# Amazon EC2 Container Registry API Reference API Version 2015-09-21



# **Amazon EC2 Container Registry: API Reference**

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# **Table of Contents**

Batch/CheckLayerAvailability Request Syntax Request Parameters Response Syntax Response Elements Errors Example BatchDeleteImage Request Syntax Response Syntax Response Elements Errors Response Syntax Request Parameters Response Syntax Response Elements Errors Example BatchGetImage Request Syntax Request Syntax Response Syntax Response Syntax Response Syntax Response Elements Errors Example CompleteLayerUpload Request Syntax Response Syntax Response Syntax Response Syntax Response Syntax Response Elements Errors Example CompleteLayerUpload Request Syntax Response Syntax Response Elements Errors CreateRepository Request Parameters Response Syntax Response Elements Errors CreateRepository Request Parameters Response Elements Errors Example DeleteRepository Request Syntax Response Elements Errors Example DeleteRepository Request Syntax Response Elements Errors Example DeleteRepository Request Syntax Request Parameters Response Elements Errors Example DeleteRepositoryPolicy Request Syntax Response Elements Errors Example DeleteRepositoryPolicy Request Syntax Response Elements Errors Example DeleteRepositoryPolicy Request Syntax Response Elements Errors Example DescribeImages Response Syntax Response Elements Errors Example DescribeImages Response Syntax Response		
Request Syntax Response Syntax Response Syntax Response Elements Errors Example  BatchDeletelmage Request Syntax Response Syntax Response Syntax Response Elements Errors Example  BatchCellmage Request Syntax Response Elements Errors Example  BatchCellmage Request Syntax Response Syntax Response Elements Errors Example  Completel Syntax Response Elements Errors Example  CompleteLayerUpload Request Syntax Request Syntax Request Syntax Response Elements Errors Example  CompleteLayerUpload Request Syntax Request Syntax Response Elements Errors Request Syntax Request Parameters Response Elements Errors Request Syntax Response Elements Errors Example DeleteRepository Request Parameters Response Syntax Response Delements Errors Example DeleteRepositoryPolicy Request Parameters Response Syntax Response Elements Errors Example DeleteRepositoryPolicy Request Syntax Response Elements Errors Example DeleteRepositoryPolicy Request Syntax Response Syntax Response Elements Errors Example DeleteRepositoryPolicy Request Syntax Response Elements Errors Example DeleteRepositoryPolicy Request Parameters Response Syntax Response Elements Errors Example DeleteRepositoryPolicy Request Syntax Response Elements Errors Example DeleteRepositoryPolicy Request Syntax Response Elements Errors Example Describelmages Request Parameters Response Syntax Res		hCheckl averAvailahility
Request Parameters Response Syntax Response Elements Errors Example BatchDeleteImage Request Syntax Request Parameters Response Elements Errors Example BatchGetImage BatchGetImage Request Syntax Request Parameters Response Elements Errors Example BatchGetImage Request Syntax Request Parameters Response Syntax Response Syntax Response Syntax Response Elements Errors Example CompleteLayerUpload Request Syntax Request Parameters Response Syntax Request Parameters Response Elements Errors CreateRepository Request Syntax Response Elements Errors CreateRepository Request Parameters Response Syntax Response Syntax Response Elements Errors Errors CreateRepository Request Syntax Response Elements Errors Errors Response Elements Errors Errors Response Elements Errors Example DeleteRepository Request Syntax Response Elements Errors Example DeleteRepository Request Parameters Response Elements Errors Example DeleteRepositoryPolicy Request Syntax Response Elements Errors Example DeleteRepositoryPolicy Request Syntax Response Elements Errors Example DeleteRepositoryPolicy Request Syntax Response Elements Errors Example DeleteRepositoryPolicy Request Parameters Response Elements Errors Example DescribeImages Request Syntax Request Parameters Response Syntax Request Syntax Response Syntax Response Syntax Response Syntax Request Syntax Response Syntax	Dato	
Response Elements Errors Example BatchDeleteletlmage Request Syntax Request Parameters Response Elements Errors Example BatchGelimage Request Syntax Response Elements Errors Example BatchGetImage Request Syntax Request Parameters Response Syntax Response Syntax Request Parameters Response Syntax Response Elements Errors Example CompleteLayerUpload Request Syntax Request Parameters Response Syntax Request Parameters Response Syntax Request Parameters Response Elements Errors Errors CreateRepository Request Syntax Response Elements Errors Response Syntax Request Parameters Response Elements Errors Response Elements Errors Response Elements Errors Example DeleteRepository Request Syntax Response Elements Errors Example DeleteRepository Request Syntax Response Elements Errors Example DeleteRepository Request Syntax Response Elements Errors Example DeleteRepositoryPolicy Request Syntax Response Elements Errors Example DeleteRepositoryPolicy Request Syntax Response Elements Errors Example DeleteRepositoryPolicy Request Syntax Response Syntax		
Response Elements Errors Example BatchDeletelmage Request Syntax Request Parameters Response Elements Errors Example BatchGettinage Request Syntax Request Syntax Request Parameters Response Elements Errors Example BatchGettinage Request Syntax Request Parameters Response Elements Errors Example CompleteLayerUpload Request Syntax Request Syntax Request Syntax Response Elements Errors Example CompleteLayerUpload Request Syntax Request Parameters Response Elements Errors CreateRepository Request Syntax Request Parameters Response Elements Errors Errors CreateRepository Request Syntax Request Parameters Response Elements Errors Errors Errors Errors Errors Example DeleteRepository Request Syntax Response Elements Errors Errors Example DeleteRepository Request Syntax Request Parameters Response Elements Errors Example DeleteRepositoryPolicy Request Syntax Request Parameters Response Syntax Request Parameters Response Syntax Request Parameters Response Elements Errors Example DeleteRepositoryPolicy Request Syntax Request Parameters Response Syntax Response Elements Errors Example DescribeImages Response Syntax Request Parameters Response Syntax		
Errors Example BatchDeletelmage Request Syntax Request Parameters Response Syntax Response Syntax Response Elements Errors Example BatchGetImage Request Syntax Response Syntax Response Syntax Response Syntax Response Elements Errors Example CompleteLayerUpload Request Syntax Request Syntax Response Elements Errors CreateRepository Request Syntax Response Syntax Request Parameters Response Syntax Request Parameters Response Syntax Request Parameters Response Syntax Response Elements Errors Example DeleteRepository Request Syntax Response Elements Errors Example DeleteRepository Request Syntax Response Elements Errors Example DeleteRepository Request Syntax Response Elements Errors Example DeleteRepositoryPolicy Request Syntax Response Elements Errors Example DeleteRepositoryPolicy Request Parameters Response Syntax Resp		
Example BatchDeleteImage Request Syntax Request Parameters Response Syntax Response Elements Errors Example BatchGetImage Request Syntax Response Elements Errors Example CompleteLayerUpload Request Syntax Request Parameters Response Syntax Response Syntax Request Parameters Response Syntax Response Syntax Response Syntax Response Syntax Response Syntax Response Elements Errors CreateRepository Request Syntax Response Syntax Response Syntax Response Elements Errors Example DeleteRepository Request Syntax Request Parameters Response Syntax Request Parameters Response Syntax Request Parameters Response Syntax Request Syntax Request Parameters Response Syntax Response Elements Errors Example DeleteRepositoryPolicy Request Syntax Response Elements Errors Example DeleteRepositoryPolicy Request Syntax Response Elements Errors Example DescribeImages Request Syntax Request Parameters Response Syntax Response Syntax Response Syntax Response Syntax Response Syntax Request Parameters Response Syntax Response Syntax Response Syntax Request Parameters Response Syntax Resp		
BatchDeleteImage Request Syntax Request Parameters Response Syntax Response Elements Errors Example BatchGetImage Request Syntax Response Elements Response Syntax Request Parameters Response Elements Errors Example CompleteLayerUpload Request Syntax Request Parameters Response Syntax Response Elements Errors CompleteLayerUpload Request Parameters Response Syntax Request Parameters Response Syntax Response Syntax Response Elements Errors CreateRepository Request Parameters Response Syntax Request Parameters Response Syntax Request Parameters Response Syntax Response Syntax Response Elements Errors Example DeleteRepository Request Parameters Response Syntax Request Parameters Response Syntax Request Parameters Response Syntax Request Parameters Response Syntax Response Elements Errors Example DeleteRepositoryPolicy Request Parameters Response Syntax Response Elements Errors Example DeleteRepositoryPolicy Request Parameters Response Syntax Response Syntax Response Elements Errors Example DeleteRepositoryPolicy Request Parameters Response Syntax		
Request Syntax Response Syntax Response Elements Errors Example BatchGetImage Request Syntax Response Syntax Response Syntax Request Parameters Response Syntax Response Syntax Response Syntax Response Syntax Response Syntax Request Parameters Response Elements Errors CreateRepository Request Syntax Response Elements Errors DeleteRepository Request Syntax Response Elements Errors Response Syntax Response Elements Errors Response Syntax Response Elements Errors Example DeleteRepository Request Syntax Request Syntax Request Syntax Request Parameters Response Elements Example DeleteRepository Request Syntax Request Syntax Request Syntax Request Parameters Response Syntax Response Elements Errors Example DeleteRepositoryPolicy Request Syntax Response Elements Errors Example DeleteRepositoryPolicy Request Syntax Response Elements Errors Example DeleteRepositoryPolicy Request Syntax Response Elements Errors Example Describelmages Response Syntax Response Elements Errors Example Describelmages Request Syntax Response Syntax	Dotol	·
Request Parameters Response Syntax Response Elements Errors Example BatchGetImage Request Syntax Request Parameters Response Elements Errors Example CompleteLayerUpload Request Syntax Request Syntax Response Elements Errors Example CompleteLayerUpload Request Syntax Response Syntax Response Syntax Response Elements Errors CreateRepository Response Elements Errors CreateRepository Request Syntax Response Elements Errors Response Syntax Response Elements Errors Response Syntax Response Elements Errors Example DeleteRepository Request Syntax Response Elements Errors Example DeleteRepository Request Syntax Request Parameters Response Syntax Request Parameters Response Elements Errors Example DeleteRepository Request Syntax Response Elements Errors Example DeleteRepositoryPolicy Request Syntax Response Syntax Response Syntax Request Parameters Response Syntax Request Parameters Response Syntax Request Parameters Response Syntax Response Elements Errors Example Describelmages Request Syntax Request Syntax Response Elements Errors Example Describelmages Request Syntax Request Parameters Response Syntax Response Syntax Response Syntax Response Syntax Response Syntax	Daici	
Response Syntax Response Elements Errors Example  BatchGetImage Request Syntax Request Parameters Response Elements Errors Example  CompleteLayerUpload Request Syntax Response Syntax Response Elements Errors Example  CompleteLayerUpload Request Syntax Request Parameters Response Syntax Response Elements Errors  CreateRepository Request Syntax Request Parameters Response Elements Errors  CreateRepository Request Syntax Response Elements Errors Example DeleteRepository Response Elements Errors Example DeleteRepository Request Syntax Request Parameters Response Syntax Request Parameters Response Elements Errors Example DeleteRepository Request Syntax Request Parameters Response Syntax Response Elements Errors Example DeleteRepositoryPolicy Request Syntax Response Elements Errors Example DeleteRepositoryPolicy Request Syntax Request Parameters Response Syntax Response Elements Errors Example DescribeImages Request Syntax Response Elements Errors Example DescribeImages Request Syntax Request Parameters Response Syntax Request Parameters Response Syntax		·
Response Elements Errors Example BatchGetImage Request Syntax Request Parameters Response Syntax Response Elements Errors Example CompleteLayerUpload Request Parameters Response Syntax Request Parameters Response Syntax Request Parameters Response Syntax Response Elements Errors CreateRepository Request Syntax Request Parameters Response Syntax Response Syntax Response Syntax Request Parameters Response Syntax Response Elements Errors Example DeleteRepository Request Syntax Request Parameters Response Syntax Response Elements Errors Example DeleteRepository Request Syntax Request Parameters Response Syntax Request Syntax Request Syntax Request Syntax Request Syntax Request Parameters Response Elements Errors Example DeleteRepositoryPolicy Request Syntax Response Elements Errors Example DeleteRepositoryPolicy Request Syntax Response Elements Errors Example DescribeImages Response Syntax Request Syntax Request Syntax Request Syntax Request Syntax Request Parameters Response Syntax Request Syntax Request Syntax Request Parameters Response Syntax Request Parameters Response Syntax Request Parameters Response Syntax Request Parameters Response Syntax		
Errors Example BatchGetImage Request Syntax Request Parameters Response Syntax Response Elements Errors Example CompleteLayerUpload Request Syntax Response Syntax Response Elements Errors CreateRepository Request Syntax Response Elements Errors CreateRepository Request Syntax Response Syntax Response Elements Errors Errors CreateRepository Request Parameters Response Elements Errors Response Elements Errors Example DeleteRepository Request Syntax Request Parameters Response Elements Errors Example DeleteRepository Request Syntax Request Parameters Response Syntax Response Elements Errors Example DeleteRepositoryPolicy Request Syntax Response Elements Errors Example DeleteRepositoryPolicy Request Syntax Response Syntax Response Syntax Response Syntax Request Parameters Response Syntax Response Elements Errors Example DescribeImages Request Syntax Response Syntax Response Syntax Response Syntax Response Elements Errors Example DescribeImages Request Syntax Request Syntax Request Syntax Response Syntax Response Elements Errors Example DescribeImages Request Syntax Response Syntax		
Example BatchGetImage Request Syntax Request Parameters Response Syntax Response Syntax Response Elements Errors Response Syntax Request Parameters Request Syntax Request Parameters Response Syntax Request Parameters Response Elements Errors CreateRepository Request Syntax Request Parameters Response Elements Errors CreateRepository Request Syntax Request Parameters Response Elements Errors Response Elements Errors Response Elements Errors Example DeleteRepository Request Syntax Request Parameters Response Elements Errors Example DeleteRepositoryPolicy Request Syntax Response Elements Errors Example DescribeImages Response Syntax Request Syntax Response Syntax Response Syntax Request Syntax Request Syntax Response Syntax Request Parameters Response Syntax		
BatchGetImage Request Syntax Request Parameters Response Syntax Response Elements Errors Example CompleteLayerUpload Request Syntax Response Elements Errors Response Syntax Request Parameters Response Elements Errors CreateRepository Request Syntax Request Syntax Response Elements Errors CreateRepository Request Syntax Response Syntax Request Syntax Response Elements Errors Response Syntax Response Elements Errors Example DeleteRepository Request Syntax Request Syntax Request Syntax Request Syntax Request Parameters Response Elements Errors Example DeleteRepositoryOlicy Request Syntax Response Elements Errors Example DeleteRepositoryPolicy Request Syntax Response Elements Errors Example DeleteRepositoryPolicy Request Syntax Request Parameters Response Syntax Request Parameters Response Syntax Response Elements Errors Example DescribeImages Request Syntax Request Parameters Response Syntax		
Request Syntax Request Parameters Response Syntax Response Elements Errors Example CompleteLayerUpload Request Syntax Response Syntax Response Syntax Response Elements Errors CreateRepository Request Parameters Response Syntax Response Syntax Request Parameters Response Syntax Request Parameters Response Syntax Request Parameters Response Elements Errors  Example DeleteRepository Request Syntax Request Parameters Response Elements Errors Example DeleteRepository Request Syntax Request Parameters Response Elements Errors Response Elements Errors Response Syntax Request Parameters Response Elements Errors Example DeleteRepositoryPolicy Request Syntax Request Parameters Response Elements Errors Example DeleteRepositoryPolicy Request Syntax Request Parameters Response Syntax Response Elements Errors Example Describelmages Request Syntax Request Parameters Response Syntax Request Parameters Response Syntax Request Parameters Response Syntax Request Parameters Response Syntax Request Parameters		·
Request Parameters Response Syntax Response Elements Errors Example CompleteLayerUpload Request Syntax Request Parameters Response Syntax Response Syntax Response Elements Errors CreateRepository Request Syntax Request Parameters Response Syntax Request Parameters Response Elements Errors CreateRepository Request Parameters Response Elements Errors Response Syntax Request Parameters Response Elements Errors Example DeleteRepository Request Syntax Request Parameters Response Elements Errors Response Syntax Request Parameters Response Syntax Request Parameters Response Elements Errors Example DeleteRepositoryPolicy Request Syntax Request Syntax Request Parameters Response Syntax Request Parameters Response Syntax Response Syntax Response Elements Errors Example DescribeImages Request Syntax Request Parameters Response Syntax Request Parameters Response Syntax Request Parameters Response Syntax Request Parameters Request Parameters Response Syntax Request Parameters Request Parameters Response Syntax	Batcl	
Response Syntax Response Elements Errors Example  CompleteLayerUpload Request Syntax Response Syntax Response Elements Errors Errors CreateRepository Request Syntax Response Syntax Response Syntax Response Syntax Response Elements Errors Example DeleteRepository Request Parameters Response Elements Errors Example DeleteRepository Request Parameters Response Elements Errors Example DeleteRepository Request Syntax Response Elements Errors Example DeleteRepository Request Parameters Response Syntax Response Elements Errors Example DeleteRepositoryPolicy Request Syntax Request Parameters Response Elements Errors Example DeleteRepositoryPolicy Request Syntax Request Parameters Response Elements Errors Example Describelmages Request Syntax Request Parameters Request Syntax Request Parameters Response Syntax Request Parameters Response Syntax Request Parameters		
Response Elements Errors Example  CompleteLayerUpload Request Syntax Request Parameters Response Syntax Response Elements Errors  CreateRepository Request Parameters Response Syntax Response Syntax Request Parameters Response Syntax Response Elements Errors  Example  DeleteRepository Request Syntax Request Parameters Errors Example  DeleteRepository Request Syntax Response Syntax Response Syntax Request Parameters Response Syntax Response Syntax Response Syntax Response Elements Errors Example  DeleteRepositoryPolicy Request Parameters Response Elements Errors Example  DeleteRepositoryPolicy Request Syntax Response Elements Errors Example  DeleteRepositoryPolicy Request Parameters Response Syntax Response Elements Errors Example  Describelmages Request Parameters Response Syntax Request Parameters Response Syntax Request Parameters Response Syntax		·
Errors Example  CompleteLayerUpload Request Syntax Request Parameters Response Syntax Response Elements Errors  CreateRepository Request Syntax Response Elements Response Elements Errors  CreateRepository Request Parameters Response Syntax Response Elements Errors Example  DeleteRepository Request Syntax Request Parameters Response Syntax Response Elements Errors Example  DeleteRepository Request Parameters Response Syntax Response Syntax Response Elements Errors Example  DeleteRepositoryPolicy Request Parameters Response Elements Errors Example  DeleteRepositoryPolicy Request Parameters Response Elements Errors Example  DeleteRepositoryPolicy Request Parameters Response Elements Errors Example  Describelmages Request Syntax Request Parameters Response Syntax Request Parameters Response Syntax Request Parameters Response Syntax Request Parameters		
Example CompleteLayerUpload Request Syntax Request Parameters Response Syntax Response Elements Errors CreateRepository Request Parameters Response Syntax Response Elements Errors Example DeleteRepository Request Syntax Response Elements Errors Example DeleteRepository Request Syntax Request Syntax Response Elements Errors Example DeleteRepository Request Syntax Request Syntax Request Parameters Response Elements Errors Example DeleteRepository Request Syntax Response Elements Errors Example DeleteRepositoryPolicy Request Syntax Response Elements Errors Example DeleteRepositoryPolicy Request Parameters Response Elements Errors Example DeleteRepositoryPolicy Request Parameters Response Elements Errors Example Describelmages Request Parameters Response Syntax		Response Elements
CompleteLayerUpload Request Syntax Request Parameters Response Syntax Response Elements Errors  CreateRepository Request Syntax Response Syntax Response Elements Errors  Response Syntax Response Elements Errors Response Syntax Response Elements Errors Example  DeleteRepository Request Syntax Request Syntax Response Elements Errors Example  DeleteRepository Request Parameters Response Syntax Response Elements Errors Example  DeleteRepositoryPolicy Request Syntax Response Elements Errors Example  DeleteRepositoryPolicy Request Syntax Response Elements Errors Example  DeleteRepositoryPolicy Request Parameters Response Elements Errors Example  DeleteRepositoryPolicy Request Parameters Response Elements Errors Example  Describelmages Request Parameters Response Syntax Request Parameters Request Parameters Response Syntax Request Parameters Response Syntax Request Parameters Response Syntax Request Parameters		Errors
Request Syntax Request Parameters Response Syntax Response Elements Errors  CreateRepository Request Syntax Response Syntax Response Syntax Response Syntax Response Elements Errors Example DeleteRepository Request Parameters Response Syntax Response Elements Errors Example DeleteRepository Request Syntax Response Syntax Response Syntax Response Elements Errors Example DeleteRepositoryPolicy Request Syntax Response Syntax Response Elements Errors Example DeleteRepositoryPolicy Request Syntax Response Syntax Response Syntax Response Elements Errors Example Describelmages Request Syntax Request Parameters Example Describelmages Request Syntax Request Parameters Response Syntax Request Parameters Response Syntax Request Parameters Request Parameters Request Parameters Request Parameters Request Parameters		Example
Request Parameters Response Syntax Response Elements Errors CreateRepository Request Syntax Request Parameters Response Syntax Response Elements Errors Example DeleteRepository Request Syntax Request Parameters Response Syntax Request Parameters Example DeleteRepository Request Syntax Response Syntax Response Elements Errors Example DeleteRepositoryPolicy Request Syntax Response Elements Errors Example DeleteRepositoryPolicy Request Parameters Response Syntax Response Syntax Response Syntax Response Elements Errors Example DescribeImages Response Syntax Request Parameters Response Syntax Request Parameters Response Syntax Request Parameters Response Syntax Request Parameters Request Parameters Response Syntax Request Parameters Response Syntax	Com	pleteLayerUpload
Response Syntax Response Elements Errors  CreateRepository Request Syntax Request Parameters Response Syntax Response Elements Errors Example  DeleteRepository Request Syntax Response Syntax Request Parameters Response Syntax Response Elements Errors Example  DeleteRepository Request Parameters Response Syntax Response Elements Errors Example  DeleteRepositoryPolicy Request Syntax Request Parameters Response Syntax Response Elements Errors Example  DeleteRepositoryPolicy Request Syntax Request Parameters Response Syntax Response Syntax Response Syntax Response Syntax Response Syntax Response Syntax Response Elements Errors Example  DescribeImages Request Syntax Request Parameters Response Syntax Request Parameters Response Syntax Request Parameters Response Syntax		Request Syntax
Response Elements Errors  CreateRepository  Request Syntax  Request Parameters  Response Syntax  Response Elements  Errors  Example  DeleteRepository  Request Syntax  Request Syntax  Request Parameters  Response Syntax  Response Elements  Errors  Example  DeleteRepository  Request Parameters  Response Syntax  Response Elements  Errors  Example  DeleteRepositoryPolicy  Request Syntax  Request Parameters  Response Syntax  Response Syntax  Request Parameters  Response Elements  Errors  Example  DescribeImages  Request Syntax  Request Syntax  Request Syntax  Response Elements  Errors  Example  DescribeImages  Request Syntax  Request Parameters  Response Syntax  Request Parameters  Request Syntax  Request Parameters  Response Syntax		Request Parameters
Errors  CreateRepository		Response Syntax
CreateRepository         Request Syntax           Request Parameters         Response Syntax           Response Elements         Errors           Example         DeleteRepository           Request Syntax         Request Parameters           Response Syntax         Response Elements           Errors         Example           DeleteRepositoryPolicy         Request Syntax           Request Parameters         Response Syntax           Response Elements         Errors           Example         Describelmages           Request Syntax         Request Syntax           Request Parameters         Request Parameters           Request Parameters         Response Syntax           Response Syntax         Response Syntax		Response Elements
Request Syntax Request Parameters Response Syntax Response Elements Errors Example DeleteRepository Request Syntax Request Parameters Response Syntax Response Elements Errors Example DeleteRepositoryOlicy Request Syntax Response Elements Errors Example DeleteRepositoryPolicy Request Syntax Request Parameters Response Syntax Request Parameters Response Elements Errors Example Describelmages Request Syntax Request Syntax Request Syntax Request Syntax Request Syntax Response Elements Errors Example Describelmages Request Syntax Request Parameters Response Syntax		Errors
Request Parameters Response Syntax Response Elements Errors Example  DeleteRepository Request Syntax Request Parameters Response Syntax Response Elements Errors Example  DeleteRepositoryPolicy Request Syntax Request Syntax Request Parameters Example  DeleteRepositoryPolicy Request Syntax Response Syntax Response Elements Errors Example  Describelmages Response Elements Errors Example  Describelmages Request Syntax Request Parameters Request Syntax Request Parameters Request Syntax Request Parameters Response Syntax	Crea	teRepository
Request Parameters Response Syntax Response Elements Errors Example  DeleteRepository Request Syntax Request Parameters Response Syntax Response Elements Errors Example  DeleteRepositoryPolicy Request Syntax Request Syntax Request Parameters Example  DeleteRepositoryPolicy Request Syntax Response Syntax Response Elements Errors Example  Describelmages Response Elements Errors Example  Describelmages Request Syntax Request Parameters Request Syntax Request Parameters Request Syntax Request Parameters Response Syntax		Request Syntax
Response Syntax Response Elements Errors Example  DeleteRepository Request Syntax Request Parameters Response Syntax Response Elements Errors Example  DeleteRepositoryPolicy Request Syntax Request Parameters Response Elements Errors Example  DeleteRepositoryPolicy Request Parameters Response Syntax Request Parameters Response Elements Errors Example  DescribeImages Request Syntax Request Syntax Request Parameters Example  DescribeImages Request Syntax Request Parameters Response Syntax Request Parameters Response Syntax		
Response Elements Errors Example  DeleteRepository Request Syntax Request Parameters Response Elements Errors Example  DeleteRepositoryPolicy Request Syntax Request Parameters Response Elements Errors Example  DeleteRepositoryPolicy Request Parameters Response Syntax Request Parameters Response Elements Errors Example  DescribeImages Request Syntax Request Syntax Request Parameters Example  DescribeImages Request Syntax Request Parameters Response Syntax Request Parameters Response Syntax		
Errors Example  DeleteRepository  Request Syntax Request Parameters Response Syntax Response Elements Errors Example  DeleteRepositoryPolicy Request Syntax Response Syntax Response Syntax Response Elements Errors Example  DeleteRepositoryPolicy Request Syntax Request Parameters Response Syntax Response Elements Errors Example  DescribeImages Request Syntax Request Parameters Response Syntax Request Parameters Response Syntax Request Parameters Response Syntax		· · · · · · · · · · · · · · · · · · ·
Example  DeleteRepository  Request Syntax  Request Parameters  Response Syntax  Response Elements  Errors  Example  DeleteRepositoryPolicy  Request Syntax  Request Parameters  Response Syntax  Response Syntax  Response Elements  Errors  Example  Describelmages  Request Syntax  Request Syntax  Request Syntax  Response Elements  Errors  Example  Describelmages  Request Syntax  Request Parameters  Response Syntax  Request Parameters  Response Syntax		
DeleteRepository Request Syntax Request Parameters Response Syntax Response Elements Errors Example DeleteRepositoryPolicy Request Syntax Request Parameters Response Syntax Response Elements Errors Example DescribeImages Request Syntax Request Syntax Request Syntax Response Elements Errors Example DescribeImages Request Syntax		
Request Syntax Request Parameters Response Syntax Response Elements Errors Example DeleteRepositoryPolicy Request Syntax Request Parameters Response Syntax Response Elements Errors Example DescribeImages Request Syntax Request Parameters Example DescribeImages Request Syntax Response Syntax Response Syntax Request Parameters Response Syntax	Dele	·
Request Parameters Response Syntax Response Elements Errors Example  DeleteRepositoryPolicy Request Syntax Request Parameters Response Syntax Response Elements Errors Example  DescribeImages Request Syntax Request Parameters Response Syntax Response Syntax Response Syntax Response Syntax	_ 0.0	
Response Syntax Response Elements Errors Example  DeleteRepositoryPolicy Request Syntax Request Parameters Response Syntax Response Elements Errors Example  DescribeImages Request Syntax Request Parameters Response Syntax Response Syntax		
Response Elements Errors Example  DeleteRepositoryPolicy Request Syntax Request Parameters Response Syntax Response Elements Errors Example  DescribeImages Request Syntax Request Parameters Response Syntax Response Syntax		·
Errors Example  DeleteRepositoryPolicy Request Syntax Request Parameters Response Syntax Response Elements Errors Example  DescribeImages Request Syntax Request Parameters Request Parameters Response Syntax		· · · · · · · · · · · · · · · · · · ·
Example DeleteRepositoryPolicy Request Syntax Request Parameters Response Syntax Response Elements Errors Example DescribeImages Request Syntax Request Parameters Response Syntax		·
DeleteRepositoryPolicy Request Syntax Request Parameters Response Syntax Response Elements Errors Example DescribeImages Request Syntax Request Parameters Response Syntax		
Request Syntax Request Parameters Response Syntax Response Elements Errors Example DescribeImages Request Syntax Request Parameters Response Syntax	Dolo	
Request Parameters Response Syntax Response Elements Errors Example DescribeImages Request Syntax Request Parameters Response Syntax	Dele	
Response Syntax Response Elements Errors Example DescribeImages Request Syntax Request Parameters Response Syntax		
Response Elements Errors Example DescribeImages Request Syntax Request Parameters Response Syntax		
Errors Example DescribeImages Request Syntax Request Parameters Response Syntax		
Example DescribeImages Request Syntax Request Parameters Response Syntax		
DescribeImages Request Syntax Request Parameters Response Syntax		
Request Syntax Request Parameters Response Syntax	_	·
Request Parameters	Desc	
Response Syntax		
· · · · · · · · · · · · · · · · · · ·		·
		Response Syntax

Errors	26
Example	
DescribeRepositories	28
Request Syntax	28
Request Parameters	28
Response Syntax	29
Response Elements	
Errors	
Example	
GetAuthorizationToken	
Request Syntax	
Request Parameters	
Response Syntax	
Response Elements	
Errors	
Example	
GetDownloadUrlForLayer	
Request Syntax	
Request Parameters	
Response Syntax	
Response Elements	34
Errors	35
GetRepositoryPolicy	36
Request Syntax	
Request Parameters	
Response Syntax	
Response Elements	
Errors	
Example	
InitiateLayerUpload	
Request Syntax	
Request Parameters	
Response Syntax	
Response Elements	
Errors	
ListImages	41
Request Syntax	41
Request Parameters	41
Response Syntax	42
Response Elements	
Errors	42
PutImage	
Request Syntax	
Request Parameters	
•	
Response Syntax	
Response Elements	
Errors	
SetRepositoryPolicy	
Request Syntax	
Request Parameters	46
Response Syntax	
Response Elements	47
Errors	47
Example	47
UploadLayerPart	
Request Syntax	
Request Parameters	
Response Syntax	
Nooponoo Oyniax	

## Amazon EC2 Container Registry API Reference

	Response Elements	50
	Errors	50
Data T	/pes	52
	uthorizationData	
	Contents	
	escribelmagesFilter	
	Contents	54
- 1	nage	55
	Contents	55
- 1	nageDetail	56
	Contents	56
- 1	nageFailure	57
	Contents	57
- 1	nageldentifier	58
	Contents	58
L	ayer	59
	Contents	59
L	ayerFailure	60
	Contents	60
L	stlmagesFilter	61
	Contents	61
F	epository	62
	Contents	62
Comm	n Parameters	63
Comm	n Errors	65

# Welcome

Amazon EC2 Container Registry (Amazon ECR) is a managed AWS Docker registry service. Customers can use the familiar Docker CLI to push, pull, and manage images. Amazon ECR provides a secure, scalable, and reliable registry. Amazon ECR supports private Docker repositories with resource-based permissions using AWS IAM so that specific users or Amazon EC2 instances can access repositories and images. Developers can use the Docker CLI to author and manage images. This document was last published on December 9, 2016.

# **Actions**

## The following actions are supported:

- BatchCheckLayerAvailability (p. 3)
- BatchDeleteImage (p. 6)
- BatchGetImage (p. 9)
- CompleteLayerUpload (p. 12)
- CreateRepository (p. 15)
- DeleteRepository (p. 18)
- DeleteRepositoryPolicy (p. 21)
- Describelmages (p. 24)
- DescribeRepositories (p. 28)
- GetAuthorizationToken (p. 31)
- GetDownloadUrlForLayer (p. 34)
- GetRepositoryPolicy (p. 36)
- InitiateLayerUpload (p. 39)
- ListImages (p. 41)
- PutImage (p. 44)
- SetRepositoryPolicy (p. 46)
- UploadLayerPart (p. 49)

# BatchCheckLayerAvailability

Check the availability of multiple image layers in a specified registry and repository.

#### Note

This operation is used by the Amazon ECR proxy, and it is not intended for general use by customers. Use the <code>docker</code> CLI to pull, tag, and push images.

# Request Syntax

```
{
    "layerDigests": [ "string" ],
    "registryId": "string",
    "repositoryName": "string"
}
```

# Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 63).

The request accepts the following data in JSON format.

#### layerDigests (p. 3)

The digests of the image layers to check.

Type: array of Strings

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Length Constraints: Minimum length of 0. Maximum length of 1000.

Required: Yes

## registryld (p. 3)

The AWS account ID associated with the registry that contains the image layers to check. If you do not specify a registry, the default registry is assumed.

Type: String

Pattern: [0-9] {12}

Required: No

## repositoryName (p. 3)

The name of the repository that is associated with the image layers to check.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 256.

Pattern:  $(?:[a-z0-9]+(?:[._-][a-z0-9]+)*/)*[a-z0-9]+(?:[._-][a-z0-9]+)*$ 

Required: Yes

# Response Syntax

## Amazon EC2 Container Registry API Reference Response Elements

## 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.

## failures (p. 3)

Any failures associated with the call.

Type: array of LayerFailure (p. 60) objects

## layers (p. 3)

A list of image layer objects corresponding to the image layer references in the request.

Type: array of Layer (p. 59) objects

## **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 65).

## InvalidParameterException

The specified parameter is invalid. Review the available parameters for the API request.

HTTP Status Code: 400

## RepositoryNotFoundException

The specified repository could not be found. Check the spelling of the specified repository and ensure that you are performing operations on the correct registry.

HTTP Status Code: 400

#### ServerException

These errors are usually caused by a server-side issue.

HTTP Status Code: 500

# Example

In the following example or examples, the Authorization header contents (AUTHPARAMS) must be replaced with an AWS Signature Version 4 signature. For more information about creating these signatures, see Signature Version 4 Signing Process in the AWS General Reference.

You only need to learn how to sign HTTP requests if you intend to manually create them. When you use the AWS Command Line Interface (AWS CLI) or one of the AWS SDKs to make requests to AWS, these tools automatically sign the requests for you with the access key that you specify when you configure the tools. When you use these tools, you don't need to learn how to sign requests yourself.

## Example

This example checks the availability of an image layer in the ubuntu repository.

## Sample Request

```
POST / HTTP/1.1
Host: ecr.us-east-1.amazonaws.com
```

## Amazon EC2 Container Registry API Reference Example

```
Accept-Encoding: identity
Content-Length: 121
X-Amz-Target:
   AmazonEC2ContainerRegistry_V20150921.BatchCheckLayerAvailability
X-Amz-Date: 20151214T224018Z
User-Agent: aws-cli/1.9.10 Python/2.7.10 Darwin/14.5.0 botocore/1.3.10
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS

{
   "layerDigests": [
        "sha256:622b8fa00f815b90439859cc2202b493383761bd3eaf942462282ba1f2dbf5a5"
   ],
        "repositoryName": "ubuntu"
}
```

# BatchDeleteImage

Deletes a list of specified images within a specified repository. Images are specified with either imageTag or imageDigest.

# Request Syntax

# Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 63).

The request accepts the following data in JSON format.

## imagelds (p. 6)

A list of image ID references that correspond to images to delete. The format of the <code>imageIds</code> reference is <code>imageTag=tag</code> or <code>imageDigest=digest</code>.

Type: array of ImageIdentifier (p. 58) objects

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Required: Yes

#### registryld (p. 6)

The AWS account ID associated with the registry that contains the image to delete. If you do not specify a registry, the default registry is assumed.

Type: String

Pattern: [0-9]{12}

Required: No

## repositoryName (p. 6)

The repository that contains the image to delete.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 256.

 $\textbf{Pattern: (?:[a-z0-9]+(?:[.\_-][a-z0-9]+)*/)*[a-z0-9]+(?:[.\_-][a-z0-9]+)*}$ 

Required: Yes

# 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.

## failures (p. 6)

Any failures associated with the call.

Type: array of ImageFailure (p. 57) objects

#### imagelds (p. 6)

The image IDs of the deleted images.

Type: array of ImageIdentifier (p. 58) objects

Array Members: Minimum number of 1 item. Maximum number of 100 items.

## **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 65).

## InvalidParameterException

The specified parameter is invalid. Review the available parameters for the API request.

HTTP Status Code: 400

#### RepositoryNotFoundException

The specified repository could not be found. Check the spelling of the specified repository and ensure that you are performing operations on the correct registry.

HTTP Status Code: 400

## ServerException

These errors are usually caused by a server-side issue.

HTTP Status Code: 500

## Example

In the following example or examples, the Authorization header contents (AUTHPARAMS) must be replaced with an AWS Signature Version 4 signature. For more information about creating these signatures, see Signature Version 4 Signing Process in the AWS General Reference.

You only need to learn how to sign HTTP requests if you intend to manually create them. When you use the AWS Command Line Interface (AWS CLI) or one of the AWS SDKs to make requests to AWS, these tools automatically sign the requests for you with the access key that you specify when you configure the tools. When you use these tools, you don't need to learn how to sign requests yourself.

## Example

This example deletes an image in the ubuntu repository with the imageTag value of precise.

## Sample Request

```
POST / HTTP/1.1
Host: ecr.us-east-1.amazonaws.com
Accept-Encoding: identity
Content-Length: 67
X-Amz-Target: AmazonEC2ContainerRegistry_V20150921.BatchDeleteImage
X-Amz-Date: 20151201T214807Z
User-Agent: aws-cli/1.9.9 Python/2.7.10 Darwin/14.5.0 botocore/1.3.9
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS

{
    "repositoryName": "ubuntu",
    "imageIds": [
        {
             "imageTag": "precise"
        }
    ]
}
```

# **BatchGetImage**

Gets detailed information for specified images within a specified repository. Images are specified with either imageTag or imageDigest.

# Request Syntax

# Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 63).

The request accepts the following data in JSON format.

## imagelds (p. 9)

A list of image ID references that correspond to images to describe. The format of the <code>imageIds</code> reference is <code>imageTag=tag</code> or <code>imageDigest=digest</code>.

Type: array of ImageIdentifier (p. 58) objects

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Required: Yes

#### registryld (p. 9)

The AWS account ID associated with the registry that contains the images to describe. If you do not specify a registry, the default registry is assumed.

Type: String
Pattern: [0-9]{12}

Required: No

## repositoryName (p. 9)

The repository that contains the images to describe.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 256.

 $\textbf{Pattern: (?:[a-z0-9]+(?:[.\_-][a-z0-9]+)*/)*[a-z0-9]+(?:[.\_-][a-z0-9]+)*}$ 

Required: Yes

# Response Syntax

```
"imageDigest": "string",
    "imageTag": "string"
}

],
"images": [
{
    "imageId": {
        "imageDigest": "string",
        "imageTag": "string"
},
    "imageManifest": "string",
    "registryId": "string",
    "repositoryName": "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.

## failures (p. 9)

Any failures associated with the call.

Type: array of ImageFailure (p. 57) objects

## images (p. 9)

A list of image objects corresponding to the image references in the request.

Type: array of Image (p. 55) objects

## **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 65).

## InvalidParameterException

The specified parameter is invalid. Review the available parameters for the API request.

HTTP Status Code: 400

## Repository Not Found Exception

The specified repository could not be found. Check the spelling of the specified repository and ensure that you are performing operations on the correct registry.

HTTP Status Code: 400

#### ServerException

These errors are usually caused by a server-side issue.

HTTP Status Code: 500

## Example

In the following example or examples, the Authorization header contents (AUTHPARAMS) must be replaced with an AWS Signature Version 4 signature. For more information about creating these signatures, see Signature Version 4 Signing Process in the AWS General Reference.

You only need to learn how to sign HTTP requests if you intend to manually create them. When you use the AWS Command Line Interface (AWS CLI) or one of the AWS SDKs to make requests to AWS, these tools automatically sign the requests for you with the access key that you specify when you configure the tools. When you use these tools, you don't need to learn how to sign requests yourself.

## Example

This example describes an image in the ubuntu repository with the imageTag value of precise.

## Sample Request

```
POST / HTTP/1.1
Host: ecr.us-east-1.amazonaws.com
Accept-Encoding: identity
Content-Length: 67
X-Amz-Target: AmazonEC2ContainerRegistry_V20150921.BatchGetImage
X-Amz-Date: 20151201T211740Z
User-Agent: aws-cli/1.9.9 Python/2.7.10 Darwin/14.5.0 botocore/1.3.9
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS

{
    "repositoryName": "ubuntu",
    "imageIds": [
        {
            "imageTag": "precise"
        }
        ]
        }
    }
}
```

# CompleteLayerUpload

Inform Amazon ECR that the image layer upload for a specified registry, repository name, and upload ID, has completed. You can optionally provide a sha256 digest of the image layer for data validation purposes.

#### Note

This operation is used by the Amazon ECR proxy, and it is not intended for general use by customers. Use the docker CLI to pull, tag, and push images.

# Request Syntax

```
{
   "layerDigests": [ "string" ],
   "registryId": "string",
   "repositoryName": "string",
   "uploadId": "string"
}
```

## Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 63).

The request accepts the following data in JSON format.

## layerDigests (p. 12)

The sha256 digest of the image layer.

Type: array of Strings

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Pattern: [a-zA-Z0-9-\_+.]+:[a-fA-F0-9]+

Required: Yes

## registryld (p. 12)

The AWS account ID associated with the registry to which to upload layers. If you do not specify a registry, the default registry is assumed.

Type: String
Pattern: [0-9]{12}
Required: No

## repositoryName (p. 12)

The name of the repository to associate with the image layer.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 256.

Pattern: (?:[a-z0-9]+(?:[.\_-][a-z0-9]+)\*/)\*[a-z0-9]+(?:[.\_-][a-z0-9]+)\*

Required: Yes

## uploadld (p. 12)

The upload ID from a previous InitiateLayerUpload (p. 39) operation to associate with the image layer.

Type: String

Pattern:  $[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F$ 

Required: Yes

# Response Syntax

```
{
   "layerDigest": "string",
   "registryId": "string",
   "repositoryName": "string",
   "uploadId": "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.

```
layerDigest (p. 13)
```

The sha256 digest of the image layer.

Type: String

Pattern: [a-zA-Z0-9-\_+.]+:[a-fA-F0-9]+

## registryld (p. 13)

The registry ID associated with the request.

Type: String

Pattern: [0-9]{12}

#### repositoryName (p. 13)

The repository name associated with the request.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 256.

Pattern:  $(?:[a-z0-9]+(?:[._-][a-z0-9]+)*/)*[a-z0-9]+(?:[._-][a-z0-9]+)*$ 

## uploadld (p. 13)

The upload ID associated with the layer.

Type: String

Pattern:  $[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F$ 

## **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 65).

#### **EmptyUploadException**

The specified layer upload does not contain any layer parts.

HTTP Status Code: 400

## InvalidLayerException

The layer digest calculation performed by Amazon ECR upon receipt of the image layer does not match the digest specified.

HTTP Status Code: 400

## InvalidParameterException

The specified parameter is invalid. Review the available parameters for the API request.

HTTP Status Code: 400

## LayerAlreadyExistsException

The image layer already exists in the associated repository.

HTTP Status Code: 400

# Amazon EC2 Container Registry API Reference Errors

## LayerPartTooSmallException

Layer parts must be at least 5 MiB in size.

HTTP Status Code: 400

## RepositoryNotFoundException

The specified repository could not be found. Check the spelling of the specified repository and ensure that you are performing operations on the correct registry.

HTTP Status Code: 400

## ServerException

These errors are usually caused by a server-side issue.

HTTP Status Code: 500
UploadNotFoundException

The upload could not be found, or the specified upload id is not valid for this repository.

HTTP Status Code: 400

# CreateRepository

Creates an image repository.

# Request Syntax

```
{
    "repositoryName": "string"
}
```

# Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 63).

The request accepts the following data in JSON format.

## repositoryName (p. 15)

The name to use for the repository. The repository name may be specified on its own (such as nginx-web-app) or it can be prepended with a namespace to group the repository into a category (such as project-a/nginx-web-app).

Type: String

Length Constraints: Minimum length of 2. Maximum length of 256.

Pattern:  $(?:[a-z0-9]+(?:[._-][a-z0-9]+)*/)*[a-z0-9]+(?:[._-][a-z0-9]+)*$ 

Required: Yes

# Response Syntax

```
{
    "repository": {
        "createdAt": number,
        "registryId": "string",
        "repositoryArn": "string",
        "repositoryName": "string",
        "repositoryUri": "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.

## repository (p. 15)

The repository that was created.

Type: Repository (p. 62) object

## **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 65).

#### InvalidParameterException

The specified parameter is invalid. Review the available parameters for the API request.

HTTP Status Code: 400

## LimitExceededException

The operation did not succeed because it would have exceeded a service limit for your account. For more information, see Amazon ECR Default Service Limits in the Amazon EC2 Container Registry User Guide.

HTTP Status Code: 400

#### RepositoryAlreadyExistsException

The specified repository already exists in the specified registry.

HTTP Status Code: 400

## ServerException

These errors are usually caused by a server-side issue.

HTTP Status Code: 500

# Example

In the following example or examples, the Authorization header contents (AUTHPARAMS) must be replaced with an AWS Signature Version 4 signature. For more information about creating these signatures, see Signature Version 4 Signing Process in the AWS General Reference.

You only need to learn how to sign HTTP requests if you intend to manually create them. When you use the AWS Command Line Interface (AWS CLI) or one of the AWS SDKs to make requests to AWS, these tools automatically sign the requests for you with the access key that you specify when you configure the tools. When you use these tools, you don't need to learn how to sign requests yourself.

## Example

This example creates a repository called nginx-web-app inside the project-a namespace in the default registry for an account.

## Sample Request

```
POST / HTTP/1.1
Host: ecr.us-east-1.amazonaws.com
Accept-Encoding: identity
Content-Length: 45
X-Amz-Target: AmazonEC2ContainerRegistry_V20150921.CreateRepository
X-Amz-Date: 20151130T203458Z
User-Agent: aws-cli/1.9.9 Python/2.7.10 Darwin/14.5.0 botocore/1.3.9
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS

{
    "repositoryName": "project-a/nginx-web-app"
}
```

```
HTTP/1.1 200 OK
Server: Server
Date: Mon, 30 Nov 2015 20:34:58 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 175
Connection: keep-alive
x-amzn-RequestId: 123a4b56-7c89-01d2-3ef4-example5678f

{
```

# Amazon EC2 Container Registry API Reference Example

```
"repository": {
    "registryId": "012345678910",
    "repositoryArn": "arn:aws:ecr:us-east-1:012345678910:repository/project-
a/nginx-web-app",
    "repositoryName": "project-a/nginx-web-app"
}
```

# **DeleteRepository**

Deletes an existing image repository. If a repository contains images, you must use the force option to delete it.

# Request Syntax

```
{
    "force": boolean,
    "registryId": "string",
    "repositoryName": "string"
}
```

# **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 63).

The request accepts the following data in JSON format.

## force (p. 18)

Force the deletion of the repository if it contains images.

Type: Boolean

Required: No

## registryld (p. 18)

The AWS account ID associated with the registry that contains the repository to delete. If you do not specify a registry, the default registry is assumed.

Type: String

Pattern: [0-9]{12}

Required: No

## repositoryName (p. 18)

The name of the repository to delete.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 256.

Pattern:  $(?:[a-z0-9]+(?:[._-][a-z0-9]+)*/)*[a-z0-9]+(?:[._-][a-z0-9]+)*$ 

Required: Yes

# Response Syntax

```
{
    "repository": {
        "createdAt": number,
        "registryId": "string",
        "repositoryArn": "string",
        "repositoryName": "string",
        "repositoryUri": "string"
}
```

## Response Elements

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

#### Amazon EC2 Container Registry API Reference Errors

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

## repository (p. 18)

The repository that was deleted.

Type: Repository (p. 62) object

## **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 65).

## InvalidParameterException

The specified parameter is invalid. Review the available parameters for the API request.

HTTP Status Code: 400

## RepositoryNotEmptyException

The specified repository contains images. To delete a repository that contains images, you must force the deletion with the force parameter.

HTTP Status Code: 400

## RepositoryNotFoundException

The specified repository could not be found. Check the spelling of the specified repository and ensure that you are performing operations on the correct registry.

HTTP Status Code: 400

## ServerException

These errors are usually caused by a server-side issue.

HTTP Status Code: 500

## Example

In the following example or examples, the Authorization header contents (AUTHPARAMS) must be replaced with an AWS Signature Version 4 signature. For more information about creating these signatures, see Signature Version 4 Signing Process in the AWS General Reference.

You only need to learn how to sign HTTP requests if you intend to manually create them. When you use the AWS Command Line Interface (AWS CLI) or one of the AWS SDKs to make requests to AWS, these tools automatically sign the requests for you with the access key that you specify when you configure the tools. When you use these tools, you don't need to learn how to sign requests yourself.

## Example

This example deletes a repository named ubuntu in the default registry for an account.

## Sample Request

```
POST / HTTP/1.1
Host: ecr.us-east-1.amazonaws.com
Accept-Encoding: identity
Content-Length: 43
X-Amz-Target: AmazonEC2ContainerRegistry_V20150921.DeleteRepository
X-Amz-Date: 20151130T201424Z
User-Agent: aws-cli/1.9.9 Python/2.7.10 Darwin/14.5.0 botocore/1.3.9
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS

{
    "repositoryName": "ubuntu",
    "force": true
```

# Amazon EC2 Container Registry API Reference Example

}

```
HTTP/1.1 200 OK
Server: Server
Date: Mon, 30 Nov 2015 20:14:24 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 141
Connection: keep-alive
x-amzn-RequestId: 123a4b56-7c89-01d2-3ef4-example5678f

{
    "repository": {
        "registryId": "012345678910",
        "repositoryArn": "arn:aws:ecr:us-east-1:012345678910:repository/ubuntu",
        "repositoryName": "ubuntu"
    }
}
```

# **DeleteRepositoryPolicy**

Deletes the repository policy from a specified repository.

## Request Syntax

```
{
    "registryId": "string",
    "repositoryName": "string"
}
```

## Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 63).

The request accepts the following data in JSON format.

```
registryld (p. 21)
```

The AWS account ID associated with the registry that contains the repository policy to delete. If you do not specify a registry, the default registry is assumed.

```
Type: String
Pattern: [0-9]{12}
Required: No
repositoryName (p. 21)
```

The name of the repository that is associated with the repository policy to delete.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 256.

```
Pattern: (?:[a-z0-9]+(?:[._-][a-z0-9]+)*/)*[a-z0-9]+(?:[._-][a-z0-9]+)*
```

Required: Yes

# Response Syntax

```
{
    "policyText": "string",
    "registryId": "string",
    "repositoryName": "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.

```
policyText (p. 21)
```

The JSON repository policy that was deleted from the repository.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

## registryld (p. 21)

The registry ID associated with the request.

Type: String

#### Amazon EC2 Container Registry API Reference Errors

```
Pattern: [0-9]{12} repositoryName (p. 21)
```

The repository name associated with the request.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 256.

Pattern: (?:[a-z0-9]+(?:[.\_-][a-z0-9]+)\*/)\*[a-z0-9]+(?:[.\_-][a-z0-9]+)\*

## **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 65).

## InvalidParameterException

The specified parameter is invalid. Review the available parameters for the API request.

HTTP Status Code: 400

## RepositoryNotFoundException

The specified repository could not be found. Check the spelling of the specified repository and ensure that you are performing operations on the correct registry.

HTTP Status Code: 400

## RepositoryPolicyNotFoundException

The specified repository and registry combination does not have an associated repository policy.

HTTP Status Code: 400

## ServerException

These errors are usually caused by a server-side issue.

HTTP Status Code: 500

# Example

In the following example or examples, the Authorization header contents (AUTHPARAMS) must be replaced with an AWS Signature Version 4 signature. For more information about creating these signatures, see Signature Version 4 Signing Process in the AWS General Reference.

You only need to learn how to sign HTTP requests if you intend to manually create them. When you use the AWS Command Line Interface (AWS CLI) or one of the AWS SDKs to make requests to AWS, these tools automatically sign the requests for you with the access key that you specify when you configure the tools. When you use these tools, you don't need to learn how to sign requests yourself.

## Example

This example deletes the repository policy from the ubuntu repository.

## Sample Request

```
POST / HTTP/1.1
Host: ecr.us-east-1.amazonaws.com
Accept-Encoding: identity
Content-Length: 28
X-Amz-Target: AmazonEC2ContainerRegistry_V20150921.DeleteRepositoryPolicy
X-Amz-Date: 20151215T003722Z
User-Agent: aws-cli/1.9.10 Python/2.7.10 Darwin/14.5.0 botocore/1.3.10
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS

{
    "repositoryName": "ubuntu"
```

## Amazon EC2 Container Registry API Reference Example

}

```
HTTP/1.1 200 OK
Server: Server
Date: Tue, 15 Dec 2015 00:37:22 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 301
Connection: keep-alive
x-amzn-RequestId: 01817918-a2c4-11e5-a19f-014c7a9aad99

{
    "policyText": "{\n \"Version\" : \"2012-10-17\",\n \"Statement\" :
    [ {\n \"Sid\" : \"AllowPull\",\n \"Effect\" : \"Allow\",\n \"Principal\" : \"*\",\n \"Action\" : [ \"ecr:BatchGetImage\", \"ecr:GetDownloadUrlForLayer\" ]\n } ]\n}",
    "registryId": "012345678910",
    "repositoryName": "ubuntu"
}
```

# Describelmages

Returns metadata about the images in a repository, including image size and creation date.

#### Note

Beginning with Docker version 1.9, the Docker client compresses image layers before pushing them to a V2 Docker registry. The output of the docker images command shows the uncompressed image size, so it may return a larger image size than the image sizes returned by Describelmages (p. 24).

## Request Syntax

```
{
    "filter": {
        "tagStatus": "string"
},
    "imageIds": [
        {
            "imageDigest": "string",
            "imageTag": "string"
        }
    ],
    "maxResults": number,
    "nextToken": "string",
    "registryId": "string",
    "repositoryName": "string"
}
```

# Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 63).

The request accepts the following data in JSON format.

#### filter (p. 24)

The filter key and value with which to filter your DescribeImages results.

Type: DescribeImagesFilter (p. 54) object

Required: No

## imagelds (p. 24)

The list of image IDs for the requested repository.

Type: array of ImageIdentifier (p. 58) objects

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Required: No

#### maxResults (p. 24)

The maximum number of repository results returned by <code>DescribeImages</code> in paginated output. When this parameter is used, <code>DescribeImages</code> only returns <code>maxResults</code> results in a single page along with a <code>nextToken</code> response element. The remaining results of the initial request can be seen by sending another <code>DescribeImages</code> request with the returned <code>nextToken</code> value. This value can be between 1 and 100. If this parameter is not used, then <code>DescribeImages</code> returns up to 100 results and a <code>nextToken</code> value, if applicable.

Type: Integer

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

Required: No

#### nextToken (p. 24)

The nextToken value returned from a previous paginated DescribeImages request where maxResults was used and the results exceeded the value of that parameter. Pagination continues from the end of the previous results that returned the nextToken value. This value is null when there are no more results to return.

Type: String Required: No

#### registryld (p. 24)

The AWS account ID associated with the registry that contains the repository in which to describe images. If you do not specify a registry, the default registry is assumed.

Type: String
Pattern: [0-9]{12}
Required: No

## repositoryName (p. 24)

A list of repositories to describe. If this parameter is omitted, then all repositories in a registry are described.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 256.

Pattern:  $(?:[a-z0-9]+(?:[._-][a-z0-9]+)*/)*[a-z0-9]+(?:[._-][a-z0-9]+)*$ 

Required: Yes

# 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.

## imageDetails (p. 25)

A list of ImageDetail (p. 56) objects that contain data about the image.

Type: array of ImageDetail (p. 56) objects

#### nextToken (p. 25)

The nextToken value to include in a future DescribeImages request. When the results of a DescribeImages request exceed maxResults, this value can be used to retrieve the next page of results. This value is null when there are no more results to return.

Type: String

## **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 65).

#### ImageNotFoundException

The image requested does not exist in the specified repository.

HTTP Status Code: 400 InvalidParameterException

The specified parameter is invalid. Review the available parameters for the API request.

HTTP Status Code: 400

## RepositoryNotFoundException

The specified repository could not be found. Check the spelling of the specified repository and ensure that you are performing operations on the correct registry.

HTTP Status Code: 400

#### ServerException

These errors are usually caused by a server-side issue.

HTTP Status Code: 500

## Example

In the following example or examples, the Authorization header contents (AUTHPARAMS) must be replaced with an AWS Signature Version 4 signature. For more information about creating these signatures, see Signature Version 4 Signing Process in the AWS General Reference.

You only need to learn how to sign HTTP requests if you intend to manually create them. When you use the AWS Command Line Interface (AWS CLI) or one of the AWS SDKs to make requests to AWS, these tools automatically sign the requests for you with the access key that you specify when you configure the tools. When you use these tools, you don't need to learn how to sign requests yourself.

## Example

This example describes the images in a repository named project-a in the default account.

## Sample Request

```
Host: ecr.us-east-1.amazonaws.com
Accept-Encoding: identity
Content-Length: 31
X-Amz-Target: AmazonEC2ContainerRegistry_V20150921.DescribeImages
X-Amz-Date: 20160927T225311Z
User-Agent: aws-cli/1.10.21 Python/2.7.9 Windows/2008ServerR2 botocore/1.4.12
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS
{"repositoryName": "project-a"}
```

```
HTTP/1.1 200 OK
Server: Server
Date: Tue, 27 Sep 2016 22:53:13 GMT
Content-Type: application/x-amz-json-1.1
```

# Amazon EC2 Container Registry API Reference Example

# **DescribeRepositories**

Describes image repositories in a registry.

# Request Syntax

```
{
   "maxResults": number,
   "nextToken": "string",
   "registryId": "string",
   "repositoryNames": [ "string" ]
}
```

# Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 63).

The request accepts the following data in JSON format.

## maxResults (p. 28)

The maximum number of repository results returned by <code>DescribeRepositories</code> in paginated output. When this parameter is used, <code>DescribeRepositories</code> only returns <code>maxResults</code> results in a single page along with a <code>nextToken</code> response element. The remaining results of the initial request can be seen by sending another <code>DescribeRepositories</code> request with the returned <code>nextToken</code> value. This value can be between 1 and 100. If this parameter is not used, then <code>DescribeRepositories</code> returns up to 100 results and a <code>nextToken</code> value, if applicable.

Type: Integer

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

Required: No nextToken (p. 28)

The nextToken value returned from a previous paginated DescribeRepositories request where maxResults was used and the results exceeded the value of that parameter. Pagination continues from the end of the previous results that returned the nextToken value. This value is null when there are no more results to return.

#### Note

This token should be treated as an opaque identifier that is only used to retrieve the next items in a list and not for other programmatic purposes.

Type: String Required: No

#### registryld (p. 28)

The AWS account ID associated with the registry that contains the repositories to be described. If you do not specify a registry, the default registry is assumed.

Type: String
Pattern: [0-9]{12}
Required: No

## repositoryNames (p. 28)

A list of repositories to describe. If this parameter is omitted, then all repositories in a registry are described.

Type: array of Strings

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Length Constraints: Minimum length of 2. Maximum length of 256.

```
Pattern: (?:[a-z0-9]+(?:[._-][a-z0-9]+)*/)*[a-z0-9]+(?:[._-][a-z0-9]+)*
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. 29)

The nextToken value to include in a future DescribeRepositories request. When the results of a DescribeRepositories request exceed maxResults, this value can be used to retrieve the next page of results. This value is null when there are no more results to return.

Type: String

## repositories (p. 29)

A list of repository objects corresponding to valid repositories.

Type: array of Repository (p. 62) objects

## **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 65).

## InvalidParameterException

The specified parameter is invalid. Review the available parameters for the API request.

HTTP Status Code: 400

## RepositoryNotFoundException

The specified repository could not be found. Check the spelling of the specified repository and ensure that you are performing operations on the correct registry.

HTTP Status Code: 400

## ServerException

These errors are usually caused by a server-side issue.

HTTP Status Code: 500

# Example

In the following example or examples, the Authorization header contents (AUTHPARAMS) must be replaced with an AWS Signature Version 4 signature. For more information about creating these signatures, see Signature Version 4 Signing Process in the AWS General Reference.

You only need to learn how to sign HTTP requests if you intend to manually create them. When you use the AWS Command Line Interface (AWS CLI) or one of the AWS SDKs to make requests to AWS, these tools automatically sign the requests for you with the access key that you specify when you configure the tools. When you use these tools, you don't need to learn how to sign requests yourself.

## Example

This example describes the repositories in the default registry for an account.

## Sample Request

```
POST / HTTP/1.1
Host: ecr.us-east-1.amazonaws.com
Accept-Encoding: identity
Content-Length: 2
X-Amz-Target: AmazonEC2ContainerRegistry_V20150921.DescribeRepositories
X-Amz-Date: 20151201T215906Z
User-Agent: aws-cli/1.9.9 Python/2.7.10 Darwin/14.5.0 botocore/1.3.9
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS
{}
```

```
HTTP/1.1 200 OK
Server: Server
Date: Tue, 01 Dec 2015 21:59:06 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 268
Connection: keep-alive
x-amzn-RequestId: be290452-9876-11e5-9e99-4dbebf3369b0
  "repositories": [
      "registryId": "012345678910",
      "repositoryArn": "arn:aws:ecr:us-east-1:012345678910:repository/
ubuntu",
      "repositoryName": "ubuntu"
      "registryId": "012345678910",
      "repositoryArn": "arn:aws:ecr:us-east-1:012345678910:repository/test",
      "repositoryName": "test"
  ]
```

# GetAuthorizationToken

Retrieves a token that is valid for a specified registry for 12 hours. This command allows you to use the docker CLI to push and pull images with Amazon ECR. If you do not specify a registry, the default registry is assumed.

The authorizationToken returned for each registry specified is a base64 encoded string that can be decoded and used in a docker login command to authenticate to a registry. The AWS CLI offers an aws ecr get-login command that simplifies the login process.

# Request Syntax

```
{
    "registryIds": [ "string" ]
}
```

# Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 63).

The request accepts the following data in JSON format.

## registrylds (p. 31)

A list of AWS account IDs that are associated with the registries for which to get authorization tokens. If you do not specify a registry, the default registry is assumed.

Type: array of Strings

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Pattern: [0-9]{12} 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.

#### authorizationData (p. 31)

A list of authorization token data objects that correspond to the registryIds values in the request.

Type: array of AuthorizationData (p. 53) objects

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 65).

#### InvalidParameterException

The specified parameter is invalid. Review the available parameters for the API request.

HTTP Status Code: 400

#### ServerException

These errors are usually caused by a server-side issue.

HTTP Status Code: 500

# Example

In the following example or examples, the Authorization header contents (AUTHPARAMS) must be replaced with an AWS Signature Version 4 signature. For more information about creating these signatures, see Signature Version 4 Signing Process in the AWS General Reference.

You only need to learn how to sign HTTP requests if you intend to manually create them. When you use the AWS Command Line Interface (AWS CLI) or one of the AWS SDKs to make requests to AWS, these tools automatically sign the requests for you with the access key that you specify when you configure the tools. When you use these tools, you don't need to learn how to sign requests yourself.

### Example

This example gets an authorization token for your default registry.

#### Sample Request

```
POST / HTTP/1.1
Host: ecr.us-east-1.amazonaws.com
Accept-Encoding: identity
Content-Length: 2
X-Amz-Target: AmazonEC2ContainerRegistry_V20150921.GetAuthorizationToken
X-Amz-Date: 20151129T221940Z
User-Agent: aws-cli/1.9.9 Python/2.7.10 Darwin/14.5.0 botocore/1.3.9
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS

{}
```

#### Sample Response

# Amazon EC2 Container Registry API Reference Example

]				
}				

# GetDownloadUrlForLayer

Retrieves the pre-signed Amazon S3 download URL corresponding to an image layer. You can only get URLs for image layers that are referenced in an image.

#### **Note**

This operation is used by the Amazon ECR proxy, and it is not intended for general use by customers. Use the docker CLI to pull, tag, and push images.

# Request Syntax

```
{
    "layerDigest": "string",
    "registryId": "string",
    "repositoryName": "string"
}
```

## Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 63).

The request accepts the following data in JSON format.

#### layerDigest (p. 34)

The digest of the image layer to download.

```
Type: String
```

Pattern: [a-zA-Z0-9-\_+.]+:[a-fA-F0-9]+

Required: Yes

#### registryld (p. 34)

The AWS account ID associated with the registry that contains the image layer to download. If you do not specify a registry, the default registry is assumed.

```
Type: String
```

Pattern: [0-9]{12}

Required: No

#### repositoryName (p. 34)

The name of the repository that is associated with the image layer to download.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 256.

Pattern:  $(?:[a-z0-9]+(?:[._-][a-z0-9]+)*/)*[a-z0-9]+(?:[._-][a-z0-9]+)*$ 

Required: Yes

# Response Syntax

```
{
   "downloadUrl": "string",
   "layerDigest": "string"
}
```

# **Response Elements**

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

#### Amazon EC2 Container Registry API Reference Errors

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

#### downloadUrl (p. 34)

The pre-signed Amazon S3 download URL for the requested layer.

Type: String layerDigest (p. 34)

The digest of the image layer to download.

Type: String

Pattern: [a-zA-Z0-9-\_+.]+:[a-fA-F0-9]+

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 65).

#### InvalidParameterException

The specified parameter is invalid. Review the available parameters for the API request.

HTTP Status Code: 400

#### ${\bf Layer Inaccessible Exception}$

The specified layer is not available because it is not associated with an image. Unassociated image layers may be cleaned up at any time.

HTTP Status Code: 400

#### LayersNotFoundException

The specified layers could not be found, or the specified layer is not valid for this repository.

HTTP Status Code: 400

#### RepositoryNotFoundException

The specified repository could not be found. Check the spelling of the specified repository and ensure that you are performing operations on the correct registry.

HTTP Status Code: 400

#### ServerException

These errors are usually caused by a server-side issue.

# **GetRepositoryPolicy**

Retrieves the repository policy for a specified repository.

# Request Syntax

```
{
    "registryId": "string",
    "repositoryName": "string"
}
```

## Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 63).

The request accepts the following data in JSON format.

```
registryld (p. 36)
```

The AWS account ID associated with the registry that contains the repository. If you do not specify a registry, the default registry is assumed.

```
Type: String
Pattern: [0-9]{12}
Required: No
repositoryName (p. 36)
```

The name of the repository whose policy you want to retrieve.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 256.

Pattern: (?:[a-z0-9]+(?:[.\_-][a-z0-9]+)\*/)\*[a-z0-9]+(?:[.\_-][a-z0-9]+)\*

Required: Yes

# Response Syntax

```
{
    "policyText": "string",
    "registryId": "string",
    "repositoryName": "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.

```
policyText (p. 36)
```

The JSON repository policy text associated with the repository.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

#### registryld (p. 36)

The registry ID associated with the request.

Type: String

#### Amazon EC2 Container Registry API Reference Errors

```
Pattern: [0-9]{12} repositoryName (p. 36)
```

The repository name associated with the request.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 256.

Pattern: (?:[a-z0-9]+(?:[..-][a-z0-9]+)\*/)\*[a-z0-9]+(?:[..-][a-z0-9]+)\*

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 65).

#### InvalidParameterException

The specified parameter is invalid. Review the available parameters for the API request.

HTTP Status Code: 400

#### RepositoryNotFoundException

The specified repository could not be found. Check the spelling of the specified repository and ensure that you are performing operations on the correct registry.

HTTP Status Code: 400

#### RepositoryPolicyNotFoundException

The specified repository and registry combination does not have an associated repository policy.

HTTP Status Code: 400

#### ServerException

These errors are usually caused by a server-side issue.

HTTP Status Code: 500

# Example

In the following example or examples, the Authorization header contents (AUTHPARAMS) must be replaced with an AWS Signature Version 4 signature. For more information about creating these signatures, see Signature Version 4 Signing Process in the AWS General Reference.

You only need to learn how to sign HTTP requests if you intend to manually create them. When you use the AWS Command Line Interface (AWS CLI) or one of the AWS SDKs to make requests to AWS, these tools automatically sign the requests for you with the access key that you specify when you configure the tools. When you use these tools, you don't need to learn how to sign requests yourself.

### Example

This example gets the repository policy for the ubuntu repository.

#### Sample Request

```
POST / HTTP/1.1
Host: ecr.us-east-1.amazonaws.com
Accept-Encoding: identity
Content-Length: 28
X-Amz-Target: AmazonEC2ContainerRegistry_V20150921.GetRepositoryPolicy
X-Amz-Date: 20151215T002404Z
User-Agent: aws-cli/1.9.10 Python/2.7.10 Darwin/14.5.0 botocore/1.3.10
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS

{
    "repositoryName": "ubuntu"
```

#### Amazon EC2 Container Registry API Reference Example

}

### Sample Response

```
HTTP/1.1 200 OK
Server: Server
Date: Tue, 15 Dec 2015 00:24:04 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 301
Connection: keep-alive
x-amzn-RequestId: 25da0b72-a2c2-11e5-8543-ebda6fb1393b

{
    "policyText": "{\n \"Version\" : \"2012-10-17\",\n \"Statement\" :
    [{\n \"Sid\" : \"AllowPull\",\n \"Effect\" : \"Allow\",\n \"Principal\" : \"*\",\n \"Action\" : [\"ecr:BatchGetImage\",\"ecr:GetDownloadUrlForLayer\" ]\n }]\n}",
    "registryId": "012345678910",
    "repositoryName": "ubuntu"
}
```

# InitiateLayerUpload

Notify Amazon ECR that you intend to upload an image layer.

#### Note

This operation is used by the Amazon ECR proxy, and it is not intended for general use by customers. Use the docker CLI to pull, tag, and push images.

## Request Syntax

```
{
    "registryId": "string",
    "repositoryName": "string"
}
```

# Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 63).

The request accepts the following data in JSON format.

#### registryld (p. 39)

The AWS account ID associated with the registry that you intend to upload layers to. If you do not specify a registry, the default registry is assumed.

Type: String
Pattern: [0-9]{12}
Required: No

#### repositoryName (p. 39)

The name of the repository that you intend to upload layers to.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 256.

Pattern:  $(?:[a-z0-9]+(?:[._-][a-z0-9]+)*/)*[a-z0-9]+(?:[._-][a-z0-9]+)*$ 

Required: Yes

# Response Syntax

```
{
    "partSize": number,
    "uploadId": "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.

```
partSize (p. 39)
```

The size, in bytes, that Amazon ECR expects future layer part uploads to be.

Type: Long

Valid Range: Minimum value of 0.

#### Amazon EC2 Container Registry API Reference Errors

#### uploadld (p. 39)

The upload ID for the layer upload. This parameter is passed to further UploadLayerPart (p. 49) and CompleteLayerUpload (p. 12) operations.

Type: String

Pattern:  $[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F$ 

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 65).

#### InvalidParameterException

The specified parameter is invalid. Review the available parameters for the API request.

HTTP Status Code: 400

#### RepositoryNotFoundException

The specified repository could not be found. Check the spelling of the specified repository and ensure that you are performing operations on the correct registry.

HTTP Status Code: 400

#### ServerException

These errors are usually caused by a server-side issue.

# ListImages

Lists all the image IDs for a given repository.

You can filter images based on whether or not they are tagged by setting the tagStatus parameter to TAGGED or UNTAGGED. For example, you can filter your results to return only UNTAGGED images and then pipe that result to a BatchDeleteImage (p. 6) operation to delete them. Or, you can filter your results to return only TAGGED images to list all of the tags in your repository.

# Request Syntax

```
{
    "filter": {
        "tagStatus": "string"
},
    "maxResults": number,
    "nextToken": "string",
    "registryId": "string",
    "repositoryName": "string"
}
```

# **Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 63).

The request accepts the following data in JSON format.

#### filter (p. 41)

The filter key and value with which to filter your ListImages results.

Type: ListImagesFilter (p. 61) object

Required: No

#### maxResults (p. 41)

The maximum number of image results returned by ListImages in paginated output. When this parameter is used, ListImages only returns maxResults results in a single page along with a nextToken response element. The remaining results of the initial request can be seen by sending another ListImages request with the returned nextToken value. This value can be between 1 and 100. If this parameter is not used, then ListImages returns up to 100 results and a nextToken value, if applicable.

Type: Integer

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

Required: No nextToken (p. 41)

# The nextToken value returned from a previous paginated ListImages request where maxResults was used and the results exceeded the value of that parameter. Pagination continues from the end of the previous results that returned the nextToken value. This value is

null when there are no more results to return.

#### Note

This token should be treated as an opaque identifier that is only used to retrieve the next items in a list and not for other programmatic purposes.

Type: String Required: No

#### registryld (p. 41)

The AWS account ID associated with the registry that contains the repository to list images in. If you do not specify a registry, the default registry is assumed.

#### Amazon EC2 Container Registry API Reference Response Syntax

```
Type: String
Pattern: [0-9]{12}
Required: No
repositoryName (p. 41)
```

The repository whose image IDs are to be listed.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 256.

Pattern: (?:[a-z0-9]+(?:[.\_-][a-z0-9]+)\*/)\*[a-z0-9]+(?:[.\_-][a-z0-9]+)\*

Required: Yes

# 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.

#### imagelds (p. 42)

The list of image IDs for the requested repository.

Type: array of Imageldentifier (p. 58) objects

Array Members: Minimum number of 1 item. Maximum number of 100 items.

#### nextToken (p. 42)

The nextToken value to include in a future ListImages request. When the results of a ListImages request exceed maxResults, this value can be used to retrieve the next page of results. This value is null when there are no more results to return.

Type: String

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 65).

#### InvalidParameterException

The specified parameter is invalid. Review the available parameters for the API request.

HTTP Status Code: 400

#### RepositoryNotFoundException

The specified repository could not be found. Check the spelling of the specified repository and ensure that you are performing operations on the correct registry.

HTTP Status Code: 400

#### ServerException

These errors are usually caused by a server-side issue.

Amazon FC2 Container Registry API Reference								
Amazon EC2 Container Registry API Reference Errors								

# **PutImage**

Creates or updates the image manifest associated with an image.

#### Note

This operation is used by the Amazon ECR proxy, and it is not intended for general use by customers. Use the docker CLI to pull, tag, and push images.

## Request Syntax

```
{
    "imageManifest": "string",
    "registryId": "string",
    "repositoryName": "string"
}
```

# Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 63).

The request accepts the following data in JSON format.

#### imageManifest (p. 44)

The image manifest corresponding to the image to be uploaded.

Type: String Required: Yes

#### registryld (p. 44)

The AWS account ID associated with the registry that contains the repository in which to put the image. If you do not specify a registry, the default registry is assumed.

Type: String
Pattern: [0-9]{12}
Required: No

#### repositoryName (p. 44)

The name of the repository in which to put the image.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 256.

Pattern:  $(?:[a-z0-9]+(?:[._-][a-z0-9]+)*/)*[a-z0-9]+(?:[._-][a-z0-9]+)*$ 

Required: Yes

# Response Syntax

```
{
    "image": {
        "imageId": {
            "imageDigest": "string",
            "imageTag": "string"
        },
        "imageManifest": "string",
        "registryId": "string",
        "repositoryName": "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.

#### image (p. 44)

Details of the image uploaded.

Type: Image (p. 55) object

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 65).

#### ImageAlreadyExistsException

The specified image has already been pushed, and there are no changes to the manifest or image tag since the last push.

HTTP Status Code: 400

#### InvalidParameterException

The specified parameter is invalid. Review the available parameters for the API request.

HTTP Status Code: 400 LayersNotFoundException

The specified layers could not be found, or the specified layer is not valid for this repository.

HTTP Status Code: 400 LimitExceededException

The operation did not succeed because it would have exceeded a service limit for your account. For more information, see Amazon ECR Default Service Limits in the Amazon EC2 Container Registry User Guide.

HTTP Status Code: 400

RepositoryNotFoundException

The specified repository could not be found. Check the spelling of the specified repository and ensure that you are performing operations on the correct registry.

HTTP Status Code: 400

#### ServerException

These errors are usually caused by a server-side issue.

# SetRepositoryPolicy

Applies a repository policy on a specified repository to control access permissions.

## Request Syntax

```
{
    "force": boolean,
    "policyText": "string",
    "registryId": "string",
    "repositoryName": "string"
}
```

# Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 63).

The request accepts the following data in JSON format.

#### force (p. 46)

If the policy you are attempting to set on a repository policy would prevent you from setting another policy in the future, you must force the SetRepositoryPolicy (p. 46) operation. This is intended to prevent accidental repository lock outs.

Type: Boolean Required: No policyText (p. 46)

The JSON repository policy text to apply to the repository.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

Required: Yes registryld (p. 46)

The AWS account ID associated with the registry that contains the repository. If you do not specify a registry, the default registry is assumed.

Type: String
Pattern: [0-9]{12}
Required: No
repositoryName (p. 46)

The name of the repository to receive the policy.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 256.

Pattern: (?:[a-z0-9]+(?:[.\_-][a-z0-9]+)\*/)\*[a-z0-9]+(?:[.\_-][a-z0-9]+)\*

Required: Yes

# Response Syntax

```
{
    "policyText": "string",
    "registryId": "string",
    "repositoryName": "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.

#### policyText (p. 46)

The JSON repository policy text applied to the repository.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

#### registryld (p. 46)

The registry ID associated with the request.

Type: String

Pattern: [0-9] {12}

#### repositoryName (p. 46)

The repository name associated with the request.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 256.

Pattern: (?:[a-z0-9]+(?:[.\_-][a-z0-9]+)\*/)\*[a-z0-9]+(?:[.\_-][a-z0-9]+)\*

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 65).

#### InvalidParameterException

The specified parameter is invalid. Review the available parameters for the API request.

HTTP Status Code: 400

#### RepositoryNotFoundException

The specified repository could not be found. Check the spelling of the specified repository and ensure that you are performing operations on the correct registry.

HTTP Status Code: 400

#### ServerException

These errors are usually caused by a server-side issue.

HTTP Status Code: 500

### Example

In the following example or examples, the Authorization header contents (AUTHPARAMS) must be replaced with an AWS Signature Version 4 signature. For more information about creating these signatures, see Signature Version 4 Signing Process in the AWS General Reference.

You only need to learn how to sign HTTP requests if you intend to manually create them. When you use the AWS Command Line Interface (AWS CLI) or one of the AWS SDKs to make requests to AWS, these tools automatically sign the requests for you with the access key that you specify when you configure the tools. When you use these tools, you don't need to learn how to sign requests yourself.

### Example

The following example sets a repository policy on the ubuntu repository that allows all AWS accounts to pull from it.

#### Sample Request

```
POST / HTTP/1.1
Host: ecr.us-east-1.amazonaws.com
```

#### Amazon EC2 Container Registry API Reference Example

```
Accept-Encoding: identity
Content-Length: 223
X-Amz-Target: AmazonEC2ContainerRegistry_V20150921.SetRepositoryPolicy
X-Amz-Date: 20151214T235302Z
User-Agent: aws-cli/1.9.10 Python/2.7.10 Darwin/14.5.0 botocore/1.3.10
Content-Type: application/x-amz-json-1.1
Authorization: AWUTHPARAMS

{
    "policyText": "{\"Version\":\"2012-10-17\",\"Statement\":[{\"Sid\":\"AllowPull\",\"Effect\":\"Allow\",\"Action\":[\"ecr:BatchGetImage\",\"ecr:GetDownloadUrlForLayer\"],\"Principal\":\"*\"}]}\n",
    "repositoryName": "ubuntu"
}
```

#### Sample Response

```
HTTP/1.1 200 OK
Server: Server
Date: Mon, 14 Dec 2015 23:53:02 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 301
Connection: keep-alive
x-amzn-RequestId: cfc3ead9-a2bd-11e5-91c7-7126cb670c2b

{
    "policyText": "{\n \"Version\" : \"2012-10-17\",\n \"Statement\" :
    [ {\n \"Sid\" : \"AllowPull\",\n \"Effect\" : \"Allow\",\n \"Principal\" : \"*\",\n \"Action\" : [ \"ecr:BatchGetImage\", \"ecr:GetDownloadUrlForLayer\" ]\n } ]\n}",
    "registryId": "012345678910",
    "repositoryName": "ubuntu"
}
```

# **UploadLayerPart**

Uploads an image layer part to Amazon ECR.

#### Note

This operation is used by the Amazon ECR proxy, and it is not intended for general use by customers. Use the docker CLI to pull, tag, and push images.

# Request Syntax

```
{
    "layerPartBlob": blob,
    "partFirstByte": number,
    "partLastByte": number,
    "registryId": "string",
    "repositoryName": "string",
    "uploadId": "string"
}
```

## Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 63).

The request accepts the following data in JSON format.

```
layerPartBlob (p. 49)
```

The base64-encoded layer part payload.

Type: Base64-encoded binary data

Required: Yes

#### partFirstByte (p. 49)

The integer value of the first byte of the layer part.

Type: Long

Valid Range: Minimum value of 0.

Required: Yes

#### partLastByte (p. 49)

The integer value of the last byte of the layer part.

Type: Long

Valid Range: Minimum value of 0.

Required: Yes registryld (p. 49)

The AWS account ID associated with the registry that you are uploading layer parts to. If you do not specify a registry, the default registry is assumed.

Type: String
Pattern: [0-9]{12}

Required: No

#### repositoryName (p. 49)

The name of the repository that you are uploading layer parts to.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 256.

Pattern:  $(?:[a-z0-9]+(?:[._-][a-z0-9]+)*/)*[a-z0-9]+(?:[._-][a-z0-9]+)*$ 

Required: Yes

#### uploadld (p. 49)

The upload ID from a previous InitiateLayerUpload (p. 39) operation to associate with the layer part upload.

Type: String

Pattern:  $[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F$ 

fA-F] {12} Required: Yes

# Response Syntax

```
{
   "lastByteReceived": number,
   "registryId": "string",
   "repositoryName": "string",
   "uploadId": "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.

#### lastByteReceived (p. 50)

The integer value of the last byte received in the request.

Type: Long

Valid Range: Minimum value of 0.

#### registryld (p. 50)

The registry ID associated with the request.

Type: String
Pattern: [0-9]{12}

#### repositoryName (p. 50)

The repository name associated with the request.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 256.

 $\textbf{Pattern: } (?:[a-z0-9]+(?:[.\_-][a-z0-9]+)*/)*[a-z0-9]+(?:[.\_-][a-z0-9]+)* \\$ 

#### uploadld (p. 50)

The upload ID associated with the request.

Type: String

Pattern:  $[0-9a-fA-F]{8}-[0-9a-fA-F]{4}-[0-9a-fA-F$ 

### **Errors**

For information about the errors that are common to all actions, see Common Errors (p. 65).

#### InvalidLayerPartException

The layer part size is not valid, or the first byte specified is not consecutive to the last byte of a previous layer part upload.

HTTP Status Code: 400

#### InvalidParameterException

The specified parameter is invalid. Review the available parameters for the API request.

#### Amazon EC2 Container Registry API Reference Errors

HTTP Status Code: 400

#### LimitExceededException

The operation did not succeed because it would have exceeded a service limit for your account. For more information, see Amazon ECR Default Service Limits in the Amazon EC2 Container Registry User Guide.

HTTP Status Code: 400

#### RepositoryNotFoundException

The specified repository could not be found. Check the spelling of the specified repository and ensure that you are performing operations on the correct registry.

HTTP Status Code: 400

#### ServerException

These errors are usually caused by a server-side issue.

HTTP Status Code: 500

# **UploadNotFoundException**The upload could not be found, or the specified upload id is not valid for this repository.

# Data Types

The Amazon EC2 Container Registry 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:

- AuthorizationData (p. 53)
- DescribeImagesFilter (p. 54)
- Image (p. 55)
- ImageDetail (p. 56)
- ImageFailure (p. 57)
- Imageldentifier (p. 58)
- Layer (p. 59)
- LayerFailure (p. 60)
- ListImagesFilter (p. 61)
- Repository (p. 62)

# **AuthorizationData**

An object representing authorization data for an Amazon ECR registry.

### Contents

#### authorizationToken

A base64-encoded string that contains authorization data for the specified Amazon ECR registry. When the string is decoded, it is presented in the format user:password for private registry authentication using docker login.

Type: String
Pattern: ^\S+\$
Required: No

#### expiresAt

The Unix time in seconds and milliseconds when the authorization token expires. Authorization tokens are valid for 12 hours.

Type: Timestamp Required: No proxyEndpoint

The registry URL to use for this authorization token in a docker login command. The Amazon ECR registry URL format is https://aws\_account\_id.dkr.ecr.region.amazonaws.com. For example, https://012345678910.dkr.ecr.us-east-1.amazonaws.com.

Type: String Required: No

# DescribeImagesFilter

An object representing a filter on a Describelmages (p. 24) operation.

# **Contents**

#### tagStatus

The tag status with which to filter your Describelmages (p. 24) results. You can filter results based on whether they are TAGGED or UNTAGGED.

Type: String

Valid Values: TAGGED | UNTAGGED

# **Image**

An object representing an Amazon ECR image.

### **Contents**

#### imageld

An object containing the image tag and image digest associated with an image.

Type: ImageIdentifier (p. 58) object

Required: No imageManifest

The image manifest associated with the image.

Type: String Required: No

#### registryld

The AWS account ID associated with the registry containing the image.

Type: String
Pattern: [0-9]{12}
Required: No
repositoryName

The name of the repository associated with the image.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 256.

Pattern:  $(?:[a-z0-9]+(?:[._-][a-z0-9]+)*/)*[a-z0-9]+(?:[._-][a-z0-9]+)*$ 

# **ImageDetail**

An object that describes an image returned by a Describelmages (p. 24) operation.

### Contents

#### imageDigest

The sha256 digest of the image manifest.

Type: String Required: No

#### imagePushedAt

The date and time, expressed in standard JavaScript date format, at which the current image was pushed to the repository.

Type: Timestamp Required: No

#### imageSizeInBytes

The size, in bytes, of the image in the repository.

#### Note

Beginning with Docker version 1.9, the Docker client compresses image layers before pushing them to a V2 Docker registry. The output of the docker images command shows the uncompressed image size, so it may return a larger image size than the image sizes returned by Describelmages (p. 24).

Type: Long Required: No

#### imageTags

The list of tags associated with this image.

Type: array of Strings

Required: No

#### registryld

The AWS account ID associated with the registry to which this image belongs.

Type: String
Pattern: [0-9]{12}
Required: No

#### repositoryName

The name of the repository to which this image belongs.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 256.

Pattern: (?:[a-z0-9]+(?:[..-][a-z0-9]+)\*/)\*[a-z0-9]+(?:[..-][a-z0-9]+)\*

# **ImageFailure**

An object representing an Amazon ECR image failure.

### **Contents**

#### failureCode

The code associated with the failure.

Type: String

Valid Values: InvalidImageDigest | InvalidImageTag |

ImageTagDoesNotMatchDigest | ImageNotFound | MissingDigestAndTag

Required: No failureReason

The reason for the failure.

Type: String Required: No

imageld

The image ID associated with the failure.

Type: ImageIdentifier (p. 58) object

# **ImageIdentifier**

An object with identifying information for an Amazon ECR image.

# **Contents**

#### imageDigest

The sha256 digest of the image manifest.

Type: String Required: No

#### imageTag

The tag used for the image.

Type: String Required: No

# Layer

An object representing an Amazon ECR image layer.

### **Contents**

#### layerAvailability

The availability status of the image layer. Valid values are AVAILABLE and UNAVAILABLE.

Type: String

Valid Values: AVAILABLE | UNAVAILABLE

Required: No

#### layerDigest

The sha256 digest of the image layer.

Type: String

Pattern: [a-zA-Z0-9-\_+.]+:[a-fA-F0-9]+

Required: No

#### **layerSize**

The size, in bytes, of the image layer.

Type: Long Required: No

# LayerFailure

An object representing an Amazon ECR image layer failure.

### **Contents**

#### failureCode

The failure code associated with the failure.

Type: String

Valid Values: InvalidLayerDigest | MissingLayerDigest

Required: No failureReason

The reason for the failure.

Type: String Required: No

layerDigest

The layer digest associated with the failure.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1000.

# ListImagesFilter

An object representing a filter on a ListImages (p. 41) operation.

# **Contents**

#### tagStatus

The tag status with which to filter your ListImages (p. 41) results. You can filter results based on whether they are TAGGED or UNTAGGED.

Type: String

Valid Values: TAGGED | UNTAGGED

# Repository

An object representing a repository.

### Contents

#### createdAt

The date and time, in JavaScript date/time format, when the repository was created.

Type: Timestamp Required: No

#### registryld

The AWS account ID associated with the registry that contains the repository.

Type: String
Pattern: [0-9]{12}
Required: No

#### repositoryArn

The Amazon Resource Name (ARN) that identifies the repository. The ARN contains the arn:aws:ecr namespace, followed by the region of the repository, the AWS account ID of the repository owner, the repository namespace, and then the repository name. For example, arn:aws:ecr:region:012345678910:repository/test.

Type: String Required: No

#### repositoryName

The name of the repository.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 256.

Pattern: (?:[a-z0-9]+(?:[..-][a-z0-9]+)\*/)\*[a-z0-9]+(?:[..-][a-z0-9]+)\*

Required: No repositoryUri

The URI for the repository. You can use this URI for Docker push and pull operations.

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.

#### 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.