# AWS Cloud Control API Welcome API Version 2021-09-30



## **AWS Cloud Control API: Welcome**

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# **Table of Contents**

	-ID
Cance	elResourceRequest
	Request Syntax
	Request Parameters
	Response Syntax
	Response Elements
	Errors
	See Also
Creat	eResource
	Request Syntax
	Request Parameters
	Response Syntax
	Response Elements
	Errors
	Examples
	See Also
Delet	eResource
שטטט	Request Syntax
	Request Parameters
	Response Syntax
	Response Elements
	•
	Errors
C 1D	See Also
GetRe	esource
	Request Syntax
	Request Parameters
	Response Syntax
	Response Elements
	Errors
	Examples
	See Also
GetRe	esourceRequestStatus
	Request Syntax
	Request Parameters
	Response Syntax
	Response Elements
	Errors
	Examples
	See Also
ListRe	esourceRequests
	Request Syntax
	Request Parameters
	Response Syntax
	Response Elements
	Errors
	Examples
	See Also
Lic+D/	esources
LISTK	
	Request Syntax
	Request Parameters
	Response Syntax
	Response Elements
	Frrors

## AWS Cloud Control API Welcome

Examples	32	
See Also	33	
UpdateResource		
Request Syntax	34	
Request Parameters		
Response Syntax		
Response Elements		
Errors		
Examples		
See Also		
ata Types		
ProgressEvent		
Contents		
See Also		
ResourceDescription		
Contents		
See Also		
ResourceRequestStatusFilter		
Contents		
See Also		
ommon Parameters		
Common Frrors		

# Welcome

Use AWS Cloud Control API to create, read, update, delete, and list (CRUD-L) your cloud resources that belong to a wide range of services--both AWS and third-party. With the Cloud Control API standardized set of application programming interfaces (APIs), you can perform CRUD-L operations on any supported resources in your AWS account. Using Cloud Control API, you won't have to generate code or scripts specific to each individual service responsible for those resources.

For more information about AWS Cloud Control API, see the AWS Cloud Control API User Guide.

This document was last published on October 6, 2021.

# **Actions**

## The following actions are supported:

- CancelResourceRequest (p. 3)
- CreateResource (p. 5)
- DeleteResource (p. 11)
- GetResource (p. 16)
- GetResourceRequestStatus (p. 21)
- ListResourceRequests (p. 24)
- ListResources (p. 28)
- UpdateResource (p. 34)

# CancelResourceRequest

Cancels the specified resource operation request. For more information, see Canceling resource operation requests in the AWS Cloud Control API User Guide.

Only resource operations requests with a status of PENDING or IN\_PROGRESS can be cancelled.

## Request Syntax

```
{
    "RequestToken": "string"
}
```

## **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 46).

The request accepts the following data in JSON format.

## RequestToken (p. 3)

The RequestToken of the ProgressEvent object returned by the resource operation request.

Type: String

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

Pattern: [-A-Za-z0-9+/=]+

Required: Yes

## Response Syntax

```
{
    "ProgressEvent": {
        "ErrorCode": "string",
        "Identifier": "number,
        "Identifier": "string",
        "Operation": "string",
        "OperationStatus": "string",
        "RequestToken": "string",
        "ResourceModel": "string",
        "RetryAfter": number,
        "StatusMessage": "string",
        "TypeName": "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.

#### AWS Cloud Control API Welcome Errors

### ProgressEvent (p. 3)

Represents the current status of a resource operation request. For more information, see Managing resource operation requests in the AWS Cloud Control API User Guide.

Type: ProgressEvent (p. 41) object

## **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 48).

#### ConcurrentModificationException

The resource is currently being modified by another operation.

HTTP Status Code: 400

#### RequestTokenNotFoundException

A resource operation with the specified request token cannot be found.

HTTP Status Code: 400

## See Also

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

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

## CreateResource

Creates the specified resource. For more information, see Creating a resource in the AWS Cloud Control API User Guide.

After you have initiated a resource creation request, you can monitor the progress of your request by calling GetResourceRequestStatus using the RequestToken of the ProgressEvent type returned by CreateResource.

## Request Syntax

```
{
    "ClientToken": "string",
    "DesiredState": "string",
    "RoleArn": "string",
    "TypeName": "string",
    "TypeVersionId": "string"
}
```

## Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 46).

The request accepts the following data in JSON format.

#### ClientToken (p. 5)

A unique identifier to ensure the idempotency of the resource request. As a best practice, specify this token to ensure idempotency, so that AWS Cloud Control API can accurately distinguish between request retries and new resource requests. You might retry a resource request to ensure that it was successfully received.

A client token is valid for 36 hours once used. After that, a resource request with the same client token is treated as a new request.

If you do not specify a client token, one is generated for inclusion in the request.

For more information, see Ensuring resource operation requests are unique in the AWS Cloud Control API User Guide.

Type: String

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

```
Pattern: [-A-Za-z0-9+/=]+
```

# Required: No DesiredState (p. 5)

Structured data format representing the desired state of the resource, consisting of that resource's properties and their desired values.

## Note

Cloud Control API currently supports JSON as a structured data format.

Specify the desired state as one of the following:

A JSON blob

· A local path containing the desired state in JSON data format

For more information, see Composing the desired state of the resource in the AWS Cloud Control API User Guide.

For more information about the properties of a specific resource, refer to the related topic for the resource in the Resource and property types reference in the AWS CloudFormation Users Guide.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 16384.

Pattern: (.|\s)\*
Required: Yes

## RoleArn (p. 5)

The Amazon Resource Name (ARN) of the AWS Identity and Access Management (IAM) for Cloud Control API to use when performing this resource operation. The role specified must have the permissions required for this operation. The necessary permissions for each event handler are defined in the <a href="handlers">handlers</a> section of the resource type definition schema.

If you do not specify a role, Cloud Control API uses a temporary session created using your AWS user credentials.

For more information, see Specifying credentials in the AWS Cloud Control API User Guide.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: arn:.+:iam::[0-9]{12}:role/.+

Required: No

#### TypeName (p. 5)

The name of the resource type.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 196.

Pattern:  $[A-Za-z0-9]{2,64}$ ::  $[A-Za-z0-9]{2,64}$ ::  $[A-Za-z0-9]{2,64}$ 

Required: Yes

#### TypeVersionId (p. 5)

For private resource types, the type version to use in this resource operation. If you do not specify a resource version, CloudFormation uses the default version.

Type: String

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

Pattern: [A-Za-z0-9-]+

Required: No

## Response Syntax

{

## AWS Cloud Control API Welcome Response Elements

```
"ProgressEvent": {
    "ErrorCode": "string",
    "EventTime": number,
    "Identifier": "string",
    "Operation": "string",
    "OperationStatus": "string",
    "RequestToken": "string",
    "ResourceModel": "string",
    "RetryAfter": number,
    "StatusMessage": "string",
    "TypeName": "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.

## ProgressEvent (p. 6)

Represents the current status of the resource creation request.

After you have initiated a resource creation request, you can monitor the progress of your request by calling <a href="mailto:GetResourceRequestStatus">GetResourceRequestStatus</a> using the <a href="mailto:RequestToken">RequestToken</a> of the <a href="mailto:ProgressEvent">ProgressEvent</a> returned by <a href="mailto:CreateResource">CreateResource</a>.

Type: ProgressEvent (p. 41) object

## **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 48).

## AlreadyExistsException

The resource with the name requested already exists.

HTTP Status Code: 400

#### ClientTokenConflictException

The specified client token has already been used in another resource request.

It is best practice for client tokens to be unique for each resource operation request. However, client token expire after 36 hours.

HTTP Status Code: 400

#### ConcurrentOperationException

Another resource operation is currently being performed on this resource.

HTTP Status Code: 400

## GeneralServiceException

The resource handler has returned that the downstream service generated an error that does not map to any other handler error code.

HTTP Status Code: 400

#### AWS Cloud Control API Welcome Frrors

#### HandlerFailureException

The resource handler has failed without a returning a more specific error code. This can include timeouts.

HTTP Status Code: 400

#### HandlerInternalFailureException

The resource handler has returned that an unexpected error occurred within the resource handler.

HTTP Status Code: 400
InvalidCredentialsException

The resource handler has returned that the credentials provided by the user are invalid.

HTTP Status Code: 400

## InvalidRequestException

The resource handler has returned that invalid input from the user has generated a generic exception.

HTTP Status Code: 400 NetworkFailureException

The resource handler has returned that the request could not be completed due to networking issues, such as a failure to receive a response from the server.

HTTP Status Code: 400

#### NotStabilizedException

The resource handler has returned that the downstream resource failed to complete all of its readystate checks.

HTTP Status Code: 400

## NotUpdatableException

One or more properties included in this resource operation are defined as create-only, and therefore cannot be updated.

HTTP Status Code: 400

## PrivateTypeException

Cloud Control API has not received a valid response from the resource handler, due to a configuration error. This includes issues such as the resource handler returning an invalid response, or timing out.

HTTP Status Code: 400

## ResourceConflictException

The resource is temporarily unavailable to be acted upon. For example, if the resource is currently undergoing an operation and cannot be acted upon until that operation is finished.

HTTP Status Code: 400

#### ResourceNotFoundException

A resource with the specified identifier cannot be found.

HTTP Status Code: 400

#### ServiceInternalErrorException

The resource handler has returned that the downstream service returned an internal error, typically with a 5XX HTTP status code.

HTTP Status Code: 400
ServiceLimitExceededException

The resource handler has returned that a non-transient resource limit was reached on the service side.

HTTP Status Code: 400

## **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 400 TypeNotFoundException

The specified extension does not exist in the CloudFormation registry.

HTTP Status Code: 400
UnsupportedActionException

The specified resource does not support this resource operation.

HTTP Status Code: 400

## **Examples**

## CreateResource

The following example creates a resource of type AWS::Logs::LogGroup named LogGroupResourceExample and with a retention policy of 90 days.

## Sample Request

```
https://cloudcontrolapi.us-east-1.amazonaws.com/
?Action=CreateResource
&TypeName=AWS::LogS::LogGroup
&DesiredState={"LogGroupName": "LogGroupResourceExample", "RetentionInDays":90}
&Version=2021-09-30
&X-Amz-Algorithm=AWS4-HMAC-SHA256
&X-Amz-Credential=[Access key ID and scope]
&X-Amz-Date=20160316T233349Z
&X-Amz-SignedHeaders=content-type;host
&X-Amz-Signature=[Signature]
```

## Sample Response

## AWS Cloud Control API Welcome See Also

## See Also

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

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

# DeleteResource

Deletes the specified resource. For details, see Deleting a resource in the AWS Cloud Control API User Guide.

After you have initiated a resource deletion request, you can monitor the progress of your request by calling GetResourceRequestStatus using the RequestToken of the ProgressEvent returned by DeleteResource.

## Request Syntax

```
{
    "ClientToken": "string",
    "Identifier": "string",
    "RoleArn": "string",
    "TypeName": "string",
    "TypeVersionId": "string"
}
```

## **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 46).

The request accepts the following data in JSON format.

```
ClientToken (p. 11)
```

A unique identifier to ensure the idempotency of the resource request. As a best practice, specify this token to ensure idempotency, so that AWS Cloud Control API can accurately distinguish between request retries and new resource requests. You might retry a resource request to ensure that it was successfully received.

A client token is valid for 36 hours once used. After that, a resource request with the same client token is treated as a new request.

If you do not specify a client token, one is generated for inclusion in the request.

For more information, see Ensuring resource operation requests are unique in the AWS Cloud Control API User Guide.

Type: String

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

```
Pattern: [-A-Za-z0-9+/=]+
```

Required: No Identifier (p. 11)

The identifier for the resource.

You can specify the primary identifier, or any secondary identifier defined for the resource type in its resource schema. You can only specify one identifier. Primary identifiers can be specified as a string or JSON; secondary identifiers must be specified as JSON.

## AWS Cloud Control API Welcome Response Syntax

For compound primary identifiers (that is, one that consists of multiple resource properties strung together), to specify the primary identifier as a string, list the property values *in the order they are specified* in the primary identifier definition, separated by |.

For more information, see Identifying resources in the AWS Cloud Control API User Guide.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: .+

Required: Yes

RoleArn (p. 11)

The Amazon Resource Name (ARN) of the AWS Identity and Access Management (IAM) for Cloud Control API to use when performing this resource operation. The role specified must have the permissions required for this operation. The necessary permissions for each event handler are defined in the <a href="handlers">handlers</a> section of the resource type definition schema.

If you do not specify a role, Cloud Control API uses a temporary session created using your AWS user credentials.

For more information, see Specifying credentials in the AWS Cloud Control API User Guide.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: arn: .+:iam::[0-9]{12}:role/.+

Required: No TypeName (p. 11)

The name of the resource type.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 196.

Pattern:  $[A-Za-z0-9]{2,64}$ ::  $[A-Za-z0-9]{2,64}$ ::  $[A-Za-z0-9]{2,64}$ 

Required: Yes

TypeVersionId (p. 11)

For private resource types, the type version to use in this resource operation. If you do not specify a resource version, CloudFormation uses the default version.

Type: String

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

Pattern: [A-Za-z0-9-]+

Required: No

## Response Syntax

{

## AWS Cloud Control API Welcome Response Elements

```
"ProgressEvent": {
    "ErrorCode": "string",
    "EventTime": number,
    "Identifier": "string",
    "Operation": "string",
    "RequestToken": "string",
    "ResourceModel": "string",
    "RetryAfter": number,
    "StatusMessage": "string",
    "TypeName": "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.

## ProgressEvent (p. 12)

Represents the current status of the resource deletion request.

After you have initiated a resource deletion request, you can monitor the progress of your request by calling GetResourceRequestStatus using the RequestToken of the ProgressEvent returned by DeleteResource.

Type: ProgressEvent (p. 41) object

## **Frrors**

For information about the errors that are common to all actions, see Common Errors (p. 48).

## AlreadyExistsException

The resource with the name requested already exists.

HTTP Status Code: 400

## ${\bf Client Token Conflict Exception}$

The specified client token has already been used in another resource request.

It is best practice for client tokens to be unique for each resource operation request. However, client token expire after 36 hours.

HTTP Status Code: 400

#### ConcurrentOperationException

Another resource operation is currently being performed on this resource.

HTTP Status Code: 400

## GeneralServiceException

The resource handler has returned that the downstream service generated an error that does not map to any other handler error code.

HTTP Status Code: 400

#### AWS Cloud Control API Welcome Errors

#### HandlerFailureException

The resource handler has failed without a returning a more specific error code. This can include timeouts.

HTTP Status Code: 400

#### HandlerInternalFailureException

The resource handler has returned that an unexpected error occurred within the resource handler.

HTTP Status Code: 400
InvalidCredentialsException

The resource handler has returned that the credentials provided by the user are invalid.

HTTP Status Code: 400

## InvalidRequestException

The resource handler has returned that invalid input from the user has generated a generic exception.

HTTP Status Code: 400

#### NetworkFailureException

The resource handler has returned that the request could not be completed due to networking issues, such as a failure to receive a response from the server.

HTTP Status Code: 400

#### NotStabilizedException

The resource handler has returned that the downstream resource failed to complete all of its readystate checks.

HTTP Status Code: 400

## NotUpdatableException

One or more properties included in this resource operation are defined as create-only, and therefore cannot be updated.

HTTP Status Code: 400

## PrivateTypeException

Cloud Control API has not received a valid response from the resource handler, due to a configuration error. This includes issues such as the resource handler returning an invalid response, or timing out.

HTTP Status Code: 400

## ResourceConflictException

The resource is temporarily unavailable to be acted upon. For example, if the resource is currently undergoing an operation and cannot be acted upon until that operation is finished.

HTTP Status Code: 400

#### ResourceNotFoundException

A resource with the specified identifier cannot be found.

HTTP Status Code: 400

## AWS Cloud Control API Welcome See Also

#### ServiceInternalErrorException

The resource handler has returned that the downstream service returned an internal error, typically with a 5XX HTTP status code.

HTTP Status Code: 400
ServiceLimitExceededException

The resource handler has returned that a non-transient resource limit was reached on the service side.

HTTP Status Code: 400

## ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400 TypeNotFoundException

The specified extension does not exist in the CloudFormation registry.

HTTP Status Code: 400

## UnsupportedActionException

The specified resource does not support this resource operation.

HTTP Status Code: 400

## See Also

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

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

# GetResource

Returns information about the current state of the specified resource. For details, see Reading a resource's current state.

You can use this action to return information about an existing resource in your account and AWS Region, whether or not those resources were provisioned using Cloud Control API.

## Request Syntax

```
{
  "Identifier": "string",
  "RoleArn": "string",
  "TypeName": "string",
  "TypeVersionId": "string"
}
```

## **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 46).

The request accepts the following data in JSON format.

#### Identifier (p. 16)

The identifier for the resource.

You can specify the primary identifier, or any secondary identifier defined for the resource type in its resource schema. You can only specify one identifier. Primary identifiers can be specified as a string or JSON; secondary identifiers must be specified as JSON.

For compound primary identifiers (that is, one that consists of multiple resource properties strung together), to specify the primary identifier as a string, list the property values *in the order they are specified* in the primary identifier definition, separated by |.

For more information, see Identifying resources in the AWS Cloud Control API User Guide.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: .+

Required: Yes

RoleArn (p. 16)

The Amazon Resource Name (ARN) of the AWS Identity and Access Management (IAM) for Cloud Control API to use when performing this resource operation. The role specified must have the permissions required for this operation. The necessary permissions for each event handler are defined in the <a href="handlers">handlers</a> section of the resource type definition schema.

If you do not specify a role, Cloud Control API uses a temporary session created using your AWS user credentials.

For more information, see Specifying credentials in the AWS Cloud Control API User Guide.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

```
Pattern: arn: .+:iam::[0-9]{12}:role/.+
```

Required: No

#### TypeName (p. 16)

The name of the resource type.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 196.

```
Pattern: [A-Za-z0-9]{2,64}::[A-Za-z0-9]{2,64}::[A-Za-z0-9]{2,64}
```

Required: Yes

#### TypeVersionId (p. 16)

For private resource types, the type version to use in this resource operation. If you do not specify a resource version, CloudFormation uses the default version.

Type: String

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

Pattern: [A-Za-z0-9-]+

Required: No

## Response Syntax

```
{
    "ResourceDescription": {
        "Identifier": "string",
        "Properties": "string"
    },
    "TypeName": "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.

## ResourceDescription (p. 17)

Represents information about a provisioned resource.

```
Type: ResourceDescription (p. 44) object
```

## TypeName (p. 17)

The name of the resource type.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 196.

#### AWS Cloud Control API Welcome Errors

Pattern:  $[A-Za-z0-9]{2,64}::[A-Za-z0-9]{2,64}::[A-Za-z0-9]{2,64}$ 

## **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 48).

### AlreadyExistsException

The resource with the name requested already exists.

HTTP Status Code: 400

## GeneralServiceException

The resource handler has returned that the downstream service generated an error that does not map to any other handler error code.

HTTP Status Code: 400
HandlerFailureException

The resource handler has failed without a returning a more specific error code. This can include timeouts.

HTTP Status Code: 400

## HandlerInternalFailureException

The resource handler has returned that an unexpected error occurred within the resource handler.

HTTP Status Code: 400
InvalidCredentialsException

The resource handler has returned that the credentials provided by the user are invalid.

HTTP Status Code: 400

Invalid Request Exception

The resource handler has returned that invalid input from the user has generated a generic exception.

HTTP Status Code: 400
NetworkFailureException

The resource handler has returned that the request could not be completed due to networking issues, such as a failure to receive a response from the server.

HTTP Status Code: 400

## NotStabilizedException

The resource handler has returned that the downstream resource failed to complete all of its readystate checks.

HTTP Status Code: 400

## NotUpdatableException

One or more properties included in this resource operation are defined as create-only, and therefore cannot be updated.

HTTP Status Code: 400

# AWS Cloud Control API Welcome Examples

#### PrivateTypeException

Cloud Control API has not received a valid response from the resource handler, due to a configuration error. This includes issues such as the resource handler returning an invalid response, or timing out.

HTTP Status Code: 400
ResourceConflictException

The resource is temporarily unavailable to be acted upon. For example, if the resource is currently undergoing an operation and cannot be acted upon until that operation is finished.

HTTP Status Code: 400
ResourceNotFoundException

A resource with the specified identifier cannot be found.

HTTP Status Code: 400
ServiceInternalErrorException

The resource handler has returned that the downstream service returned an internal error, typically with a 5XX HTTP status code.

HTTP Status Code: 400
ServiceLimitExceededException

The resource handler has returned that a non-transient resource limit was reached on the service side.

HTTP Status Code: 400

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

TypeNotFoundException

The specified extension does not exist in the CloudFormation registry.

HTTP Status Code: 400
UnsupportedActionException

The specified resource does not support this resource operation.

HTTP Status Code: 400

## **Examples**

## **GetResource**

The following example uses the type name and primary identifier of a resource to return summary information about the resource.

Sample Request

#### AWS Cloud Control API Welcome See Also

```
https://cloudcontrolapi.us-east-1.amazonaws.com/
?Action=GetResource
&TypeName=AWS::Logs::LogGroup
&Identifier=LogGroupResourceExample
&Version=2021-09-30
&X-Amz-Algorithm=AWS4-HMAC-SHA256
&X-Amz-Credential=[Access key ID and scope]
&X-Amz-Date=20160316T233349Z
&X-Amz-SignedHeaders=content-type;host
&X-Amz-Signature=[Signature]
```

## Sample Response

## See Also

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

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

# GetResourceRequestStatus

Returns the current status of a resource operation request. For more information, see Tracking the progress of resource operation requests in the AWS Cloud Control API User Guide.

## Request Syntax

```
{
    "RequestToken": "string"
}
```

## **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 46).

The request accepts the following data in JSON format.

## RequestToken (p. 21)

A unique token used to track the progress of the resource operation request.

Request tokens are included in the ProgressEvent type returned by a resource operation request.

Type: String

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

Pattern: [-A-Za-z0-9+/=]+

Required: Yes

## Response Syntax

```
{
    "ProgressEvent": {
        "ErrorCode": "string",
        "Identifier": "number,
        "Identifier": "string",
        "Operation": "string",
        "OperationStatus": "string",
        "RequestToken": "string",
        "ResourceModel": "string",
        "RetryAfter": number,
        "StatusMessage": "string",
        "TypeName": "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.

#### ProgressEvent (p. 21)

Represents the current status of the resource operation request.

Type: ProgressEvent (p. 41) object

## **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 48).

#### RequestTokenNotFoundException

A resource operation with the specified request token cannot be found.

HTTP Status Code: 400

## **Examples**

## GetResourceRequestStatus

The following example returns the successful completion status of the specified resource creation operation.

## Sample Request

```
https://cloudcontrolapi.us-east-1.amazonaws.com/
?Action=GetResourceRequestStatus
&RequestToken=b4a1cc5a-a2ae-4dec-9e1e-150123456789
&Version=2021-09-30
&X-Amz-Algorithm=AWS4-HMAC-SHA256
&X-Amz-Credential=[Access key ID and scope]
&X-Amz-Date=20160316T233349Z
&X-Amz-SignedHeaders=content-type;host
&X-Amz-Signature=[Signature]
```

## Sample Response

```
<GetResourceRequestStatusResponse xmlns="http://cloudcontrol.amazonaws.com/</pre>
doc/2021-09-30/">
  <GetResourceRequestStatusResult>
   <ProgressEvent>
      <Identifier>LogGroupResourceExample</Identifier>
      <OperationStatus>SUCCESS</OperationStatus>
      <EventTime>2021-07-27T18:52:57.406Z</EventTime>
      <TypeName>AWS::Logs::LogGroup</TypeName>
      <RequestToken>b4a1cc5a-a2ae-4dec-9e1e-150123456789</RequestToken>
      <Operation>CREATE
   </ProgressEvent>
 </GetResourceRequestStatusResult>
  <ResponseMetadata>
   <RequestId>620e5d19-0c03-4069-ae3b-9e0123456789</RequestId>
  </ResponseMetadata>
</GetResourceRequestStatusResponse>
```

## See Also

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

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

# ListResourceRequests

Returns existing resource operation requests. This includes requests of all status types. For more information, see Listing active resource operation requests in the AWS Cloud Control API User Guide.

#### Note

Resource operation requests expire after seven days.

## Request Syntax

```
{
  "MaxResults": number,
  "NextToken": "string",
  "ResourceRequestStatusFilter": {
      "Operations": [ "string" ],
      "OperationStatuses": [ "string" ]
}
}
```

## **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 46).

The request accepts the following data in JSON format.

#### MaxResults (p. 24)

The maximum number of results to be returned with a single call. If the number of available results exceeds this maximum, the response includes a NextToken value that you can assign to the NextToken request parameter to get the next set of results.

The default is 20.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No NextToken (p. 24)

If the previous paginated request didn't return all of the remaining results, the response object's NextToken parameter value is set to a token. To retrieve the next set of results, call this action again and assign that token to the request object's NextToken parameter. If there are no remaining results, the previous response object's NextToken parameter is set to null.

Type: String

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

Pattern: [-A-Za-z0-9+/=]+

Required: No

ResourceRequestStatusFilter (p. 24)

The filter criteria to apply to the requests returned.

Type: ResourceRequestStatusFilter (p. 45) object

Required: No

## Response Syntax

## **Response Elements**

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

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

## NextToken (p. 25)

If the request doesn't return all of the remaining results, NextToken is set to a token. To retrieve the next set of results, call ListResources again and assign that token to the request object's NextToken parameter. If the request returns all results, NextToken is set to null.

Type: String

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

```
Pattern: [-A-Za-z0-9+/=]+
```

ResourceRequestStatusSummaries (p. 25)

The requests that match the specified filter criteria.

Type: Array of ProgressEvent (p. 41) objects

## **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 48).

## Examples

## ListResourceRequests

The following example returns all current resource requests. In this case, this includes a successful create and update of a resource, in addition to a create operation that failed because a resource of the specified name already exists.

## Sample Request

```
https://cloudcontrolapi.us-east-1.amazonaws.com/
?Action=ListResourceRequests
&Version=2021-09-30
&X-Amz-Algorithm=AWS4-HMAC-SHA256
&X-Amz-Credential=[Access key ID and scope]
&X-Amz-Date=20160316T233349Z
&X-Amz-SignedHeaders=content-type;host
&X-Amz-Signature=[Signature]
```

## Sample Response

```
<ListResourceRequestsResponse xmlns="http://cloudcontrol.amazonaws.com/doc/2021-09-30/">
  <ListResourceRequestsResult>
    <RequestStatusSummaries>
      <member>
        <Identifier>LogGroupResourceExample2</Identifier>
        <OperationStatus>SUCCESS</OperationStatus>
        <TypeName>AWS::Logs::LogGroup</TypeName>
        <EventTime>2021-07-27T19:23:56.094Z</EventTime>
        <RequestToken>6233b409-a77d-4125-85ee-fd0123456789/RequestToken>
        <Operation>UPDATE
      </member>
      <member>
        <Identifier>LogGroupResourceExample2</Identifier>
       <OperationStatus>SUCCESS</OperationStatus>
        <TypeName>AWS::Logs::LogGroup</TypeName>
        <EventTime>2021-07-27T18:01:42.788Z</EventTime>
        <RequestToken>71d8afe7-7e83-4136-92f6-420123456789/RequestToken>
        <Operation>CREATE
      </member>
      <member>
        <Identifier>LogGroupResourceExample</Identifier>
        <OperationStatus>SUCCESS</OperationStatus>
        <TypeName>AWS::Logs::LogGroup</TypeName>
       <EventTime>2021-07-27T18:52:57.406Z</EventTime>
        <RequestToken>b4a1cc5a-a2ae-4dec-9e1e-150123456789</RequestToken>
        <Operation>CREATE</Operation>
      </member>
      <member>
       <Identifier>LogGroupResourceExample2</Identifier>
        <OperationStatus>FAILED
        <TypeName>AWS::Logs::LogGroup</TypeName>
        <EventTime>2021-07-27T18:07:17.005Z</EventTime>
        <ErrorCode>AlreadyExists</ErrorCode>
        <RequestToken>f2fcf5a1-7f17-4c7a-b67f-ab0123456789</RequestToken>
        <Operation>CREATE
        <StatusMessage>Resource of type 'AWS::Logs::LogGroup' with identifier '{"/
properties/LogGroupName":"LogGroupResourceExample2"}' already exists.</StatusMessage>
      </member>
    </RequestStatusSummaries>
  </ListResourceRequestsResult>
```

## Filtering ListResourceRequests

The following example returns only the current resource requests for create and update operations that have failed.

## Sample Request

```
https://cloudcontrolapi.us-east-1.amazonaws.com/
?Action=ListResourceRequests
&RequestStatusFilter.OperationStatuses.member.1=FAILED
&RequestStatusFilter.Operations.member.1=CREATE
&RequestStatusFilter.Operations.member.2=UPDATE
&Version=2021-09-30
&X-Amz-Algorithm=AWS4-HMAC-SHA256
&X-Amz-Credential=[Access key ID and scope]
&X-Amz-Date=20160316T233349Z
&X-Amz-SignedHeaders=content-type; host
&X-Amz-Signature=[Signature]
```

## Sample Response

```
<ListResourceRequestsResponse xmlns="http://cloudcontrol.amazonaws.com/doc/2021-09-30/">
  <ListResourceRequestsResult>
    <RequestStatusSummaries>
      <member>
        <Identifier>LogGroupResourceExample</Identifier>
        <OperationStatus>FAILED</OperationStatus>
        <EventTime>2021-07-27T18:07:17.005Z</EventTime>
        <TypeName>AWS::Logs::LogGroup</TypeName>
        <ErrorCode>AlreadyExists
        <RequestToken>f2fcf5a1-7f17-4c7a-b67f-ab0123456789/RequestToken>
        <Operation>CREATE
        <StatusMessage>Resource of type 'AWS::Logs::LogGroup' with identifier '{"/
properties/LogGroupName":"LogGroupResourceExample"}' already exists.</StatusMessage>
      </member>
    </RequestStatusSummaries>
  </ListResourceRequestsResult>
  <ResponseMetadata>
    <RequestId>34748e01-2885-4410-90a6-870123456789/RequestId>
  </ResponseMetadata>
</ListResourceRequestsResponse>
```

## See Also

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

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

## ListResources

Returns information about the specified resources. For more information, see Discovering resources in the AWS Cloud Control API User Guide.

You can use this action to return information about existing resources in your account and AWS Region, whether or not those resources were provisioned using Cloud Control API.

## Request Syntax

```
"MaxResults": number,
"NextToken": "string",
"ResourceModel": "string",
"RoleArn": "string",
"TypeName": "string",
"TypeVersionId": "string"
}
```

## **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 46).

The request accepts the following data in JSON format.

#### MaxResults (p. 28)

The maximum number of results to be returned with a single call. If the number of available results exceeds this maximum, the response includes a NextToken value that you can assign to the NextToken request parameter to get the next set of results.

The default is 20.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No NextToken (p. 28)

If the previous paginated request didn't return all of the remaining results, the response object's NextToken parameter value is set to a token. To retrieve the next set of results, call this action again and assign that token to the request object's NextToken parameter. If there are no remaining results, the previous response object's NextToken parameter is set to null.

Type: String

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

Pattern: .+

Required: No

ResourceModel (p. 28)

The resource model to use to select the resources to return.

## AWS Cloud Control API Welcome Response Syntax

Type: String

Length Constraints: Minimum length of 1. Maximum length of 16384.

Pattern: (.|\s)\*

Required: No

RoleArn (p. 28)

The Amazon Resource Name (ARN) of the AWS Identity and Access Management (IAM) for Cloud Control API to use when performing this resource operation. The role specified must have the permissions required for this operation. The necessary permissions for each event handler are defined in the <a href="handlers">handlers</a> section of the resource type definition schema.

If you do not specify a role, Cloud Control API uses a temporary session created using your AWS user credentials.

For more information, see Specifying credentials in the AWS Cloud Control API User Guide.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

```
Pattern: arn: .+:iam::[0-9]{12}:role/.+
```

Required: No

## TypeName (p. 28)

The name of the resource type.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 196.

```
Pattern: [A-Za-z0-9]{2,64}::[A-Za-z0-9]{2,64}::[A-Za-z0-9]{2,64}
```

Required: Yes

### TypeVersionId (p. 28)

For private resource types, the type version to use in this resource operation. If you do not specify a resource version, CloudFormation uses the default version.

Type: String

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

Pattern: [A-Za-z0-9-]+

Required: No

## Response Syntax

#### AWS Cloud Control API Welcome Response Elements

```
],
"TypeName": "string"
}
```

## **Response Elements**

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

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

## NextToken (p. 29)

If the request doesn't return all of the remaining results, NextToken is set to a token. To retrieve the next set of results, call ListResources again and assign that token to the request object's NextToken parameter. If the request returns all results, NextToken is set to null.

Type: String

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

Pattern: .+

#### ResourceDescriptions (p. 29)

Information about the specified resources, including primary identifier and resource model.

Type: Array of ResourceDescription (p. 44) objects

#### TypeName (p. 29)

The name of the resource type.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 196.

Pattern: [A-Za-z0-9]{2,64}::[A-Za-z0-9]{2,64}::[A-Za-z0-9]{2,64}

## **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 48).

## AlreadyExistsException

The resource with the name requested already exists.

HTTP Status Code: 400

#### GeneralServiceException

The resource handler has returned that the downstream service generated an error that does not map to any other handler error code.

HTTP Status Code: 400

## HandlerFailureException

The resource handler has failed without a returning a more specific error code. This can include timeouts.

HTTP Status Code: 400

#### AWS Cloud Control API Welcome Errors

#### HandlerInternalFailureException

The resource handler has returned that an unexpected error occurred within the resource handler.

HTTP Status Code: 400
InvalidCredentialsException

The resource handler has returned that the credentials provided by the user are invalid.

HTTP Status Code: 400
InvalidRequestException

The resource handler has returned that invalid input from the user has generated a generic exception.

HTTP Status Code: 400 NetworkFailureException

The resource handler has returned that the request could not be completed due to networking issues, such as a failure to receive a response from the server.

HTTP Status Code: 400
NotStabilizedException

The resource handler has returned that the downstream resource failed to complete all of its readystate checks.

HTTP Status Code: 400
NotUpdatableException

One or more properties included in this resource operation are defined as create-only, and therefore cannot be updated.

HTTP Status Code: 400

PrivateTypeException

Cloud Control API has not received a valid response from the resource handler, due to a configuration error. This includes issues such as the resource handler returning an invalid response, or timing out.

HTTP Status Code: 400 ResourceConflictException

The resource is temporarily unavailable to be acted upon. For example, if the resource is currently undergoing an operation and cannot be acted upon until that operation is finished.

HTTP Status Code: 400

ResourceNotFoundException

A resource with the specified identifier cannot be found.

HTTP Status Code: 400
ServiceInternalErrorException

The resource handler has returned that the downstream service returned an internal error, typically with a 5XX HTTP status code.

HTTP Status Code: 400

#### AWS Cloud Control API Welcome Examples

#### ServiceLimitExceededException

The resource handler has returned that a non-transient resource limit was reached on the service side.

HTTP Status Code: 400

## **ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 400

TypeNotFoundException

The specified extension does not exist in the CloudFormation registry.

HTTP Status Code: 400
UnsupportedActionException

The specified resource does not support this resource operation.

HTTP Status Code: 400

## **Examples**

## ListResources

The following example lists all resources of type AWS::Logs::LogGroup.

## Sample Request

```
https://cloudcontrolapi.us-east-1.amazonaws.com/
?Action=ListResources
&TypeName=AWS::LogS::LogGroup
&Version=2021-09-30
&X-Amz-Algorithm=AWS4-HMAC-SHA256
&X-Amz-Credential=[Access key ID and scope]
&X-Amz-Date=20160316T233349Z
&X-Amz-SignedHeaders=content-type;host
&X-Amz-Signature=[Signature]
```

## Sample Response

### AWS Cloud Control API Welcome See Also

### See Also

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

# **UpdateResource**

Updates the specified property values in the resource.

You specify your resource property updates as a list of patch operations contained in a JSON patch document that adheres to the *RFC 6902 - JavaScript Object Notation (JSON) Patch* standard.

For details on how Cloud Control API performs resource update operations, see Updating a resource in the AWS Cloud Control API User Guide.

After you have initiated a resource update request, you can monitor the progress of your request by calling GetResourceRequestStatus using the RequestToken of the ProgressEvent returned by UpdateResource.

For more information about the properties of a specific resource, refer to the related topic for the resource in the Resource and property types reference in the AWS CloudFormation Users Guide.

## Request Syntax

```
"ClientToken": "string",
  "Identifier": "string",
  "PatchDocument": "string",
  "RoleArn": "string",
  "TypeName": "string",
  "TypeVersionId": "string"
}
```

# **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 46).

The request accepts the following data in JSON format.

```
ClientToken (p. 34)
```

A unique identifier to ensure the idempotency of the resource request. As a best practice, specify this token to ensure idempotency, so that AWS Cloud Control API can accurately distinguish between request retries and new resource requests. You might retry a resource request to ensure that it was successfully received.

A client token is valid for 36 hours once used. After that, a resource request with the same client token is treated as a new request.

If you do not specify a client token, one is generated for inclusion in the request.

For more information, see Ensuring resource operation requests are unique in the AWS Cloud Control API User Guide.

Type: String

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

Pattern: [-A-Za-z0-9+/=]+

Required: No

### AWS Cloud Control API Welcome Request Parameters

### Identifier (p. 34)

The identifier for the resource.

You can specify the primary identifier, or any secondary identifier defined for the resource type in its resource schema. You can only specify one identifier. Primary identifiers can be specified as a string or JSON; secondary identifiers must be specified as JSON.

For compound primary identifiers (that is, one that consists of multiple resource properties strung together), to specify the primary identifier as a string, list the property values *in the order they are specified* in the primary identifier definition, separated by |.

For more information, see Identifying resources in the AWS Cloud Control API User Guide.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: .+

Required: Yes

#### PatchDocument (p. 34)

A JavaScript Object Notation (JSON) document listing the patch operations that represent the updates to apply to the current resource properties. For details, see Composing the patch document in the AWS Cloud Control API User Guide.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern:  $(.|\s)*$ 

Required: Yes RoleArn (p. 34)

The Amazon Resource Name (ARN) of the AWS Identity and Access Management (IAM) for Cloud Control API to use when performing this resource operation. The role specified must have the permissions required for this operation. The necessary permissions for each event handler are defined in the handlers section of the resource type definition schema.

If you do not specify a role, Cloud Control API uses a temporary session created using your AWS user credentials.

For more information, see Specifying credentials in the AWS Cloud Control API User Guide.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: arn: .+:iam::[0-9]{12}:role/.+

Required: No TypeName (p. 34)

The name of the resource type.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 196.

### AWS Cloud Control API Welcome Response Syntax

```
Pattern: [A-Za-z0-9]{2,64}::[A-Za-z0-9]{2,64}::[A-Za-z0-9]{2,64}

Required: Yes

TypeVersionId (p. 34)
```

For private resource types, the type version to use in this resource operation. If you do not specify a resource version, CloudFormation uses the default version.

Type: String

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

Pattern: [A-Za-z0-9-]+

Required: No

## Response Syntax

```
"ProgressEvent": {
    "ErrorCode": "string",
    "EventTime": number,
    "Identifier": "string",
    "Operation": "string",
    "OperationStatus": "string",
    "RequestToken": "string",
    "ResourceModel": "string",
    "RetryAfter": number,
    "StatusMessage": "string",
    "TypeName": "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.

```
ProgressEvent (p. 36)
```

Represents the current status of the resource update request.

Use the RequestToken of the ProgressEvent with GetResourceRequestStatus to return the current status of a resource operation request.

Type: ProgressEvent (p. 41) object

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 48).

### AlreadyExistsException

The resource with the name requested already exists.

#### AWS Cloud Control API Welcome Frrors

### ClientTokenConflictException

The specified client token has already been used in another resource request.

It is best practice for client tokens to be unique for each resource operation request. However, client token expire after 36 hours.

HTTP Status Code: 400

ConcurrentOperationException

Another resource operation is currently being performed on this resource.

HTTP Status Code: 400 GeneralServiceException

The resource handler has returned that the downstream service generated an error that does not map to any other handler error code.

HTTP Status Code: 400
HandlerFailureException

The resource handler has failed without a returning a more specific error code. This can include timeouts.

HTTP Status Code: 400

HandlerInternalFailureException

The resource handler has returned that an unexpected error occurred within the resource handler.

HTTP Status Code: 400
InvalidCredentialsException

The resource handler has returned that the credentials provided by the user are invalid.

HTTP Status Code: 400 InvalidRequestException

The resource handler has returned that invalid input from the user has generated a generic exception.

HTTP Status Code: 400 NetworkFailureException

The resource handler has returned that the request could not be completed due to networking issues, such as a failure to receive a response from the server.

HTTP Status Code: 400

NotStabilizedException

The resource handler has returned that the downstream resource failed to complete all of its readystate checks.

HTTP Status Code: 400

NotUpdatableException

One or more properties included in this resource operation are defined as create-only, and therefore cannot be updated.

### AWS Cloud Control API Welcome Examples

### PrivateTypeException

Cloud Control API has not received a valid response from the resource handler, due to a configuration error. This includes issues such as the resource handler returning an invalid response, or timing out.

HTTP Status Code: 400
ResourceConflictException

The resource is temporarily unavailable to be acted upon. For example, if the resource is currently undergoing an operation and cannot be acted upon until that operation is finished.

HTTP Status Code: 400
ResourceNotFoundException

A resource with the specified identifier cannot be found.

HTTP Status Code: 400 ServiceInternalErrorException

The resource handler has returned that the downstream service returned an internal error, typically with a 5XX HTTP status code.

HTTP Status Code: 400
ServiceLimitExceededException

The resource handler has returned that a non-transient resource limit was reached on the service side.

HTTP Status Code: 400

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

TypeNotFoundException

The specified extension does not exist in the CloudFormation registry.

HTTP Status Code: 400
UnsupportedActionException

The specified resource does not support this resource operation.

HTTP Status Code: 400

# **Examples**

## **UpdateResource**

The following example performs two patch operations on the specified resource. The first operation tests to see if the retention policy is set to 3653 days. If this is the case, the second operation updates the retention policy to 90 days.

### Sample Request

### AWS Cloud Control API Welcome See Also

```
https://cloudcontrolapi.us-east-1.amazonaws.com/
?Action=GetResource
&TypeName=AWS::LogGroup
&Identifier=LogGroupResourceExample
&PatchDocument=[{\"op\":\"test\",\"path\":\"/RetentionInDays\",\"value\":3653},{\"op\":\"replace\",\"path\":\"/RetentionInDays\",\"value\":90}]
&Version=2021-09-30
&X-Amz-Algorithm=AWS4-HMAC-SHA256
&X-Amz-Credential=[Access key ID and scope]
&X-Amz-Date=20160316T233349Z
&X-Amz-SignedHeaders=content-type;host
&X-Amz-Signature=[Signature]
```

### Sample Response

```
<UpdateResourceResponse xmlns="http://cloudcontrol.amazonaws.com/doc/2021-09-30/">
 <UpdateResourceResult>
   <ProgressEvent>
     <Identifier>CloudApiLogGroup</Identifier>
     <OperationStatus>IN_PROGRESS/OperationStatus>
     <TypeName>AWS::Logs::LogGroup</TypeName>
     <EventTime>2021-07-27T19:50:29.241Z</EventTime>
     <ResourceModel>{"RetentionInDays":90,"LogGroupName":"CloudApiLogGroup"}
ResourceModel>
     <RequestToken>332e531e-3435-434e-82e0-de841ff13b25</RequestToken>
     <Operation>UPDATE
   </ProgressEvent>
 </UpdateResourceResult>
 <ResponseMetadata>
   <RequestId>f75ec393-dd7c-4ad4-a3e3-d7b9c8468d86</RequestId>
 </ResponseMetadata>
</UpdateResourceResponse>
```

## See Also

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

# **Data Types**

The AWS Cloud Control API 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:

- ProgressEvent (p. 41)
- ResourceDescription (p. 44)
- ResourceRequestStatusFilter (p. 45)

# **ProgressEvent**

Represents the current status of a resource operation request. For more information, see Managing resource operation requests in the AWS Cloud Control API User Guide.

### **Contents**

#### **ErrorCode**

For requests with a status of FAILED, the associated error code.

For error code definitions, see Handler error codes in the CloudFormation Command Line Interface User Guide for Extension Development.

Type: String

```
Valid Values: NotUpdatable | InvalidRequest | AccessDenied | InvalidCredentials | AlreadyExists | NotFound | ResourceConflict | Throttling | ServiceLimitExceeded | NotStabilized | GeneralServiceException | ServiceInternalError | ServiceTimeout | NetworkFailure | InternalFailure
```

Required: No

#### **EventTime**

When the resource operation request was initiated.

Type: Timestamp

Required: No

### Identifier

The primary identifier for the resource.

### Note

In some cases, the resource identifier may be available before the resource operation has reached a status of SUCCESS.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: .+
Required: No

### Operation

The resource operation type.

Type: String

Valid Values: CREATE | DELETE | UPDATE

Required: No OperationStatus

The current status of the resource operation request.

- PENDING: The resource operation has not yet started.
- IN\_PROGRESS: The resource operation is currently in progress.

### AWS Cloud Control API Welcome Contents

- SUCCESS: The resource operation has successfully completed.
- FAILED: The resource operation has failed. Refer to the error code and status message for more information.
- CANCEL\_IN\_PROGRESS: The resource operation is in the process of being canceled.
- CANCEL\_COMPLETE: The resource operation has been canceled.

Type: String

Valid Values: PENDING | IN\_PROGRESS | SUCCESS | FAILED | CANCEL\_IN\_PROGRESS | CANCEL\_COMPLETE

Required: No

### RequestToken

The unique token representing this resource operation request.

Use the RequestToken with GetResourceRequestStatus to return the current status of a resource operation request.

Type: String

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

Pattern: [-A-Za-z0-9+/=]+

Required: No

### ResourceModel

A JSON string containing the resource model, consisting of each resource property and its current value.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 16384.

Pattern: (.|\s)\*

Required: No

### RetryAfter

When to next request the status of this resource operation request.

Type: Timestamp

Required: No

### ${\bf Status Message}$

Any message explaining the current status.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: (.|\s)\*

Required: No

### TypeName

The name of the resource type used in the operation.

### AWS Cloud Control API Welcome See Also

Type: String

Length Constraints: Minimum length of 10. Maximum length of 196.

Pattern:  $[A-Za-z0-9]{2,64}$ ::  $[A-Za-z0-9]{2,64}$ ::  $[A-Za-z0-9]{2,64}$ 

Required: No

# See Also

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

# ResourceDescription

Represents information about a provisioned resource.

### **Contents**

#### Identifier

The primary identifier for the resource.

For more information, see Identifying resources in the AWS Cloud Control API User Guide.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: .+

Required: No

### **Properties**

A list of the resource properties and their current values.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 16384.

Pattern: (.|\s)\*

Required: No

# See Also

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

# ResourceRequestStatusFilter

The filter criteria to use in determining the requests returned.

### **Contents**

### **Operations**

The operation types to include in the filter.

Type: Array of strings

Valid Values: CREATE | DELETE | UPDATE

Required: No **OperationStatuses** 

The operation statuses to include in the filter.

- PENDING: The operation has been requested, but not yet initiated.
- IN\_PROGRESS: The operation is currently in progress.
- SUCCESS: The operation has successfully completed.
- FAILED: The operation has failed.
- CANCEL\_IN\_PROGRESS: The operation is currently in the process of being canceled.
- CANCEL\_COMPLETE: The operation has been canceled.

Type: Array of strings

Valid Values: PENDING | IN\_PROGRESS | SUCCESS | FAILED | CANCEL\_IN\_PROGRESS | CANCEL\_COMPLETE

Required: No

## See Also

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

# **Common Parameters**

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

#### Action

The action to be performed.

Type: string

Required: Yes

#### Version

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

Type: string

Required: Yes

### X-Amz-Algorithm

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

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

Type: string

Valid Values: AWS4-HMAC-SHA256

Required: Conditional

#### X-Amz-Credential

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4\_request"). The value is expressed in the following format: access\_key/YYYYMMDD/region/service/aws4\_request.

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

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

Type: string

Required: Conditional

### X-Amz-Date

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

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is

not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see Handling Dates in Signature Version 4 in the *Amazon Web Services General Reference*.

Type: string

Required: Conditional

### X-Amz-Security-Token

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS Security Token Service, go to AWS Services That Work with IAM in the IAM User Guide.

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

Type: string

Required: Conditional

### X-Amz-Signature

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

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

Type: string

Required: Conditional

### X-Amz-SignedHeaders

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

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

Type: string

Required: Conditional

# **Common Errors**

This section lists the errors common to the API actions of all AWS services. For errors specific to an API action for this service, see the topic for that API action.

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

#### **IncompleteSignature**

The request signature does not conform to AWS standards.

HTTP Status Code: 400

### InternalFailure

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

HTTP Status Code: 500

#### InvalidAction

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

HTTP Status Code: 400

### 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.

### MissingAuthenticationToken

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

HTTP Status Code: 403

### MissingParameter

A required parameter for the specified action is not supplied.

HTTP Status Code: 400

### **NotAuthorized**

You do not have permission to perform this action.

HTTP Status Code: 400

### OptInRequired

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

HTTP Status Code: 403

### RequestExpired

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

HTTP Status Code: 400

#### ServiceUnavailable

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

HTTP Status Code: 503

### ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

### ValidationError

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