet"
    },
    "runOrder": 1
}
]
}
],
"artifactStore": {
    "type": "S3",
    "location": "codepipeline-us-east-1-11EXAMPLE11"
},
"name": "MySecondPipeline",
"version": 1
}
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 620484b7-88cb-11e5-b497-75c49EXAMPLE
Content-Type: application/x-amz-json-1.1
Content-Length: 907

{
  "pipeline": {
    "artifactStore": {
      "location": "codepipeline-us-east-1-11EXAMPLE11",
      "type": "S3"
    },
    "name": "MySecondPipeline",
    "roleArn": "arn:aws:iam::111111111111:role/AWS-CodePipeline-Service",
    "stages": [
      {
        "actions": [
          {
            "actionTypeId": {
              "__type": "ActionTypeId",
              "category": "Source",
              "owner": "AWS",
              "provider": "S3",
              "version": "1"
            },
            "configuration": {
              "S3Bucket": "awscodepipeline-demo-bucket",
              "S3ObjectKey": "aws-codepipeline-s3-aws-codedeploy_linux.zip"
            },
            "inputArtifacts": [],
            "name": "Source",
            "outputArtifacts": [
              {
                "name": "MyApp"
              }
            ]
          }
        ]
      }
    ]
  }
}
```



```
    }
  ],
  "runOrder": 1
}
],
"name": "Source"
},
{
  "actions": [
    {
      "actionTypeId": {
        "__type": "ActionTypeId",
        "category": "Deploy",
        "owner": "AWS",
        "provider": "CodeDeploy",
        "version": "1"
      },
      "configuration": {
        "ApplicationName": "CodePipelineDemoApplication",
        "DeploymentGroupName": "CodePipelineDemoFleet"
      },
      "inputArtifacts": [
        {
          "name": "MyApp"
        }
      ],
      "name": "CodePipelineDemoFleet",
      "outputArtifacts": [],
      "runOrder": 1
    }
  ],
  "name": "Beta"
}
],
"version": 1
}
```

DeleteCustomActionType

Marks a custom action as deleted. PollForJobs for the custom action will fail after the action is marked for deletion. Only used for custom actions.

Important

You cannot recreate a custom action after it has been deleted unless you increase the version number of the action.

Request Syntax

```
{  
  "category": "string",  
  "provider": "string",  
  "version": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 129\)](#).

The request accepts the following data in JSON format.

category (p. 19)

The category of the custom action that you want to delete, such as source or deploy.

Type: String

Valid Values: Source | Build | Deploy | Test | Invoke | Approval

Required: Yes

provider (p. 19)

The provider of the service used in the custom action, such as AWS CodeDeploy.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 25.

Pattern: [0-9A-Za-z_-]+

Required: Yes

version (p. 19)

The version of the custom action to delete.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 9.

Pattern: [0-9A-Za-z_-]+

Required: Yes

Response Elements

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

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 131\)](#).

ValidationException

The validation was specified in an invalid format.

HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1
Host: codepipeline.us-east-1.amazonaws.com
Accept-Encoding: identity
Content-Length: 68
X-Amz-Target: CodePipeline_20150709.DeleteCustomActionType
X-Amz-Date: 20151030T233944Z
User-Agent: aws-cli/1.7.38 Python/2.7.9 Windows/7
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAI44QH8DHBEXAMPLE/20151030/
us-east-1/codepipeline/aws4_request, SignedHeaders=content-type;host;user-
agent;x-amz-date;x-amz-target, Signature=8d9b5998EXAMPLE

{
  "category": "Build",
  "version": "1",
  "provider": "JenkinsProviderName"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 620484b7-88cb-11e5-b497-75c49EXAMPLE
Content-Type: application/x-amz-json-1.1
Content-Length: 0
```

DeletePipeline

Deletes the specified pipeline.

Request Syntax

```
{  
  "name": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 129).

The request accepts the following data in JSON format.

name (p. 21)

The name of the pipeline to be deleted.

Type: String

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

Pattern: [A-Za-z0-9.\@_]+

Required: Yes

Response Elements

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

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 131).

ValidationException

The validation was specified in an invalid format.

HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1  
Host: codepipeline.us-east-1.amazonaws.com  
Accept-Encoding: identity  
Content-Length: 25  
X-Amz-Target: CodePipeline_20150709.DeletePipeline  
X-Amz-Date: 20160707T202402Z  
User-Agent: aws-cli/1.7.38 Python/2.7.9 Windows/7  
Content-Type: application/x-amz-json-1.1  
Authorization: AWS4-HMAC-SHA256 Credential=AKIAI44QH8DHBEXAMPLE/20160707/  
us-east-1/codepipeline/aws4_request, SignedHeaders=content-type;host;user-  
agent;x-amz-date;x-amz-target, Signature=8d9b5998EXAMPLE
```

```
{  
  "name": "MySecondPipeline"  
}
```

Sample Response

```
HTTP/1.1 200 OK  
x-amzn-RequestId: 620484b7-88cb-11e5-b497-75c49EXAMPLE  
Content-Type: application/x-amz-json-1.1  
Content-Length: 0
```

DisableStageTransition

Prevents artifacts in a pipeline from transitioning to the next stage in the pipeline.

Request Syntax

```
{  
  "pipelineName": "string",  
  "reason": "string",  
  "stageName": "string",  
  "transitionType": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 129).

The request accepts the following data in JSON format.

pipelineName (p. 23)

The name of the pipeline in which you want to disable the flow of artifacts from one stage to another.

Type: String

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

Pattern: [A-Za-z0-9.@_-]+

Required: Yes

reason (p. 23)

The reason given to the user why a stage is disabled, such as waiting for manual approval or manual tests. This message is displayed in the pipeline console UI.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 300.

Pattern: [a-zA-Z0-9!@ \(\)\.*\?\-]+

Required: Yes

stageName (p. 23)

The name of the stage where you want to disable the inbound or outbound transition of artifacts.

Type: String

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

Pattern: [A-Za-z0-9.@_-]+

Required: Yes

transitionType (p. 23)

Specifies whether artifacts will be prevented from transitioning into the stage and being processed by the actions in that stage (inbound), or prevented from transitioning from the stage after they have been processed by the actions in that stage (outbound).

Type: String

Valid Values: Inbound | Outbound

Required: Yes

Response Elements

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

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 131\)](#).

PipelineNotFoundException

The specified pipeline was specified in an invalid format or cannot be found.

HTTP Status Code: 400

StageNotFoundException

The specified stage was specified in an invalid format or cannot be found.

HTTP Status Code: 400

ValidationException

The validation was specified in an invalid format.

HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1
Host: codepipeline.us-east-1.amazonaws.com
Accept-Encoding: identity
Content-Length: 108
X-Amz-Target: CodePipeline_20150709.DisableStageTransition
X-Amz-Date: 20160707T182043Z
User-Agent: aws-cli/1.7.38 Python/2.7.9 Windows/7
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAI44QH8DHBEXAMPLE/20160707/
us-east-1/codepipeline/aws4_request, SignedHeaders=content-type;host;user-
agent;x-amz-date;x-amz-target, Signature=8d9b5998EXAMPLE

{
  "reason": "An example reason",
  "pipelineName": "MyFirstPipeline",
  "stageName": "Beta",
  "transitionType": "Inbound"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 620484b7-88cb-11e5-b497-75c49EXAMPLE
Content-Type: application/x-amz-json-1.1
Content-Length: 0
```

EnableStageTransition

Enables artifacts in a pipeline to transition to a stage in a pipeline.

Request Syntax

```
{  
  "pipelineName": "string",  
  "stageName": "string",  
  "transitionType": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 129\)](#).

The request accepts the following data in JSON format.

pipelineName (p. 25)

The name of the pipeline in which you want to enable the flow of artifacts from one stage to another.

Type: String

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

Pattern: [A-Za-z0-9.\@-_]+

Required: Yes

stageName (p. 25)

The name of the stage where you want to enable the transition of artifacts, either into the stage (inbound) or from that stage to the next stage (outbound).

Type: String

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

Pattern: [A-Za-z0-9.\@-_]+

Required: Yes

transitionType (p. 25)

Specifies whether artifacts will be allowed to enter the stage and be processed by the actions in that stage (inbound) or whether already-processed artifacts will be allowed to transition to the next stage (outbound).

Type: String

Valid Values: Inbound | Outbound

Required: Yes

Response Elements

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

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 131\)](#).

PipelineNotFoundException

The specified pipeline was specified in an invalid format or cannot be found.

HTTP Status Code: 400

StageNotFoundException

The specified stage was specified in an invalid format or cannot be found.

HTTP Status Code: 400

ValidationException

The validation was specified in an invalid format.

HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1
Host: codepipeline.us-east-1.amazonaws.com
Accept-Encoding: identity
Content-Length: 85
X-Amz-Target: CodePipeline_20150709.EnableStageTransition
X-Amz-Date: 20160707T182342Z
User-Agent: aws-cli/1.7.38 Python/2.7.9 Windows/7
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAI44QH8DHBEXAMPLE/20160707/
us-east-1/codepipeline/aws4_request, SignedHeaders=content-type;host;user-
agent;x-amz-date;x-amz-target, Signature=8d9b5998EXAMPLE

{
  "pipelineName": "MyFirstPipeline",
  "stageName": "Beta",
  "transitionType": "Inbound"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 620484b7-88cb-11e5-b497-75c49EXAMPLE
Content-Type: application/x-amz-json-1.1
Content-Length: 0
```

GetJobDetails

Returns information about a job. Only used for custom actions.

Important

When this API is called, AWS CodePipeline returns temporary credentials for the Amazon S3 bucket used to store artifacts for the pipeline, if the action requires access to that Amazon S3 bucket for input or output artifacts. Additionally, this API returns any secret values defined for the action.

Request Syntax

```
{
  "jobId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 129).

The request accepts the following data in JSON format.

jobId (p. 27)

The unique system-generated ID for the job.

Type: String

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

Response Syntax

```
{
  "jobDetails": {
    "accountId": "string",
    "data": {
      "actionConfiguration": {
        "configuration": {
          "string": "string"
        }
      },
      "actionTypeId": {
        "category": "string",
        "owner": "string",
        "provider": "string",
        "version": "string"
      },
      "artifactCredentials": {
        "accessKeyId": "string",
        "secretAccessKey": "string",
        "sessionToken": "string"
      },
      "continuationToken": "string",
      "encryptionKey": {
        "id": "string",

```

```

        "type": "string"
    },
    "inputArtifacts": [
        {
            "location": {
                "s3Location": {
                    "bucketName": "string",
                    "objectKey": "string"
                },
                "type": "string"
            },
            "name": "string",
            "revision": "string"
        }
    ],
    "outputArtifacts": [
        {
            "location": {
                "s3Location": {
                    "bucketName": "string",
                    "objectKey": "string"
                },
                "type": "string"
            },
            "name": "string",
            "revision": "string"
        }
    ],
    "pipelineContext": {
        "action": {
            "name": "string"
        },
        "pipelineName": "string",
        "stage": {
            "name": "string"
        }
    },
    "id": "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.

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

The details of the job.

Note

If `AWSSessionCredentials` is used, a long-running job can call `GetJobDetails` again to obtain new credentials.

Type: [JobDetails \(p. 114\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 131\)](#).

JobNotFoundException

The specified job was specified in an invalid format or cannot be found.

HTTP Status Code: 400

ValidationException

The validation was specified in an invalid format.

HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1
Host: codepipeline.us-east-1.amazonaws.com
Accept-Encoding: identity
Content-Length: 49
X-Amz-Target: CodePipeline_20150709.GetJobDetails
X-Amz-Date: 20151030T230237Z
User-Agent: aws-cli/1.7.38 Python/2.7.9 Windows/7
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAI44QH8DHBEXAMPLE/20151030/us-east-1/codepipeline/aws4_request, SignedHeaders=content-type;host;user-agent;x-amz-date;x-amz-target, Signature=8d9b5998EXAMPLE

{
  "jobId": "ef66c259-EXAMPLE"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 620484b7-88cb-11e5-b497-75c49EXAMPLE
Content-Type: application/x-amz-json-1.1
Content-Length: 1822

{
  "jobDetails": {
    "accountId": "111111111111",
    "data": {
      "actionConfiguration": {
        "__type": "ActionConfiguration",
        "configuration": {
          "ProjectName": "JenkinsTestProject"
        }
      },
      "actionTypeId": {
        "__type": "ActionTypeId",
        "category": "Test",
        "owner": "Custom",
        "provider": "JenkinsProviderName",
        "version": "1"
      },
      "artifactCredentials": {
        "__type": "AWSSessionCredentials",
```

AWS CodePipeline API Reference
Example

```
    "accessKeyId": "AKIAIOSFODNN7EXAMPLE",
    "secretAccessKey": "wJalrXUtnFEMI/K7MDENG/bPxrFiCYEXAMPLEKEY",
    "sessionToken":
      "fICCD6m7oRw0uXOjANBgkqhkiG9w0BAQUFADCBiDELMAkGA1UEBhMCVVMxCzAJBgNVBAGTAldBMRAdG9YDVQQHEW
      +a4GmWIWJ21uUSfwfEvysWtC2XADZ4nB+BLYgVik60CpiwsZ3G93vUEIO3IyNoH/
      f0wYK8m9TrDHudUZg3qX4waLG5M43q7Wgc/
      MbQITxOUSQv7c7ugFFDzQGBzZswY6786m86gpEibb3OhjZnzcvcQAaRHhdlQWIMm2nrAgMBAAEwDQYJKoZIhvcNAQEFB
      +auNKyExzyLwaxlAoo7TJHidbtS4J5iNmZgXL0FkbFFBjvSfpJIILJ00zbhNYS5f6GuoEDmFJl0ZxBHjJnyp378OD8uT
    },
    "inputArtifacts": [
      {
        "__type": "Artifact",
        "location": {
          "s3Location": {
            "bucketName": "codepipeline-us-east-1-11EXAMPLE11",
            "objectKey": "MySecondPipeline/MyAppBuild/EXAMPLE"
          },
          "type": "S3"
        },
        "name": "MyAppBuild"
      }
    ],
    "outputArtifacts": [],
    "pipelineContext": {
      "__type": "PipelineContext",
      "action": {
        "name": "JenkinsTestAction"
      },
      "pipelineName": "MySecondPipeline",
      "stage": {
        "name": "Testing"
      }
    }
  },
  "id": "ef66c259-EXAMPLE"
}
```

GetPipeline

Returns the metadata, structure, stages, and actions of a pipeline. Can be used to return the entire structure of a pipeline in JSON format, which can then be modified and used to update the pipeline structure with [UpdatePipeline](#) (p. 79).

Request Syntax

```
{
  "name": "string",
  "version": number
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 129).

The request accepts the following data in JSON format.

name (p. 31)

The name of the pipeline for which you want to get information. Pipeline names must be unique under an Amazon Web Services (AWS) user account.

Type: String

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

Pattern: [A-Za-z0-9.\@\-_]+

Required: Yes

version (p. 31)

The version number of the pipeline. If you do not specify a version, defaults to the most current version.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

Response Syntax

```
{
  "pipeline": {
    "artifactStore": {
      "encryptionKey": {
        "id": "string",
        "type": "string"
      },
      "location": "string",
      "type": "string"
    },
    "name": "string",
    "roleArn": "string",
    "stages": [
      {
        "actions": [
          {

```

```

        "actionTypeId": {
            "category": "string",
            "owner": "string",
            "provider": "string",
            "version": "string"
        },
        "configuration": {
            "string": "string"
        },
        "inputArtifacts": [
            {
                "name": "string"
            }
        ],
        "name": "string",
        "outputArtifacts": [
            {
                "name": "string"
            }
        ],
        "roleArn": "string",
        "runOrder": number
    }
],
"blockers": [
    {
        "name": "string",
        "type": "string"
    }
],
"name": "string"
}
],
"version": 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.

pipeline (p. 31)

Represents the structure of actions and stages to be performed in the pipeline.

Type: [PipelineDeclaration \(p. 117\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 131\)](#).

PipelineNotFoundException

The specified pipeline was specified in an invalid format or cannot be found.

HTTP Status Code: 400

PipelineVersionNotFoundException

The specified pipeline version was specified in an invalid format or cannot be found.

HTTP Status Code: 400

ValidationException

The validation was specified in an invalid format.
HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1
Host: codepipeline.us-east-1.amazonaws.com
Accept-Encoding: identity
Content-Length: 27
X-Amz-Target: CodePipeline_20150709.GetPipeline
X-Amz-Date: 20160707T171559Z
User-Agent: aws-cli/1.7.38 Python/2.7.9 Windows/7
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAI44QH8DHBEXAMPLE/20160707/
us-east-1/codepipeline/aws4_request, SignedHeaders=content-type;host;user-
agent;x-amz-date;x-amz-target, Signature=8d9b5998EXAMPLE

{
  "name": "MyFirstPipeline"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 620484b7-88cb-11e5-b497-75c49EXAMPLE
Content-Type: application/x-amz-json-1.1
Content-Length: 898

{
  "pipeline": {
    "roleArn": "arn:aws:iam::111111111111:role/AWS-CodePipeline-Service",
    "stages": [
      {
        "name": "Source",
        "actions": [
          {
            "inputArtifacts": [],
            "name": "Source",
            "actionTypeId": {
              "category": "Source",
              "owner": "AWS",
              "version": "1",
              "provider": "S3"
            },
            "outputArtifacts": [
              {
                "name": "MyApp"
              }
            ],
            "configuration": {
              "S3Bucket": "awscodepipeline-demo-bucket",

```



```
        "S3ObjectKey": "aws-codepipeline-s3-aws-
codedeploy_linux.zip"
      },
      "runOrder": 1
    }
  ]
},
{
  "name": "Beta",
  "actions": [
    {
      "inputArtifacts": [
        {
          "name": "MyApp"
        }
      ],
      "name": "CodePipelineDemoFleet",
      "actionTypeId": {
        "category": "Deploy",
        "owner": "AWS",
        "version": "1",
        "provider": "CodeDeploy"
      },
      "outputArtifacts": [],
      "configuration": {
        "ApplicationName": "CodePipelineDemoApplication",
        "DeploymentGroupName": "CodePipelineDemoFleet"
      },
      "runOrder": 1
    }
  ]
}
],
"artifactStore": {
  "type": "S3",
  "location": "codepipeline-us-east-1-11EXAMPLE11"
},
"name": "MyFirstPipeline",
"version": 1
}
}
```

GetPipelineExecution

Returns information about an execution of a pipeline, including details about artifacts, the pipeline execution ID, and the name, version, and status of the pipeline.

Request Syntax

```
{
  "pipelineExecutionId": "string",
  "pipelineName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 129).

The request accepts the following data in JSON format.

pipelineExecutionId (p. 35)

The ID of the pipeline execution about which you want to get execution details.

Type: String

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

pipelineName (p. 35)

The name of the pipeline about which you want to get execution details.

Type: String

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

Pattern: [A-Za-z0-9.\@\-_]+

Required: Yes

Response Syntax

```
{
  "pipelineExecution": {
    "artifactRevisions": [
      {
        "created": number,
        "name": "string",
        "revisionChangeIdentifier": "string",
        "revisionId": "string",
        "revisionSummary": "string",
        "revisionUrl": "string"
      }
    ],
    "pipelineExecutionId": "string",
    "pipelineName": "string",
    "pipelineVersion": number,
    "status": "string"
  }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response. The following data is returned in JSON format by the service.

pipelineExecution (p. 35)

Represents information about the execution of a pipeline.

Type: [PipelineExecution](#) (p. 118) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 131).

PipelineExecutionNotFoundException

The pipeline execution was specified in an invalid format or cannot be found, or an execution ID does not belong to the specified pipeline.

HTTP Status Code: 400

PipelineNotFoundException

The specified pipeline was specified in an invalid format or cannot be found.

HTTP Status Code: 400

ValidationException

The validation was specified in an invalid format.

HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1
Host: codepipeline.us-east-1.amazonaws.com
Accept-Encoding: identity
Content-Length: 27
X-Amz-Target: CodePipeline_20150709.GetPipelineExecution
X-Amz-Date: 20160707T171559Z
User-Agent: aws-cli/1.7.38 Python/2.7.9 Windows/7
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAI44QH8DHBEXAMPLE/20160707/
us-east-1/codepipeline/aws4_request, SignedHeaders=content-type;host;user-
agent;x-amz-date;x-amz-target, Signature=8d9b5998EXAMPLE

{
  "pipelineExecutionId": "42ee4d10-e4de-a37c-82b7-36c11EXAMPLE",
  "pipelineName": "MyFirstPipeline"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 620484b7-88cb-11e5-b497-75c49EXAMPLE
Content-Type: application/x-amz-json-1.1
Content-Length: 318
```

```
{
  "pipelineExecution": {
    "artifactRevisions": [
      {
        "created": 1427298837.7689769,
        "name": "MyApp",
        "revisionChangeIdentifier": "1427298921.3976923",
        "revisionId": "7636d59f3c461cEXAMPLE8417dbc6371",
        "revisionSummary": "Updating the application for feature
12-4820",
        "revisionUrl": "https://api.github.com/repos/anycompany/
MyApp/git/commits/7636d59f3c461cEXAMPLE8417dbc6371"
      }
    ],
    "pipelineExecutionId": "3137f7cb-7cf7-039j-s83l-d7eu3EXAMPLE",
    "pipelineName": "MyFirstPipeline",
    "pipelineVersion": 2,
    "status": "Succeeded"
  }
}
```

GetPipelineState

Returns information about the state of a pipeline, including the stages and actions.

Request Syntax

```
{  
  "name": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 129\)](#).

The request accepts the following data in JSON format.

name (p. 38)

The name of the pipeline about which you want to get information.

Type: String

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

Pattern: [A-Za-z0-9.\@_]+

Required: Yes

Response Syntax

```
{  
  "created": number,  
  "pipelineName": "string",  
  "pipelineVersion": number,  
  "stageStates": [  
    {  
      "actionStates": [  
        {  
          "actionName": "string",  
          "currentRevision": {  
            "created": number,  
            "revisionChangeId": "string",  
            "revisionId": "string"  
          },  
          "entityUrl": "string",  
          "latestExecution": {  
            "errorDetails": {  
              "code": "string",  
              "message": "string"  
            },  
            "externalExecutionId": "string",  
            "externalExecutionUrl": "string",  
            "lastStatusChange": number,  
            "lastUpdatedBy": "string",  
            "percentComplete": number,  
            "status": "string",  
            "summary": "string",  
            "token": "string"  
          }  
        }  
      ]  
    }  
  ]  
}
```

```

        },
        "revisionUrl": "string"
    },
    ],
    "inboundTransitionState": {
        "disabledReason": "string",
        "enabled": boolean,
        "lastChangedAt": number,
        "lastChangedBy": "string"
    },
    "latestExecution": {
        "pipelineExecutionId": "string",
        "status": "string"
    },
    "stageName": "string"
},
"updated": 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.

created (p. 38)

The date and time the pipeline was created, in timestamp format.
Type: Timestamp

pipelineName (p. 38)

The name of the pipeline for which you want to get the state.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 100.
Pattern: [A-Za-z0-9.\@\-_]+

pipelineVersion (p. 38)

The version number of the pipeline.

Note

A newly-created pipeline is always assigned a version number of 1.

Type: Integer
Valid Range: Minimum value of 1.

stageStates (p. 38)

A list of the pipeline stage output information, including stage name, state, most recent run details, whether the stage is disabled, and other data.
Type: array of [StageState \(p. 124\)](#) objects

updated (p. 38)

The date and time the pipeline was last updated, in timestamp format.
Type: Timestamp

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 131\)](#).

PipelineNotFoundException

The specified pipeline was specified in an invalid format or cannot be found.

HTTP Status Code: 400

ValidationException

The validation was specified in an invalid format.

HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1
Host: codepipeline.us-east-1.amazonaws.com
Accept-Encoding: identity
Content-Length: 27
X-Amz-Target: CodePipeline_20150709.GetPipelineState
X-Amz-Date: 20160707T172005Z
User-Agent: aws-cli/1.7.38 Python/2.7.9 Windows/7
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAI44QH8DHBEXAMPLE/20160707/
us-east-1/codepipeline/aws4_request, SignedHeaders=content-type;host;user-
agent;x-amz-date;x-amz-target, Signature=8d9b5998EXAMPLE

{
  "name": "MyFirstPipeline"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 620484b7-88cb-11e5-b497-75c49EXAMPLE
Content-Type: application/x-amz-json-1.1
Content-Length: 827

{
  "created": 1446137312.204,
  "pipelineName": "MyFirstPipeline",
  "pipelineVersion": 1,
  "stageStates": [
    {
      "actionStates": [
        {
          "actionName": "Source",
          "currentRevision": {
            "created": 1446726163.571,
            "revisionId": "HYGp7zmwbCPPwo234xsCEM7d6ToeAqI1"
          },
          "entityUrl": "https://console.aws.amazon.com/s3/home?#",
          "latestExecution": {
            "lastStatusChange": 1446137358.328,
            "status": "Succeeded"
          }
        }
      ],
      "stageName": "Source"
    }
  ],
}
```

AWS CodePipeline API Reference
Example

```
{
  "actionStates": [
    {
      "actionName": "CodePipelineDemoFleet",
      "currentRevision": {
        "created": 1466726263.189,
        "revisionId": "{\"bucket\":\"codepipeline-
us-east-1-2770EXAMPLE\", \"key\":\"MyFirstPipeline/MyApp/
QI8RTZY.zip\", \"bundleType\":\"zip\", \"version\":null, \"etag\":
\"f51889bff5402b0249676e48cEXAMPLE\"}"
      },
      "entityUrl": "https://console.aws.amazon.com/codedeploy/
home?#/applications/CodePipelineDemoApplication/deployment-groups/
CodePipelineDemoFleet",
      "latestExecution": {
        "externalExecutionId": "d-EXAMPLE",
        "externalExecutionUrl": "https://
console.aws.amazon.com/codedeploy/home?#/deployments/d-EXAMPLE",
        "lastStatusChange": 1446137493.131,
        "status": "Succeeded",
        "summary": "Deployment Succeeded"
      }
    }
  ],
  "inboundTransitionState": {
    "enabled": true,
    "lastChangedAt": 1470779534.135,
    "lastChangedBy": "arn:aws:iam::111111111111:user/johndoe"
  },
  "stageName": "Beta"
},
"updated": 1446137312.204
}
```


GetThirdPartyJobDetails

Requests the details of a job for a third party action. Only used for partner actions.

Important

When this API is called, AWS CodePipeline returns temporary credentials for the Amazon S3 bucket used to store artifacts for the pipeline, if the action requires access to that Amazon S3 bucket for input or output artifacts. Additionally, this API returns any secret values defined for the action.

Request Syntax

```
{
  "clientToken": "string",
  "jobId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 129).

The request accepts the following data in JSON format.

clientToken (p. 42)

The clientToken portion of the clientId and clientToken pair used to verify that the calling entity is allowed access to the job and its details.

Type: String

Required: Yes

jobId (p. 42)

The unique system-generated ID used for identifying the job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: Yes

Response Syntax

```
{
  "jobDetails": {
    "data": {
      "actionConfiguration": {
        "configuration": {
          "string": "string"
        }
      },
      "actionTypeId": {
        "category": "string",
        "owner": "string",
        "provider": "string",
        "version": "string"
      },
      "artifactCredentials": {
        "accessKeyId": "string",

```

```

        "secretAccessKey": "string",
        "sessionToken": "string"
    },
    "continuationToken": "string",
    "encryptionKey": {
        "id": "string",
        "type": "string"
    },
    "inputArtifacts": [
        {
            "location": {
                "s3Location": {
                    "bucketName": "string",
                    "objectKey": "string"
                },
                "type": "string"
            },
            "name": "string",
            "revision": "string"
        }
    ],
    "outputArtifacts": [
        {
            "location": {
                "s3Location": {
                    "bucketName": "string",
                    "objectKey": "string"
                },
                "type": "string"
            },
            "name": "string",
            "revision": "string"
        }
    ],
    "pipelineContext": {
        "action": {
            "name": "string"
        },
        "pipelineName": "string",
        "stage": {
            "name": "string"
        }
    }
},
"id": "string",
"nonce": "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.

[jobDetails \(p. 42\)](#)

The details of the job, including any protected values defined for the job. Type: [ThirdPartyJobDetails \(p. 127\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 131\)](#).

InvalidClientTokenException

The client token was specified in an invalid format

HTTP Status Code: 400

InvalidJobException

The specified job was specified in an invalid format or cannot be found.

HTTP Status Code: 400

JobNotFoundException

The specified job was specified in an invalid format or cannot be found.

HTTP Status Code: 400

ValidationException

The validation was specified in an invalid format.

HTTP Status Code: 400

ListActionTypes

Gets a summary of all AWS CodePipeline action types associated with your account.

Request Syntax

```
{  
  "actionOwnerFilter": "string",  
  "nextToken": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 129\)](#).

The request accepts the following data in JSON format.

actionOwnerFilter (p. 45)

Filters the list of action types to those created by a specified entity.

Type: String

Valid Values: AWS | ThirdParty | Custom

Required: No

nextToken (p. 45)

An identifier that was returned from the previous list action types call, which can be used to return the next set of action types in the list.

Type: String

Required: No

Response Syntax

```
{  
  "actionTypes": [  
    {  
      "actionConfigurationProperties": [  
        {  
          "description": "string",  
          "key": boolean,  
          "name": "string",  
          "queryable": boolean,  
          "required": boolean,  
          "secret": boolean,  
          "type": "string"  
        }  
      ],  
      "id": {  
        "category": "string",  
        "owner": "string",  
        "provider": "string",  
        "version": "string"  
      },  
      "inputArtifactDetails": {  
        "maximumCount": number,  
        "minimumCount": number  
      }  
    }  
  ]  
}
```

```

    },
    "outputArtifactDetails": {
      "maximumCount": number,
      "minimumCount": number
    },
    "settings": {
      "entityUrlTemplate": "string",
      "executionUrlTemplate": "string",
      "revisionUrlTemplate": "string",
      "thirdPartyConfigurationUrl": "string"
    }
  },
  "nextToken": "string"
}

```

Response Elements

If the action is successful, the service sends back an HTTP 200 response. The following data is returned in JSON format by the service.

actionTypes (p. 45)

Provides details of the action types.

Type: array of [ActionType](#) (p. 95) objects

nextToken (p. 45)

If the amount of returned information is significantly large, an identifier is also returned which can be used in a subsequent list action types call to return the next set of action types in the list.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 131).

InvalidNextTokenException

The next token was specified in an invalid format. Make sure that the next token you provided is the token returned by a previous call.

HTTP Status Code: 400

ValidationException

The validation was specified in an invalid format.

HTTP Status Code: 400

Example

Sample Request

```

POST / HTTP/1.1
Host: codepipeline.us-east-1.amazonaws.com
Accept-Encoding: identity
Content-Length: 2
X-Amz-Target: CodePipeline_20150709.ListActionTypes
X-Amz-Date: 20160707T160551Z
User-Agent: aws-cli/1.7.38 Python/2.7.9 Windows/7
Content-Type: application/x-amz-json-1.1

```

```
Authorization: AWS4-HMAC-SHA256 Credential=AKIAI44QH8DHBEXAMPLE/20160707/
us-east-1/codepipeline/aws4_request, SignedHeaders=content-type;host;user-
agent;x-amz-date;x-amz-target, Signature=8d9b5998EXAMPLE

{}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 620484b7-88cb-11e5-b497-75c49EXAMPLE
Content-Type: application/x-amz-json-1.1
Content-Length: 8363

{
  "actionTypes": [
    {
      "inputArtifactDetails": {
        "maximumCount": 0,
        "minimumCount": 0
      },
      "actionConfigurationProperties": [
        {
          "description": "The Amazon S3 Bucket",
          "required": true,
          "secret": false,
          "key": true,
          "queryable": false,
          "name": "S3Bucket"
        },
        {
          "description": "The Amazon S3 object key",
          "required": true,
          "secret": false,
          "key": true,
          "queryable": false,
          "name": "S3ObjectKey"
        }
      ],
      "outputArtifactDetails": {
        "maximumCount": 1,
        "minimumCount": 1
      },
      "id": {
        "category": "Source",
        "owner": "AWS",
        "version": "1",
        "provider": "S3"
      },
      "settings": {
        "entityUrlTemplate": "https://console.aws.amazon.com/s3/home?#"
      }
    },
    {
      "inputArtifactDetails": {
        "maximumCount": 1,
        "minimumCount": 1
      }
    }
  ]
}
```

```

        "actionConfigurationProperties": [
            {
                "description": "The AWS Elastic Beanstalk Application
name",
                "required": true,
                "secret": false,
                "key": true,
                "queryable": false,
                "name": "ApplicationName"
            },
            {
                "description": "The AWS Elastic Beanstalk Environment
name",
                "required": true,
                "secret": false,
                "key": true,
                "queryable": false,
                "name": "EnvironmentName"
            }
        ],
        "outputArtifactDetails": {
            "maximumCount": 0,
            "minimumCount": 0
        },
        "id": {
            "category": "Deploy",
            "owner": "AWS",
            "version": "1",
            "provider": "ElasticBeanstalk"
        },
        "settings": {
            "entityUrlTemplate": "https://console.aws.amazon.com/
elasticbeanstalk/r/application/{Config:ApplicationName}",
            "executionUrlTemplate": "https://console.aws.amazon.com/
elasticbeanstalk/r/application/{Config:ApplicationName}"
        }
    },
    {
        "inputArtifactDetails": {
            "maximumCount": 1,
            "minimumCount": 1
        },
        "actionConfigurationProperties": [
            {
                "description": "The AWS CodeDeploy Application name",
                "required": true,
                "secret": false,
                "key": true,
                "queryable": false,
                "name": "ApplicationName"
            },
            {
                "description": "The AWS CodeDeploy Deployment Group
name",
                "required": true,
                "secret": false,
                "key": true,
                "queryable": false,
                "name": "DeploymentGroupName"
            }
        ]
    }
]

```

```
    }
  ],
  "outputArtifactDetails": {
    "maximumCount": 0,
    "minimumCount": 0
  },
  "id": {
    "category": "Deploy",
    "owner": "AWS",
    "version": "1",
    "provider": "CodeDeploy"
  },
  "settings": {
    "entityUrlTemplate": "https://console.aws.amazon.com/codedeploy/home?#/applications/{Config:ApplicationName}/deployment-groups/{Config:DeploymentGroupName}",
    "executionUrlTemplate": "https://console.aws.amazon.com/codedeploy/home?#/deployments/{ExternalExecutionId}"
  }
},
{
  "inputArtifactDetails": {
    "maximumCount": 0,
    "minimumCount": 0
  },
  "actionConfigurationProperties": [
    {
      "description": "The repository owner (username or organization)",
      "required": true,
      "secret": false,
      "key": true,
      "queryable": false,
      "name": "Owner"
    },
    {
      "description": "The name of the repository",
      "required": true,
      "secret": false,
      "key": true,
      "queryable": false,
      "name": "Repo"
    },
    {
      "description": "The tracked branch",
      "required": true,
      "secret": false,
      "key": true,
      "queryable": false,
      "name": "Branch"
    },
    {
      "description": "The OAuth2 token",
      "required": true,
      "secret": true,
      "key": false,
      "queryable": false,
      "name": "OAuthToken"
    }
  ]
}
```



```
    ],
    "outputArtifactDetails": {
      "maximumCount": 1,
      "minimumCount": 1
    },
    "id": {
      "category": "Source",
      "owner": "ThirdParty",
      "version": "1",
      "provider": "GitHub"
    },
    "settings": {
      "entityUrlTemplate": "https://github.com/{Config:Owner}/
{Config:Repo}/tree/{Config:Branch}",
      "revisionUrlTemplate": "https://github.com/{Config:Owner}/
{Config:Repo}/commit/{RevisionId}"
    }
  },
  {
    "inputArtifactDetails": {
      "maximumCount": 5,
      "minimumCount": 0
    },
    "actionConfigurationProperties": [
      {
        "secret": false,
        "required": true,
        "name": "JenkinsBuildProject",
        "key": true,
        "queryable": true
      }
    ],
    "outputArtifactDetails": {
      "maximumCount": 5,
      "minimumCount": 0
    },
    "id": {
      "category": "Build",
      "owner": "Custom",
      "version": "1",
      "provider": "JenkinsProviderName"
    },
    "settings": {
      "entityUrlTemplate": "http://192.0.2.4/job/
{Config:ProjectName}",
      "executionUrlTemplate": "http://192.0.2.4/job/
{Config:ProjectName}/{ExternalExecutionId}"
    }
  },
  {
    "inputArtifactDetails": {
      "maximumCount": 5,
      "minimumCount": 0
    },
    "actionConfigurationProperties": [
      {
        "secret": false,
        "required": true,
        "name": "JenkinsTestProject",
```

```
        "key": true,
        "queryable": true
    }
],
"outputArtifactDetails": {
    "maximumCount": 5,
    "minimumCount": 0
},
"id": {
    "category": "Test",
    "owner": "Custom",
    "version": "1",
    "provider": "JenkinsProviderName"
},
"settings": {
    "entityUrlTemplate": "http://192.0.2.4/job/
{Config:ProjectName}",
    "executionUrlTemplate": "http://192.0.2.4/job/
{Config:ProjectName}/{ExternalExecutionId}"
}
}
]
```

ListPipelines

Gets a summary of all of the pipelines associated with your account.

Request Syntax

```
{  
  "nextToken": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 129).

The request accepts the following data in JSON format.

nextToken (p. 52)

An identifier that was returned from the previous list pipelines call, which can be used to return the next set of pipelines in the list.

Type: String

Required: No

Response Syntax

```
{  
  "nextToken": "string",  
  "pipelines": [  
    {  
      "created": number,  
      "name": "string",  
      "updated": number,  
      "version": 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 (p. 52)

If the amount of returned information is significantly large, an identifier is also returned which can be used in a subsequent list pipelines call to return the next set of pipelines in the list.

Type: String

pipelines (p. 52)

The list of pipelines.

Type: array of [PipelineSummary](#) (p. 119) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 131).

InvalidNextTokenException

The next token was specified in an invalid format. Make sure that the next token you provided is the token returned by a previous call.

HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1
Host: codepipeline.us-east-1.amazonaws.com
Accept-Encoding: identity
Content-Length: 2
X-Amz-Target: CodePipeline_20150709.ListPipelines
X-Amz-Date: 20160707T160211Z
User-Agent: aws-cli/1.7.38 Python/2.7.9 Windows/7
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAI44QH8DHBEXAMPLE/20160707/
us-east-1/codepipeline/aws4_request, SignedHeaders=content-type;host;user-
agent;x-amz-date;x-amz-target, Signature=8d9b5998EXAMPLE

{}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 620484b7-88cb-11e5-b497-75c49EXAMPLE
Content-Type: application/x-amz-json-1.1
Content-Length: 668

{
  "pipelines": [
    {
      "updated": 1444681408.094,
      "version": 1,
      "name": "MyFirstPipeline",
      "created": 1444681408.094
    },
    {
      "updated": 1443048299.639,
      "version": 3,
      "name": "MySecondPipeline",
      "created": 1443046290.003
    }
  ]
}
```

PollForJobs

Returns information about any jobs for AWS CodePipeline to act upon.

Important

When this API is called, AWS CodePipeline returns temporary credentials for the Amazon S3 bucket used to store artifacts for the pipeline, if the action requires access to that Amazon S3 bucket for input or output artifacts. Additionally, this API returns any secret values defined for the action.

Request Syntax

```
{
  "actionTypeId": {
    "category": "string",
    "owner": "string",
    "provider": "string",
    "version": "string"
  },
  "maxBatchSize": number,
  "queryParam": {
    "string": "string"
  }
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 129\)](#).

The request accepts the following data in JSON format.

actionTypeId (p. 54)

Represents information about an action type.

Type: [ActionTypeId \(p. 96\)](#) object

Required: Yes

maxBatchSize (p. 54)

The maximum number of jobs to return in a poll for jobs call.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

queryParam (p. 54)

A map of property names and values. For an action type with no queryable properties, this value must be null or an empty map. For an action type with a queryable property, you must supply that property as a key in the map. Only jobs whose action configuration matches the mapped value will be returned.

Type: String to String map

Length Constraints: Minimum length of 1. Maximum length of 20.

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

Required: No

Response Syntax

```
{
  "jobs": [
    {
      "accountId": "string",
      "data": {
        "actionConfiguration": {
          "configuration": {
            "string": "string"
          }
        },
        "actionTypeId": {
          "category": "string",
          "owner": "string",
          "provider": "string",
          "version": "string"
        },
        "artifactCredentials": {
          "accessKeyId": "string",
          "secretAccessKey": "string",
          "sessionToken": "string"
        },
        "continuationToken": "string",
        "encryptionKey": {
          "id": "string",
          "type": "string"
        },
        "inputArtifacts": [
          {
            "location": {
              "s3Location": {
                "bucketName": "string",
                "objectKey": "string"
              },
              "type": "string"
            },
            "name": "string",
            "revision": "string"
          }
        ],
        "outputArtifacts": [
          {
            "location": {
              "s3Location": {
                "bucketName": "string",
                "objectKey": "string"
              },
              "type": "string"
            },
            "name": "string",
            "revision": "string"
          }
        ],
        "pipelineContext": {
          "action": {
            "name": "string"
          }
        }
      }
    }
  ]
}
```

```

        "pipelineName": "string",
        "stage": {
            "name": "string"
        }
    },
    "id": "string",
    "nonce": "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.

jobs (p. 55)

Information about the jobs to take action on.
Type: array of [Job \(p. 112\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 131\)](#).

ActionTypeNotFoundException

The specified action type cannot be found.
HTTP Status Code: 400

ValidationException

The validation was specified in an invalid format.
HTTP Status Code: 400

Example

Sample Request

```

POST / HTTP/1.1
Host: codepipeline.us-east-1.amazonaws.com
Accept-Encoding: identity
Content-Length: 173
X-Amz-Target: CodePipeline_20150709.PollForJobs
X-Amz-Date: 20151030T230047Z
User-Agent: aws-cli/1.7.38 Python/2.7.9 Windows/7
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAI44QH8DHBEXAMPLE/20151030/us-east-1/codepipeline/aws4_request, SignedHeaders=content-type;host;user-agent;x-amz-date;x-amz-target, Signature=8d9b5998EXAMPLE

{
  "actionTypeId": {
    "category": "Test",
    "owner": "Custom",
    "version": "1",

```

```

    "provider": "JenkinsProviderName"
  },
  "maxBatchSize": 5,
  "queryParam": {
    "ProjectName": "JenkinsTestProject"
  }
}

```

Sample Response

HTTP/1.1 200 OK
 x-amzn-RequestId: 620484b7-88cb-11e5-b497-75c49EXAMPLE
 Content-Type: application/x-amz-json-1.1
 Content-Length: 1830

```

{
  "jobs": [
    {
      "accountId": "111111111111",
      "data": {
        "actionConfiguration": {
          "__type": "ActionConfiguration",
          "configuration": {
            "ProjectName": "JenkinsTestProject"
          }
        },
        "actionTypeId": {
          "__type": "ActionTypeId",
          "category": "Test",
          "owner": "Custom",
          "provider": "JenkinsProviderName",
          "version": "1"
        },
        "artifactCredentials": {
          "__type": "AWSSessionCredentials",
          "accessKeyId": "AKIAIOSFODNN7EXAMPLE",
          "secretAccessKey": "wJalrXUtnFEMI/K7MDENG/bPxRfiCYEXAMPLEKEY",
          "sessionToken":
            "fICQD6m7oRw0uXOjANBgkqhkiG9w0BAQUFADCBiDELMAkGA1UEBhMCVVMxMzA5BGNVBAgTaldBMRAwDgYDVQQHEW
            +a4GmWIWJ21uUSfwfEvysWtC2XADZ4nB+BLYgVik60CpiwsZ3G93vUEIO3IyNoH/
            f0wYK8m9TrDHudUZg3qX4waLG5M43q7Wgc/
            MbQITxOUSQv7c7ugFFDzQGBzZswY6786m86gpEIbb3OhjZnzcvcQAaRHdlQWIMm2nrAgMBAAEwDQYJKoZIhvcNAQEFB
            +auNKyExzyLwaxlAoo7TJHidbtS4J5iNmZgXL0FkbFFBjvSfpJilJ00zbhNYS5f6GuoEDmFJl0ZxBHjJnyp378OD8uT
          },
        "inputArtifacts": [
          {
            "__type": "Artifact",
            "location": {
              "s3Location": {
                "bucketName": "codepipeline-us-east-1-11EXAMPLE11",
                "objectKey": "MySecondPipeline/MyAppBuild/EXAMPLE"
              },
              "type": "S3"
            },
            "name": "MyAppBuild"
          }
        ],
        "outputArtifacts": [],

```



```
    "pipelineContext": {
      "__type": "PipelineContext",
      "action": {
        "name": "JenkinsTestAction"
      },
      "pipelineName": "MySecondPipeline",
      "stage": {
        "name": "Testing"
      }
    },
    "id": "ef66c259-64f9-EXAMPLE",
    "nonce": "3"
  }
]
```

PollForThirdPartyJobs

Determines whether there are any third party jobs for a job worker to act on. Only used for partner actions.

Important

When this API is called, AWS CodePipeline returns temporary credentials for the Amazon S3 bucket used to store artifacts for the pipeline, if the action requires access to that Amazon S3 bucket for input or output artifacts.

Request Syntax

```
{
  "actionTypeId": {
    "category": "string",
    "owner": "string",
    "provider": "string",
    "version": "string"
  },
  "maxBatchSize": number
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 129).

The request accepts the following data in JSON format.

actionTypeId (p. 59)

Represents information about an action type.

Type: [ActionTypeId](#) (p. 96) object

Required: Yes

maxBatchSize (p. 59)

The maximum number of jobs to return in a poll for jobs call.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

Response Syntax

```
{
  "jobs": [
    {
      "clientId": "string",
      "jobId": "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.

jobs (p. 59)

Information about the jobs to take action on.

Type: array of [ThirdPartyJob \(p. 125\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 131\)](#).

ActionTypeNotFoundException

The specified action type cannot be found.

HTTP Status Code: 400

ValidationException

The validation was specified in an invalid format.

HTTP Status Code: 400

PutActionRevision

Provides information to AWS CodePipeline about new revisions to a source.

Request Syntax

```
{
  "actionName": "string",
  "actionRevision": {
    "created": number,
    "revisionChangeId": "string",
    "revisionId": "string"
  },
  "pipelineName": "string",
  "stageName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 129\)](#).

The request accepts the following data in JSON format.

actionName (p. 61)

The name of the action that will process the revision.

Type: String

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

Pattern: [A-Za-z0-9.\@_]+

Required: Yes

actionRevision (p. 61)

Represents information about the version (or revision) of an action.

Type: [ActionRevision \(p. 93\)](#) object

Required: Yes

pipelineName (p. 61)

The name of the pipeline that will start processing the revision to the source.

Type: String

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

Pattern: [A-Za-z0-9.\@_]+

Required: Yes

stageName (p. 61)

The name of the stage that contains the action that will act upon the revision.

Type: String

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

Pattern: [A-Za-z0-9.\@_]+

Required: Yes

Response Syntax

```
{
  "newRevision": boolean,
}
```

```
"pipelineExecutionId": "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.

newRevision (p. 61)

Indicates whether the artifact revision was previously used in an execution of the specified pipeline.

Type: Boolean

pipelineExecutionId (p. 61)

The ID of the current workflow state of the pipeline.

Type: String

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 131\)](#).

ActionNotFoundException

The specified action cannot be found.

HTTP Status Code: 400

PipelineNotFoundException

The specified pipeline was specified in an invalid format or cannot be found.

HTTP Status Code: 400

StageNotFoundException

The specified stage was specified in an invalid format or cannot be found.

HTTP Status Code: 400

ValidationException

The validation was specified in an invalid format.

HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1  
Host: codepipeline.us-east-1.amazonaws.com  
Accept-Encoding: identity  
Content-Length: 173  
X-Amz-Target: CodePipeline_20150709.PutActionRevision  
X-Amz-Date: 20151030T230047Z  
User-Agent: aws-cli/1.7.38 Python/2.7.9 Windows/7  
Content-Type: application/x-amz-json-1.1  
Authorization: AWS4-HMAC-SHA256 Credential=AKIAI44QH8DHBEXAMPLE/20151030/  
us-east-1/codepipeline/aws4_request, SignedHeaders=content-type;host;user-  
agent;x-amz-date;x-amz-target, Signature=8d9b5998EXAMPLE  
  
{
```

```
"actionName": "Source",
"actionRevision": {
  "created": 1446726163.571,
"revisionChangeId": "3fdd7b9196697a096d5af1d649e26a4a",
  "revisionId": "HYGp7zmwbCPPwo234xsCEM7d6ToeAqI1"
},
"pipelineName": "MyFirstPipeline",
"stageName": "Beta"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 620484b7-88cb-11e5-b497-75c49EXAMPLE
Content-Type: application/x-amz-json-1.1
Content-Length: 1830

{
  "newRevision": true,
  "pipelineExecutionId": "42ee4d10-e4de-a37c-82b7-36c11EXAMPLE"
}
```

PutApprovalResult

Provides the response to a manual approval request to AWS CodePipeline. Valid responses include Approved and Rejected.

Request Syntax

```
{
  "actionName": "string",
  "pipelineName": "string",
  "result": {
    "status": "string",
    "summary": "string"
  },
  "stageName": "string",
  "token": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 129).

The request accepts the following data in JSON format.

actionName (p. 64)

The name of the action for which approval is requested.

Type: String

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

Pattern: [A-Za-z0-9.@\-_]+

Required: Yes

pipelineName (p. 64)

The name of the pipeline that contains the action.

Type: String

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

Pattern: [A-Za-z0-9.@\-_]+

Required: Yes

result (p. 64)

Represents information about the result of the approval request.

Type: [ApprovalResult](#) (p. 98) object

Required: Yes

stageName (p. 64)

The name of the stage that contains the action.

Type: String

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

Pattern: [A-Za-z0-9.@\-_]+

Required: Yes

token (p. 64)

The system-generated token used to identify a unique approval request. The token for each open approval request can be obtained using the [GetPipelineState](#) (p. 38) action and is used to validate that the approval request corresponding to this token is still valid.

Type: String

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

Response Syntax

```
{  
  "approvedAt": 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.

approvedAt (p. 65)

The timestamp showing when the approval or rejection was submitted.

Type: Timestamp

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 131).

ActionNotFoundException

The specified action cannot be found.

HTTP Status Code: 400

ApprovalAlreadyCompletedException

The approval action has already been approved or rejected.

HTTP Status Code: 400

InvalidApprovalTokenException

The approval request already received a response or has expired.

HTTP Status Code: 400

PipelineNotFoundException

The specified pipeline was specified in an invalid format or cannot be found.

HTTP Status Code: 400

StageNotFoundException

The specified stage was specified in an invalid format or cannot be found.

HTTP Status Code: 400

ValidationException

The validation was specified in an invalid format.

HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1  
Host: codepipeline.us-east-1.amazonaws.com  
Accept-Encoding: identity  
Content-Length: 173
```



```
X-Amz-Target: CodePipeline_20150709.PutApprovalResult
X-Amz-Date: 20151030T230047Z
User-Agent: aws-cli/1.7.38 Python/2.7.9 Windows/7
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAI44QH8DHBEXAMPLE/20151030/
us-east-1/codepipeline/aws4_request, SignedHeaders=content-type;host;user-
agent;x-amz-date;x-amz-target, Signature=8d9b5998EXAMPLE

{
  "actionName": "MyApprovalAction",
  "pipelineName": "MyFirstPipeline",
  "result": {
    "status": "Approved",
    "summary": "Latest changes meet the bar. Ship it!"
  },
  "stageName": "MyApprovalStage",
  "token": "1a2b3c4d-573f-4ea7-a67E-XAMPLETOKEN"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 620484b7-88cb-11e5-b497-75c49EXAMPLE
Content-Type: application/x-amz-json-1.1
Content-Length: 24

{
  "approvedAt": 1466137312.204
}
```

PutJobFailureResult

Represents the failure of a job as returned to the pipeline by a job worker. Only used for custom actions.

Request Syntax

```
{
  "failureDetails": {
    "externalExecutionId": "string",
    "message": "string",
    "type": "string"
  },
  "jobId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 129\)](#).

The request accepts the following data in JSON format.

failureDetails (p. 67)

The details about the failure of a job.

Type: [FailureDetails \(p. 110\)](#) object

Required: Yes

jobId (p. 67)

The unique system-generated ID of the job that failed. This is the same ID returned from [PollForJobs](#).

Type: String

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

Response Elements

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

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 131\)](#).

InvalidJobStateException

The specified job state was specified in an invalid format.

HTTP Status Code: 400

JobNotFoundException

The specified job was specified in an invalid format or cannot be found.

HTTP Status Code: 400

ValidationException

The validation was specified in an invalid format.

HTTP Status Code: 400

PutJobSuccessResult

Represents the success of a job as returned to the pipeline by a job worker. Only used for custom actions.

Request Syntax

```
{
  "continuationToken": "string",
  "currentRevision": {
    "changeIdentifier": "string",
    "created": number,
    "revision": "string",
    "revisionSummary": "string"
  },
  "executionDetails": {
    "externalExecutionId": "string",
    "percentComplete": number,
    "summary": "string"
  },
  "jobId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 129).

The request accepts the following data in JSON format.

continuationToken (p. 68)

A token generated by a job worker, such as an AWS CodeDeploy deployment ID, that a successful job provides to identify a custom action in progress. Future jobs will use this token in order to identify the running instance of the action. It can be reused to return additional information about the progress of the custom action. When the action is complete, no continuation token should be supplied.

Type: String

Required: No

currentRevision (p. 68)

The ID of the current revision of the artifact successfully worked upon by the job.

Type: [CurrentRevision](#) (p. 106) object

Required: No

executionDetails (p. 68)

The execution details of the successful job, such as the actions taken by the job worker.

Type: [ExecutionDetails](#) (p. 109) object

Required: No

jobId (p. 68)

The unique system-generated ID of the job that succeeded. This is the same ID returned from [PollForJobs](#).

Type: String

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

Response Elements

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

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 131\)](#).

InvalidJobStateException

The specified job state was specified in an invalid format.

HTTP Status Code: 400

JobNotFoundException

The specified job was specified in an invalid format or cannot be found.

HTTP Status Code: 400

ValidationException

The validation was specified in an invalid format.

HTTP Status Code: 400

PutThirdPartyJobFailureResult

Represents the failure of a third party job as returned to the pipeline by a job worker. Only used for partner actions.

Request Syntax

```
{
  "clientToken": "string",
  "failureDetails": {
    "externalExecutionId": "string",
    "message": "string",
    "type": "string"
  },
  "jobId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 129\)](#).

The request accepts the following data in JSON format.

clientToken (p. 70)

The clientToken portion of the clientId and clientToken pair used to verify that the calling entity is allowed access to the job and its details.

Type: String

Required: Yes

failureDetails (p. 70)

Represents information about failure details.

Type: [FailureDetails \(p. 110\)](#) object

Required: Yes

jobId (p. 70)

The ID of the job that failed. This is the same ID returned from [PollForThirdPartyJobs](#).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: Yes

Response Elements

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

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 131\)](#).

InvalidClientTokenException

The client token was specified in an invalid format

HTTP Status Code: 400

InvalidJobStateException

The specified job state was specified in an invalid format.

HTTP Status Code: 400

JobNotFoundException

The specified job was specified in an invalid format or cannot be found.

HTTP Status Code: 400

ValidationException

The validation was specified in an invalid format.

HTTP Status Code: 400

PutThirdPartyJobSuccessResult

Represents the success of a third party job as returned to the pipeline by a job worker. Only used for partner actions.

Request Syntax

```
{
  "clientToken": "string",
  "continuationToken": "string",
  "currentRevision": {
    "changeIdentifier": "string",
    "created": number,
    "revision": "string",
    "revisionSummary": "string"
  },
  "executionDetails": {
    "externalExecutionId": "string",
    "percentComplete": number,
    "summary": "string"
  },
  "jobId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 129).

The request accepts the following data in JSON format.

clientToken (p. 72)

The clientToken portion of the clientId and clientToken pair used to verify that the calling entity is allowed access to the job and its details.

Type: String

Required: Yes

continuationToken (p. 72)

A token generated by a job worker, such as an AWS CodeDeploy deployment ID, that a successful job provides to identify a partner action in progress. Future jobs will use this token in order to identify the running instance of the action. It can be reused to return additional information about the progress of the partner action. When the action is complete, no continuation token should be supplied.

Type: String

Required: No

currentRevision (p. 72)

Represents information about a current revision.

Type: [CurrentRevision](#) (p. 106) object

Required: No

executionDetails (p. 72)

The details of the actions taken and results produced on an artifact as it passes through stages in the pipeline.

Type: [ExecutionDetails](#) (p. 109) object

Required: No

jobId (p. 72)

The ID of the job that successfully completed. This is the same ID returned from `PollForThirdPartyJobs`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: Yes

Response Elements

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

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 131\)](#).

InvalidClientTokenException

The client token was specified in an invalid format

HTTP Status Code: 400

InvalidJobStateException

The specified job state was specified in an invalid format.

HTTP Status Code: 400

JobNotFoundException

The specified job was specified in an invalid format or cannot be found.

HTTP Status Code: 400

ValidationException

The validation was specified in an invalid format.

HTTP Status Code: 400

RetryStageExecution

Resumes the pipeline execution by retrying the last failed actions in a stage.

Request Syntax

```
{
  "pipelineExecutionId": "string",
  "pipelineName": "string",
  "retryMode": "string",
  "stageName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 129\)](#).

The request accepts the following data in JSON format.

pipelineExecutionId (p. 74)

The ID of the pipeline execution in the failed stage to be retried. Use the [GetPipelineState \(p. 38\)](#) action to retrieve the current pipelineExecutionId of the failed stage

Type: String

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

pipelineName (p. 74)

The name of the pipeline that contains the failed stage.

Type: String

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

Pattern: [A-Za-z0-9.\@\-_]+

Required: Yes

retryMode (p. 74)

The scope of the retry attempt. Currently, the only supported value is FAILED_ACTIONS.

Type: String

Valid Values: FAILED_ACTIONS

Required: Yes

stageName (p. 74)

The name of the failed stage to be retried.

Type: String

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

Pattern: [A-Za-z0-9.\@\-_]+

Required: Yes

Response Syntax

```
{
  "pipelineExecutionId": "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.

pipelineExecutionId (p. 74)

The ID of the current workflow execution in the failed stage.

Type: String

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 131).

NotLatestPipelineExecutionException

The stage has failed in a later run of the pipeline and the pipelineExecutionId associated with the request is out of date.

HTTP Status Code: 400

PipelineNotFoundException

The specified pipeline was specified in an invalid format or cannot be found.

HTTP Status Code: 400

StageNotFoundException

The specified stage was specified in an invalid format or cannot be found.

HTTP Status Code: 400

StageNotRetryableException

The specified stage can't be retried because the pipeline structure or stage state changed after the stage was not completed; the stage contains no failed actions; one or more actions are still in progress; or another retry attempt is already in progress.

HTTP Status Code: 400

ValidationException

The validation was specified in an invalid format.

HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1
Host: codepipeline.us-east-1.amazonaws.com
Accept-Encoding: identity
Content-Length: 173
X-Amz-Target: CodePipeline_20150709.RetryStageExecution
X-Amz-Date: 20151030T230047Z
User-Agent: aws-cli/1.7.38 Python/2.7.9 Windows/7
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAI44QH8DHBEXAMPLE/20151030/us-east-1/codepipeline/aws4_request, SignedHeaders=content-type;host;user-agent;x-amz-date;x-amz-target, Signature=8d9b5998EXAMPLE

{
  "pipelineExecutionId": "3137f7cb-7cf7-EXAMPLE",
  "pipelineName": "MyFirstPipeline",
```

```
"retryMode": "FAILED_ACTIONS",  
"stageName": "Beta"  
}
```

Sample Response

```
HTTP/1.1 200 OK  
x-amzn-RequestId: 620484b7-88cb-11e5-b497-75c49EXAMPLE  
Content-Type: application/x-amz-json-1.1  
Content-Length: 30  
  
{  
  "pipelineExecutionId": "3137f7cb-7cf7-EXAMPLE"  
}
```

StartPipelineExecution

Starts the specified pipeline. Specifically, it begins processing the latest commit to the source location specified as part of the pipeline.

Request Syntax

```
{  
  "name": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 129).

The request accepts the following data in JSON format.

name (p. 77)

The name of the pipeline to start.

Type: String

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

Pattern: [A-Za-z0-9.\@_]+

Required: Yes

Response Syntax

```
{  
  "pipelineExecutionId": "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.

pipelineExecutionId (p. 77)

The unique system-generated ID of the pipeline execution that was started.

Type: String

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 131).

PipelineNotFoundException

The specified pipeline was specified in an invalid format or cannot be found.

HTTP Status Code: 400

ValidationException

The validation was specified in an invalid format.

HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1
Host: codepipeline.us-east-1.amazonaws.com
Accept-Encoding: identity
Content-Length: 27
X-Amz-Target: CodePipeline_20150709.StartPipelineExecution
X-Amz-Date: 20160707T172713Z
User-Agent: aws-cli/1.7.38 Python/2.7.9 Windows/7
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAI44QH8DHBEXAMPLE/20160707/
us-east-1/codepipeline/aws4_request, SignedHeaders=content-type;host;user-
agent;x-amz-date;x-amz-target, Signature=8d9b5998EXAMPLE

{
  "name": "MyFirstPipeline"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 620484b7-88cb-11e5-b497-75c49EXAMPLE
Content-Type: application/x-amz-json-1.1
Content-Length: 62

{
  "pipelineExecutionId": "3137f7cb-7cf7-EXAMPLE"
}
```

UpdatePipeline

Updates a specified pipeline with edits or changes to its structure. Use a JSON file with the pipeline structure in conjunction with UpdatePipeline to provide the full structure of the pipeline. Updating the pipeline increases the version number of the pipeline by 1.

Request Syntax

```
{
  "pipeline": {
    "artifactStore": {
      "encryptionKey": {
        "id": "string",
        "type": "string"
      },
      "location": "string",
      "type": "string"
    },
    "name": "string",
    "roleArn": "string",
    "stages": [
      {
        "actions": [
          {
            "actionTypeId": {
              "category": "string",
              "owner": "string",
              "provider": "string",
              "version": "string"
            },
            "configuration": {
              "string": "string"
            },
            "inputArtifacts": [
              {
                "name": "string"
              }
            ],
            "name": "string",
            "outputArtifacts": [
              {
                "name": "string"
              }
            ],
            "roleArn": "string",
            "runOrder": number
          }
        ],
        "blockers": [
          {
            "name": "string",
            "type": "string"
          }
        ],
        "name": "string"
      }
    ]
  }
}
```

```
    "version": number
  }
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 129\)](#).

The request accepts the following data in JSON format.

pipeline (p. 79)

The name of the pipeline to be updated.

Type: [PipelineDeclaration \(p. 117\)](#) object

Required: Yes

Response Syntax

```
{
  "pipeline": {
    "artifactStore": {
      "encryptionKey": {
        "id": "string",
        "type": "string"
      },
      "location": "string",
      "type": "string"
    },
    "name": "string",
    "roleArn": "string",
    "stages": [
      {
        "actions": [
          {
            "actionTypeId": {
              "category": "string",
              "owner": "string",
              "provider": "string",
              "version": "string"
            },
            "configuration": {
              "string": "string"
            },
            "inputArtifacts": [
              {
                "name": "string"
              }
            ],
            "name": "string",
            "outputArtifacts": [
              {
                "name": "string"
              }
            ],
            "roleArn": "string",
            "runOrder": number
          }
        ]
      }
    ]
  }
}
```

```
    },  
    ],  
    "blockers": [  
      {  
        "name": "string",  
        "type": "string"  
      }  
    ],  
    "name": "string"  
  }  
],  
"version": 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.

pipeline (p. 80)

The structure of the updated pipeline.

Type: [PipelineDeclaration \(p. 117\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 131\)](#).

InvalidActionDeclarationException

The specified action declaration was specified in an invalid format.

HTTP Status Code: 400

InvalidBlockerDeclarationException

Reserved for future use.

HTTP Status Code: 400

InvalidStageDeclarationException

The specified stage declaration was specified in an invalid format.

HTTP Status Code: 400

InvalidStructureException

The specified structure was specified in an invalid format.

HTTP Status Code: 400

ValidationException

The validation was specified in an invalid format.

HTTP Status Code: 400

Example

Sample Request

```
POST / HTTP/1.1  
Host: codepipeline.us-east-1.amazonaws.com  
Accept-Encoding: identity  
Content-Length: 914
```


AWS CodePipeline API Reference
Example

```
X-Amz-Target: CodePipeline_20150709.UpdatePipeline
X-Amz-Date: 20160707T174930Z
User-Agent: aws-cli/1.7.38 Python/2.7.9 Windows/7
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAI44QH8DHBEXAMPLE/20160707/
us-east-1/codepipeline/aws4_request, SignedHeaders=content-type;host;user-
agent;x-amz-date;x-amz-target, Signature=8d9b5998EXAMPLE
```

```
{
  "pipeline": {
    "roleArn": "arn:aws:iam::111111111111:role/AWS-CodePipeline-Service",
    "stages": [
      {
        "name": "Source",
        "actions": [
          {
            "inputArtifacts": [],
            "name": "Source",
            "actionTypeId": {
              "category": "Source",
              "owner": "AWS",
              "version": "1",
              "provider": "S3"
            },
            "outputArtifacts": [
              {
                "name": "MyApp"
              }
            ],
            "configuration": {
              "S3Bucket": "awscodepipeline-demo-bucket2",
              "S3ObjectKey": "aws-codepipeline-s3-aws-codedeploy_linux.zip"
            },
            "runOrder": 1
          }
        ]
      },
      {
        "name": "Beta",
        "actions": [
          {
            "inputArtifacts": [
              {
                "name": "MyApp"
              }
            ],
            "name": "CodePipelineDemoFleet",
            "actionTypeId": {
              "category": "Deploy",
              "owner": "AWS",
              "version": "1",
              "provider": "CodeDeploy"
            },
            "outputArtifacts": [],
            "configuration": {
              "ApplicationName": "CodePipelineDemoApplication",
              "DeploymentGroupName": "CodePipelineDemoFleet"
            },
            "runOrder": 1
          }
        ]
      }
    ]
  }
}
```

```
    }
  ]
}
],
"artifactStore": {
  "type": "S3",
  "location": "codepipeline-us-east-1-11EXAMPLE11"
},
"name": "MyFirstPipeline",
"version": 1
}
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 620484b7-88cb-11e5-b497-75c49EXAMPLE
Content-Type: application/x-amz-json-1.1
Content-Length: 898

{
  "pipeline": {
    "artifactStore": {
      "location": "codepipeline-us-east-1-11EXAMPLE11",
      "type": "S3"
    },
    "name": "MyFirstPipeline",
    "roleArn": "arn:aws:iam::111111111111:role/AWS-CodePipeline-Service",
    "stages": [
      {
        "actions": [
          {
            "actionTypeId": {
              "__type": "ActionTypeId",
              "category": "Source",
              "owner": "AWS",
              "provider": "S3",
              "version": "1"
            },
            "configuration": {
              "S3Bucket": "awscodepipeline-demo-bucket2",
              "S3ObjectKey": "aws-codepipeline-s3-aws-codedeploy_linux.zip"
            },
            "inputArtifacts": [],
            "name": "Source",
            "outputArtifacts": [
              {
                "name": "MyApp"
              }
            ],
            "runOrder": 1
          }
        ],
        "name": "Source"
      },
      {
        "actions": [
          {
```

```
    "actionTypeId": {
      "__type": "ActionTypeId",
      "category": "Deploy",
      "owner": "AWS",
      "provider": "CodeDeploy",
      "version": "1"
    },
    "configuration": {
      "ApplicationName": "CodePipelineDemoApplication",
      "DeploymentGroupName": "CodePipelineDemoFleet"
    },
    "inputArtifacts": [
      {
        "name": "MyApp"
      }
    ],
    "name": "CodePipelineDemoFleet",
    "outputArtifacts": [],
    "runOrder": 1
  }
],
"name": "Beta"
}
],
"version": 3
}
```

Data Types

The AWS CodePipeline 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:

- [ActionConfiguration](#) (p. 87)
- [ActionConfigurationProperty](#) (p. 88)
- [ActionContext](#) (p. 89)
- [ActionDeclaration](#) (p. 90)
- [ActionExecution](#) (p. 91)
- [ActionRevision](#) (p. 93)
- [ActionState](#) (p. 94)
- [ActionType](#) (p. 95)
- [ActionTypeId](#) (p. 96)
- [ActionTypeSettings](#) (p. 97)
- [ApprovalResult](#) (p. 98)
- [Artifact](#) (p. 99)
- [ArtifactDetails](#) (p. 100)
- [ArtifactLocation](#) (p. 101)
- [ArtifactRevision](#) (p. 102)
- [ArtifactStore](#) (p. 103)
- [AWSSessionCredentials](#) (p. 104)
- [BlockerDeclaration](#) (p. 105)
- [CurrentRevision](#) (p. 106)
- [EncryptionKey](#) (p. 107)
- [ErrorDetails](#) (p. 108)
- [ExecutionDetails](#) (p. 109)
- [FailureDetails](#) (p. 110)
- [InputArtifact](#) (p. 111)
- [Job](#) (p. 112)

- [JobData](#) (p. 113)
- [JobDetails](#) (p. 114)
- [OutputArtifact](#) (p. 115)
- [PipelineContext](#) (p. 116)
- [PipelineDeclaration](#) (p. 117)
- [PipelineExecution](#) (p. 118)
- [PipelineSummary](#) (p. 119)
- [S3ArtifactLocation](#) (p. 120)
- [StageContext](#) (p. 121)
- [StageDeclaration](#) (p. 122)
- [StageExecution](#) (p. 123)
- [StageState](#) (p. 124)
- [ThirdPartyJob](#) (p. 125)
- [ThirdPartyJobData](#) (p. 126)
- [ThirdPartyJobDetails](#) (p. 127)
- [TransitionState](#) (p. 128)

ActionConfiguration

Represents information about an action configuration.

Contents

configuration

The configuration data for the action.

Type: String to String map

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

Required: No

ActionConfigurationProperty

Represents information about an action configuration property.

Contents

description

The description of the action configuration property that will be displayed to users.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

key

Whether the configuration property is a key.

Type: Boolean

Required: Yes

name

The name of the action configuration property.

Type: String

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

Required: Yes

queryable

Indicates that the property will be used in conjunction with PollForJobs. When creating a custom action, an action can have up to one queryable property. If it has one, that property must be both required and not secret.

If you create a pipeline with a custom action type, and that custom action contains a queryable property, the value for that configuration property is subject to additional restrictions. The value must be less than or equal to twenty (20) characters. The value can contain only alphanumeric characters, underscores, and hyphens.

Type: Boolean

Required: No

required

Whether the configuration property is a required value.

Type: Boolean

Required: Yes

secret

Whether the configuration property is secret. Secrets are hidden from all calls except for GetJobDetails, GetThirdPartyJobDetails, PollForJobs, and PollForThirdPartyJobs.

When updating a pipeline, passing ***** without changing any other values of the action will preserve the prior value of the secret.

Type: Boolean

Required: Yes

type

The type of the configuration property.

Type: String

Valid Values: `String` | `Number` | `Boolean`

Required: No

ActionContext

Represents the context of an action within the stage of a pipeline to a job worker.

Contents

name

The name of the action within the context of a job.

Type: String

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

Pattern: [A-Za-z0-9.\@_]+

Required: No

ActionDeclaration

Represents information about an action declaration.

Contents

actionTypeId

The configuration information for the action type.

Type: [ActionTypeId \(p. 96\)](#) object

Required: Yes

configuration

The action declaration's configuration.

Type: String to String map

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

Required: No

inputArtifacts

The name or ID of the artifact consumed by the action, such as a test or build artifact.

Type: array of [InputArtifact \(p. 111\)](#) objects

Required: No

name

The action declaration's name.

Type: String

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

Pattern: `[A-Za-z0-9.\@\-_]+`

Required: Yes

outputArtifacts

The name or ID of the result of the action declaration, such as a test or build artifact.

Type: array of [OutputArtifact \(p. 115\)](#) objects

Required: No

roleArn

The ARN of the IAM service role that will perform the declared action. This is assumed through the roleArn for the pipeline.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: `arn:aws(-[\w]+)*:iam:[0-9]{12}:role/.*`

Required: No

runOrder

The order in which actions are run.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 999.

Required: No

ActionExecution

Represents information about the run of an action.

Contents

errorDetails

The details of an error returned by a URL external to AWS.

Type: [ErrorDetails](#) (p. 108) object

Required: No

externalExecutionId

The external ID of the run of the action.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1500.

Required: No

externalExecutionUrl

The URL of a resource external to AWS that will be used when running the action, for example an external repository URL.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

lastStatusChange

The last status change of the action.

Type: Timestamp

Required: No

lastUpdatedBy

The ARN of the user who last changed the pipeline.

Type: String

Required: No

percentComplete

A percentage of completeness of the action as it runs.

Type: Integer

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

Required: No

status

The status of the action, or for a completed action, the last status of the action.

Type: String

Valid Values: `InProgress` | `Succeeded` | `Failed`

Required: No

summary

A summary of the run of the action.

Type: String

Required: No

token

The system-generated token used to identify a unique approval request. The token for each open approval request can be obtained using the `GetPipelineState` command and is used to validate that the approval request corresponding to this token is still valid.

Type: String

Required: No

ActionRevision

Represents information about the version (or revision) of an action.

Contents

created

The date and time when the most recent version of the action was created, in timestamp format.

Type: Timestamp

Required: Yes

revisionChangeld

The unique identifier of the change that set the state to this revision, for example a deployment ID or timestamp.

Type: String

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

Required: Yes

revisionId

The system-generated unique ID that identifies the revision number of the action.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1500.

Required: Yes

ActionState

Represents information about the state of an action.

Contents

actionName

The name of the action.

Type: String

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

Pattern: [A-Za-z0-9.\@_]+

Required: No

currentRevision

Represents information about the version (or revision) of an action.

Type: [ActionRevision \(p. 93\)](#) object

Required: No

entityUri

A URL link for more information about the state of the action, such as a deployment group details page.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

latestExecution

Represents information about the run of an action.

Type: [ActionExecution \(p. 91\)](#) object

Required: No

revisionUri

A URL link for more information about the revision, such as a commit details page.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

ActionType

Returns information about the details of an action type.

Contents

actionConfigurationProperties

The configuration properties for the action type.

Type: array of [ActionConfigurationProperty \(p. 88\)](#) objects

Array Members: Maximum number of 10 items.

Required: No

id

Represents information about an action type.

Type: [ActionTypeId \(p. 96\)](#) object

Required: Yes

inputArtifactDetails

The details of the input artifact for the action, such as its commit ID.

Type: [ArtifactDetails \(p. 100\)](#) object

Required: Yes

outputArtifactDetails

The details of the output artifact of the action, such as its commit ID.

Type: [ArtifactDetails \(p. 100\)](#) object

Required: Yes

settings

The settings for the action type.

Type: [ActionTypeSettings \(p. 97\)](#) object

Required: No

ActionTypeId

Represents information about an action type.

Contents

category

A category defines what kind of action can be taken in the stage, and constrains the provider type for the action. Valid categories are limited to one of the values below.

Type: String

Valid Values: `Source` | `Build` | `Deploy` | `Test` | `Invoke` | `Approval`

Required: Yes

owner

The creator of the action being called.

Type: String

Valid Values: `AWS` | `ThirdParty` | `Custom`

Required: Yes

provider

The provider of the service being called by the action. Valid providers are determined by the action category. For example, an action in the `Deploy` category type might have a provider of `AWS CodeDeploy`, which would be specified as `CodeDeploy`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 25.

Pattern: `[0-9A-Za-z_-]+`

Required: Yes

version

A string that identifies the action type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 9.

Pattern: `[0-9A-Za-z_-]+`

Required: Yes

ActionTypeSettings

Returns information about the settings for an action type.

Contents

entityUriTemplate

The URL returned to the AWS CodePipeline console that provides a deep link to the resources of the external system, such as the configuration page for an AWS CodeDeploy deployment group. This link is provided as part of the action display within the pipeline.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

executionUriTemplate

The URL returned to the AWS CodePipeline console that contains a link to the top-level landing page for the external system, such as console page for AWS CodeDeploy. This link is shown on the pipeline view page in the AWS CodePipeline console and provides a link to the execution entity of the external action.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

revisionUriTemplate

The URL returned to the AWS CodePipeline console that contains a link to the page where customers can update or change the configuration of the external action.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

thirdPartyConfigurationUrl

The URL of a sign-up page where users can sign up for an external service and perform initial configuration of the action provided by that service.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

ApprovalResult

Represents information about the result of an approval request.

Contents

status

The response submitted by a reviewer assigned to an approval action request.

Type: String

Valid Values: `Approved` | `Rejected`

Required: Yes

summary

The summary of the current status of the approval request.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 512.

Required: Yes

Artifact

Represents information about an artifact that will be worked upon by actions in the pipeline.

Contents

location

The location of an artifact.

Type: [ArtifactLocation](#) (p. 101) object

Required: No

name

The artifact's name.

Type: String

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

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

Required: No

revision

The artifact's revision ID. Depending on the type of object, this could be a commit ID (GitHub) or a revision ID (Amazon S3).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1500.

Required: No

ArtifactDetails

Returns information about the details of an artifact.

Contents

maximumCount

The maximum number of artifacts allowed for the action type.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 5.

Required: Yes

minimumCount

The minimum number of artifacts allowed for the action type.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 5.

Required: Yes

ArtifactLocation

Represents information about the location of an artifact.

Contents

s3Location

The Amazon S3 bucket that contains the artifact.

Type: [S3ArtifactLocation \(p. 120\)](#) object

Required: No

type

The type of artifact in the location.

Type: String

Valid Values: `s3`

Required: No

ArtifactRevision

Represents revision details of an artifact.

Contents

created

The date and time when the most recent revision of the artifact was created, in timestamp format.

Type: Timestamp

Required: No

name

The name of an artifact. This name might be system-generated, such as "MyApp", or might be defined by the user when an action is created.

Type: String

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

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

Required: No

revisionChangeldentifier

An additional identifier for a revision, such as a commit date or, for artifacts stored in Amazon S3 buckets, the ETag value.

Type: String

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

Required: No

revisionId

The revision ID of the artifact.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1500.

Required: No

revisionSummary

Summary information about the most recent revision of the artifact. For GitHub and AWS CodeCommit repositories, the commit message. For Amazon S3 buckets or actions, the user-provided content of a `codepipeline-artifact-revision-summary` key specified in the object metadata.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

revisionUrl

The commit ID for the artifact revision. For artifacts stored in GitHub or AWS CodeCommit repositories, the commit ID is linked to a commit details page.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

ArtifactStore

The Amazon S3 location where artifacts are stored for the pipeline. If this Amazon S3 bucket is created manually, it must meet the requirements for AWS CodePipeline. For more information, see the [Concepts](#).

Contents

encryptionKey

The encryption key used to encrypt the data in the artifact store, such as an AWS Key Management Service (AWS KMS) key. If this is undefined, the default key for Amazon S3 is used.

Type: [EncryptionKey \(p. 107\)](#) object

Required: No

location

The location for storing the artifacts for a pipeline, such as an S3 bucket or folder.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 63.

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

Required: Yes

type

The type of the artifact store, such as S3.

Type: String

Valid Values: s3

Required: Yes

AWSSessionCredentials

Represents an AWS session credentials object. These credentials are temporary credentials that are issued by AWS Secure Token Service (STS). They can be used to access input and output artifacts in the Amazon S3 bucket used to store artifact for the pipeline in AWS CodePipeline.

Contents

accessKeyId

The access key for the session.

Type: String

Required: Yes

secretAccessKey

The secret access key for the session.

Type: String

Required: Yes

sessionToken

The token for the session.

Type: String

Required: Yes

BlockerDeclaration

Reserved for future use.

Contents

name

Reserved for future use.

Type: String

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

Required: Yes

type

Reserved for future use.

Type: String

Valid Values: `schedule`

Required: Yes

CurrentRevision

Represents information about a current revision.

Contents

changeIdentifier

The change identifier for the current revision.

Type: String

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

Required: Yes

created

The date and time when the most recent revision of the artifact was created, in timestamp format.

Type: Timestamp

Required: No

revision

The revision ID of the current version of an artifact.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1500.

Required: Yes

revisionSummary

The summary of the most recent revision of the artifact.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

EncryptionKey

Represents information about the key used to encrypt data in the artifact store, such as an AWS Key Management Service (AWS KMS) key.

Contents

id

The ID used to identify the key. For an AWS KMS key, this is the key ID or key ARN.

Type: String

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

Required: Yes

type

The type of encryption key, such as an AWS Key Management Service (AWS KMS) key. When creating or updating a pipeline, the value must be set to 'KMS'.

Type: String

Valid Values: `KMS`

Required: Yes

ErrorDetails

Represents information about an error in AWS CodePipeline.

Contents

code

The system ID or error number code of the error.

Type: String

Required: No

message

The text of the error message.

Type: String

Required: No

ExecutionDetails

The details of the actions taken and results produced on an artifact as it passes through stages in the pipeline.

Contents

externalExecutionId

The system-generated unique ID of this action used to identify this job worker in any external systems, such as AWS CodeDeploy.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1500.

Required: No

percentComplete

The percentage of work completed on the action, represented on a scale of zero to one hundred percent.

Type: Integer

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

Required: No

summary

The summary of the current status of the actions.

Type: String

Required: No

FailureDetails

Represents information about failure details.

Contents

externalExecutionId

The external ID of the run of the action that failed.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1500.

Required: No

message

The message about the failure.

Type: String

Required: Yes

type

The type of the failure.

Type: String

Valid Values: JobFailed | ConfigurationError | PermissionError |
RevisionOutOfSync | RevisionUnavailable | SystemUnavailable

Required: Yes

InputArtifact

Represents information about an artifact to be worked on, such as a test or build artifact.

Contents

name

The name of the artifact to be worked on, for example, "My App".

The input artifact of an action must exactly match the output artifact declared in a preceding action, but the input artifact does not have to be the next action in strict sequence from the action that provided the output artifact. Actions in parallel can declare different output artifacts, which are in turn consumed by different following actions.

Type: String

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

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

Required: Yes

Job

Represents information about a job.

Contents

accountId

The ID of the AWS account to use when performing the job.

Type: String

Pattern: [0-9]{12}

Required: No

data

Additional data about a job.

Type: [JobData \(p. 113\)](#) object

Required: No

id

The unique system-generated ID of the job.

Type: String

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: No

nonce

A system-generated random number that AWS CodePipeline uses to ensure that the job is being worked on by only one job worker. Use this number in an [AcknowledgeJob \(p. 4\)](#) request.

Type: String

Required: No

JobData

Represents additional information about a job required for a job worker to complete the job.

Contents

actionConfiguration

Represents information about an action configuration.

Type: [ActionConfiguration \(p. 87\)](#) object

Required: No

actionTypeId

Represents information about an action type.

Type: [ActionTypeId \(p. 96\)](#) object

Required: No

artifactCredentials

Represents an AWS session credentials object. These credentials are temporary credentials that are issued by AWS Secure Token Service (STS). They can be used to access input and output artifacts in the Amazon S3 bucket used to store artifact for the pipeline in AWS CodePipeline.

Type: [AWSSessionCredentials \(p. 104\)](#) object

Required: No

continuationToken

A system-generated token, such as a AWS CodeDeploy deployment ID, that a job requires in order to continue the job asynchronously.

Type: String

Required: No

encryptionKey

Represents information about the key used to encrypt data in the artifact store, such as an AWS Key Management Service (AWS KMS) key.

Type: [EncryptionKey \(p. 107\)](#) object

Required: No

inputArtifacts

The artifact supplied to the job.

Type: array of [Artifact \(p. 99\)](#) objects

Required: No

outputArtifacts

The output of the job.

Type: array of [Artifact \(p. 99\)](#) objects

Required: No

pipelineContext

Represents information about a pipeline to a job worker.

Type: [PipelineContext \(p. 116\)](#) object

Required: No

JobDetails

Represents information about the details of a job.

Contents

accountId

The AWS account ID associated with the job.

Type: String

Pattern: [0-9]{12}

Required: No

data

Represents additional information about a job required for a job worker to complete the job.

Type: [JobData](#) (p. 113) object

Required: No

id

The unique system-generated ID of the job.

Type: String

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: No

OutputArtifact

Represents information about the output of an action.

Contents

name

The name of the output of an artifact, such as "My App".

The input artifact of an action must exactly match the output artifact declared in a preceding action, but the input artifact does not have to be the next action in strict sequence from the action that provided the output artifact. Actions in parallel can declare different output artifacts, which are in turn consumed by different following actions.

Output artifact names must be unique within a pipeline.

Type: String

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

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

Required: Yes

PipelineContext

Represents information about a pipeline to a job worker.

Contents

action

Represents the context of an action within the stage of a pipeline to a job worker.

Type: [ActionContext \(p. 89\)](#) object

Required: No

pipelineName

The name of the pipeline. This is a user-specified value. Pipeline names must be unique across all pipeline names under an Amazon Web Services account.

Type: String

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

Pattern: [A-Za-z0-9.\@_]+

Required: No

stage

The stage of the pipeline.

Type: [StageContext \(p. 121\)](#) object

Required: No

PipelineDeclaration

Represents the structure of actions and stages to be performed in the pipeline.

Contents

artifactStore

The Amazon S3 location where artifacts are stored for the pipeline. If this Amazon S3 bucket is created manually, it must meet the requirements for AWS CodePipeline. For more information, see the [Concepts](#).

Type: [ArtifactStore](#) (p. 103) object

Required: Yes

name

The name of the action to be performed.

Type: String

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

Pattern: [A-Za-z0-9.\@_]+

Required: Yes

roleArn

The Amazon Resource Name (ARN) for AWS CodePipeline to use to either perform actions with no actionRoleArn, or to use to assume roles for actions with an actionRoleArn.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: arn:aws(-[\w]+)*:iam::[0-9]{12}:role/.*

Required: Yes

stages

The stage in which to perform the action.

Type: array of [StageDeclaration](#) (p. 122) objects

Required: Yes

version

The version number of the pipeline. A new pipeline always has a version number of 1. This number is automatically incremented when a pipeline is updated.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

PipelineExecution

Represents information about an execution of a pipeline.

Contents

artifactRevisions

A list of ArtifactRevision objects included in a pipeline execution.

Type: array of [ArtifactRevision](#) (p. 102) objects

Required: No

pipelineExecutionId

The ID of the pipeline execution.

Type: String

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: No

pipelineName

The name of the pipeline that was executed.

Type: String

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

Pattern: [A-Za-z0-9.\@_]+

Required: No

pipelineVersion

The version number of the pipeline that was executed.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

status

The status of the pipeline execution.

- **InProgress**: The pipeline execution is currently running.
- **Succeeded**: The pipeline execution completed successfully.
- **Superseded**: While this pipeline execution was waiting for the next stage to be completed, a newer pipeline execution caught up and continued through the pipeline instead.
- **Failed**: The pipeline did not complete successfully.

Type: String

Valid Values: `InProgress` | `Succeeded` | `Superseded` | `Failed`

Required: No

PipelineSummary

Returns a summary of a pipeline.

Contents

created

The date and time the pipeline was created, in timestamp format.

Type: Timestamp

Required: No

name

The name of the pipeline.

Type: String

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

Pattern: [A-Za-z0-9.\@\-_]+

Required: No

updated

The date and time of the last update to the pipeline, in timestamp format.

Type: Timestamp

Required: No

version

The version number of the pipeline.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

S3ArtifactLocation

The location of the Amazon S3 bucket that contains a revision.

Contents

bucketName

The name of the Amazon S3 bucket.

Type: String

Required: Yes

objectKey

The key of the object in the Amazon S3 bucket, which uniquely identifies the object in the bucket.

Type: String

Required: Yes

StageContext

Represents information about a stage to a job worker.

Contents

name

The name of the stage.

Type: String

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

Pattern: [A-Za-z0-9.\@_]+

Required: No

StageDeclaration

Represents information about a stage and its definition.

Contents

actions

The actions included in a stage.

Type: array of [ActionDeclaration \(p. 90\)](#) objects

Required: Yes

blockers

Reserved for future use.

Type: array of [BlockerDeclaration \(p. 105\)](#) objects

Required: No

name

The name of the stage.

Type: String

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

Pattern: [A-Za-z0-9.\@_]+

Required: Yes

StageExecution

Represents information about the run of a stage.

Contents

pipelineExecutionId

The ID of the pipeline execution associated with the stage.

Type: String

Pattern: [0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

status

The status of the stage, or for a completed stage, the last status of the stage.

Type: String

Valid Values: `InProgress` | `Failed` | `Succeeded`

Required: Yes

StageState

Represents information about the state of the stage.

Contents

actionStates

The state of the stage.

Type: array of [ActionState \(p. 94\)](#) objects

Required: No

inboundTransitionState

The state of the inbound transition, which is either enabled or disabled.

Type: [TransitionState \(p. 128\)](#) object

Required: No

latestExecution

Information about the latest execution in the stage, including its ID and status.

Type: [StageExecution \(p. 123\)](#) object

Required: No

stageName

The name of the stage.

Type: String

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

Pattern: [A-Za-z0-9.\@_]+

Required: No

ThirdPartyJob

A response to a `PollForThirdPartyJobs` request returned by AWS CodePipeline when there is a job to be worked upon by a partner action.

Contents

clientId

The `clientToken` portion of the `clientId` and `clientToken` pair used to verify that the calling entity is allowed access to the job and its details.

Type: String

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: No

jobId

The identifier used to identify the job in AWS CodePipeline.

Type: String

Pattern: `[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: No

ThirdPartyJobData

Represents information about the job data for a partner action.

Contents

actionConfiguration

Represents information about an action configuration.

Type: [ActionConfiguration \(p. 87\)](#) object

Required: No

actionTypeid

Represents information about an action type.

Type: [ActionTypeid \(p. 96\)](#) object

Required: No

artifactCredentials

Represents an AWS session credentials object. These credentials are temporary credentials that are issued by AWS Secure Token Service (STS). They can be used to access input and output artifacts in the Amazon S3 bucket used to store artifact for the pipeline in AWS CodePipeline.

Type: [AWSSessionCredentials \(p. 104\)](#) object

Required: No

continuationToken

A system-generated token, such as a AWS CodeDeploy deployment ID, that a job requires in order to continue the job asynchronously.

Type: String

Required: No

encryptionKey

The encryption key used to encrypt and decrypt data in the artifact store for the pipeline, such as an AWS Key Management Service (AWS KMS) key. This is optional and might not be present.

Type: [EncryptionKey \(p. 107\)](#) object

Required: No

inputArtifacts

The name of the artifact that will be worked upon by the action, if any. This name might be system-generated, such as "MyApp", or might be defined by the user when the action is created. The input artifact name must match the name of an output artifact generated by an action in an earlier action or stage of the pipeline.

Type: array of [Artifact \(p. 99\)](#) objects

Required: No

outputArtifacts

The name of the artifact that will be the result of the action, if any. This name might be system-generated, such as "MyBuiltApp", or might be defined by the user when the action is created.

Type: array of [Artifact \(p. 99\)](#) objects

Required: No

pipelineContext

Represents information about a pipeline to a job worker.

Type: [PipelineContext \(p. 116\)](#) object

Required: No

ThirdPartyJobDetails

The details of a job sent in response to a `GetThirdPartyJobDetails` request.

Contents

data

The data to be returned by the third party job worker.

Type: [ThirdPartyJobData](#) (p. 126) object

Required: No

id

The identifier used to identify the job details in AWS CodePipeline.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

nonce

A system-generated random number that AWS CodePipeline uses to ensure that the job is being worked on by only one job worker. Use this number in an [AcknowledgeThirdPartyJob](#) (p. 6) request.

Type: String

Required: No

TransitionState

Represents information about the state of transitions between one stage and another stage.

Contents

disabledReason

The user-specified reason why the transition between two stages of a pipeline was disabled.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 300.

Pattern: [a-zA-Z0-9!@ \(\)\. *\? \-]+

Required: No

enabled

Whether the transition between stages is enabled (true) or disabled (false).

Type: Boolean

Required: No

lastChangedAt

The timestamp when the transition state was last changed.

Type: Timestamp

Required: No

lastChangedBy

The ID of the user who last changed the transition state.

Type: String

Required: No

Common Parameters

The following table lists the parameters that all actions use for signing Signature Version 4 requests. Any action-specific parameters are listed in the topic for that action. To view sample requests, see [Examples of Signed Signature Version 4 Requests](#) or [Signature Version 4 Test Suite](#) in the *Amazon Web Services General Reference*.

Action

The action to be performed.

Type: string

Required: Yes

Version

The API version that the request is written for, expressed in the format YYYY-MM-DD.

Type: string

Required: Yes

X-Amz-Algorithm

The hash algorithm that you used to create the request signature.

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

Type: string

Valid Values: `AWS4-HMAC-SHA256`

Required: Conditional

X-Amz-Credential

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4_request"). The value is expressed in the following format: `access_key/YYYYMMDD/region/service/aws4_request`.

For more information, see [Task 2: Create a String to Sign for Signature Version 4](#) in the *Amazon Web Services General Reference*.

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

Type: string

Required: Conditional

X-Amz-Date

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

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see [Handling Dates in Signature Version 4](#) in the *Amazon Web Services General Reference*.

Type: string

Required: Conditional

X-Amz-Security-Token

The temporary security token that was obtained through a call to AWS Security Token Service. For a list of services that support AWS Security Token Service, go to [Using Temporary Security Credentials to Access AWS](#) in *Using Temporary Security Credentials*.

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

Type: string

Required: Conditional

X-Amz-Signature

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

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

Type: string

Required: Conditional

X-Amz-SignedHeaders

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see [Task 1: Create a Canonical Request For Signature Version 4](#) in the *Amazon Web Services General Reference*.

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

Type: string

Required: Conditional

Common Errors

This section lists the common errors that all actions return. Any action-specific errors are listed in the topic for the action.

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 400

InternalFailure

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

HTTP Status Code: 500

InvalidAction

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

HTTP Status Code: 400

InvalidClientTokenId

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

HTTP Status Code: 403

InvalidParameterCombination

Parameters that must not be used together were used together.

HTTP Status Code: 400

InvalidParameterValue

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

InvalidQueryParameter

The AWS query string is malformed or does not adhere to AWS standards.

HTTP Status Code: 400

MalformedQueryString

The query string contains a syntax error.

HTTP Status Code: 404

MissingAction

The request is missing an action or a required parameter.

HTTP Status Code: 400

MissingAuthenticationToken

The request must contain either a valid (registered) AWS access key ID or X.509 certificate.

HTTP Status Code: 403

MissingParameter

A required parameter for the specified action is not supplied.

HTTP Status Code: 400

OptInRequired

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

HTTP Status Code: 403

RequestExpired

The request reached the service more than 15 minutes after the date stamp on the request or more than 15 minutes after the request expiration date (such as for pre-signed URLs), or the date stamp on the request is more than 15 minutes in the future.

HTTP Status Code: 400

ServiceUnavailable

The request has failed due to a temporary failure of the server.

HTTP Status Code: 503

Throttling

The request was denied due to request throttling.

HTTP Status Code: 400

ValidationError

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

HTTP Status Code: 400