API Reference

Amazon Elastic Container Registry

API Version 2015-09-21

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Amazon Elastic Container Registry: API Reference

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Welcome

Amazon Elastic Container Registry (Amazon ECR) is a managed container image registry service. Customers can use the familiar Docker CLI, or their preferred client, to push, pull, and manage images. Amazon ECR provides a secure, scalable, and reliable registry for your Docker or Open Container Initiative (OCI) images. Amazon ECR supports private repositories with resource-based permissions using IAM so that specific users or Amazon EC2 instances can access repositories and images.

Amazon ECR has service endpoints in each supported Region. For more information, see Amazon ECR endpoints in the *AWS General Reference*.

This document was last published on March 13, 2026.

Actions

The following actions are supported:

- BatchCheckLayerAvailability
- BatchDeleteImage
- BatchGetImage
- BatchGetRepositoryScanningConfiguration
- CompleteLayerUpload
- CreatePullThroughCacheRule
- CreateRepository
- CreateRepositoryCreationTemplate
- DeleteLifecyclePolicy
- DeletePullThroughCacheRule
- DeleteRegistryPolicy
- DeleteRepository
- DeleteRepositoryCreationTemplate
- DeleteRepositoryPolicy
- DeleteSigningConfiguration
- DeregisterPullTimeUpdateExclusion
- DescribeImageReplicationStatus
- DescribeImages
- DescribeImageScanFindings
- DescribeImageSigningStatus
- DescribePullThroughCacheRules
- DescribeRegistry
- DescribeRepositories
- DescribeRepositoryCreationTemplates
- GetAccountSetting
- GetAuthorizationToken
- GetDownloadUrlForLayer

- GetLifecyclePolicy
- GetLifecyclePolicyPreview
- GetRegistryPolicy
- GetRegistryScanningConfiguration
- GetRepositoryPolicy
- GetSigningConfiguration
- InitiateLayerUpload
- ListImageReferrers
- ListImages
- ListPullTimeUpdateExclusions
- ListTagsForResource
- PutAccountSetting
- PutImage
- PutImageScanningConfiguration
- PutImageTagMutability
- PutLifecyclePolicy
- PutRegistryPolicy
- PutRegistryScanningConfiguration
- PutReplicationConfiguration
- PutSigningConfiguration
- RegisterPullTimeUpdateExclusion
- SetRepositoryPolicy
- StartImageScan
- StartLifecyclePolicyPreview
- TagResource
- UntagResource
- UpdateImageStorageClass
- UpdatePullThroughCacheRule
- UpdateRepositoryCreationTemplate
- UploadLayerPart

- ValidatePullThroughCacheRule

BatchCheckLayerAvailability

Checks the availability of one or more image layers in a repository.

When an image is pushed to a repository, each image layer is checked to verify if it has been uploaded before. If it has been uploaded, then the image layer is skipped.

> **Note**
>
> This operation is used by the Amazon ECR proxy and is not generally used by customers for pulling and pushing images. In most cases, you should use the `docker` 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.

The request accepts the following data in JSON format.

layerDigests

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

registryId

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

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

```
{
   "failures": [
      {
         "failureCode": "string",
         "failureReason": "string",
         "layerDigest": "string"
      }
   ],
   "layers": [
      {
         "layerAvailability": "string",
         "layerDigest": "string",
         "layerSize": number,
         "mediaType": "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

Any failures associated with the call.

Type: Array of LayerFailure objects

layers

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

Type: Array of Layer objects

Errors

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

InvalidParameterException

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

message

The error message associated with the exception.

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.

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

Examples

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 `amazonlinux` repository.

Sample Request

```
POST / HTTP/1.1
Host: ecr.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 126
X-Amz-Target: AmazonEC2ContainerRegistry_V20150921.BatchCheckLayerAvailability
X-Amz-Date: 20161216T195733Zc
User-Agent: aws-cli/1.11.22 Python/2.7.12 Darwin/16.3.0 botocore/1.4.79
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS

{
  "layerDigests": [
    "sha256:8e3fa21c4cc40232e835a6761332d225c7af3235c5755f44ada2ed9d0e4ab7e8"
  ],
```

```
  "repositoryName": "amazonlinux"
}
```

Sample Response

```
HTTP/1.1 200 OK
Server: Server
Date: Fri, 16 Dec 2016 19:57:33 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 233
Connection: keep-alive
x-amzn-RequestId: e2422faf-c3c9-11e6-a3ee-63b3b5dcf3b9

{
  "failures": [],
  "layers": [
    {
      "layerAvailability": "AVAILABLE",
      "layerDigest":
 "sha256:8e3fa21c4cc40232e835a6761332d225c7af3235c5755f44ada2ed9d0e4ab7e8",
      "layerSize": 91768077,
      "mediaType": "application/vnd.docker.image.rootfs.diff.tar.gzip"
    }
  ]
}
```

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3

- AWS SDK for Python
- AWS SDK for Ruby V3

BatchDeleteImage

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

You can remove a tag from an image by specifying the image's tag in your request. When you remove the last tag from an image, the image is deleted from your repository.

You can completely delete an image (and all of its tags) by specifying the image's digest in your request.

Request Syntax

```
{
   "imageIds": [
      {
         "imageDigest": "string",
         "imageTag": "string"
      }
   ],
   "registryId": "string",
   "repositoryName": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

imageIds

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

Type: Array of ImageIdentifier objects

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

Required: Yes

registryId

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

The repository that contains the image 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

```
{
   "failures": [
      {
         "failureCode": "string",
         "failureReason": "string",
         "imageId": {
            "imageDigest": "string",
            "imageTag": "string"
         }
      }
   ],
   "imageIds": [
      {
         "imageDigest": "string",
         "imageTag": "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

Any failures associated with the call.

Type: Array of ImageFailure objects

imageIds

The image IDs of the deleted images.

Type: Array of ImageIdentifier 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.

InvalidParameterException

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

message

The error message associated with the exception.

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.

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

Examples

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 `xenial`.

Sample Request

```
POST / HTTP/1.1
Host: ecr.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 66
X-Amz-Target: AmazonEC2ContainerRegistry_V20150921.BatchDeleteImage
X-Amz-Date: 20161216T193711Z
User-Agent: aws-cli/1.11.22 Python/2.7.12 Darwin/16.3.0 botocore/1.4.79
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS

{
  "repositoryName": "ubuntu",
  "imageIds": [
    {
```

```
      "imageTag": "xenial"
    }
  ]
}
```

Sample Response

```
HTTP/1.1 200 OK
Server: Server
Date: Fri, 16 Dec 2016 19:37:11 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 138
Connection: keep-alive
x-amzn-RequestId: 09cc7023-c3c7-11e6-8acf-61b7dd8abe56

{
  "failures": [],
  "imageIds": [
    {
      "imageDigest":
 "sha256:7a64bc9c8843b0a8c8b8a7e4715b7615e4e1b0d8ca3c7e7a76ec8250899c397a",
      "imageTag": "xenial"
    }
  ]
}
```

Example

This example deletes an image (and all of its tags) in the `ubuntu` repository with the `imageDigest` value of `sha256:7a64bc9c8843b0a8c8b8a7e4715b7615e4e1b0d8ca3c7e7a76ec8250899c397a`.

Sample Request

```
POST / HTTP/1.1
Host: ecr.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 134
X-Amz-Target: AmazonEC2ContainerRegistry_V20150921.BatchDeleteImage
X-Amz-Date: 20161216T194250Z
User-Agent: aws-cli/1.11.22 Python/2.7.12 Darwin/16.3.0 botocore/1.4.79
Content-Type: application/x-amz-json-1.1
```

```
Authorization: AUTHPARAMS

{
  "repositoryName": "ubuntu",
  "imageIds": [
    {
      "imageDigest":
 "sha256:7a64bc9c8843b0a8c8b8a7e4715b7615e4e1b0d8ca3c7e7a76ec8250899c397a"
    }
  ]
}
```

Sample Response

```
HTTP/1.1 200 OK
Server: Server
Date: Fri, 16 Dec 2016 19:42:50 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 248
Connection: keep-alive
x-amzn-RequestId: d441a9f6-c3c7-11e6-8acf-61b7dd8abe56

{
  "failures": [],
  "imageIds": [
    {
      "imageDigest":
 "sha256:7a64bc9c8843b0a8c8b8a7e4715b7615e4e1b0d8ca3c7e7a76ec8250899c397a",
      "imageTag": "xenial"
    },
    {
      "imageDigest":
 "sha256:7a64bc9c8843b0a8c8b8a7e4715b7615e4e1b0d8ca3c7e7a76ec8250899c397a",
      "imageTag": "latest"
    }
  ]
}
```

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

BatchGetImage

Gets detailed information for an image. Images are specified with either an `imageTag` or `imageDigest`.

When an image is pulled, the BatchGetImage API is called once to retrieve the image manifest.

Request Syntax

```
{
   "acceptedMediaTypes": [ "string" ],
   "imageIds": [
      {
         "imageDigest": "string",
         "imageTag": "string"
      }
   ],
   "registryId": "string",
   "repositoryName": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

acceptedMediaTypes

The accepted media types for the request.

Valid values: `application/vnd.docker.distribution.manifest.v1+json` | `application/vnd.docker.distribution.manifest.v2+json` | `application/vnd.oci.image.manifest.v1+json`

Type: Array of strings

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

Required: No

imageIds

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

Type: Array of ImageIdentifier objects

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

Required: Yes

registryId

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

The repository that contains the images to describe.

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

```
{
   "failures": [
      {
         "failureCode": "string",
         "failureReason": "string",
         "imageId": {
            "imageDigest": "string",
```

```
            "imageTag": "string"
         }
      }
   ],
   "images": [
      {
         "imageId": {
            "imageDigest": "string",
            "imageTag": "string"
         },
         "imageManifest": "string",
         "imageManifestMediaType": "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

Any failures associated with the call.

Type: Array of ImageFailure objects

images

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

Type: Array of Image objects

Errors

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

InvalidParameterException

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

message

The error message associated with the exception.

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 service quotas in the Amazon Elastic Container Registry User Guide.

message

The error message associated with the exception.

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.

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

UnableToGetUpstreamImageException

The image or images were unable to be pulled using the pull through cache rule. This is usually caused because of an issue with the Secrets Manager secret containing the credentials for the upstream registry.

HTTP Status Code: 400

Examples

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 `amazonlinux` repository with the `imageTag` value of `latest`.

Sample Request

```
POST / HTTP/1.1
Host: ecr.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 71
X-Amz-Target: AmazonEC2ContainerRegistry_V20150921.BatchGetImage
X-Amz-Date: 20161216T195356Z
User-Agent: aws-cli/1.11.22 Python/2.7.12 Darwin/16.3.0 botocore/1.4.79
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS

{
  "repositoryName": "amazonlinux",
  "imageIds": [
    {
      "imageTag": "latest"
    }
  ]
}
```

Sample Response

```
HTTP/1.1 200 OK
Server: Server
```

```
Date: Fri, 16 Dec 2016 19:53:56 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 800
Connection: keep-alive
x-amzn-RequestId: 60dc1ea1-c3c9-11e6-aa04-25c3a5fb1b54

{
  "failures": [],
  "images": [
    {
      "imageId": {
        "imageDigest":
 "sha256:f1d4ae3f7261a72e98c6ebefe9985cf10a0ea5bd762585a43e0700ed99863807",
        "imageTag": "latest"
      },
      "imageManifest": "{\n   \"schemaVersion\": 2,\n   \"mediaType
\": \"application/vnd.docker.distribution.manifest.v2+json
\",\n   \"config\": {\n      \"mediaType\": \"application/
vnd.docker.container.image.v1+json\",\n      \"size\": 1486,\n      \"digest\":
 \"sha256:5b52b314511a611975c2c65e695d920acdf8ae8848fe0ef00b7d018d1f118b64\"\n
   },\n   \"layers\": [\n      {\n         \"mediaType\": \"application/
vnd.docker.image.rootfs.diff.tar.gzip\",\n         \"size\": 91768077,\n
 \"digest\":
 \"sha256:8e3fa21c4cc40232e835a6761332d225c7af3235c5755f44ada2ed9d0e4ab7e8\"\n      }\n
   ]\n}",
      "registryId": "012345678910",
      "repositoryName": "amazonlinux"
    }
  ]
}
```

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

BatchGetRepositoryScanningConfiguration

Gets the scanning configuration for one or more repositories.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

repositoryNames

One or more repository names to get the scanning configuration for.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 25 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: Yes

Response Syntax

```
{
   "failures": [
      {
         "failureCode": "string",
         "failureReason": "string",
         "repositoryName": "string"
      }
```

```
    ],
    "scanningConfigurations": [
       {
          "appliedScanFilters": [
             {
                "filter": "string",
                "filterType": "string"
             }
          ],
          "repositoryArn": "string",
          "repositoryName": "string",
          "scanFrequency": "string",
          "scanOnPush": boolean
       }
    ]
}
```

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

Any failures associated with the call.

Type: Array of RepositoryScanningConfigurationFailure objects

scanningConfigurations

The scanning configuration for the requested repositories.

Type: Array of RepositoryScanningConfiguration objects

Errors

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

InvalidParameterException

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

message

The error message associated with the exception.

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.

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

ValidationException

There was an exception validating this request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CompleteLayerUpload

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

When an image is pushed, the CompleteLayerUpload API is called once per each new image layer to verify that the upload has completed.

> **Note**
>
> This operation is used by the Amazon ECR proxy and is not generally used by customers for pulling and pushing images. In most cases, you should 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.

The request accepts the following data in JSON format.

layerDigests

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

registryId

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

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

uploadId

The upload ID from a previous InitiateLayerUpload operation to associate with the image layer.

Type: String

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

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

The sha256 digest of the image layer.

Type: String

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

registryId

The registry ID associated with the request.

Type: String

Pattern: [0-9]{12}

repositoryName

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]+)*)*

uploadId

The upload ID associated with the layer.

Type: String

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

Errors

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

EmptyUploadException

The specified layer upload does not contain any layer parts.

message

The error message associated with the exception.

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.

message

The error message associated with the exception.

HTTP Status Code: 400

InvalidParameterException

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

message

The error message associated with the exception.

HTTP Status Code: 400

KmsException

The operation failed due to a KMS exception.

kmsError

The error code returned by AWS KMS.

HTTP Status Code: 400

LayerAlreadyExistsException

The image layer already exists in the associated repository.

message

The error message associated with the exception.

HTTP Status Code: 400

LayerPartTooSmallException

Layer parts must be at least 5 MiB in size.

message

The error message associated with the exception.

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.

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

UploadNotFoundException

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

message

The error message associated with the exception.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreatePullThroughCacheRule

Creates a pull through cache rule. A pull through cache rule provides a way to cache images from an upstream registry source in your Amazon ECR private registry. For more information, see Using pull through cache rules in the *Amazon Elastic Container Registry User Guide*.

Request Syntax

```
{
   "credentialArn": "string",
   "customRoleArn": "string",
   "ecrRepositoryPrefix": "string",
   "registryId": "string",
   "upstreamRegistry": "string",
   "upstreamRegistryUrl": "string",
   "upstreamRepositoryPrefix": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

credentialArn

The Amazon Resource Name (ARN) of the AWS Secrets Manager secret that identifies the credentials to authenticate to the upstream registry.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 612.

Pattern: `^arn:aws(-\w+)*:secretsmanager:[a-zA-Z0-9-:]+:secret:ecr\-pullthroughcache\/[a-zA-Z0-9\/_+=.@-]+$`

Required: No

customRoleArn

Amazon Resource Name (ARN) of the IAM role to be assumed by Amazon ECR to authenticate to the ECR upstream registry. This role must be in the same account as the registry that you are configuring.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

ecrRepositoryPrefix

The repository name prefix to use when caching images from the source registry.

> **Important**
>
> There is always an assumed / applied to the end of the prefix. If you specify `ecr-public` as the prefix, Amazon ECR treats that as `ecr-public/`.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 30.

Pattern: `^([a-z0-9]+((\.|_|__|-+)[a-z0-9]+)*(\/[a-z0-9]+((\.|_|__|-+)[a-z0-9]+)*)*\/?|ROOT)$`

Required: Yes

registryId

The AWS account ID associated with the registry to create the pull through cache rule for. If you do not specify a registry, the default registry is assumed.

Type: String

Pattern: `[0-9]{12}`

Required: No

upstreamRegistry

The name of the upstream registry.

Type: String

Valid Values: `ecr | ecr-public | quay | k8s | docker-hub | github-container-registry | azure-container-registry | gitlab-container-registry`

Required: No

upstreamRegistryUrl

The registry URL of the upstream public registry to use as the source for the pull through cache rule. The following is the syntax to use for each supported upstream registry.

- Amazon ECR (`ecr`) – `<accountId>.dkr.ecr.<region>.amazonaws.com`
- Amazon ECR Public (`ecr-public`) – `public.ecr.aws`
- Docker Hub (`docker-hub`) – `registry-1.docker.io`
- GitHub Container Registry (`github-container-registry`) – `ghcr.io`
- GitLab Container Registry (`gitlab-container-registry`) – `registry.gitlab.com`
- Kubernetes (`k8s`) – `registry.k8s.io`
- Microsoft Azure Container Registry (`azure-container-registry`) – `<custom>.azurecr.io`
- Quay (`quay`) – `quay.io`

Type: String

Required: Yes

upstreamRepositoryPrefix

The repository name prefix of the upstream registry to match with the upstream repository name. When this field isn't specified, Amazon ECR will use the `ROOT`.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 30.

Pattern: `^([a-z0-9]+((\.|_|__|-+)[a-z0-9]+)*(\/[a-z0-9]+((\.|_|__|-+)[a-z0-9]+)*)*\/?|ROOT)$`

Required: No

Response Syntax

```
{
   "createdAt": number,
```

```
    "credentialArn": "string",
    "customRoleArn": "string",
    "ecrRepositoryPrefix": "string",
    "registryId": "string",
    "upstreamRegistry": "string",
    "upstreamRegistryUrl": "string",
    "upstreamRepositoryPrefix": "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.

createdAt

The date and time, in JavaScript date format, when the pull through cache rule was created.

Type: Timestamp

credentialArn

The Amazon Resource Name (ARN) of the AWS Secrets Manager secret associated with the pull through cache rule.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 612.

Pattern: `^arn:aws(-\w+)*:secretsmanager:[a-zA-Z0-9-:]+:secret:ecr\-pullthroughcache\/[a-zA-Z0-9\/_+=.@-]+$`

customRoleArn

The ARN of the IAM role associated with the pull through cache rule.

Type: String

Length Constraints: Maximum length of 2048.

ecrRepositoryPrefix

The Amazon ECR repository prefix associated with the pull through cache rule.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 30.

Pattern: `^([a-z0-9]+((\.|_|__|-+)[a-z0-9]+)*(\/[a-z0-9]+((\.|_|__|-+)[a-z0-9]+)*)*\/?|ROOT)$`

registryId

The registry ID associated with the request.

Type: String

Pattern: `[0-9]{12}`

upstreamRegistry

The name of the upstream registry associated with the pull through cache rule.

Type: String

Valid Values: `ecr | ecr-public | quay | k8s | docker-hub | github-container-registry | azure-container-registry | gitlab-container-registry`

upstreamRegistryUrl

The upstream registry URL associated with the pull through cache rule.

Type: String

upstreamRepositoryPrefix

The upstream repository prefix associated with the pull through cache rule.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 30.

Pattern: `^([a-z0-9]+((\.|_|__|-+)[a-z0-9]+)*(\/[a-z0-9]+((\.|_|__|-+)[a-z0-9]+)*)*\/?|ROOT)$`

Errors

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

InvalidParameterException

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

message

The error message associated with the exception.

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 service quotas in the Amazon Elastic Container Registry User Guide.

message

The error message associated with the exception.

HTTP Status Code: 400

PullThroughCacheRuleAlreadyExistsException

A pull through cache rule with these settings already exists for the private registry.

HTTP Status Code: 400

SecretNotFoundException

The ARN of the secret specified in the pull through cache rule was not found. Update the pull through cache rule with a valid secret ARN and try again.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

UnableToAccessSecretException

The secret is unable to be accessed. Verify the resource permissions for the secret and try again.

HTTP Status Code: 400

UnableToDecryptSecretValueException

The secret is accessible but is unable to be decrypted. Verify the resource permisisons and try again.

HTTP Status Code: 400

UnsupportedUpstreamRegistryException

The specified upstream registry isn't supported.

HTTP Status Code: 400

ValidationException

There was an exception validating this request.

HTTP Status Code: 400

Examples

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 pull through cache rule for Docker Hub in the default registry for an account.

Sample Request

```
POST / HTTP/1.1
Host: api.ecr.us-west-2.amazonaws.com
Accept-Encoding: identity
```

```
X-Amz-Target: AmazonEC2ContainerRegistry_V20150921.CreatePullThroughCacheRule
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/2.13.22 Python/3.11.5 Darwin/16.7.0 botocore/1.12.180
X-Amz-Date: 20231003T155747Z
Authorization: AUTHPARAMS
Content-Length: 268

{
   "ecrRepositoryPrefix":"docker_hub",
   "upstreamRegistryUrl":"registry-1.docker.io",
   "credentialArn":"arn:aws:secretsmanager:us-
west-2:012345678910:secret:ECRPTCDockerHub-EXAMPLE"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 123a4b56-7c89-01d2-3ef4-example5678f
Content-Type: application/x-amz-json-1.1
Content-Length: 180
Connection: keep-alive

{
    "ecrRepositoryPrefix": "docker_hub",
    "upstreamRegistryUrl": "registry-1.docker.io",
    "createdAt": "2023-10-03T15:57:48.411000+00:00",
    "registryId": "012345678910",
    "upstreamRegistry": "docker-hub",
    "credentialArn": "arn:aws:secretsmanager:us-
west-2:012345678910:secret:ECRPTCDockerHub-EXAMPLE"
}
```

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2

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

CreateRepository

Creates a repository. For more information, see Amazon ECR repositories in the *Amazon Elastic Container Registry User Guide*.

Request Syntax

```
{
   "encryptionConfiguration": {
      "encryptionType": "string",
      "kmsKey": "string"
   },
   "imageScanningConfiguration": {
      "scanOnPush": boolean
   },
   "imageTagMutability": "string",
   "imageTagMutabilityExclusionFilters": [
      {
         "filter": "string",
         "filterType": "string"
      }
   ],
   "registryId": "string",
   "repositoryName": "string",
   "tags": [
      {
         "Key": "string",
         "Value": "string"
      }
   ]
}
```

Request Parameters

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

The request accepts the following data in JSON format.

encryptionConfiguration

The encryption configuration for the repository. This determines how the contents of your repository are encrypted at rest.

Type: EncryptionConfiguration object

Required: No

imageScanningConfiguration

> **Important**
>
> The `imageScanningConfiguration` parameter is being deprecated, in favor of specifying the image scanning configuration at the registry level. For more information, see `PutRegistryScanningConfiguration`.

The image scanning configuration for the repository. This determines whether images are scanned for known vulnerabilities after being pushed to the repository.

Type: ImageScanningConfiguration object

Required: No

imageTagMutability

The tag mutability setting for the repository. If this parameter is omitted, the default setting of `MUTABLE` will be used which will allow image tags to be overwritten. If `IMMUTABLE` is specified, all image tags within the repository will be immutable which will prevent them from being overwritten.

Type: String

Valid Values: `MUTABLE | IMMUTABLE | IMMUTABLE_WITH_EXCLUSION | MUTABLE_WITH_EXCLUSION`

Required: No

imageTagMutabilityExclusionFilters

A list of filters that specify which image tags should be excluded from the repository's image tag mutability setting.

Type: Array of ImageTagMutabilityExclusionFilter objects

Array Members: Minimum number of 1 item. Maximum number of 5 items.

Required: No

registryId

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

Type: String

Pattern: `[0-9]{12}`

Required: No

repositoryName

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`).

The repository name must start with a letter and can only contain lowercase letters, numbers, hyphens, underscores, and forward slashes.

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

tags

The metadata that you apply to the repository to help you categorize and organize them. Each tag consists of a key and an optional value, both of which you define. Tag keys can have a maximum character length of 128 characters, and tag values can have a maximum length of 256 characters.

Type: Array of Tag objects

Required: No

Response Syntax

```
{
```

```
    "repository": {
       "createdAt": number,
       "encryptionConfiguration": {
          "encryptionType": "string",
          "kmsKey": "string"
       },
       "imageScanningConfiguration": {
          "scanOnPush": boolean
       },
       "imageTagMutability": "string",
       "imageTagMutabilityExclusionFilters": [
          {
             "filter": "string",
             "filterType": "string"
          }
       ],
       "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

The repository that was created.

Type: Repository object

Errors

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

InvalidParameterException

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

message

The error message associated with the exception.

HTTP Status Code: 400

InvalidTagParameterException

An invalid parameter has been specified. Tag keys can have a maximum character length of 128 characters, and tag values can have a maximum length of 256 characters.

HTTP Status Code: 400

KmsException

The operation failed due to a KMS exception.

kmsError

The error code returned by AWS KMS.

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 service quotas in the Amazon Elastic Container Registry User Guide.

message

The error message associated with the exception.

HTTP Status Code: 400

RepositoryAlreadyExistsException

The specified repository already exists in the specified registry.

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

TooManyTagsException

The list of tags on the repository is over the limit. The maximum number of tags that can be applied to a repository is 50.

HTTP Status Code: 400

Examples

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 `sample-repo` in the default registry for an account.

Sample Request

```
POST / HTTP/1.1
Host: api.ecr.us-west-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonEC2ContainerRegistry_V20150921.CreateRepository
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.16.190 Python/3.6.1 Darwin/16.7.0 botocore/1.12.180
X-Amz-Date: 20190715T204735Z
Authorization: AUTHPARAMS
Content-Length: 33

{
```

```
   "repositoryName": "sample-repo"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 123a4b56-7c89-01d2-3ef4-example5678f
Content-Type: application/x-amz-json-1.1
Content-Length: 339
Connection: keep-alive

{
   "repository":{
      "repositoryArn":"arn:aws:ecr:us-west-2:012345678910:repository/sample-repo",
      "registryId":"012345678910",
      "repositoryName":"sample-repo",
      "repositoryUri":"012345678910.dkr.ecr.us-west-2.amazonaws.com/sample-repo",
      "createdAt":1.563223656E9,
      "imageTagMutability":"MUTABLE",
      "imageScanningConfiguration": {
            "scanOnPush": false
      }
   }
}
```

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python

- AWS SDK for Ruby V3

CreateRepositoryCreationTemplate

Creates a repository creation template. This template is used to define the settings for repositories created by Amazon ECR on your behalf. For example, repositories created through pull through cache actions. For more information, see Private repository creation templates in the *Amazon Elastic Container Registry User Guide*.

Request Syntax

```
{
   "appliedFor": [ "string" ],
   "customRoleArn": "string",
   "description": "string",
   "encryptionConfiguration": {
      "encryptionType": "string",
      "kmsKey": "string"
   },
   "imageTagMutability": "string",
   "imageTagMutabilityExclusionFilters": [
      {
         "filter": "string",
         "filterType": "string"
      }
   ],
   "lifecyclePolicy": "string",
   "prefix": "string",
   "repositoryPolicy": "string",
   "resourceTags": [
      {
         "Key": "string",
         "Value": "string"
      }
   ]
}
```

Request Parameters

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

The request accepts the following data in JSON format.

appliedFor

A list of enumerable strings representing the Amazon ECR repository creation scenarios that this template will apply towards. The supported scenarios are `PULL_THROUGH_CACHE`, `REPLICATION`, and `CREATE_ON_PUSH`

Type: Array of strings

Valid Values: `REPLICATION | PULL_THROUGH_CACHE | CREATE_ON_PUSH`

Required: Yes

customRoleArn

The ARN of the role to be assumed by Amazon ECR. This role must be in the same account as the registry that you are configuring. Amazon ECR will assume your supplied role when the customRoleArn is specified. When this field isn't specified, Amazon ECR will use the service-linked role for the repository creation template.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

description

A description for the repository creation template.

Type: String

Length Constraints: Maximum length of 256.

Required: No

encryptionConfiguration

The encryption configuration to use for repositories created using the template.

Type: EncryptionConfigurationForRepositoryCreationTemplate object

Required: No

imageTagMutability

The tag mutability setting for the repository. If this parameter is omitted, the default setting of `MUTABLE` will be used which will allow image tags to be overwritten. If `IMMUTABLE` is specified,

all image tags within the repository will be immutable which will prevent them from being overwritten.

Type: String

Valid Values: `MUTABLE | IMMUTABLE | IMMUTABLE_WITH_EXCLUSION | MUTABLE_WITH_EXCLUSION`

Required: No

imageTagMutabilityExclusionFilters

A list of filters that specify which image tags should be excluded from the repository creation template's image tag mutability setting.

Type: Array of ImageTagMutabilityExclusionFilter objects

Array Members: Minimum number of 1 item. Maximum number of 5 items.

Required: No

lifecyclePolicy

The lifecycle policy to use for repositories created using the template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 30720.

Required: No

prefix

The repository namespace prefix to associate with the template. All repositories created using this namespace prefix will have the settings defined in this template applied. For example, a prefix of `prod` would apply to all repositories beginning with `prod/`. Similarly, a prefix of `prod/team` would apply to all repositories beginning with `prod/team/`.

To apply a template to all repositories in your registry that don't have an associated creation template, you can use `ROOT` as the prefix.

> **Important**
>
> There is always an assumed `/` applied to the end of the prefix. If you specify `ecr-public` as the prefix, Amazon ECR treats that as `ecr-public/`. When using a pull

through cache rule, the repository prefix you specify during rule creation is what you should specify as your repository creation template prefix as well.

Type: String

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

Pattern: `^([a-z0-9]+((\.|_|__|-+)[a-z0-9]+)*(\/[a-z0-9]+((\.|_|__|-+)[a-z0-9]+)*)*\/?|ROOT)$`

Required: Yes

repositoryPolicy

The repository policy to apply to repositories created using the template. A repository policy is a permissions policy associated with a repository to control access permissions.

Type: String

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

Required: No

resourceTags

The metadata to apply to the repository to help you categorize and organize. Each tag consists of a key and an optional value, both of which you define. Tag keys can have a maximum character length of 128 characters, and tag values can have a maximum length of 256 characters.

Type: Array of Tag objects

Required: No

Response Syntax

```
{
   "registryId": "string",
   "repositoryCreationTemplate": {
      "appliedFor": [ "string" ],
```

```
        "createdAt": number,
        "customRoleArn": "string",
        "description": "string",
        "encryptionConfiguration": {
           "encryptionType": "string",
           "kmsKey": "string"
        },
        "imageTagMutability": "string",
        "imageTagMutabilityExclusionFilters": [
           {
              "filter": "string",
              "filterType": "string"
           }
        ],
        "lifecyclePolicy": "string",
        "prefix": "string",
        "repositoryPolicy": "string",
        "resourceTags": [
           {
              "Key": "string",
              "Value": "string"
           }
        ],
        "updatedAt": number
    }
}
```

Response Elements

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

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

registryId

The registry ID associated with the request.

Type: String

Pattern: `[0-9]{12}`

repositoryCreationTemplate

The details of the repository creation template associated with the request.

Type: RepositoryCreationTemplate object

Errors

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

InvalidParameterException

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

message

The error message associated with the exception.

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 service quotas in the Amazon Elastic Container Registry User Guide.

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

TemplateAlreadyExistsException

The repository creation template already exists. Specify a unique prefix and try again.

HTTP Status Code: 400

ValidationException

There was an exception validating this request.

HTTP Status Code: 400

Examples

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 creation template in the default registry for an account.

Sample Request

```
POST / HTTP/1.1
Host: ecr.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 1134
X-Amz-Target: AmazonEC2ContainerRegistry_V20150921.CreateRepositoryCreationTemplate
X-Amz-Date: 20231216T195356Z
User-Agent: aws-cli/1.11.22 Python/2.7.12 Darwin/16.3.0 botocore/1.4.79
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS

{
 "prefix": "eng/test",
 "description": "Repos for testing images",
 "encryptionConfiguration":
  {"encryptionType": "AES256"},
 "resourceTags":
  [
    {"Key": "environment",
     "Value": "test"}
  ],
 "imageTagMutability": "MUTABLE",
```

```
 "repositoryPolicy": "{\r\n  \"Version\": \"2012-10-17\",\r\n  \"Statement\": [\r\n
 {\r\n      \"Sid\": \"LambdaECRPullPolicy\",\r\n      \"Effect\": \"Allow\",\r\n
 \"Principal\": {\r\n        \"Service\": \"lambda.amazonaws.com\"\r\n      },\r\n
 \"Action\": \"ecr:BatchGetImage\"\r\n    }\r\n  ]\r\n}",
 "lifecyclePolicy": "{\r\n    \"rules\": [\r\n        {\r\n            \"rulePriority
\": 1,\r\n            \"description\": \"Expire images older than 14 days\",\r\n
     \"selection\": {\r\n                \"tagStatus\": \"untagged\",\r\n
  \"countType\": \"sinceImagePushed\",\r\n                \"countUnit\": \"days\",\r\n
              \"countNumber\": 14\r\n            },\r\n            \"action\": {\r\n
             \"type\": \"expire\"\r\n            }\r\n        }\r\n    ]\r\n}",
 "appliedFor":
  ["REPLICATION", "PULL_THROUGH_CACHE", "CREATE_ON_PUSH"]
}
```

Sample Response

```
HTTP/1.1 200 OK
Server: Server
Date: Sat, 16 Dec 2023 19:53:56 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 963
Connection: keep-alive
x-amzn-RequestId: 60dc1ea1-c3c9-11e6-aa04-25c3a5fb1b54


{
 "registryId": "012345678901",
 "repositoryCreationTemplate":
  {
   "appliedFor":
    ["REPLICATION", "PULL_THROUGH_CACHE", "CREATE_ON_PUSH"],
   "description": "Repos for testing images",
   "encryptionConfiguration":
    {
        "encryptionType": "AES256"
    },
   "imageTagMutability": "MUTABLE",
   "lifecyclePolicy": "{\r\n    \"rules\": [\r\n        {\r\n            \"rulePriority
\": 1,\r\n            \"description\": \"Expire images older than 14 days\",\r\n
     \"selection\": {\r\n                \"tagStatus\": \"untagged\",\r\n
  \"countType\": \"sinceImagePushed\",\r\n                \"countUnit\": \"days\",\r\n
              \"countNumber\": 14\r\n            },\r\n            \"action\": {\r\n
             \"type\": \"expire\"\r\n            }\r\n        }\r\n    ]\r\n}",
```

```
    "prefix": "eng/test",
    "repositoryPolicy": "{\n  \"Version\" : \"2012-10-17\",\n  \"Statement\" : [ {\n
     \"Sid\" : \"LambdaECRPullPolicy\",\n    \"Effect\" : \"Allow\",\n    \"Principal
\" : {\n      \"Service\" : \"lambda.amazonaws.com\"\n    },\n    \"Action\" :
 \"ecr:BatchGetImage\"\n  } ]\n}",
    "resourceTags":
     [
       {"Key": "environment",
        "Value": "test"}
     ],
    "createdAt": "2023-12-16T17:29:02-07:00",
    "updatedAt": "2023-12-16T17:29:02-07:00"
   }
 }
```

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteLifecyclePolicy

Deletes the lifecycle policy associated with the specified repository.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

registryId

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

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: Yes

Response Syntax

```
{
   "lastEvaluatedAt": number,
   "lifecyclePolicyText": "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.

lastEvaluatedAt

The time stamp of the last time that the lifecycle policy was run.

Type: Timestamp

lifecyclePolicyText

The JSON lifecycle policy text.

Type: String

Length Constraints: Minimum length of 100. Maximum length of 30720.

registryId

The registry ID associated with the request.

Type: String

Pattern: `[0-9]{12}`

repositoryName

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.

InvalidParameterException

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

message

The error message associated with the exception.

HTTP Status Code: 400

LifecyclePolicyNotFoundException

The lifecycle policy could not be found, and no policy is set to the 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.

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

ValidationException

There was an exception validating this request.

HTTP Status Code: 400

Examples

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 lifecycle policy for a repository called `project-a/amazon-ecs-sample` in the default registry for an account.

Sample Request

```
POST / HTTP/1.1
Host: ecr.us-west-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonEC2ContainerRegistry_V20150921.DeleteLifecyclePolicy
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.11.144 Python/3.6.1 Darwin/16.6.0 botocore/1.7.2
X-Amz-Date: 20170901T223937Z
Authorization: AUTHPARAMS
Content-Length: 48

{
   "repositoryName": "project-a/amazon-ecs-sample",
}
```

Sample Response

```
HTTP/1.1 200 OK
Server: Server
Date: Fri, 01 Sep 2017 19:42:18 GMT
```

```
Content-Type: application/x-amz-json-1.1
Content-Length: 340
Connection: keep-alive
x-amzn-RequestId: 123a4b56-7c89-01d2-3ef4-example5678f

{
   "lastEvaluatedAt":1.504295007E9,
   "lifecyclePolicyText":"{\"rules\":[{\"rulePriority\":1,\"description\":\"Expire
 images older than 14 days\",\"selection\":{\"tagStatus\":\"untagged\",\"countType\":
\"sinceImagePushed\",\"countUnit\":\"days\",\"countNumber\":14},\"action\":{\"type\":
\"expire\"}}]}",
   "registryId":"012345678910",
   "repositoryName":"project-a/amazon-ecs-sample"
}
```

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeletePullThroughCacheRule

Deletes a pull through cache rule.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

ecrRepositoryPrefix

The Amazon ECR repository prefix associated with the pull through cache rule to delete.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 30.

Pattern: `^([a-z0-9]+((\.|_|__|-+)[a-z0-9]+)*(\/[a-z0-9]+((\.|_|__|-+)[a-z0-9]+)*)*\/?|ROOT)$`

Required: Yes

registryId

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

Type: String

Pattern: `[0-9]{12}`

Required: No

Response Syntax

```
{
   "createdAt": number,
   "credentialArn": "string",
   "customRoleArn": "string",
   "ecrRepositoryPrefix": "string",
   "registryId": "string",
   "upstreamRegistryUrl": "string",
   "upstreamRepositoryPrefix": "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.

createdAt

The timestamp associated with the pull through cache rule.

Type: Timestamp

credentialArn

The Amazon Resource Name (ARN) of the AWS Secrets Manager secret associated with the pull through cache rule.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 612.

Pattern: `^arn:aws(-\w+)*:secretsmanager:[a-zA-Z0-9-:]+:secret:ecr\-pullthroughcache\/[a-zA-Z0-9\/_+=.@-]+$`

customRoleArn

The ARN of the IAM role associated with the pull through cache rule.

Type: String

Length Constraints: Maximum length of 2048.

ecrRepositoryPrefix

The Amazon ECR repository prefix associated with the request.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 30.

Pattern: `^([a-z0-9]+((\.|_|__|-+)[a-z0-9]+)*(\/[a-z0-9]+((\.|_|__|-+)[a-z0-9]+)*)*\/?|ROOT)$`

registryId

The registry ID associated with the request.

Type: String

Pattern: `[0-9]{12}`

upstreamRegistryUrl

The upstream registry URL associated with the pull through cache rule.

Type: String

upstreamRepositoryPrefix

The upstream repository prefix associated with the pull through cache rule.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 30.

Pattern: `^([a-z0-9]+((\.|_|__|-+)[a-z0-9]+)*(\/[a-z0-9]+((\.|_|__|-+)[a-z0-9]+)*)*\/?|ROOT)$`

Errors

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

InvalidParameterException

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

message

The error message associated with the exception.

HTTP Status Code: 400

PullThroughCacheRuleNotFoundException

The pull through cache rule was not found. Specify a valid pull through cache rule and try again.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

ValidationException

There was an exception validating this request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3

- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteRegistryPolicy

Deletes the registry permissions policy.

Response Syntax

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

The contents of the registry permissions policy that was deleted.

Type: String

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

registryId

The registry ID associated with the request.

Type: String

Pattern: `[0-9]{12}`

Errors

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

InvalidParameterException

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

message

The error message associated with the exception.

HTTP Status Code: 400

RegistryPolicyNotFoundException

The registry doesn't have an associated registry policy.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

ValidationException

There was an exception validating this request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3

- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteRepository

Deletes a repository. If the repository isn't empty, you must either delete the contents of the repository or use the `force` option to delete the repository and have Amazon ECR delete all of its contents on your behalf.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

force

If true, deleting the repository force deletes the contents of the repository. If false, the repository must be empty before attempting to delete it.

Type: Boolean

Required: No

registryId

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

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,
      "encryptionConfiguration": {
         "encryptionType": "string",
         "kmsKey": "string"
      },
      "imageScanningConfiguration": {
         "scanOnPush": boolean
      },
      "imageTagMutability": "string",
      "imageTagMutabilityExclusionFilters": [
         {
            "filter": "string",
            "filterType": "string"
         }
      ],
      "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

The repository that was deleted.

Type: Repository object

Errors

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

InvalidParameterException

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

message

The error message associated with the exception.

HTTP Status Code: 400

KmsException

The operation failed due to a KMS exception.

kmsError

The error code returned by AWS KMS.

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.

message

The error message associated with the exception.

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.

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

Examples

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: api.ecr.us-west-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonEC2ContainerRegistry_V20150921.DeleteRepository
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.16.190 Python/3.6.1 Darwin/16.7.0 botocore/1.12.180
X-Amz-Date: 20190715T205933Z
Authorization: AUTHPARAMS
Content-Length: 33
```

```
{
   "repositoryName":"sample-repo"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 123a4b56-7c89-01d2-3ef4-example5678f
Content-Type: application/x-amz-json-1.1
Content-Length: 252
Connection: keep-alive

{
   "repository":{
      "createdAt":1.563223656E9,
      "registryId":"012345678910",
      "repositoryArn":"arn:aws:ecr:us-west-2:012345678910:repository/sample-repo",
      "repositoryName":"sample-repo",
      "repositoryUri":"012345678910.dkr.ecr.us-west-2.amazonaws.com/sample-repo"
   }
}
```

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteRepositoryCreationTemplate

Deletes a repository creation template.

Request Syntax

```
{
   "prefix": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

prefix

The repository namespace prefix associated with the repository creation template.

Type: String

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

Pattern: `^([a-z0-9]+((\.|_|__|-+)[a-z0-9]+)*(\/[a-z0-9]+((\.|_|__|-+)[a-z0-9]+)*)*\/?|ROOT)$`

Required: Yes

Response Syntax

```
{
   "registryId": "string",
   "repositoryCreationTemplate": {
      "appliedFor": [ "string" ],
      "createdAt": number,
      "customRoleArn": "string",
      "description": "string",
      "encryptionConfiguration": {
         "encryptionType": "string",
         "kmsKey": "string"
```

```
        },
        "imageTagMutability": "string",
        "imageTagMutabilityExclusionFilters": [
           {
              "filter": "string",
              "filterType": "string"
           }
        ],
        "lifecyclePolicy": "string",
        "prefix": "string",
        "repositoryPolicy": "string",
        "resourceTags": [
           {
              "Key": "string",
              "Value": "string"
           }
        ],
        "updatedAt": number
    }
}
```

Response Elements

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

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

registryId

The registry ID associated with the request.

Type: String

Pattern: `[0-9]{12}`

repositoryCreationTemplate

The details of the repository creation template that was deleted.

Type: RepositoryCreationTemplate object

Errors

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

InvalidParameterException

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

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

TemplateNotFoundException

The specified repository creation template can't be found. Verify the registry ID and prefix and try again.

HTTP Status Code: 400

ValidationException

There was an exception validating this request.

HTTP Status Code: 400

Examples

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 creation template in the default registry for an account.

Sample Request

```
POST / HTTP/1.1
Host: ecr.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 88
X-Amz-Target: AmazonEC2ContainerRegistry_V20150921.DescribeRepositoryCreationTemplates
X-Amz-Date: 20231216T195356Z
User-Agent: aws-cli/1.11.22 Python/2.7.12 Darwin/16.3.0 botocore/1.4.79
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS

{
 "prefix": "eng"
}
```

Sample Response

```
HTTP/1.1 200 OK
Server: Server
Date: Sat, 16 Dec 2023 19:54:56 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 666
Connection: keep-alive
x-amzn-RequestId: 60dc1ea1-c3c9-11e6-aa04-25c3a5fb1b54

{
    "registryId": "012345678901",
    "repositoryCreationTemplate": {
        "prefix": "eng",
        "encryptionConfiguration": {
            "encryptionType": "AES256"
        },
        "imageTagMutability": "MUTABLE"
        "createdAt": "2023-12-03T16:27:57.933000-08:00",
        "updatedAt": "2023-12-03T16:27:57.933000-08:00"
    }
}
```

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteRepositoryPolicy

Deletes the repository policy associated with the specified repository.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

registryId

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

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

The JSON repository policy that was deleted from the repository.

Type: String

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

registryId

The registry ID associated with the request.

Type: String

Pattern: `[0-9]{12}`

repositoryName

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.

InvalidParameterException

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

message

The error message associated with the exception.

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.

message

The error message associated with the exception.

HTTP Status Code: 400

RepositoryPolicyNotFoundException

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

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

Examples

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"
}
```

Sample Response

```
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"
```

```
}
```

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeleteSigningConfiguration

Deletes the registry's signing configuration. Images pushed after deletion of the signing configuration will no longer be automatically signed.

For more information, see Managed signing in the *Amazon Elastic Container Registry User Guide*.

> **Note**
>
> Deleting the signing configuration does not affect existing image signatures.

Response Syntax

```
{
   "registryId": "string",
   "signingConfiguration": {
      "rules": [
         {
            "repositoryFilters": [
               {
                  "filter": "string",
                  "filterType": "string"
               }
            ],
            "signingProfileArn": "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.

registryId

The AWS account ID associated with the registry.

Type: String

Pattern: `[0-9]{12}`

signingConfiguration

The registry's deleted signing configuration.

Type: SigningConfiguration object

Errors

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

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

SigningConfigurationNotFoundException

The specified signing configuration was not found. This occurs when attempting to retrieve or delete a signing configuration that does not exist.

message

The error message associated with the exception.

HTTP Status Code: 400

ValidationException

There was an exception validating this request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DeregisterPullTimeUpdateExclusion

Removes a principal from the pull time update exclusion list for a registry. Once removed, Amazon ECR will resume updating the pull time if the specified principal pulls an image.

Request Syntax

```
{
   "principalArn": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

principalArn

The ARN of the IAM principal to remove from the pull time update exclusion list.

Type: String

Length Constraints: Maximum length of 200.

Pattern: `^arn:aws(-[a-z]+)*:iam::[0-9]{12}:(role|user)/[\w+=,.@-]+(/[\w+=,.@-]+)*$`

Required: Yes

Response Syntax

```
{
   "principalArn": "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.

principalArn

The ARN of the IAM principal that was removed from the pull time update exclusion list.

Type: String

Length Constraints: Maximum length of 200.

Pattern: `^arn:aws(-[a-z]+)*:iam::[0-9]{12}:(role|user)/[\w+=,.@-]+(/[\w+=,.@-]+)*$`

Errors

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

ExclusionNotFoundException

The specified pull time update exclusion was not found.

HTTP Status Code: 400

InvalidParameterException

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

message

The error message associated with the exception.

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 service quotas in the Amazon Elastic Container Registry User Guide.

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

ValidationException

There was an exception validating this request.

HTTP Status Code: 400

Examples

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.

To remove a principal from the pull time exclusion list

This example removes an IAM role from the pull time update exclusion list.

Sample Request

```
POST / HTTP/1.1
Host: api.ecr.us-west-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonEC2ContainerRegistry_V20150921.DeregisterPullTimeUpdateExclusion
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/2.0 Python/3.8.0 Darwin/20.0.0 botocore/2.0.0
X-Amz-Date: 20251117T220830Z
Authorization: AUTHPARAMS
```

```
Content-Length: 73

{
   "principalArn": "arn:aws:iam::012345678910:role/ECRAccess"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 123a4b56-7c89-01d2-3ef4-example5678f
Content-Type: application/x-amz-json-1.1
Content-Length: 73
Connection: keep-alive

{
   "principalArn": "arn:aws:iam::012345678910:role/ECRAccess"
}
```

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DescribeImageReplicationStatus

Returns the replication status for a specified image.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

imageId

An object with identifying information for an image in an Amazon ECR repository.

Type: ImageIdentifier object

Required: Yes

registryId

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

Type: String

Pattern: `[0-9]{12}`

Required: No

repositoryName

The name of the repository that the image is in.

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

```
{
   "imageId": {
      "imageDigest": "string",
      "imageTag": "string"
   },
   "replicationStatuses": [
      {
         "failureCode": "string",
         "region": "string",
         "registryId": "string",
         "status": "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.

imageId

An object with identifying information for an image in an Amazon ECR repository.

Type: ImageIdentifier object

replicationStatuses

The replication status details for the images in the specified repository.

Type: Array of ImageReplicationStatus objects

repositoryName

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.

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.

message

The error message associated with the exception.

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.

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

ValidationException

There was an exception validating this request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DescribeImages

Returns metadata about the images in a repository.

> **Note**
>
> Starting 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. Therefore, Docker might return a larger image than the image shown in the AWS Management Console.

> **Important**
>
> The new version of Amazon ECR *Basic Scanning* doesn't use the ImageDetail:imageScanFindingsSummary and ImageDetail:imageScanStatus attributes from the API response to return scan results. Use the DescribeImageScanFindings API instead. For more information about AWS native basic scanning, see Scan images for software vulnerabilities in Amazon ECR.

Request Syntax

```
{
   "filter": {
      "imageStatus": "string",
      "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.

The request accepts the following data in JSON format.

filter

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

Type: DescribeImagesFilter object

Required: No

imageIds

The list of image IDs for the requested repository.

Type: Array of ImageIdentifier objects

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

Required: No

maxResults

The maximum number of repository results returned by `DescribeImages` in paginated output. When this parameter is used, `DescribeImages` 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 `DescribeImages` request with the returned `nextToken` value. This value can be between 1 and 1000. If this parameter is not used, then `DescribeImages` returns up to 100 results and a `nextToken` value, if applicable. This option cannot be used when you specify images with `imageIds`.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

nextToken

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. This option cannot be used when you specify images with `imageIds`.

Type: String

Required: No

registryId

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

The repository that contains the images to describe.

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

```
{
   "imageDetails": [
      {
         "artifactMediaType": "string",
         "imageDigest": "string",
         "imageManifestMediaType": "string",
         "imagePushedAt": number,
         "imageScanFindingsSummary": {
            "findingSeverityCounts": {
               "string" : number
            },
            "imageScanCompletedAt": number,
```

```
            "vulnerabilitySourceUpdatedAt": number
         },
         "imageScanStatus": {
            "description": "string",
            "status": "string"
         },
         "imageSizeInBytes": number,
         "imageStatus": "string",
         "imageTags": [ "string" ],
         "lastActivatedAt": number,
         "lastArchivedAt": number,
         "lastRecordedPullTime": number,
         "registryId": "string",
         "repositoryName": "string",
         "subjectManifestDigest": "string"
      }
   ],
   "nextToken": "string"
}
```

Response Elements

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

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

imageDetails

A list of ImageDetail objects that contain data about the image.

Type: Array of ImageDetail objects

nextToken

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.

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.

message

The error message associated with the exception.

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.

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

Examples

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 `hello-repository` in the default account. Note that the image with the digest `sha256:7a64bc9c8843b0a8c8b8a7e4715b7615e4e1b0d8ca3c7e7a76ecEXAMPLE` is tagged as `latest` and `tagtest`.

Sample Request

```
POST / HTTP/1.1
Host: ecr.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 38
X-Amz-Target: AmazonEC2ContainerRegistry_V20150921.DescribeImages
X-Amz-Date: 20220301T194641Z
User-Agent: aws-cli/1.11.22 Python/2.7.12 Darwin/16.3.0 botocore/1.4.79
Content-Type: application/x-amz-json-1.1

Authorization: AUTHPARAMS

{
  "repositoryName": "hello-repository"
}
```

Sample Response

```
HTTP/1.1 200 OK
Server: Server
Date: Fri, 16 Dec 2016 19:31:33 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 1107
Connection: keep-alive
x-amzn-RequestId: 404826b1-c3c6-11e6-a9e5-e3c203a2f07f

{
    "imageDetails": [
        {
```

```
            "registryId": "012345678910",
            "repositoryName": "hello-repository",
            "imageDigest":
 "sha256:7a64bc9c8843b0a8c8b8a7e4715b7615e4e1b0d8ca3c7e7a76ecEXAMPLE",
            "imageTags": [
                "tagtest"
            ],
            "imageSizeInBytes": 78447648,
            "imagePushedAt": "2021-12-03T20:36:09+00:00",
            "imageScanStatus": {
                "status": "COMPLETE",
                "description": "The scan was completed successfully."
            },
            "imageScanFindingsSummary": {
                "imageScanCompletedAt": "2021-12-03T20:36:14+00:00",
                "vulnerabilitySourceUpdatedAt": "2021-11-24T16:11:37+00:00",
                "findingSeverityCounts": {
                    "HIGH": 4,
                    "MEDIUM": 76,
                    "INFORMATIONAL": 9,
                    "LOW": 50
                }
            },
            "imageManifestMediaType": "application/
vnd.docker.distribution.manifest.v2+json",
            "artifactMediaType": "application/vnd.docker.container.image.v1+json",
            "lastRecordedPullTime": "2022-02-23T05:06:01.514000+00:00"
        },
        {
            "registryId": "012345678910",
            "repositoryName": "hello-repository",
            "imageDigest":
 "sha256:7a64bc9c8843b0a8c8b8a7e4715b7615e4e1b0d8ca3c7e7a76ecEXAMPLE",
            "imageTags": [
                "latest"
            ],
            "imageSizeInBytes": 78447648,
            "imagePushedAt": "2020-01-23T17:56:13+00:00",
            "imageScanStatus": {
                "status": "COMPLETE",
                "description": "The scan was completed successfully."
            },
            "imageScanFindingsSummary": {
                "imageScanCompletedAt": "2020-01-24T04:11:45+00:00",
```

```
                "vulnerabilitySourceUpdatedAt": "2020-01-23T20:25:17+00:00",
                "findingSeverityCounts": {
                    "MEDIUM": 14,
                    "INFORMATIONAL": 11,
                    "LOW": 27
                }
            },
            "imageManifestMediaType": "application/
vnd.docker.distribution.manifest.v2+json",
            "lastRecordedPullTime": "2022-02-24T07:35:16.530000+00:00"
        }
    ]
}
```

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DescribeImageScanFindings

Returns the scan findings for the specified image.

Request Syntax

```
{
   "imageId": {
      "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.

The request accepts the following data in JSON format.

imageId

An object with identifying information for an image in an Amazon ECR repository.

Type: ImageIdentifier object

Required: Yes

maxResults

The maximum number of image scan results returned by `DescribeImageScanFindings` in paginated output. When this parameter is used, `DescribeImageScanFindings` 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 `DescribeImageScanFindings` request with the returned `nextToken` value. This value can be between 1 and 1000. If this parameter is not used, then `DescribeImageScanFindings` returns up to 100 results and a `nextToken` value, if applicable.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

nextToken

The `nextToken` value returned from a previous paginated `DescribeImageScanFindings` 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

registryId

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

Type: String

Pattern: `[0-9]{12}`

Required: No

repositoryName

The repository for the image for which to describe the scan findings.

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

```
{
   "imageId": {
      "imageDigest": "string",
```

```
        "imageTag": "string"
    },
    "imageScanFindings": {
        "enhancedFindings": [
            {
                "awsAccountId": "string",
                "description": "string",
                "exploitAvailable": "string",
                "findingArn": "string",
                "firstObservedAt": number,
                "fixAvailable": "string",
                "lastObservedAt": number,
                "packageVulnerabilityDetails": {
                    "cvss": [
                        {
                            "baseScore": number,
                            "scoringVector": "string",
                            "source": "string",
                            "version": "string"
                        }
                    ],
                    "referenceUrls": [ "string" ],
                    "relatedVulnerabilities": [ "string" ],
                    "source": "string",
                    "sourceUrl": "string",
                    "vendorCreatedAt": number,
                    "vendorSeverity": "string",
                    "vendorUpdatedAt": number,
                    "vulnerabilityId": "string",
                    "vulnerablePackages": [
                        {
                            "arch": "string",
                            "epoch": number,
                            "filePath": "string",
                            "fixedInVersion": "string",
                            "name": "string",
                            "packageManager": "string",
                            "release": "string",
                            "sourceLayerHash": "string",
                            "version": "string"
                        }
                    ]
                },
                "remediation": {
```

```
            "recommendation": {
               "text": "string",
               "url": "string"
            }
         },
         "resources": [
            {
               "details": {
                  "awsEcrContainerImage": {
                     "architecture": "string",
                     "author": "string",
                     "imageHash": "string",
                     "imageTags": [ "string" ],
                     "inUseCount": number,
                     "lastInUseAt": number,
                     "platform": "string",
                     "pushedAt": number,
                     "registry": "string",
                     "repositoryName": "string"
                  }
               },
               "id": "string",
               "tags": {
                  "string" : "string"
               },
               "type": "string"
            }
         ],
         "score": number,
         "scoreDetails": {
            "cvss": {
               "adjustments": [
                  {
                     "metric": "string",
                     "reason": "string"
                  }
               ],
               "score": number,
               "scoreSource": "string",
               "scoringVector": "string",
               "version": "string"
            }
         },
         "severity": "string",
```

```
            "status": "string",
            "title": "string",
            "type": "string",
            "updatedAt": number
         }
      ],
      "findings": [
         {
            "attributes": [
               {
                  "key": "string",
                  "value": "string"
               }
            ],
            "description": "string",
            "name": "string",
            "severity": "string",
            "uri": "string"
         }
      ],
      "findingSeverityCounts": {
         "string" : number
      },
      "imageScanCompletedAt": number,
      "vulnerabilitySourceUpdatedAt": number
   },
   "imageScanStatus": {
      "description": "string",
      "status": "string"
   },
   "nextToken": "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.

imageId

An object with identifying information for an image in an Amazon ECR repository.

Type: ImageIdentifier object

imageScanFindings

The information contained in the image scan findings.

Type: ImageScanFindings object

imageScanStatus

The current state of the scan.

Type: ImageScanStatus object

nextToken

The `nextToken` value to include in a future `DescribeImageScanFindings` request. When the results of a `DescribeImageScanFindings` 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

registryId

The registry ID associated with the request.

Type: String

Pattern: `[0-9]{12}`

repositoryName

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.

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.

message

The error message associated with the exception.

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.

message

The error message associated with the exception.

HTTP Status Code: 400

ScanNotFoundException

The specified image scan could not be found. Ensure that image scanning is enabled on the repository and try again.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

ValidationException

There was an exception validating this request.

HTTP Status Code: 400

Examples

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 for basic image scanning

This example returns the image scan findings for an image using the image digest in a repository named `sample-repo` in the default registry for an account.

Sample Request

```
POST / HTTP/1.1
Host: ecr.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 141
X-Amz-Target: AmazonEC2ContainerRegistry_V20150921.DescribeImageScanFindings
X-Amz-Date: 20200124T034807Z
User-Agent: aws-cli/1.16.310 Python/3.6.1 Darwin/18.7.0 botocore/1.13.46
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS

{
    "repositoryName": "sample-repo",
    "imageId": {
        "imageDigest":
 "sha256:74b2c688c700ec95a93e478cdb959737c148df3fbf5ea706abe0318726e885e6"
    }
}
```

Sample Response

```
HTTP/1.1 200 OK
Server: Server
Date: Fri, 24 Jan 2020 03:48:07 GMT
```

```
Content-Type: application/x-amz-json-1.1
Content-Length: 33967
Connection: keep-alive
x-amzn-RequestId: 3081a92b-2066-41f8-8a47-0580288ada9e

{
    "imageScanFindings": {
        "findings": [
            {
                "name": "CVE-2019-5188",
                "description": "A code execution vulnerability exists in the directory
 rehashing functionality of E2fsprogs e2fsck 1.45.4. A specially crafted ext4 directory
 can cause an out-of-bounds write on the stack, resulting in code execution. An
 attacker can corrupt a partition to trigger this vulnerability.",
                "uri": "http://people.ubuntu.com/~ubuntu-security/cve/CVE-2019-5188",
                "severity": "MEDIUM",
                "attributes": [
                    {
                        "key": "package_version",
                        "value": "1.44.1-1ubuntu1.1"
                    },
                    {
                        "key": "package_name",
                        "value": "e2fsprogs"
                    },
                    {
                        "key": "CVSS2_VECTOR",
                        "value": "AV:L/AC:L/Au:N/C:P/I:P/A:P"
                    },
                    {
                        "key": "CVSS2_SCORE",
                        "value": "4.6"
                    }
                ]
            }
        ],
        "imageScanCompletedAt": 1579839105.0,
        "vulnerabilitySourceUpdatedAt": 1579811117.0,
        "findingSeverityCounts": {
            "MEDIUM": 1
        }
    },
    "registryId": "012345678910",
    "repositoryName": "sample-repo",
```

```
    "imageId": {
        "imageDigest":
 "sha256:74b2c688c700ec95a93e478cdb959737c148df3fbf5ea706abe0318726e885e6"
    },
    "imageScanStatus": {
        "status": "COMPLETE",
        "description": "The scan was completed successfully."
    }
}
```

Example for enhanced image scanning

This example illustrates one usage of DescribeImageScanFindings.

Sample Request

```
POST / HTTP/1.1
Host: ecr.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 141
X-Amz-Target: AmazonEC2ContainerRegistry_V20150921.DescribeImageScanFindings
X-Amz-Date: 20250610T201255Z
User-Agent: aws-cli/1.16.310 Python/3.6.1 Darwin/18.7.0 botocore/1.13.46
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS

{
  "registryId": "123456789012",
  "repositoryName": "sample-repo",
  "imageId": {
    "imageDigest":
 "sha256:74b2c688c700ec95a93e478cdb959737c148df3fbf5ea706abe0318726e885e6"
  }
}
```

Sample Response

```
HTTP/1.1 200 OK
Server: Server
Date: Mon, 10 Jun 2025 20:12:55 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 33967
```

```
Connection: keep-alive
x-amzn-RequestId: 3081a92b-2066-41f8-8a47-0580288ada9e
{
    "imageScanFindings": {
        "enhancedFindings": [
            {
                "awsAccountId": "123456789012",
                "description": "xmlXIncludeAddNode in xinclude.c in libxml2 before
 2.11.0 has a use-after-free.",
                "findingArn": "arn:aws:inspector2:us-
west-2:123456789012:finding/12345678901212345678901 2",
                "firstObservedAt": "2025-05-27T17:54:07.765000+00:00",
                "lastObservedAt": "2025-06-09T07:08:40.144000+00:00",
                "packageVulnerabilityDetails": {
                    "cvss": [
                        {
                            "baseScore": 8.1,
                            "scoringVector": "CVSS:3.1/AV:L/AC:H/PR:N/UI:N/S:C/C:H/I:H/
A:H",
                            "source": "NVD",
                            "version": "3.1"
                        }
                    ],
                    "referenceUrls": [
                        "https://bugs.debian.org/cgi-bin/bugreport.cgi?bug=1094238",
                        "https://security-tracker.debian.org/tracker/CVE-2022-49043"
                    ],
                    "relatedVulnerabilities": [],
                    "source": "DEBIAN_CVE",
                    "sourceUrl": "https://security-tracker.debian.org/tracker/
CVE-2022-49043",
                    "vendorSeverity": "not yet assigned",
                    "vulnerabilityId": "CVE-2022-49043",
                    "vulnerablePackages": [
                        {
                            "arch": "AMD64",
                            "epoch": 0,
                            "name": "libxml2",
                            "packageManager": "OS",
                            "release": "1.3~deb12u1",
                            "sourceLayerHash":
 "sha256:deb7d8874f38d4ec281d990aac2c7badbfcd5b97d602a388056e3f918a3f8cc7",
                            "version": "2.9.14+dfsg",
                            "fixedInVersion": "NotAvailable"
```

```
                        }
                    ]
                },
                "remediation": {
                    "recommendation": {
                        "text": "None Provided"
                    }
                },
                "resources": [
                    {
                        "details": {
                            "awsEcrContainerImage": {
                                "architecture": "amd64",
                                "imageHash":
 "sha256:74b2c688c700ec95a93e478cdb959737c148df3fbf5ea706abe0318726e885e6",
                                "imageTags": [
                                    "latest"
                                ],
                                "platform": "DEBIAN_12",
                                "pushedAt": "2025-05-27T17:53:50.554000+00:00",
                                "lastInUseAt": "2025-06-09T04:43:20.427000+00:00",
                                "inUseCount": 1,
                                "registry": "123456789012",
                                "repositoryName": "sample-repo"
                            }
                        },
                        "id": "arn:aws:ecr:us-west-2:123456789012:repository/sample-
repo/sha256:74b2c688c700ec95a93e478cdb959737c148df3fbf5ea706abe0318726e885e6",
                        "tags": {},
                        "type": "AWS_ECR_CONTAINER_IMAGE"
                    }
                ],
                "score": 8.1,
                "scoreDetails": {
                    "cvss": {
                        "adjustments": [],
                        "score": 8.1,
                        "scoreSource": "NVD",
                        "scoringVector": "CVSS:3.1/AV:L/AC:H/PR:N/UI:N/S:C/C:H/I:H/
A:H",
                        "version": "3.1"
                    }
                },
                "severity": "HIGH",
```

```
                "status": "ACTIVE",
                "title": "CVE-2022-49043 - libxml2",
                "type": "PACKAGE_VULNERABILITY",
                "updatedAt": "2025-06-09T07:08:40.144000+00:00",
                "fixAvailable": "NO",
                "exploitAvailable": "NO"
            },
        ],
        "imageScanCompletedAt": "2025-06-09T07:08:40.144000+00:00",
        "vulnerabilitySourceUpdatedAt": "2025-06-09T07:08:40.144000+00:00",
        "findingSeverityCounts": {
            "HIGH": 1,
        }
    },
    "registryId": "123456789012",
    "repositoryName": "sample-repo",
    "imageId": {
        "imageDigest":
 "sha256:74b2c688c700ec95a93e478cdb959737c148df3fbf5ea706abe0318726e885e6"
    },
    "imageScanStatus": {
        "status": "ACTIVE",
        "description": "Continuous scan is selected for image."
    }
}
```

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3

- AWS SDK for Python
- AWS SDK for Ruby V3

DescribeImageSigningStatus

Returns the signing status for a specified image. If the image matched signing rules that reference different signing profiles, a status is returned for each profile.

For more information, see Managed signing in the *Amazon Elastic Container Registry User Guide*.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

imageId

An object containing identifying information for an image.

Type: ImageIdentifier object

Required: Yes

registryId

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

The name of the repository that contains 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

```
{
   "imageId": {
      "imageDigest": "string",
      "imageTag": "string"
   },
   "registryId": "string",
   "repositoryName": "string",
   "signingStatuses": [
      {
         "failureCode": "string",
         "failureReason": "string",
         "signingProfileArn": "string",
         "status": "string"
      }
   ]
}
```

Response Elements

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

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

imageId

An object with identifying information for the image.

Type: ImageIdentifier object

registryId

The AWS account ID associated with the registry.

Type: String

Pattern: `[0-9]{12}`

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]+)*)*`

signingStatuses

A list of signing statuses for the specified image. Each status corresponds to a signing profile.

Type: Array of ImageSigningStatus objects

Errors

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

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.

message

The error message associated with the exception.

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.

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

ValidationException

There was an exception validating this request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python

- AWS SDK for Ruby V3

DescribePullThroughCacheRules

Returns the pull through cache rules for a registry.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

ecrRepositoryPrefixes

The Amazon ECR repository prefixes associated with the pull through cache rules to return. If no repository prefix value is specified, all pull through cache rules are returned.

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 30.

Pattern: `^([a-z0-9]+((\.|_|__|-+)[a-z0-9]+)*(\/[a-z0-9]+((\.|_|__|-+)[a-z0-9]+)*)*\/?|ROOT)$`

Required: No

maxResults

The maximum number of pull through cache rules returned by `DescribePullThroughCacheRulesRequest` in paginated output. When this parameter is used, `DescribePullThroughCacheRulesRequest` 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 `DescribePullThroughCacheRulesRequest` request with the returned `nextToken` value. This value can be between 1 and 1000. If this parameter is not used, then `DescribePullThroughCacheRulesRequest` returns up to 100 results and a `nextToken` value, if applicable.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

nextToken

The `nextToken` value returned from a previous paginated `DescribePullThroughCacheRulesRequest` 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

registryId

The AWS account ID associated with the registry to return the pull through cache rules for. If you do not specify a registry, the default registry is assumed.

Type: String

Pattern: `[0-9]{12}`

Required: No

Response Syntax

```
{
   "nextToken": "string",
   "pullThroughCacheRules": [
      {
         "createdAt": number,
         "credentialArn": "string",
```

```
            "customRoleArn": "string",
            "ecrRepositoryPrefix": "string",
            "registryId": "string",
            "updatedAt": number,
            "upstreamRegistry": "string",
            "upstreamRegistryUrl": "string",
            "upstreamRepositoryPrefix": "string"
        }
    ]
}
```

Response Elements

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

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

nextToken

The `nextToken` value to include in a future `DescribePullThroughCacheRulesRequest` request. When the results of a `DescribePullThroughCacheRulesRequest` 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

pullThroughCacheRules

The details of the pull through cache rules.

Type: Array of PullThroughCacheRule objects

Errors

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

InvalidParameterException

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

message

The error message associated with the exception.

HTTP Status Code: 400

PullThroughCacheRuleNotFoundException

The pull through cache rule was not found. Specify a valid pull through cache rule and try again.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

ValidationException

There was an exception validating this request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DescribeRegistry

Describes the settings for a registry. The replication configuration for a repository can be created or updated with the PutReplicationConfiguration API action.

Response Syntax

```
{
   "registryId": "string",
   "replicationConfiguration": {
      "rules": [
         {
            "destinations": [
               {
                  "region": "string",
                  "registryId": "string"
               }
            ],
            "repositoryFilters": [
               {
                  "filter": "string",
                  "filterType": "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.

registryId

The registry ID associated with the request.

Type: String

Pattern: `[0-9]{12}`

replicationConfiguration

The replication configuration for the registry.

Type: ReplicationConfiguration object

Errors

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

InvalidParameterException

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

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

ValidationException

There was an exception validating this request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4

- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

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.

The request accepts the following data in JSON format.

maxResults

The maximum number of repository results returned by `DescribeRepositories` in paginated output. When this parameter is used, `DescribeRepositories` 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 `DescribeRepositories` request with the returned `nextToken` value. This value can be between 1 and 1000. If this parameter is not used, then `DescribeRepositories` returns up to 100 results and a `nextToken` value, if applicable. This option cannot be used when you specify repositories with `repositoryNames`.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

nextToken

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. This option cannot be used when you specify repositories with `repositoryNames`.

> **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

registryId

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

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

```
{
```

```
    "nextToken": "string",
    "repositories": [
       {
          "createdAt": number,
          "encryptionConfiguration": {
             "encryptionType": "string",
             "kmsKey": "string"
          },
          "imageScanningConfiguration": {
             "scanOnPush": boolean
          },
          "imageTagMutability": "string",
          "imageTagMutabilityExclusionFilters": [
             {
                "filter": "string",
                "filterType": "string"
             }
          ],
          "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.

nextToken

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

A list of repository objects corresponding to valid repositories.

Type: Array of Repository objects

Errors

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

InvalidParameterException

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

message

The error message associated with the exception.

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.

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

Examples

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: api.ecr.us-west-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonEC2ContainerRegistry_V20150921.DescribeRepositories
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.16.190 Python/3.6.1 Darwin/16.7.0 botocore/1.12.180
X-Amz-Date: 20190715T205400Z
Authorization: AUTHPARAMS
Content-Length: 2

{}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 123a4b56-7c89-01d2-3ef4-example5678f
Content-Type: application/x-amz-json-1.1
Content-Length: 1061
Connection: keep-alive

{
   "repositories":[
      {
         "createdAt":1.563223656E9,
         "imageTagMutability":"MUTABLE",
         "registryId":"012345678910",
         "repositoryArn":"arn:aws:ecr:us-west-2:012345678910:repository/sample-repo",
         "repositoryName":"sample-repo",
         "repositoryUri":"012345678910.dkr.ecr.us-west-2.amazonaws.com/sample-repo"
      },
      {
         "createdAt":1.554824595E9,
         "imageTagMutability":"IMMUTABLE",
```

```
            "registryId":"012345678910",
            "repositoryArn":"arn:aws:ecr:us-west-2:012345678910:repository/tagging-test",
            "repositoryName":"tagging-test",
            "repositoryUri":"012345678910.dkr.ecr.us-west-2.amazonaws.com/tagging-test"
        }
    ]
}
```

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DescribeRepositoryCreationTemplates

Returns details about the repository creation templates in a registry. The `prefixes` request parameter can be used to return the details for a specific repository creation template.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

maxResults

The maximum number of repository results returned by `DescribeRepositoryCreationTemplatesRequest` in paginated output. When this parameter is used, `DescribeRepositoryCreationTemplatesRequest` 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 `DescribeRepositoryCreationTemplatesRequest` request with the returned `nextToken` value. This value can be between 1 and 1000. If this parameter is not used, then `DescribeRepositoryCreationTemplatesRequest` returns up to 100 results and a `nextToken` value, if applicable.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

nextToken

The `nextToken` value returned from a previous paginated `DescribeRepositoryCreationTemplates` 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

prefixes

The repository namespace prefixes associated with the repository creation templates to describe. If this value is not specified, all repository creation templates are returned.

Type: Array of strings

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

Pattern: `^([a-z0-9]+((\.|_|__|-+)[a-z0-9]+)*(\/[a-z0-9]+((\.|_|__|-+)[a-z0-9]+)*)*\/?|ROOT)$`

Required: No

Response Syntax

```
{
   "nextToken": "string",
   "registryId": "string",
   "repositoryCreationTemplates": [
      {
         "appliedFor": [ "string" ],
         "createdAt": number,
         "customRoleArn": "string",
         "description": "string",
         "encryptionConfiguration": {
            "encryptionType": "string",
```

```
            "kmsKey": "string"
         },
         "imageTagMutability": "string",
         "imageTagMutabilityExclusionFilters": [
            {
               "filter": "string",
               "filterType": "string"
            }
         ],
         "lifecyclePolicy": "string",
         "prefix": "string",
         "repositoryPolicy": "string",
         "resourceTags": [
            {
               "Key": "string",
               "Value": "string"
            }
         ],
         "updatedAt": number
      }
   ]
}
```

Response Elements

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

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

nextToken

The `nextToken` value to include in a future `DescribeRepositoryCreationTemplates` request. When the results of a `DescribeRepositoryCreationTemplates` 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

registryId

The registry ID associated with the request.

Type: String

Pattern: `[0-9]{12}`

repositoryCreationTemplates

The details of the repository creation templates.

Type: Array of RepositoryCreationTemplate objects

Errors

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

InvalidParameterException

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

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

ValidationException

There was an exception validating this request.

HTTP Status Code: 400

Examples

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 a repository creation template in the default registry for an account.

Sample Request

```
PPOST / HTTP/1.1
Host: ecr.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length:240
X-Amz-Target: AmazonEC2ContainerRegistry_V20150921.DescribeRepositoryCreationTemplates
X-Amz-Date: 20231216T195356Z
User-Agent: aws-cli/1.11.22 Python/2.7.12 Darwin/16.3.0 botocore/1.4.79
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS

{
 "prefixes":
  [
    "eng"
  ]
}
```

Sample Response

```
HTTP/1.1 200 OK
Server: Server
Date: Sat, 16 Dec 2023 19:54:56 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 1590
Connection: keep-alive
x-amzn-RequestId: 60dc1ea1-c3c9-11e6-aa04-25c3a5fb1b54
{
    "registryId": "012345678901",
    "repositoryCreationTemplates": [{
        "prefix": "eng/test",
```

```
        "appliedFor": ["PULL_THROUGH_CACHE", "REPLICATION", "CREATE_ON_PUSH"],
        "encryptionConfiguration": {
            "encryptionType": "AES256"
        },
        "imageTagMutability": "MUTABLE",
        "createdAt": "2023-12-16T17:29:02-07:00",
        "updatedAt": "2023-12-16T19:55:02-07:00"
    }, {
        "prefix": "eng/replication-test",
        "appliedFor": ["REPLICATION"],
        "encryptionConfiguration": {
            "encryptionType": "AES256"
        },
        "imageTagMutability": "IMMUTABLE",
        "createdAt": "2023-12-14T17:29:02-07:00",
        "updatedAt": "2023-12-14T19:55:02-07:00"
    }]
}
```

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetAccountSetting

Retrieves the account setting value for the specified setting name.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

name

The name of the account setting, such as `BASIC_SCAN_TYPE_VERSION`, `REGISTRY_POLICY_SCOPE`, or `BLOB_MOUNTING`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

Response Syntax

```
{
   "name": "string",
   "value": "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.

name

Retrieves the name of the account setting.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

value

The setting value for the setting name. Valid value for basic scan type: `AWS_NATIVE`. Valid values for registry policy scope: `V1` or `V2`. Valid values for blob mounting: `ENABLED` or `DISABLED`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Errors

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

InvalidParameterException

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

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

ValidationException

There was an exception validating this request.

HTTP Status Code: 400

Examples

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 calls the BASIC_SCAN_TYPE_VERSION being used in the registry.

Sample Request

```
POST / HTTP/1.1
Host: ecr.us-west-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonEC2ContainerRegistry_V20150921.GetAccountSetting
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.11.144 Python/3.6.1 Darwin/16.6.0 botocore/1.7.2
X-Amz-Date: 20170901T223937Z
Authorization: AUTHPARAMS
Content-Length: 48

{
   aws ecr get-account-setting --name BASIC_SCAN_TYPE_VERSION,
}
```

Sample Response

```
HTTP/1.1 200 OK
Server: Server
Date: Fri, 01 Sep 2017 19:42:18 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 340
```

```
Connection: keep-alive
x-amzn-RequestId: 123a4b56-7c89-01d2-3ef4-example5678f

{
    "name": "BASIC_SCAN_TYPE_VERSION",
    "value": "AWS_NATIVE"
}
```

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetAuthorizationToken

Retrieves an authorization token. An authorization token represents your IAM authentication credentials and can be used to access any Amazon ECR registry that your IAM principal has access to. The authorization token is valid for 12 hours.

The `authorizationToken` returned 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 `get-login-password` command that simplifies the login process. For more information, see Registry authentication in the *Amazon Elastic Container Registry User Guide*.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

registryIds

This parameter has been deprecated.

A list of AWS account IDs that are associated with the registries for which to get AuthorizationData objects. 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

```
{
```

```
    "authorizationData": [
       {
          "authorizationToken": "string",
          "expiresAt": number,
          "proxyEndpoint": "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.

authorizationData

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

> **Note**
>
> The size of the authorization token returned by Amazon ECR is not fixed. We recommend that you don't make assumptions about the maximum size.

Type: Array of AuthorizationData objects

Errors

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

InvalidParameterException

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

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

Examples

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: 20220516T185613Z
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

```
HTTP/1.1 200 OK
Server: Server
Date: Sun, 17 May 2022 06:56:13 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 1590
Connection: keep-alive
x-amzn-RequestId: 123a4b56-7c89-01d2-3ef4-example5678f

{
  "authorizationData": [
    {
      "authorizationToken": "QVdTOkNpQzErSHF1ZXZPcUR...",
      "expiresAt": "2022-05-17T06:56:13.652000+00:00",
      "proxyEndpoint": "https://012345678910.dkr.ecr.us-east-1.amazonaws.com"
    }
  ]
}
```

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

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.

When an image is pulled, the GetDownloadUrlForLayer API is called once per image layer that is not already cached.

> **Note**
>
> This operation is used by the Amazon ECR proxy and is not generally used by customers for pulling and pushing images. In most cases, you should 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.

The request accepts the following data in JSON format.

layerDigest

The digest of the image layer to download.

Type: String

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

Required: Yes

registryId

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

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.

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

downloadUrl

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

Type: String

layerDigest

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.

InvalidParameterException

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

message

The error message associated with the exception.

HTTP Status Code: 400

LayerInaccessibleException

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

message

The error message associated with the exception.

HTTP Status Code: 400

LayersNotFoundException

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

message

The error message associated with the exception.

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.

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

UnableToGetUpstreamLayerException

There was an issue getting the upstream layer matching the pull through cache rule.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetLifecyclePolicy

Retrieves the lifecycle policy for the specified repository.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

registryId

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

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: Yes

Response Syntax

```
{
   "lastEvaluatedAt": number,
   "lifecyclePolicyText": "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.

lastEvaluatedAt

The time stamp of the last time that the lifecycle policy was run.

Type: Timestamp

lifecyclePolicyText

The JSON lifecycle policy text.

Type: String

Length Constraints: Minimum length of 100. Maximum length of 30720.

registryId

The registry ID associated with the request.

Type: String

Pattern: `[0-9]{12}`

repositoryName

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.

InvalidParameterException

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

message

The error message associated with the exception.

HTTP Status Code: 400

LifecyclePolicyNotFoundException

The lifecycle policy could not be found, and no policy is set to the 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.

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

ValidationException

There was an exception validating this request.

HTTP Status Code: 400

Examples

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 retrieves the lifecycle policy for a repository called `project-a/amazon-ecs-sample` in the default registry for an account.

Sample Request

```
POST / HTTP/1.1
Host: ecr.us-west-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonEC2ContainerRegistry_V20150921.GetLifecyclePolicy
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.11.144 Python/3.6.1 Darwin/16.6.0 botocore/1.7.2
X-Amz-Date: 20170901T210647Z
Authorization: AUTHPARAMS
Content-Length: 48

{
   "repositoryName": "project-a/amazon-ecs-sample"
}
```

Sample Response

```
HTTP/1.1 200 OK
Server: Server
Date: Fri, 01 Sep 2017 21:06:48 GMT
```

```
Content-Type: application/x-amz-json-1.1
Content-Length: 372
Connection: keep-alive
x-amzn-RequestId: 123a4b56-7c89-01d2-3ef4-example5678f

{
   "lastEvaluatedAt":1.504295007E9,
   "lifecyclePolicyText":"{\"rules\":[{\"rulePriority\":1,\"description\":\"Expire
 images older than 14 days\",\"selection\":{\"tagStatus\":\"untagged\",\"countType\":
\"sinceImagePushed\",\"countUnit\":\"days\",\"countNumber\":14},\"action\":{\"type\":
\"expire\"}}]}",
   "registryId":"012345678910",
   "repositoryName":"project-a/amazon-ecs-sample"
}
```

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetLifecyclePolicyPreview

Retrieves the results of the lifecycle policy preview request for the specified repository.

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.

The request accepts the following data in JSON format.

filter

An optional parameter that filters results based on image tag status and all tags, if tagged.

Type: LifecyclePolicyPreviewFilter object

Required: No

imageIds

The list of imageIDs to be included.

Type: Array of ImageIdentifier objects

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

Required: No

maxResults

The maximum number of repository results returned by `GetLifecyclePolicyPreviewRequest` in paginated output. When this parameter is used, `GetLifecyclePolicyPreviewRequest` 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 `GetLifecyclePolicyPreviewRequest` request with the returned `nextToken` value. This value can be between 1 and 100. If this parameter is not used, then `GetLifecyclePolicyPreviewRequest` returns up to 100 results and a `nextToken` value, if applicable. This option cannot be used when you specify images with `imageIds`.

Type: Integer

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

Required: No

nextToken

The `nextToken` value returned from a previous paginated `GetLifecyclePolicyPreviewRequest` 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. This option cannot be used when you specify images with `imageIds`.

Type: String

Required: No

registryId

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

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: Yes

Response Syntax

```
{
   "lifecyclePolicyText": "string",
   "nextToken": "string",
   "previewResults": [
      {
         "action": {
            "targetStorageClass": "string",
            "type": "string"
         },
         "appliedRulePriority": number,
         "imageDigest": "string",
         "imagePushedAt": number,
         "imageTags": [ "string" ],
         "storageClass": "string"
      }
   ],
   "registryId": "string",
   "repositoryName": "string",
   "status": "string",
   "summary": {
      "expiringImageTotalCount": number,
      "transitioningImageTotalCounts": [
         {
            "imageTotalCount": number,
            "targetStorageClass": "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.

lifecyclePolicyText

The JSON lifecycle policy text.

Type: String

Length Constraints: Minimum length of 100. Maximum length of 30720.

nextToken

The `nextToken` value to include in a future `GetLifecyclePolicyPreview` request. When the results of a `GetLifecyclePolicyPreview` 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

previewResults

The results of the lifecycle policy preview request.

Type: Array of LifecyclePolicyPreviewResult objects

registryId

The registry ID associated with the request.

Type: String

Pattern: `[0-9]{12}`

repositoryName

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]+)*)*`

status

The status of the lifecycle policy preview request.

Type: String

Valid Values: `IN_PROGRESS | COMPLETE | EXPIRED | FAILED`

summary

The list of images that is returned as a result of the action.

Type: LifecyclePolicyPreviewSummary object

Errors

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

InvalidParameterException

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

message

The error message associated with the exception.

HTTP Status Code: 400

LifecyclePolicyPreviewNotFoundException

There is no dry run 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.

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

ValidationException

There was an exception validating this request.

HTTP Status Code: 400

Examples

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 retrieves the result of a lifecycle policy preview for a repository called `project-a/amazon-ecs-sample` in the default registry for an account.

Sample Request

```
POST / HTTP/1.1
Host: ecr.us-west-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonEC2ContainerRegistry_V20150921.GetLifecyclePolicyPreview
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.11.144 Python/3.6.1 Darwin/16.6.0 botocore/1.7.2
```

```
X-Amz-Date: 20170901T222304Z
Authorization: AUTHPARAMS
Content-Length: 48

{
   "repositoryName": "project-a/amazon-ecs-sample"
}
```

Sample Response

```
HTTP/1.1 200 OK
Server: Server
Date: Fri, 01 Sep 2017 22:23:06 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 640
Connection: keep-alive
x-amzn-RequestId: 123a4b56-7c89-01d2-3ef4-example5678f

{
   "lifecyclePolicyText":"{\n    \"rules\": [\n        {\n            \"rulePriority
\": 1,\n            \"description\": \"Expire images older than 14 days\",\n
     \"selection\": {\n                \"tagStatus\": \"untagged\",\n
 \"countType\": \"sinceImagePushed\",\n                \"countUnit\": \"days\",\n
          \"countNumber\": 14\n            },\n            \"action\": {\n
   \"type\": \"expire\"\n            }\n        }\n    ]\n}\n",
   "previewResults":[],
   "registryId":"012345678910",
   "repositoryName":"project-a/amazon-ecs-sample",
   "status":"COMPLETE",
   "summary":{"expiringImageTotalCount":0}
}
```

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2

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

GetRegistryPolicy

Retrieves the permissions policy for a registry.

Response Syntax

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

The JSON text of the permissions policy for a registry.

Type: String

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

registryId

The registry ID associated with the request.

Type: String

Pattern: `[0-9]{12}`

Errors

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

InvalidParameterException

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

message

The error message associated with the exception.

HTTP Status Code: 400

RegistryPolicyNotFoundException

The registry doesn't have an associated registry policy.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

ValidationException

There was an exception validating this request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3

- AWS SDK for Python
- AWS SDK for Ruby V3

GetRegistryScanningConfiguration

Retrieves the scanning configuration for a registry.

Response Syntax

```
{
   "registryId": "string",
   "scanningConfiguration": {
      "rules": [
         {
            "repositoryFilters": [
               {
                  "filter": "string",
                  "filterType": "string"
               }
            ],
            "scanFrequency": "string"
         }
      ],
      "scanType": "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.

registryId

The registry ID associated with the request.

Type: String

Pattern: `[0-9]{12}`

scanningConfiguration

The scanning configuration for the registry.

Type: RegistryScanningConfiguration object

Errors

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

InvalidParameterException

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

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

ValidationException

There was an exception validating this request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin

- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetRepositoryPolicy

Retrieves the repository policy for the specified repository.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

registryId

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

The name of the repository with the policy 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

The JSON repository policy text associated with the repository.

Type: String

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

registryId

The registry ID associated with the request.

Type: String

Pattern: `[0-9]{12}`

repositoryName

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.

InvalidParameterException

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

message

The error message associated with the exception.

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.

message

The error message associated with the exception.

HTTP Status Code: 400

RepositoryPolicyNotFoundException

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

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

Examples

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"
}
```

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"
```

```
}
```

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetSigningConfiguration

Retrieves the registry's signing configuration, which defines rules for automatically signing images using AWS Signer.

For more information, see Managed signing in the *Amazon Elastic Container Registry User Guide*.

Response Syntax

```
{
   "registryId": "string",
   "signingConfiguration": {
      "rules": [
         {
            "repositoryFilters": [
               {
                  "filter": "string",
                  "filterType": "string"
               }
            ],
            "signingProfileArn": "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.

registryId

The AWS account ID associated with the registry.

Type: String

Pattern: `[0-9]{12}`

signingConfiguration

The registry's signing configuration.

Type: SigningConfiguration object

Errors

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

InvalidParameterException

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

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

SigningConfigurationNotFoundException

The specified signing configuration was not found. This occurs when attempting to retrieve or delete a signing configuration that does not exist.

message

The error message associated with the exception.

HTTP Status Code: 400

ValidationException

There was an exception validating this request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

InitiateLayerUpload

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

When an image is pushed, the InitiateLayerUpload API is called once per image layer that has not already been uploaded. Whether or not an image layer has been uploaded is determined by the BatchCheckLayerAvailability API action.

> **Note**
>
> This operation is used by the Amazon ECR proxy and is not generally used by customers for pulling and pushing images. In most cases, you should 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.

The request accepts the following data in JSON format.

registryId

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

Type: String

Pattern: `[0-9]{12}`

Required: No

repositoryName

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

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

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

Type: Long

Valid Range: Minimum value of 0.

uploadId

The upload ID for the layer upload. This parameter is passed to further UploadLayerPart and CompleteLayerUpload operations.

Type: String

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

Errors

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

InvalidParameterException

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

message

The error message associated with the exception.

HTTP Status Code: 400

KmsException

The operation failed due to a KMS exception.

kmsError

The error code returned by AWS KMS.

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.

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListImageReferrers

Lists the artifacts associated with a specified subject image.

> **Note**
>
> The IAM principal invoking this operation must have the `ecr:BatchGetImage` permission.

Request Syntax

```
{
   "filter": {
      "artifactStatus": "string",
      "artifactTypes": [ "string" ]
   },
   "maxResults": number,
   "nextToken": "string",
   "registryId": "string",
   "repositoryName": "string",
   "subjectId": {
      "imageDigest": "string"
   }
}
```

Request Parameters

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

The request accepts the following data in JSON format.

filter

The filter key and value with which to filter your `ListImageReferrers` results. If no filter is specified, only artifacts with `ACTIVE` status are returned.

Type: ListImageReferrersFilter object

Required: No

maxResults

The maximum number of image referrer results returned by `ListImageReferrers` in paginated output. When this parameter is used, `ListImageReferrers` 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 `ListImageReferrers` request with the returned `nextToken` value. This value can be between 1 and 50. If this parameter is not used, then `ListImageReferrers` returns up to 50 results and a `nextToken` value, if applicable.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 50.

Required: No

nextToken

The `nextToken` value returned from a previous paginated `ListImageReferrers` 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

registryId

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

Type: String

Pattern: `[0-9]{12}`

Required: No

repositoryName

The name of the repository that contains the subject 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

subjectId

An object containing the image digest of the subject image for which to retrieve associated artifacts.

Type: SubjectIdentifier object

Required: Yes

Response Syntax

```
{
   "nextToken": "string",
   "referrers": [
      {
         "annotations": {
            "string" : "string"
         },
         "artifactStatus": "string",
         "artifactType": "string",
         "digest": "string",
         "mediaType": "string",
         "size": number
      }
   ]
}
```

Response Elements

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

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

nextToken

The `nextToken` value to include in a future `ListImageReferrers` request. When the results of a `ListImageReferrers` 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

referrers

The list of artifacts associated with the subject image.

Type: Array of ImageReferrer objects

Errors

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

InvalidParameterException

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

message

The error message associated with the exception.

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.

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

ValidationException

There was an exception validating this request.

HTTP Status Code: 400

Examples

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.

To list artifacts associated with a subject image

This example lists all artifacts (such as Sigstore signatures) that reference a specific container image in the `sample-repo` repository.

Sample Request

```
POST / HTTP/1.1
Host: api.ecr.us-west-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonEC2ContainerRegistry_V20150921.ListImageReferrers
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/2.0 Python/3.8.0 Darwin/20.0.0 botocore/2.0.0
X-Amz-Date: 20251117T220033Z
Authorization: AUTHPARAMS
Content-Length: 150

{
```

```
   "repositoryName": "sample-repo",
   "subjectId": {
      "imageDigest":
 "sha256:943e64015941561658170 3a53fa4ed87e96740655fd67daf2d2146a35337bce5"
   }
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 123a4b56-7c89-01d2-3ef4-example5678f
Content-Type: application/x-amz-json-1.1
Content-Length: 470
Connection: keep-alive

{
   "referrers": [
      {
         "digest":
 "sha256:270c60be5b6ed41e6e7c505ac0c4e2577748affc14147bcba76b533604dc7a07",
         "mediaType": "application/vnd.oci.image.manifest.v1+json",
         "artifactType": "application/vnd.dev.sigstore.bundle.v0.3+json",
         "size": 888,
         "annotations": {
            "dev.sigstore.bundle.predicateType": "https://sigstore.dev/cosign/sign/v1",
            "dev.sigstore.bundle.content": "dsse-envelope",
            "org.opencontainers.image.created": "2025-11-17T22:00:33Z"
         },
         "artifactStatus": "ACTIVE"
      }
   ]
}
```

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++

- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListImages

Lists all the image IDs for the specified repository.

You can filter images based on whether or not they are tagged by using the `tagStatus` filter and specifying either `TAGGED`, `UNTAGGED` or `ANY`. For example, you can filter your results to return only `UNTAGGED` images and then pipe that result to a BatchDeleteImage 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": {
      "imageStatus": "string",
      "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.

The request accepts the following data in JSON format.

filter

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

Type: ListImagesFilter object

Required: No

maxResults

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 1000. 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 1000.

Required: No

nextToken

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

registryId

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

Type: String

Pattern: `[0-9]{12}`

Required: No

repositoryName

The repository with image IDs 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

```
{
   "imageIds": [
      {
         "imageDigest": "string",
         "imageTag": "string"
      }
   ],
   "nextToken": "string"
}
```

Response Elements

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

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

imageIds

The list of image IDs for the requested repository.

Type: Array of ImageIdentifier objects

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

nextToken

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.

InvalidParameterException

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

message

The error message associated with the exception.

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.

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

Examples

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 lists all of the images in the `amazonlinux` repository.

Sample Request

```
POST / HTTP/1.1
Host: ecr.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 33
X-Amz-Target: AmazonEC2ContainerRegistry_V20150921.ListImages
X-Amz-Date: 20161216T200542Z
User-Agent: aws-cli/1.11.22 Python/2.7.12 Darwin/16.3.0 botocore/1.4.79
Content-Type: application/x-amz-json-1.1
Authorization: AWUTHPARAMS

{
  "repositoryName": "amazonlinux"
}
```

Sample Response

```
HTTP/1.1 200 OK
Server: Server
Date: Fri, 16 Dec 2016 20:05:42 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 235
Connection: keep-alive
x-amzn-RequestId: 05bfc4ac-c3cb-11e6-99fb-b1be070cc24b

{
  "imageIds": [
    {
      "imageDigest":
 "sha256:f1d4ae3f7261a72e98c6ebefe9985cf10a0ea5bd762585a43e0700ed99863807",
      "imageTag": "2016.09"
    },
    {
      "imageDigest":
 "sha256:f1d4ae3f7261a72e98c6ebefe9985cf10a0ea5bd762585a43e0700ed99863807",
```

```
      "imageTag": "latest"
    }
  ]
}
```

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListPullTimeUpdateExclusions

Lists the IAM principals that are excluded from having their image pull times recorded.

Request Syntax

```
{
   "maxResults": number,
   "nextToken": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

maxResults

The maximum number of pull time update exclusion results returned by `ListPullTimeUpdateExclusions` in paginated output. When this parameter is used, `ListPullTimeUpdateExclusions` 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 `ListPullTimeUpdateExclusions` request with the returned `nextToken` value. This value can be between 1 and 1000. If this parameter is not used, then `ListPullTimeUpdateExclusions` returns up to 100 results and a `nextToken` value, if applicable.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

nextToken

The `nextToken` value returned from a previous paginated `ListPullTimeUpdateExclusions` 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

Response Syntax

```
{
   "nextToken": "string",
   "pullTimeUpdateExclusions": [ "string" ]
}
```

Response Elements

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

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

nextToken

The `nextToken` value to include in a future `ListPullTimeUpdateExclusions` request. When the results of a `ListPullTimeUpdateExclusions` 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

pullTimeUpdateExclusions

The list of IAM principal ARNs that are excluded from having their image pull times recorded.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Length Constraints: Maximum length of 200.

Pattern: `^arn:aws(-[a-z]+)*:iam::[0-9]{12}:(role|user)/[\w+=,.@-]+(/[\w+=,.@-]+)*$`

Errors

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

InvalidParameterException

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

message

The error message associated with the exception.

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 service quotas in the Amazon Elastic Container Registry User Guide.

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

ValidationException

There was an exception validating this request.

HTTP Status Code: 400

Examples

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.

To list all pull time update exclusions

This example lists all IAM principals that are excluded from having their image pull timestamps recorded in the registry.

Sample Request

```
POST / HTTP/1.1
Host: api.ecr.us-west-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonEC2ContainerRegistry_V20150921.ListPullTimeUpdateExclusions
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/2.0 Python/3.8.0 Darwin/20.0.0 botocore/2.0.0
X-Amz-Date: 20251117T220830Z
Authorization: AUTHPARAMS
Content-Length: 2

{}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 123a4b56-7c89-01d2-3ef4-example5678f
Content-Type: application/x-amz-json-1.1
Content-Length: 95
Connection: keep-alive

{
   "pullTimeUpdateExclusions": [
```

```
        "arn:aws:iam::012345678910:role/ECRAccess"
    ]
}
```

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListTagsForResource

List the tags for an Amazon ECR resource.

Request Syntax

```
{
   "resourceArn": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

resourceArn

The Amazon Resource Name (ARN) that identifies the resource for which to list the tags. Currently, the only supported resource is an Amazon ECR repository.

Type: String

Required: Yes

Response Syntax

```
{
   "tags": [
      {
         "Key": "string",
         "Value": "string"
      }
   ]
}
```

Response Elements

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

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

tags

The tags for the resource.

Type: Array of Tag objects

Errors

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

InvalidParameterException

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

message

The error message associated with the exception.

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.

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

Examples

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 lists the tags associated with the `sample-repo` repository.

Sample Request

```
POST / HTTP/1.1
Host: ecr.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 81
X-Amz-Target: AmazonEC2ContainerRegistry_V20150921.ListTagsForResource
X-Amz-Date: 20161216T201255Z
User-Agent: aws-cli/1.16.310 Python/3.6.1 Darwin/18.7.0 botocore/1.13.46
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS

{
    "resourceArn": "arn:aws:ecr:us-west-2:012345678910:repository/sample-repo"
}
```

Sample Response

```
HTTP/1.1 200 OK
Server: Server
Date: Fri, 24 Jan 2020 03:48:07 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 11
Connection: keep-alive
x-amzn-RequestId: 3081a92b-2066-41f8-8a47-0580288ada9e

{
   "tags": [
      {
         "Key": "environment",
         "Value": "production"
      }
```

```
    ]
}
```

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

PutAccountSetting

Allows you to change the basic scan type version or registry policy scope.

Request Syntax

```
{
   "name": "string",
   "value": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

name

The name of the account setting, such as `BASIC_SCAN_TYPE_VERSION`, `REGISTRY_POLICY_SCOPE`, or `BLOB_MOUNTING`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

value

Setting value that is specified. Valid value for basic scan type: `AWS_NATIVE`. Valid values for registry policy scope: `V1` or `V2`. Valid values for blob mounting: `ENABLED` or `DISABLED`.

Type: String

Required: Yes

Response Syntax

```
{
```

```
    "name": "string",
    "value": "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.

name

Retrieves the name of the account setting.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

value

Retrieves the value of the specified account setting.

Type: String

Errors

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

InvalidParameterException

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

message

The error message associated with the exception.

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 service quotas in the Amazon Elastic Container Registry User Guide.

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

ValidationException

There was an exception validating this request.

HTTP Status Code: 400

Examples

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 assigns the `BASIC_SCAN_TYPE_VERSION` to be used in the registry. The accepted value is `AWS_NATIVE`.

Sample Request

```
POST / HTTP/1.1
```

```
Host: ecr.us-west-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonEC2ContainerRegistry_V20150921.PutAccountSetting
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.11.144 Python/3.6.1 Darwin/16.6.0 botocore/1.7.2
X-Amz-Date: 20170901T223937Z
Authorization: AUTHPARAMS
Content-Length: 48

{
   aws ecr put-account-setting --name BASIC_SCAN_TYPE_VERSION --value AWS_NATIVE,
}
```

Sample Response

```
HTTP/1.1 200 OK
Server: Server
Date: Fri, 01 Sep 2017 19:42:18 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 340
Connection: keep-alive
x-amzn-RequestId: 123a4b56-7c89-01d2-3ef4-example5678f

{
    "name": "BASIC_SCAN_TYPE_VERSION",
    "value": "AWS_NATIVE"
}
```

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin

- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

PutImage

Creates or updates the image manifest and tags associated with an image.

When an image is pushed and all new image layers have been uploaded, the PutImage API is called once to create or update the image manifest and the tags associated with the image.

> **Note**
>
> This operation is used by the Amazon ECR proxy and is not generally used by customers for pulling and pushing images. In most cases, you should use the `docker` CLI to pull, tag, and push images.

Request Syntax

```
{
   "imageDigest": "string",
   "imageManifest": "string",
   "imageManifestMediaType": "string",
   "imageTag": "string",
   "registryId": "string",
   "repositoryName": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

imageDigest

The image digest of the image manifest corresponding to the image.

Type: String

Required: No

imageManifest

The image manifest corresponding to the image to be uploaded.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4194304.

Required: Yes

imageManifestMediaType

The media type of the image manifest. If you push an image manifest that does not contain the `mediaType` field, you must specify the `imageManifestMediaType` in the request.

Type: String

Required: No

imageTag

The tag to associate with the image. This parameter is optional.

Type: String

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

Required: No

registryId

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

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",
      "imageManifestMediaType": "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

Details of the image uploaded.

Type: Image object

Errors

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

ImageAlreadyExistsException

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

message

The error message associated with the exception.

HTTP Status Code: 400

ImageDigestDoesNotMatchException

The specified image digest does not match the digest that Amazon ECR calculated for the image.

HTTP Status Code: 400

ImageTagAlreadyExistsException

The specified image is tagged with a tag that already exists. The repository is configured for tag immutability.

HTTP Status Code: 400

InvalidParameterException

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

message

The error message associated with the exception.

HTTP Status Code: 400

KmsException

The operation failed due to a KMS exception.

kmsError

The error code returned by AWS KMS.

HTTP Status Code: 400

LayersNotFoundException

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

message

The error message associated with the exception.

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 service quotas in the Amazon Elastic Container Registry User Guide.

message

The error message associated with the exception.

HTTP Status Code: 400

ReferencedImagesNotFoundException

The manifest list is referencing an image that does not exist.

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.

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

Examples

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 puts an image to the `amazonlinux` repository with the tag `2016.09`.

Sample Request

```
POST / HTTP/1.1
Host: ecr.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 653
X-Amz-Target: AmazonEC2ContainerRegistry_V20150921.PutImage
X-Amz-Date: 20161216T201255Z
User-Agent: aws-cli/1.11.22 Python/2.7.12 Darwin/16.3.0 botocore/1.4.79
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS

{
  "imageManifest": "{\n   \"schemaVersion\": 2,\n   \"mediaType
\": \"application/vnd.docker.distribution.manifest.v2+json
\",\n   \"config\": {\n      \"mediaType\": \"application/
vnd.docker.container.image.v1+json\",\n      \"size\": 1486,\n      \"digest\":
 \"sha256:5b52b314511a611975c2c65e695d920acdf8ae8848fe0ef00b7d018d1f118b64\"\n
   },\n   \"layers\": [\n      {\n         \"mediaType\": \"application/
vnd.docker.image.rootfs.diff.tar.gzip\",\n         \"size\": 91768077,\n
 \"digest\":
 \"sha256:8e3fa21c4cc40232e835a6761332d225c7af3235c5755f44ada2ed9d0e4ab7e8\"\n      }\n
   ]\n}\n",
  "repositoryName": "amazonlinux",
  "imageTag": "2016.09"
}
```

Sample Response

```
HTTP/1.1 200 OK
Server: Server
Date: Fri, 16 Dec 2016 20:12:56 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 786
Connection: keep-alive
x-amzn-RequestId: 084038f1-c3cc-11e6-8d10-9da51cf53fd3

{
  "image": {
```

```
    "imageId": {
      "imageDigest":
 "sha256:f1d4ae3f7261a72e98c6ebefe9985cf10a0ea5bd762585a43e0700ed99863807",
      "imageTag": "2016.09"
    },
    "imageManifest": "{\n   \"schemaVersion\": 2,\n   \"mediaType
\": \"application/vnd.docker.distribution.manifest.v2+json
\",\n   \"config\": {\n      \"mediaType\": \"application/
vnd.docker.container.image.v1+json\",\n      \"size\": 1486,\n      \"digest\":
 \"sha256:5b52b314511a611975c2c65e695d920acdf8ae8848fe0ef00b7d018d1f118b64\"\n
   },\n   \"layers\": [\n      {\n         \"mediaType\": \"application/
vnd.docker.image.rootfs.diff.tar.gzip\",\n         \"size\": 91768077,\n
 \"digest\":
 \"sha256:8e3fa21c4cc40232e835a6761332d225c7af3235c5755f44ada2ed9d0e4ab7e8\"\n      }\n
   ]\n}\n",
    "registryId": "012345678910",
    "repositoryName": "amazonlinux"
  }
}
```


See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

PutImageScanningConfiguration

> **Important**
>
> The `PutImageScanningConfiguration` API is being deprecated, in favor of specifying the image scanning configuration at the registry level. For more information, see PutRegistryScanningConfiguration.

Updates the image scanning configuration for the specified repository.

Request Syntax

```
{
   "imageScanningConfiguration": {
      "scanOnPush": boolean
   },
   "registryId": "string",
   "repositoryName": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

imageScanningConfiguration

The image scanning configuration for the repository. This setting determines whether images are scanned for known vulnerabilities after being pushed to the repository.

Type: ImageScanningConfiguration object

Required: Yes

registryId

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

Type: String

Pattern: `[0-9]{12}`

Required: No

repositoryName

The name of the repository in which to update the image scanning configuration setting.

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

```
{
   "imageScanningConfiguration": {
      "scanOnPush": boolean
   },
   "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.

imageScanningConfiguration

The image scanning configuration setting for the repository.

Type: ImageScanningConfiguration object

registryId

The registry ID associated with the request.

Type: String

Pattern: `[0-9]{12}`

repositoryName

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.

InvalidParameterException

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

message

The error message associated with the exception.

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.

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

ValidationException

There was an exception validating this request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

PutImageTagMutability

Updates the image tag mutability settings for the specified repository. For more information, see Image tag mutability in the *Amazon Elastic Container Registry User Guide*.

Request Syntax

```
{
   "imageTagMutability": "string",
   "imageTagMutabilityExclusionFilters": [
      {
         "filter": "string",
         "filterType": "string"
      }
   ],
   "registryId": "string",
   "repositoryName": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

imageTagMutability

The tag mutability setting for the repository. If `MUTABLE` is specified, image tags can be overwritten. If `IMMUTABLE` is specified, all image tags within the repository will be immutable which will prevent them from being overwritten.

Type: String

Valid Values: `MUTABLE | IMMUTABLE | IMMUTABLE_WITH_EXCLUSION | MUTABLE_WITH_EXCLUSION`

Required: Yes

imageTagMutabilityExclusionFilters

A list of filters that specify which image tags should be excluded from the image tag mutability setting being applied.

Type: Array of ImageTagMutabilityExclusionFilter objects

Array Members: Minimum number of 1 item. Maximum number of 5 items.

Required: No

registryId

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

Type: String

Pattern: `[0-9]{12}`

Required: No

repositoryName

The name of the repository in which to update the image tag mutability settings.

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

```
{
   "imageTagMutability": "string",
   "imageTagMutabilityExclusionFilters": [
      {
         "filter": "string",
         "filterType": "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.

imageTagMutability

The image tag mutability setting for the repository.

Type: String

Valid Values: `MUTABLE | IMMUTABLE | IMMUTABLE_WITH_EXCLUSION | MUTABLE_WITH_EXCLUSION`

imageTagMutabilityExclusionFilters

The list of filters that specify which image tags are excluded from the repository's image tag mutability setting.

Type: Array of ImageTagMutabilityExclusionFilter objects

Array Members: Minimum number of 1 item. Maximum number of 5 items.

registryId

The registry ID associated with the request.

Type: String

Pattern: `[0-9]{12}`

repositoryName

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.

InvalidParameterException

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

message

The error message associated with the exception.

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.

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

Examples

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 updates the image tag mutability setting for the `sample-repo` repository.

Sample Request

```
POST / HTTP/1.1
Host: ecr.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 73
X-Amz-Target: AmazonEC2ContainerRegistry_V20150921.PutImageTagMutability
X-Amz-Date: 20161216T201255Z
User-Agent: aws-cli/1.16.310 Python/3.6.1 Darwin/18.7.0 botocore/1.13.46
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS

{
    "repositoryName": "sample-repo",
    "imageTagMutability": "IMMUTABLE"
}
```

Sample Response

```
HTTP/1.1 200 OK
Server: Server
Date: Fri, 24 Jan 2020 03:48:07 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 98
Connection: keep-alive
x-amzn-RequestId: 3081a92b-2066-41f8-8a47-0580288ada9e

{
    "registryId": "012345678910",
    "repositoryName": "sample-repo",
    "imageTagMutability": "IMMUTABLE"
}
```

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

PutLifecyclePolicy

Creates or updates the lifecycle policy for the specified repository. For more information, see Lifecycle policy template.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

lifecyclePolicyText

The JSON repository policy text to apply to the repository.

Type: String

Length Constraints: Minimum length of 100. Maximum length of 30720.

Required: Yes

registryId

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

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

```
{
   "lifecyclePolicyText": "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.

lifecyclePolicyText

The JSON repository policy text.

Type: String

Length Constraints: Minimum length of 100. Maximum length of 30720.

registryId

The registry ID associated with the request.

Type: String

Pattern: `[0-9]{12}`

repositoryName

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.

InvalidParameterException

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

message

The error message associated with the exception.

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.

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

ValidationException

There was an exception validating this request.

HTTP Status Code: 400

Examples

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 lifecycle policy to expire images older than 14 days for a repository called `project-a/amazon-ecs-sample` in the default registry for an account.

Sample Request

```
POST / HTTP/1.1
Host: ecr.us-west-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonEC2ContainerRegistry_V20150921.PutLifecyclePolicy
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.11.144 Python/3.6.1 Darwin/16.6.0 botocore/1.7.2
X-Amz-Date: 20170901T194217Z
Authorization: AUTHPARAMS
Content-Length: 535

{
   "repositoryName": "project-a/amazon-ecs-sample",
   "lifecyclePolicyText": "{\n    \"rules\": [\n        {\n            \"rulePriority
\": 1,\n            \"description\": \"Expire images older than 14 days\",\n
     \"selection\": {\n                \"tagStatus\": \"untagged\",\n
 \"countType\": \"sinceImagePushed\",\n                \"countUnit\": \"days\",\n
          \"countNumber\": 14\n            },\n            \"action\": {\n
   \"type\": \"expire\"\n            }\n        }\n    ]\n}\n"
}
```

Sample Response

```
HTTP/1.1 200 OK
Server: Server
Date: Fri, 01 Sep 2017 19:42:18 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 340
Connection: keep-alive
x-amzn-RequestId: 123a4b56-7c89-01d2-3ef4-example5678f

{
   "lifecyclePolicyText":"{\"rules\":[{\"rulePriority\":1,\"description\":\"Expire
 images older than 14 days\",\"selection\":{\"tagStatus\":\"untagged\",\"countType\":
\"sinceImagePushed\",\"countUnit\":\"days\",\"countNumber\":14},\"action\":{\"type\":
\"expire\"}}]}",
   "registryId":"012345678910",
   "repositoryName":"project-a/amazon-ecs-sample"
}
```

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

PutRegistryPolicy

Creates or updates the permissions policy for your registry.

A registry policy is used to specify permissions for another AWS account and is used when configuring cross-account replication. For more information, see Registry permissions in the *Amazon Elastic Container Registry User Guide*.

Request Syntax

```
{
   "policyText": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

policyText

The JSON policy text to apply to your registry. The policy text follows the same format as IAM policy text. For more information, see Registry permissions in the *Amazon Elastic Container Registry User Guide*.

Type: String

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

Required: Yes

Response Syntax

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

The JSON policy text for your registry.

Type: String

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

registryId

The registry ID associated with the request.

Type: String

Pattern: `[0-9]{12}`

Errors

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

InvalidParameterException

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

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

ValidationException

There was an exception validating this request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

PutRegistryScanningConfiguration

Creates or updates the scanning configuration for your private registry.

Request Syntax

```
{
   "rules": [
      {
         "repositoryFilters": [
            {
               "filter": "string",
               "filterType": "string"
            }
         ],
         "scanFrequency": "string"
      }
   ],
   "scanType": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

rules

The scanning rules to use for the registry. A scanning rule is used to determine which repository filters are used and at what frequency scanning will occur.

Type: Array of RegistryScanningRule objects

Array Members: Minimum number of 0 items. Maximum number of 2 items.

Required: No

scanType

The scanning type to set for the registry.

When a registry scanning configuration is not defined, by default the `BASIC` scan type is used. When basic scanning is used, you may specify filters to determine which individual repositories,

or all repositories, are scanned when new images are pushed to those repositories. Alternatively, you can do manual scans of images with basic scanning.

When the `ENHANCED` scan type is set, Amazon Inspector provides automated vulnerability scanning. You may choose between continuous scanning or scan on push and you may specify filters to determine which individual repositories, or all repositories, are scanned.

Type: String

Valid Values: `BASIC` | `ENHANCED`

Required: No

Response Syntax

```
{
   "registryScanningConfiguration": {
      "rules": [
         {
            "repositoryFilters": [
               {
                  "filter": "string",
                  "filterType": "string"
               }
            ],
            "scanFrequency": "string"
         }
      ],
      "scanType": "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.

registryScanningConfiguration

The scanning configuration for your registry.

Type: RegistryScanningConfiguration object

Errors

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

BlockedByOrganizationPolicyException

The operation did not succeed because the account is managed by a organization policy.

HTTP Status Code: 400

InvalidParameterException

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

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

ValidationException

There was an exception validating this request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2

- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

PutReplicationConfiguration

Creates or updates the replication configuration for a registry. The existing replication configuration for a repository can be retrieved with the DescribeRegistry API action. The first time the PutReplicationConfiguration API is called, a service-linked IAM role is created in your account for the replication process. For more information, see Using service-linked roles for Amazon ECR in the *Amazon Elastic Container Registry User Guide*. For more information on the custom role for replication, see Creating an IAM role for replication.

> **Note**
>
> When configuring cross-account replication, the destination account must grant the source account permission to replicate. This permission is controlled using a registry permissions policy. For more information, see PutRegistryPolicy.

Request Syntax

```
{
   "replicationConfiguration": {
      "rules": [
         {
            "destinations": [
               {
                  "region": "string",
                  "registryId": "string"
               }
            ],
            "repositoryFilters": [
               {
                  "filter": "string",
                  "filterType": "string"
               }
            ]
         }
      ]
   }
}
```

Request Parameters

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

The request accepts the following data in JSON format.

replicationConfiguration

An object representing the replication configuration for a registry.

Type: ReplicationConfiguration object

Required: Yes

Response Syntax

```
{
   "replicationConfiguration": {
      "rules": [
         {
            "destinations": [
               {
                  "region": "string",
                  "registryId": "string"
               }
            ],
            "repositoryFilters": [
               {
                  "filter": "string",
                  "filterType": "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.

replicationConfiguration

The contents of the replication configuration for the registry.

Type: ReplicationConfiguration object

Errors

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

InvalidParameterException

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

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

ValidationException

There was an exception validating this request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4

- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

PutSigningConfiguration

Creates or updates the registry's signing configuration, which defines rules for automatically signing images with AWS Signer.

For more information, see Managed signing in the *Amazon Elastic Container Registry User Guide*.

> **Note**
>
> To successfully generate a signature, the IAM principal pushing images must have permission to sign payloads with the AWS Signer signing profile referenced in the signing configuration.

Request Syntax

```
{
   "signingConfiguration": {
      "rules": [
         {
            "repositoryFilters": [
               {
                  "filter": "string",
                  "filterType": "string"
               }
            ],
            "signingProfileArn": "string"
         }
      ]
   }
}
```

Request Parameters

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

The request accepts the following data in JSON format.

signingConfiguration

The signing configuration to assign to the registry.

Type: SigningConfiguration object

Required: Yes

Response Syntax

```
{
   "signingConfiguration": {
      "rules": [
         {
            "repositoryFilters": [
               {
                  "filter": "string",
                  "filterType": "string"
               }
            ],
            "signingProfileArn": "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.

signingConfiguration

The registry's updated signing configuration.

Type: SigningConfiguration object

Errors

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

InvalidParameterException

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

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

ValidationException

There was an exception validating this request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

RegisterPullTimeUpdateExclusion

Adds an IAM principal to the pull time update exclusion list for a registry. Amazon ECR will not record the pull time if an excluded principal pulls an image.

Request Syntax

```
{
   "principalArn": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

principalArn

The ARN of the IAM principal to exclude from having image pull times recorded.

Type: String

Length Constraints: Maximum length of 200.

Pattern: `^arn:aws(-[a-z]+)*:iam::[0-9]{12}:(role|user)/[\w+=,.@-]+(/[\w+=,.@-]+)*$`

Required: Yes

Response Syntax

```
{
   "createdAt": number,
   "principalArn": "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.

createdAt

The date and time, expressed in standard JavaScript date format, when the exclusion was created.

Type: Timestamp

principalArn

The ARN of the IAM principal that was added to the pull time update exclusion list.

Type: String

Length Constraints: Maximum length of 200.

Pattern: `^arn:aws(-[a-z]+)*:iam::[0-9]{12}:(role|user)/[\w+=,.@-]+(/[\w+=,.@-]+)*$`

Errors

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

ExclusionAlreadyExistsException

The specified pull time update exclusion already exists for the registry.

HTTP Status Code: 400

InvalidParameterException

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

message

The error message associated with the exception.

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 service quotas in the Amazon Elastic Container Registry User Guide.

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

ValidationException

There was an exception validating this request.

HTTP Status Code: 400

Examples

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.

To exclude an IAM role from pull time tracking

This example adds an IAM role to the pull time update exclusion list so that Amazon ECR will not record image pull timestamps for this principal.

Sample Request

```
POST / HTTP/1.1
Host: api.ecr.us-west-2.amazonaws.com
```

```
Accept-Encoding: identity
X-Amz-Target: AmazonEC2ContainerRegistry_V20150921.RegisterPullTimeUpdateExclusion
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/2.0 Python/3.8.0 Darwin/20.0.0 botocore/2.0.0
X-Amz-Date: 20251117T220812Z
Authorization: AUTHPARAMS
Content-Length: 73

{
   "principalArn": "arn:aws:iam::012345678910:role/ECRAccess"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 123a4b56-7c89-01d2-3ef4-example5678f
Content-Type: application/x-amz-json-1.1
Content-Length: 118
Connection: keep-alive

{
   "principalArn": "arn:aws:iam::012345678910:role/ECRAccess",
   "createdAt": "2025-11-17T22:08:12.659000+00:00"
}
```

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python

- AWS SDK for Ruby V3

SetRepositoryPolicy

Applies a repository policy to the specified repository to control access permissions. For more information, see Amazon ECR Repository policies in the *Amazon Elastic Container Registry User Guide*.

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.

The request accepts the following data in JSON format.

force

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 operation. This is intended to prevent accidental repository lock outs.

Type: Boolean

Required: No

policyText

The JSON repository policy text to apply to the repository. For more information, see Amazon ECR repository policies in the *Amazon Elastic Container Registry User Guide*.

Type: String

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

Required: Yes

registryId

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

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

The JSON repository policy text applied to the repository.

Type: String

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

registryId

The registry ID associated with the request.

Type: String

Pattern: `[0-9]{12}`

repositoryName

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.

InvalidParameterException

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

message

The error message associated with the exception.

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.

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

Examples

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
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"
}
```

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python

- AWS SDK for Ruby V3

StartImageScan

Starts a basic image vulnerability scan.

A basic image scan can only be started once per 24 hours on an individual image. This limit includes if an image was scanned on initial push. You can start up to 100,000 basic scans per 24 hours. This limit includes both scans on initial push and scans initiated by the StartImageScan API. For more information, see Basic scanning in the *Amazon Elastic Container Registry User Guide*.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

imageId

An object with identifying information for an image in an Amazon ECR repository.

Type: ImageIdentifier object

Required: Yes

registryId

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

Type: String

Pattern: `[0-9]{12}`

Required: No

repositoryName

The name of the repository that contains the images to scan.

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

```
{
   "imageId": {
      "imageDigest": "string",
      "imageTag": "string"
   },
   "imageScanStatus": {
      "description": "string",
      "status": "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.

imageId

An object with identifying information for an image in an Amazon ECR repository.

Type: ImageIdentifier object

imageScanStatus

The current state of the scan.

Type: ImageScanStatus object

registryId

The registry ID associated with the request.

Type: String

Pattern: `[0-9]{12}`

repositoryName

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.

ImageArchivedException

The specified image is archived and cannot be scanned.

HTTP Status Code: 400

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.

message

The error message associated with the exception.

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 service quotas in the Amazon Elastic Container Registry User Guide.

message

The error message associated with the exception.

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.

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

UnsupportedImageTypeException

The image is of a type that cannot be scanned.

HTTP Status Code: 400

ValidationException

There was an exception validating this request.

HTTP Status Code: 400

Examples

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 starts an image scan for and specified by the image digest in the `sample-repo` repository.

Sample Request

```
POST / HTTP/1.1
Host: ecr.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length: 141
X-Amz-Target: AmazonEC2ContainerRegistry_V20150921.StartImageScan
X-Amz-Date: 20161216T201255Z
User-Agent: aws-cli/1.16.310 Python/3.6.1 Darwin/18.7.0 botocore/1.13.46
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS

{
    "repositoryName": "sample-repo",
    "imageId": {
        "imageDigest":
 "sha256:74b2c688c700ec95a93e478cdb959737c148df3fbf5ea706abe0318726e885e6"
    }
}
```

Sample Response

```
HTTP/1.1 200 OK
Server: Server
```

```
Date: Fri, 24 Jan 2020 03:48:07 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 208
Connection: keep-alive
x-amzn-RequestId: 3081a92b-2066-41f8-8a47-0580288ada9e

{
    "registryId": "012345678910",
    "repositoryName": "sample-repo",
    "imageId": {
        "imageDigest":
 "sha256:74b2c688c700ec95a93e478cdb959737c148df3fbf5ea706abe0318726e885e6"
    },
    "imageScanStatus": {
        "status": "IN_PROGRESS"
    }
}
```

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

StartLifecyclePolicyPreview

Starts a preview of a lifecycle policy for the specified repository. This allows you to see the results before associating the lifecycle policy with the repository.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

lifecyclePolicyText

The policy to be evaluated against. If you do not specify a policy, the current policy for the repository is used.

Type: String

Length Constraints: Minimum length of 100. Maximum length of 30720.

Required: No

registryId

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

The name of the repository to be evaluated.

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

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

Response Elements

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

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

lifecyclePolicyText

The JSON repository policy text.

Type: String

Length Constraints: Minimum length of 100. Maximum length of 30720.

registryId

The registry ID associated with the request.

Type: String

Pattern: `[0-9]{12}`

repositoryName

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]+)*)*`

status

The status of the lifecycle policy preview request.

Type: String

Valid Values: `IN_PROGRESS | COMPLETE | EXPIRED | FAILED`

Errors

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

InvalidParameterException

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

message

The error message associated with the exception.

HTTP Status Code: 400

LifecyclePolicyNotFoundException

The lifecycle policy could not be found, and no policy is set to the repository.

HTTP Status Code: 400

LifecyclePolicyPreviewInProgressException

The previous lifecycle policy preview request has not completed. Wait and try again.

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.

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

ValidationException

There was an exception validating this request.

HTTP Status Code: 400

Examples

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 lifecycle policy preview to expire images older than 14 days for a repository called `project-a/amazon-ecs-sample` in the default registry for an account.

Sample Request

```
POST / HTTP/1.1
Host: ecr.us-west-2.amazonaws.com
Accept-Encoding: identity
```

```
X-Amz-Target: AmazonEC2ContainerRegistry_V20150921.StartLifecyclePolicyPreview
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/1.11.144 Python/3.6.1 Darwin/16.6.0 botocore/1.7.2
X-Amz-Date: 20170901T221604Z
Authorization: AUTHPARAMS
Content-Length: 535

{
   "repositoryName": "project-a/amazon-ecs-sample",
   "lifecyclePolicyText": "{\n    \"rules\": [\n        {\n            \"rulePriority
\": 1,\n            \"description\": \"Expire images older than 14 days\",\n
     \"selection\": {\n                \"tagStatus\": \"untagged\",\n
 \"countType\": \"sinceImagePushed\",\n                \"countUnit\": \"days\",\n
          \"countNumber\": 14\n            },\n            \"action\": {\n
   \"type\": \"expire\"\n            }\n        }\n    ]\n}\n"
}
```

Sample Response

```
HTTP/1.1 200 OK
Server: Server
Date: Fri, 01 Sep 2017 22:16:05 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 583
Connection: keep-alive
x-amzn-RequestId: 123a4b56-7c89-01d2-3ef4-example5678f

{
      "lifecyclePolicyText":"{\n    \"rules\": [\n        {\n            \"rulePriority
\": 1,\n            \"description\": \"Expire images older than 14 days\",\n
     \"selection\": {\n                \"tagStatus\": \"untagged\",\n
 \"countType\": \"sinceImagePushed\",\n                \"countUnit\": \"days\",\n
          \"countNumber\": 14\n            },\n            \"action\": {\n
   \"type\": \"expire\"\n            }\n        }\n    ]\n}\n",
      "registryId":"012345678910",
      "repositoryName":"project-a/amazon-ecs-sample",
      "status":"IN_PROGRESS"
}
```

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

TagResource

Adds specified tags to a resource with the specified ARN. Existing tags on a resource are not changed if they are not specified in the request parameters.

Request Syntax

```
{
   "resourceArn": "string",
   "tags": [
      {
         "Key": "string",
         "Value": "string"
      }
   ]
}
```

Request Parameters

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

The request accepts the following data in JSON format.

resourceArn

The Amazon Resource Name (ARN) of the the resource to which to add tags. Currently, the only supported resource is an Amazon ECR repository.

Type: String

Required: Yes

tags

The tags to add to the resource. A tag is an array of key-value pairs. Tag keys can have a maximum character length of 128 characters, and tag values can have a maximum length of 256 characters.

Type: Array of Tag objects

Required: Yes

Response Elements

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

Errors

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

InvalidParameterException

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

message

The error message associated with the exception.

HTTP Status Code: 400

InvalidTagParameterException

An invalid parameter has been specified. Tag keys can have a maximum character length of 128 characters, and tag values can have a maximum length of 256 characters.

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.

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

TooManyTagsException

The list of tags on the repository is over the limit. The maximum number of tags that can be applied to a repository is 50.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UntagResource

Deletes specified tags from a resource.

Request Syntax

```
{
   "resourceArn": "string",
   "tagKeys": [ "string" ]
}
```

Request Parameters

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

The request accepts the following data in JSON format.

resourceArn

The Amazon Resource Name (ARN) of the resource from which to remove tags. Currently, the only supported resource is an Amazon ECR repository.

Type: String

Required: Yes

tagKeys

The keys of the tags to be removed.

Type: Array of strings

Required: Yes

Response Elements

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

Errors

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

InvalidParameterException

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

message

The error message associated with the exception.

HTTP Status Code: 400

InvalidTagParameterException

An invalid parameter has been specified. Tag keys can have a maximum character length of 128 characters, and tag values can have a maximum length of 256 characters.

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.

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

TooManyTagsException

The list of tags on the repository is over the limit. The maximum number of tags that can be applied to a repository is 50.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateImageStorageClass

Transitions an image between storage classes. You can transition images from Amazon ECR standard storage class to Amazon ECR archival storage class for long-term storage, or restore archived images back to Amazon ECR standard.

Request Syntax

```
{
   "imageId": {
      "imageDigest": "string",
      "imageTag": "string"
   },
   "registryId": "string",
   "repositoryName": "string",
   "targetStorageClass": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

imageId

An object with identifying information for an image in an Amazon ECR repository.

Type: ImageIdentifier object

Required: Yes

registryId

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

Type: String

Pattern: `[0-9]{12}`

Required: No

repositoryName

The name of the repository that contains the image to transition.

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

targetStorageClass

The target storage class for the image.

Type: String

Valid Values: `STANDARD | ARCHIVE`

Required: Yes

Response Syntax

```
{
   "imageId": {
      "imageDigest": "string",
      "imageTag": "string"
   },
   "imageStatus": "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.

imageId

An object with identifying information for an image in an Amazon ECR repository.

Type: ImageIdentifier object

imageStatus

The current status of the image after the call to UpdateImageStorageClass is complete. Valid values are `ACTIVE`, `ARCHIVED`, and `ACTIVATING`.

Type: String

Valid Values: `ACTIVE | ARCHIVED | ACTIVATING`

registryId

The registry ID associated with the request.

Type: String

Pattern: `[0-9]{12}`

repositoryName

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.

ImageNotFoundException

The image requested does not exist in the specified repository.

HTTP Status Code: 400

ImageStorageClassUpdateNotSupportedException

The requested image storage class update is not supported.

HTTP Status Code: 400

InvalidParameterException

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

message

The error message associated with the exception.

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.

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

ValidationException

There was an exception validating this request.

HTTP Status Code: 400

Examples

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.

To transition an image to Amazon ECR archive

This example transitions an image with a specific digest in the `hello-repository` repository to Amazon ECR archive storage for long-term archival.

Sample Request

```
POST / HTTP/1.1
Host: api.ecr.us-east-1.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonEC2ContainerRegistry_V20150921.UpdateImageStorageClass
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/2.0 Python/3.8.0 Darwin/20.0.0 botocore/2.0.0
X-Amz-Date: 20251117T220800Z
Authorization: AUTHPARAMS
Content-Length: 225

{
   "registryId": "724772093679",
   "repositoryName": "hello-repository",
   "imageId": {
      "imageDigest":
 "sha256:0b1a4e0c81c434fa7928e5c4a2651a521ebabc4ff200c65f7e25b99373efca3b"
   },
   "targetStorageClass": "ARCHIVE"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 123a4b56-7c89-01d2-3ef4-example5678f
Content-Type: application/x-amz-json-1.1
Content-Length: 215
Connection: keep-alive

{
   "registryId": "724772093679",
   "repositoryName": "hello-repository",
```

```
   "imageId": {
      "imageDigest":
 "sha256:0b1a4e0c81c434fa7928e5c4a2651a521ebabc4ff200c65f7e25b99373efca3b"
   },
   "imageStatus": "ARCHIVED"
}
```

To restore an archived image to Amazon ECR standard

This example restores an archived image with a specific digest back to Amazon ECR standard storage.

Sample Request

```
POST / HTTP/1.1
Host: api.ecr.us-east-1.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: AmazonEC2ContainerRegistry_V20150921.UpdateImageStorageClass
Content-Type: application/x-amz-json-1.1
User-Agent: aws-cli/2.0 Python/3.8.0 Darwin/20.0.0 botocore/2.0.0
X-Amz-Date: 20251117T220900Z
Authorization: AUTHPARAMS
Content-Length: 226

{
   "registryId": "724772093679",
   "repositoryName": "hello-repository",
   "imageId": {
      "imageDigest":
 "sha256:0b1a4e0c81c434fa7928e5c4a2651a521ebabc4ff200c65f7e25b99373efca3b"
   },
   "targetStorageClass": "STANDARD"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: 123a4b56-7c89-01d2-3ef4-example5678f
Content-Type: application/x-amz-json-1.1
Content-Length: 217
Connection: keep-alive
```

```
{
   "registryId": "724772093679",
   "repositoryName": "hello-repository",
   "imageId": {
      "imageDigest":
 "sha256:0b1a4e0c81c434fa7928e5c4a2651a521ebabc4ff200c65f7e25b99373efca3b"
   },
   "imageStatus": "ACTIVATING"
}
```

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdatePullThroughCacheRule

Updates an existing pull through cache rule.

Request Syntax

```
{
   "credentialArn": "string",
   "customRoleArn": "string",
   "ecrRepositoryPrefix": "string",
   "registryId": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

credentialArn

The Amazon Resource Name (ARN) of the AWS Secrets Manager secret that identifies the credentials to authenticate to the upstream registry.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 612.

Pattern: `^arn:aws(-\w+)*:secretsmanager:[a-zA-Z0-9-:]+:secret:ecr\-pullthroughcache\/[a-zA-Z0-9\/_+=.@-]+$`

Required: No

customRoleArn

Amazon Resource Name (ARN) of the IAM role to be assumed by Amazon ECR to authenticate to the ECR upstream registry. This role must be in the same account as the registry that you are configuring.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

ecrRepositoryPrefix

The repository name prefix to use when caching images from the source registry.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 30.

Pattern: `^([a-z0-9]+((\.|_|__|-+)[a-z0-9]+)*(\/[a-z0-9]+((\.|_|__|-+)[a-z0-9]+)*)*\/?|ROOT)$`

Required: Yes

registryId

The AWS account ID associated with the registry associated with the pull through cache rule. If you do not specify a registry, the default registry is assumed.

Type: String

Pattern: `[0-9]{12}`

Required: No

Response Syntax

```
{
   "credentialArn": "string",
   "customRoleArn": "string",
   "ecrRepositoryPrefix": "string",
   "registryId": "string",
   "updatedAt": number,
   "upstreamRepositoryPrefix": "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.

credentialArn

The Amazon Resource Name (ARN) of the AWS Secrets Manager secret associated with the pull through cache rule.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 612.

Pattern: `^arn:aws(-\w+)*:secretsmanager:[a-zA-Z0-9-:]+:secret:ecr\-pullthroughcache\/[a-zA-Z0-9\/_+=.@-]+$`

customRoleArn

The ARN of the IAM role associated with the pull through cache rule.

Type: String

Length Constraints: Maximum length of 2048.

ecrRepositoryPrefix

The Amazon ECR repository prefix associated with the pull through cache rule.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 30.

Pattern: `^([a-z0-9]+((\.|_|__|-+)[a-z0-9]+)*(\/[a-z0-9]+((\.|_|__|-+)[a-z0-9]+)*)*\/?|ROOT)$`

registryId

The registry ID associated with the request.

Type: String

Pattern: `[0-9]{12}`

updatedAt

The date and time, in JavaScript date format, when the pull through cache rule was updated.

Type: Timestamp

upstreamRepositoryPrefix

The upstream repository prefix associated with the pull through cache rule.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 30.

Pattern: `^([a-z0-9]+((\.|_|__|-+)[a-z0-9]+)*(\/[a-z0-9]+((\.|_|__|-+)[a-z0-9]+)*)*\/?|ROOT)$`

Errors

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

InvalidParameterException

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

message

The error message associated with the exception.

HTTP Status Code: 400

PullThroughCacheRuleNotFoundException

The pull through cache rule was not found. Specify a valid pull through cache rule and try again.

HTTP Status Code: 400

SecretNotFoundException

The ARN of the secret specified in the pull through cache rule was not found. Update the pull through cache rule with a valid secret ARN and try again.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

UnableToAccessSecretException

The secret is unable to be accessed. Verify the resource permissions for the secret and try again.

HTTP Status Code: 400

UnableToDecryptSecretValueException

The secret is accessible but is unable to be decrypted. Verify the resource permisisons and try again.

HTTP Status Code: 400

ValidationException

There was an exception validating this request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UpdateRepositoryCreationTemplate

Updates an existing repository creation template.

Request Syntax

```
{
   "appliedFor": [ "string" ],
   "customRoleArn": "string",
   "description": "string",
   "encryptionConfiguration": {
      "encryptionType": "string",
      "kmsKey": "string"
   },
   "imageTagMutability": "string",
   "imageTagMutabilityExclusionFilters": [
      {
         "filter": "string",
         "filterType": "string"
      }
   ],
   "lifecyclePolicy": "string",
   "prefix": "string",
   "repositoryPolicy": "string",
   "resourceTags": [
      {
         "Key": "string",
         "Value": "string"
      }
   ]
}
```

Request Parameters

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

The request accepts the following data in JSON format.

appliedFor

Updates the list of enumerable strings representing the Amazon ECR repository creation scenarios that this template will apply towards. The supported scenarios are `PULL_THROUGH_CACHE`, `REPLICATION`, and `CREATE_ON_PUSH`

Type: Array of strings

Valid Values: `REPLICATION | PULL_THROUGH_CACHE | CREATE_ON_PUSH`

Required: No

customRoleArn

The ARN of the role to be assumed by Amazon ECR. This role must be in the same account as the registry that you are configuring. Amazon ECR will assume your supplied role when the customRoleArn is specified. When this field isn't specified, Amazon ECR will use the service-linked role for the repository creation template.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

description

A description for the repository creation template.

Type: String

Length Constraints: Maximum length of 256.

Required: No

encryptionConfiguration

The encryption configuration to associate with the repository creation template.

Type: EncryptionConfigurationForRepositoryCreationTemplate object

Required: No

imageTagMutability

Updates the tag mutability setting for the repository. If this parameter is omitted, the default setting of `MUTABLE` will be used which will allow image tags to be overwritten. If `IMMUTABLE` is

specified, all image tags within the repository will be immutable which will prevent them from being overwritten.

Type: String

Valid Values: `MUTABLE | IMMUTABLE | IMMUTABLE_WITH_EXCLUSION | MUTABLE_WITH_EXCLUSION`

Required: No

imageTagMutabilityExclusionFilters

A list of filters that specify which image tags should be excluded from the repository creation template's image tag mutability setting.

Type: Array of ImageTagMutabilityExclusionFilter objects

Array Members: Minimum number of 1 item. Maximum number of 5 items.

Required: No

lifecyclePolicy

Updates the lifecycle policy associated with the specified repository creation template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 30720.

Required: No

prefix

The repository namespace prefix that matches an existing repository creation template in the registry. All repositories created using this namespace prefix will have the settings defined in this template applied. For example, a prefix of `prod` would apply to all repositories beginning with `prod/`. This includes a repository named `prod/team1` as well as a repository named `prod/repository1`.

To apply a template to all repositories in your registry that don't have an associated creation template, you can use `ROOT` as the prefix.

Type: String

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

Pattern: `^([a-z0-9]+((\.|_|__|-+)[a-z0-9]+)*(\/[a-z0-9]+((\.|_|__|-+)[a-z0-9]+)*)*\/?|ROOT)$`

Required: Yes

repositoryPolicy

Updates the repository policy created using the template. A repository policy is a permissions policy associated with a repository to control access permissions.

Type: String

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

Required: No

resourceTags

The metadata to apply to the repository to help you categorize and organize. Each tag consists of a key and an optional value, both of which you define. Tag keys can have a maximum character length of 128 characters, and tag values can have a maximum length of 256 characters.

Type: Array of Tag objects

Required: No

Response Syntax

```
{
   "registryId": "string",
   "repositoryCreationTemplate": {
      "appliedFor": [ "string" ],
      "createdAt": number,
      "customRoleArn": "string",
      "description": "string",
      "encryptionConfiguration": {
         "encryptionType": "string",
         "kmsKey": "string"
      },
```

```
        "imageTagMutability": "string",
        "imageTagMutabilityExclusionFilters": [
           {
              "filter": "string",
              "filterType": "string"
           }
        ],
        "lifecyclePolicy": "string",
        "prefix": "string",
        "repositoryPolicy": "string",
        "resourceTags": [
           {
              "Key": "string",
              "Value": "string"
           }
        ],
        "updatedAt": number
    }
}
```

Response Elements

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

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

registryId

The registry ID associated with the request.

Type: String

Pattern: `[0-9]{12}`

repositoryCreationTemplate

The details of the repository creation template associated with the request.

Type: RepositoryCreationTemplate object

Errors

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

InvalidParameterException

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

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

TemplateNotFoundException

The specified repository creation template can't be found. Verify the registry ID and prefix and try again.

HTTP Status Code: 400

ValidationException

There was an exception validating this request.

HTTP Status Code: 400

Examples

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 updates a repository creation template in the default registry for an account.

Sample Request

```
POST / HTTP/1.1
Host: ecr.us-west-2.amazonaws.com
Accept-Encoding: identity
Content-Length:240
X-Amz-Target: AmazonEC2ContainerRegistry_V20150921.UpdateRepositoryCreationTemplate
X-Amz-Date: 20231216T195356Z
User-Agent: aws-cli/1.11.22 Python/2.7.12 Darwin/16.3.0 botocore/1.4.79
Content-Type: application/x-amz-json-1.1
Authorization: AUTHPARAMS

{
 "prefix": "eng/test",
 "resourceTags":
  [
    {"Key": "environment",
     "Value": "test"}
  ],
  "appliedFor":
  ["REPLICATION"]
}
```

Sample Response

```
HTTP/1.1 200 OK
Server: Server
Date: Sat, 16 Dec 2023 19:54:56 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 950
Connection: keep-alive
x-amzn-RequestId: 60dc1ea1-c3c9-11e6-aa04-25c3a5fb1b54


{
 "registryId": "012345678901",
 "repositoryCreationTemplate":
  {
   "appliedFor":
```

```
    ["REPLICATION"],
   "description": "Repos for testing images",
   "encryptionConfiguration":
    {
        "encryptionType": "AES256"
    },
   "imageTagMutability": "MUTABLE",
   "lifecyclePolicy": "{\r\n    \"rules\": [\r\n        {\r\n            \"rulePriority
\": 1,\r\n            \"description\": \"Expire images older than 14 days\",\r\n
     \"selection\": {\r\n                \"tagStatus\": \"untagged\",\r\n
  \"countType\": \"sinceImagePushed\",\r\n                \"countUnit\": \"days\",\r\n
              \"countNumber\": 14\r\n            },\r\n            \"action\": {\r\n
             \"type\": \"expire\"\r\n            }\r\n        }\r\n    ]\r\n}",
   "prefix": "eng/test",
   "repositoryPolicy": "{\n  \"Version\" : \"2012-10-17\",\n  \"Statement\" : [ {\n
    \"Sid\" : \"LambdaECRPullPolicy\",\n    \"Effect\" : \"Allow\",\n    \"Principal
\" : {\n      \"Service\" : \"lambda.amazonaws.com\"\n    },\n    \"Action\" :
 \"ecr:BatchGetImage\"\n  } ]\n}",
   "resourceTags":
    [
      {"Key": "environment",
       "Value": "test"}
    ],
   "createdAt": "2023-12-16T17:29:02-07:00",
   "updatedAt": "2023-12-16T19:55:02-07:00"
  }
}
```

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin

- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

UploadLayerPart

Uploads an image layer part to Amazon ECR.

When an image is pushed, each new image layer is uploaded in parts. The maximum size of each image layer part can be 20971520 bytes (or about 20MB). The UploadLayerPart API is called once per each new image layer part.

> **Note**
>
> This operation is used by the Amazon ECR proxy and is not generally used by customers for pulling and pushing images. In most cases, you should 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.

The request accepts the following data in JSON format.

layerPartBlob

The base64-encoded layer part payload.

Type: Base64-encoded binary data object

Length Constraints: Minimum length of 0. Maximum length of 20971520.

Required: Yes

partFirstByte

The position of the first byte of the layer part witin the overall image layer.

Type: Long

Valid Range: Minimum value of 0.

Required: Yes

partLastByte

The position of the last byte of the layer part within the overall image layer.

Type: Long

Valid Range: Minimum value of 0.

Required: Yes

registryId

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

Type: String

Pattern: `[0-9]{12}`

Required: No

repositoryName

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

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

uploadId

The upload ID from a previous InitiateLayerUpload 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]{4}-[0-9a-fA-F]{4}-[0-9a-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

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

Type: Long

Valid Range: Minimum value of 0.

registryId

The registry ID associated with the request.

Type: String

Pattern: `[0-9]{12}`

repositoryName

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]+)*)*`

uploadId

The upload ID associated with the request.

Type: String

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

Errors

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

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.

lastValidByteReceived

The last valid byte received from the layer part upload that is associated with the exception.

message

The error message associated with the exception.

registryId

The registry ID associated with the exception.

repositoryName

The repository name associated with the exception.

uploadId

The upload ID associated with the exception.

HTTP Status Code: 400

InvalidParameterException

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

message

The error message associated with the exception.

HTTP Status Code: 400

KmsException

The operation failed due to a KMS exception.

kmsError

The error code returned by AWS KMS.

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 service quotas in the Amazon Elastic Container Registry User Guide.

message

The error message associated with the exception.

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.

message

The error message associated with the exception.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

UploadNotFoundException

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

message

The error message associated with the exception.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ValidatePullThroughCacheRule

Validates an existing pull through cache rule for an upstream registry that requires authentication. This will retrieve the contents of the AWS Secrets Manager secret, verify the syntax, and then validate that authentication to the upstream registry is successful.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

ecrRepositoryPrefix

The repository name prefix associated with the pull through cache rule.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 30.

Pattern: `^([a-z0-9]+((\.|_|__|-+)[a-z0-9]+)*(\/[a-z0-9]+((\.|_|__|-+)[a-z0-9]+)*)*\/?|ROOT)$`

Required: Yes

registryId

The registry ID associated with the pull through cache rule. If you do not specify a registry, the default registry is assumed.

Type: String

Pattern: `[0-9]{12}`

Required: No

Response Syntax

```
{
   "credentialArn": "string",
   "customRoleArn": "string",
   "ecrRepositoryPrefix": "string",
   "failure": "string",
   "isValid": boolean,
   "registryId": "string",
   "upstreamRegistryUrl": "string",
   "upstreamRepositoryPrefix": "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.

credentialArn

The Amazon Resource Name (ARN) of the AWS Secrets Manager secret associated with the pull through cache rule.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 612.

Pattern: `^arn:aws(-\w+)*:secretsmanager:[a-zA-Z0-9-:]+:secret:ecr\-pullthroughcache\/[a-zA-Z0-9\/_+=.@-]+$`

customRoleArn

The ARN of the IAM role associated with the pull through cache rule.

Type: String

Length Constraints: Maximum length of 2048.

ecrRepositoryPrefix

The Amazon ECR repository prefix associated with the pull through cache rule.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 30.

Pattern: `^([a-z0-9]+((\.|_|__|-+)[a-z0-9]+)*(\/[a-z0-9]+((\.|_|__|-+)[a-z0-9]+)*)*\/?|ROOT)$`

failure

The reason the validation failed. For more details about possible causes and how to address them, see Using pull through cache rules in the *Amazon Elastic Container Registry User Guide*.

Type: String

isValid

Whether or not the pull through cache rule was validated. If `true`, Amazon ECR was able to reach the upstream registry and authentication was successful. If `false`, there was an issue and validation failed. The `failure` reason indicates the cause.

Type: Boolean

registryId

The registry ID associated with the request.

Type: String

Pattern: `[0-9]{12}`

upstreamRegistryUrl

The upstream registry URL associated with the pull through cache rule.

Type: String

upstreamRepositoryPrefix

The upstream repository prefix associated with the pull through cache rule.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 30.

Pattern: `^([a-z0-9]+((\.|_|__|-+)[a-z0-9]+)*(\/[a-z0-9]+((\.|_|__|-+)[a-z0-9]+)*)*\/?|ROOT)$`

Errors

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

InvalidParameterException

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

message

The error message associated with the exception.

HTTP Status Code: 400

PullThroughCacheRuleNotFoundException

The pull through cache rule was not found. Specify a valid pull through cache rule and try again.

HTTP Status Code: 400

ServerException

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

message

The error message associated with the exception.

HTTP Status Code: 500

ValidationException

There was an exception validating this request.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4

- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

Data Types

The Amazon Elastic 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:

- Attribute
- AuthorizationData
- AwsEcrContainerImageDetails
- CvssScore
- CvssScoreAdjustment
- CvssScoreDetails
- DescribeImagesFilter
- EncryptionConfiguration
- EncryptionConfigurationForRepositoryCreationTemplate
- EnhancedImageScanFinding
- Image
- ImageDetail
- ImageFailure
- ImageIdentifier
- ImageReferrer
- ImageReplicationStatus
- ImageScanFinding
- ImageScanFindings
- ImageScanFindingsSummary
- ImageScanningConfiguration

- ImageScanStatus
- ImageSigningStatus
- ImageTagMutabilityExclusionFilter
- Layer
- LayerFailure
- LifecyclePolicyPreviewFilter
- LifecyclePolicyPreviewResult
- LifecyclePolicyPreviewSummary
- LifecyclePolicyRuleAction
- ListImageReferrersFilter
- ListImagesFilter
- PackageVulnerabilityDetails
- PullThroughCacheRule
- Recommendation
- RegistryScanningConfiguration
- RegistryScanningRule
- Remediation
- ReplicationConfiguration
- ReplicationDestination
- ReplicationRule
- Repository
- RepositoryCreationTemplate
- RepositoryFilter
- RepositoryScanningConfiguration
- RepositoryScanningConfigurationFailure
- Resource
- ResourceDetails
- ScanningRepositoryFilter
- ScoreDetails
- SigningConfiguration

- SigningRepositoryFilter
- SigningRule
- SubjectIdentifier
- Tag
- TransitioningImageTotalCount
- VulnerablePackage

Attribute

This data type is used in the ImageScanFinding data type.

Contents

key

The attribute key.

Type: String

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

Required: Yes

value

The value assigned to the attribute key.

Type: String

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

Required: No

See Also

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

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

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

See Also

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

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

AwsEcrContainerImageDetails

The image details of the Amazon ECR container image.

Contents

architecture

The architecture of the Amazon ECR container image.

Type: String

Required: No

author

The image author of the Amazon ECR container image.

Type: String

Required: No

imageHash

The image hash of the Amazon ECR container image.

Type: String

Required: No

imageTags

The image tags attached to the Amazon ECR container image.

Type: Array of strings

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

Required: No

inUseCount

The number of Amazon ECS or Amazon EKS clusters currently running the image.

Type: Long

Valid Range: Minimum value of 0.

Required: No

lastInUseAt

The most recent date and time a cluster was running the image.

Type: Timestamp

Required: No

platform

The platform of the Amazon ECR container image.

Type: String

Required: No

pushedAt

The date and time the Amazon ECR container image was pushed.

Type: Timestamp

Required: No

registry

The registry the Amazon ECR container image belongs to.

Type: String

Pattern: `[0-9]{12}`

Required: No

repositoryName

The name of the repository the Amazon ECR container image resides in.

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

See Also

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

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

CvssScore

The CVSS score for a finding.

Contents

baseScore

The base CVSS score used for the finding.

Type: Double

Required: No

scoringVector

The vector string of the CVSS score.

Type: String

Required: No

source

The source of the CVSS score.

Type: String

Required: No

version

The version of CVSS used for the score.

Type: String

Required: No

See Also

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

- AWS SDK for C++

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

CvssScoreAdjustment

Details on adjustments Amazon Inspector made to the CVSS score for a finding.

Contents

metric

The metric used to adjust the CVSS score.

Type: String

Required: No

reason

The reason the CVSS score has been adjustment.

Type: String

Required: No

See Also

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

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

CvssScoreDetails

Information about the CVSS score.

Contents

adjustments

An object that contains details about adjustment Amazon Inspector made to the CVSS score.

Type: Array of CvssScoreAdjustment objects

Required: No

score

The CVSS score.

Type: Double

Required: No

scoreSource

The source for the CVSS score.

Type: String

Required: No

scoringVector

The vector for the CVSS score.

Type: String

Required: No

version

The CVSS version used in scoring.

Type: String

Required: No

See Also

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

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

DescribeImagesFilter

An object representing a filter on a DescribeImages operation.

Contents

imageStatus

The image status with which to filter your DescribeImages results. Valid values are `ACTIVE`, `ARCHIVED`, and `ACTIVATING`. If not specified, only images with `ACTIVE` status are returned.

Type: String

Valid Values: `ACTIVE | ARCHIVED | ACTIVATING | ANY`

Required: No

tagStatus

The tag status with which to filter your DescribeImages results. You can filter results based on whether they are `TAGGED` or `UNTAGGED`.

Type: String

Valid Values: `TAGGED | UNTAGGED | ANY`

Required: No

See Also

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

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

EncryptionConfiguration

The encryption configuration for the repository. This determines how the contents of your repository are encrypted at rest.

By default, when no encryption configuration is set or the `AES256` encryption type is used, Amazon ECR uses server-side encryption with Amazon S3-managed encryption keys which encrypts your data at rest using an AES256 encryption algorithm. This does not require any action on your part.

For more control over the encryption of the contents of your repository, you can use server-side encryption with AWS Key Management Service key stored in AWS Key Management Service (AWS KMS) to encrypt your images. For more information, see Amazon ECR encryption at rest in the *Amazon Elastic Container Registry User Guide*.

Contents

encryptionType

The encryption type to use.

If you use the `KMS` encryption type, the contents of the repository will be encrypted using server-side encryption with AWS Key Management Service key stored in AWS KMS. When you use AWS KMS to encrypt your data, you can either use the default AWS managed AWS KMS key for Amazon ECR, or specify your own AWS KMS key, which you already created.

If you use the `KMS_DSSE` encryption type, the contents of the repository will be encrypted with two layers of encryption using server-side encryption with the AWS KMS Management Service key stored in AWS KMS. Similar to the `KMS` encryption type, you can either use the default AWS managed AWS KMS key for Amazon ECR, or specify your own AWS KMS key, which you've already created.

If you use the `AES256` encryption type, Amazon ECR uses server-side encryption with Amazon S3-managed encryption keys which encrypts the images in the repository using an AES256 encryption algorithm.

For more information, see Amazon ECR encryption at rest in the *Amazon Elastic Container Registry User Guide*.

Type: String

Valid Values: `AES256` | `KMS` | `KMS_DSSE`

Required: Yes

kmsKey

If you use the `KMS` encryption type, specify the AWS KMS key to use for encryption. The alias, key ID, or full ARN of the AWS KMS key can be specified. The key must exist in the same Region as the repository. If no key is specified, the default AWS managed AWS KMS key for Amazon ECR will be used.

Type: String

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

Required: No

See Also

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

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

EncryptionConfigurationForRepositoryCreationTemplate

The encryption configuration to associate with the repository creation template.

Contents

encryptionType

The encryption type to use.

If you use the `KMS` encryption type, the contents of the repository will be encrypted using server-side encryption with AWS Key Management Service key stored in AWS KMS. When you use AWS KMS to encrypt your data, you can either use the default AWS managed AWS KMS key for Amazon ECR, or specify your own AWS KMS key, which you already created. For more information, see Protecting data using server-side encryption with an AWS KMS key stored in AWS Key Management Service (SSE-KMS) in the *Amazon Simple Storage Service Console Developer Guide*.

If you use the `AES256` encryption type, Amazon ECR uses server-side encryption with Amazon S3-managed encryption keys which encrypts the images in the repository using an AES256 encryption algorithm. For more information, see Protecting data using server-side encryption with Amazon S3-managed encryption keys (SSE-S3) in the *Amazon Simple Storage Service Console Developer Guide*.

Type: String

Valid Values: `AES256 | KMS | KMS_DSSE`

Required: Yes

kmsKey

If you use the `KMS` encryption type, specify the AWS KMS key to use for encryption. The full ARN of the AWS KMS key must be specified. The key must exist in the same Region as the repository. If no key is specified, the default AWS managed AWS KMS key for Amazon ECR will be used.

Type: String

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

Pattern: `^$|arn:aws[a-z0-9-]*:kms:[a-z0-9-]+:[0-9]{12}:key\/[a-z0-9-]+`

Required: No

See Also

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

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

EnhancedImageScanFinding

The details of an enhanced image scan. This is returned when enhanced scanning is enabled for your private registry.

Contents

awsAccountId

The AWS account ID associated with the image.

Type: String

Pattern: `[0-9]{12}`

Required: No

description

The description of the finding.

Type: String

Required: No

exploitAvailable

If a finding discovered in your environment has an exploit available.

Type: String

Required: No

findingArn

The Amazon Resource Number (ARN) of the finding.

Type: String

Required: No

firstObservedAt

The date and time that the finding was first observed.

Type: Timestamp

Required: No

fixAvailable

Details on whether a fix is available through a version update. This value can be `YES`, `NO`, or `PARTIAL`. A `PARTIAL` fix means that some, but not all, of the packages identified in the finding have fixes available through updated versions.

Type: String

Required: No

lastObservedAt

The date and time that the finding was last observed.

Type: Timestamp

Required: No

packageVulnerabilityDetails

An object that contains the details of a package vulnerability finding.

Type: PackageVulnerabilityDetails object

Required: No

remediation

An object that contains the details about how to remediate a finding.

Type: Remediation object

Required: No

resources

Contains information on the resources involved in a finding.

Type: Array of Resource objects

Required: No

score

The Amazon Inspector score given to the finding.

Type: Double

Required: No

scoreDetails

An object that contains details of the Amazon Inspector score.

Type: ScoreDetails object

Required: No

severity

The severity of the finding.

Type: String

Required: No

status

The status of the finding.

Type: String

Required: No

title

The title of the finding.

Type: String

Required: No

type

The type of the finding.

Type: String

Required: No

updatedAt

The date and time the finding was last updated at.

Type: Timestamp

Required: No

See Also

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

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

Image

An object representing an Amazon ECR image.

Contents

imageId

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

Type: ImageIdentifier object

Required: No

imageManifest

The image manifest associated with the image.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4194304.

Required: No

imageManifestMediaType

The manifest media type of the image.

Type: String

Required: No

registryId

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]+)*)*`

Required: No

See Also

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

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

ImageDetail

An object that describes an image returned by a DescribeImages operation.

Contents

artifactMediaType

The artifact media type of the image.

Type: String

Required: No

imageDigest

The `sha256` digest of the image manifest.

Type: String

Required: No

imageManifestMediaType

The media type 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

imageScanFindingsSummary

A summary of the last completed image scan.

Type: ImageScanFindingsSummary object

Required: No

imageScanStatus

The current state of the scan.

Type: ImageScanStatus object

Required: No

imageSizeInBytes

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

If the image is a manifest list, this will be the max size of all manifests in the list.

> **Note**
>
> Starting 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. Therefore, Docker might return a larger image than the image shown in the AWS Management Console.

Type: Long

Required: No

imageStatus

The current status of the image.

Type: String

Valid Values: `ACTIVE | ARCHIVED | ACTIVATING`

Required: No

imageTags

The list of tags associated with this image.

Type: Array of strings

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

Required: No

lastActivatedAt

The date and time, expressed in standard JavaScript date format, when the image was last restored from Amazon ECR archive to Amazon ECR standard.

Type: Timestamp

Required: No

lastArchivedAt

The date and time, expressed in standard JavaScript date format, when the image was last transitioned to Amazon ECR archive.

Type: Timestamp

Required: No

lastRecordedPullTime

The date and time, expressed in standard JavaScript date format, when Amazon ECR recorded the last image pull.

> **Note**
>
> Amazon ECR refreshes the last image pull timestamp at least once every 24 hours. For example, if you pull an image once a day then the `lastRecordedPullTime` timestamp will indicate the exact time that the image was last pulled. However, if you pull an image once an hour, because Amazon ECR refreshes the `lastRecordedPullTime` timestamp at least once every 24 hours, the result may not be the exact time that the image was last pulled.

Type: Timestamp

Required: No

registryId

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]+)*)*`

Required: No

subjectManifestDigest

The digest of the subject manifest for images that are referrers.

Type: String

Required: No

See Also

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

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

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 | ImageReferencedByManifestList | KmsError | UpstreamAccessDenied | UpstreamTooManyRequests | UpstreamUnavailable | ImageInaccessible`

Required: No

failureReason

The reason for the failure.

Type: String

Required: No

imageId

The image ID associated with the failure.

Type: ImageIdentifier object

Required: No

See Also

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

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

- AWS SDK for Ruby V3

ImageIdentifier

An object with identifying information for an image in an Amazon ECR repository.

Contents

imageDigest

The sha256 digest of the image manifest.

Type: String

Required: No

imageTag

The tag used for the image.

Type: String

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

Required: No

See Also

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

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

ImageReferrer

An object representing an artifact associated with a subject image.

Contents

digest

The digest of the artifact manifest.

Type: String

Required: Yes

mediaType

The media type of the artifact manifest.

Type: String

Required: Yes

size

The size, in bytes, of the artifact.

Type: Long

Required: Yes

annotations

A map of annotations associated with the artifact.

Type: String to string map

Required: No

artifactStatus

The status of the artifact. Valid values are `ACTIVE`, `ARCHIVED`, or `ACTIVATING`.

Type: String

Valid Values: `ACTIVE | ARCHIVED | ACTIVATING`

Required: No

artifactType

A string identifying the type of artifact.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

See Also

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

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

ImageReplicationStatus

The status of the replication process for an image.

Contents

failureCode

The failure code for a replication that has failed.

Type: String

Required: No

region

The destination Region for the image replication.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 25.

Pattern: `[0-9a-z-]{2,25}`

Required: No

registryId

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

Type: String

Pattern: `[0-9]{12}`

Required: No

status

The image replication status.

Type: String

Valid Values: `IN_PROGRESS | COMPLETE | FAILED`

Required: No

See Also

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

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

ImageScanFinding

Contains information about an image scan finding.

Contents

attributes

A collection of attributes of the host from which the finding is generated.

Type: Array of Attribute objects

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

Required: No

description

The description of the finding.

Type: String

Required: No

name

The name associated with the finding, usually a CVE number.

Type: String

Required: No

severity

The finding severity.

Type: String

Valid Values: `INFORMATIONAL | LOW | MEDIUM | HIGH | CRITICAL | UNDEFINED`

Required: No

uri

A link containing additional details about the security vulnerability.

Type: String

Required: No

See Also

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

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

ImageScanFindings

The details of an image scan.

Contents

enhancedFindings

Details about the enhanced scan findings from Amazon Inspector.

Type: Array of EnhancedImageScanFinding objects

Required: No

findings

The findings from the image scan.

Type: Array of ImageScanFinding objects

Required: No

findingSeverityCounts

The image vulnerability counts, sorted by severity.

Type: String to integer map

Valid Keys: `INFORMATIONAL | LOW | MEDIUM | HIGH | CRITICAL | UNDEFINED`

Valid Range: Minimum value of 0.

Required: No

imageScanCompletedAt

The time of the last completed image scan.

Type: Timestamp

Required: No

vulnerabilitySourceUpdatedAt

The time when the vulnerability data was last scanned.

Type: Timestamp

Required: No

See Also

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

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

ImageScanFindingsSummary

A summary of the last completed image scan.

Contents

findingSeverityCounts

The image vulnerability counts, sorted by severity.

Type: String to integer map

Valid Keys: `INFORMATIONAL | LOW | MEDIUM | HIGH | CRITICAL | UNDEFINED`

Valid Range: Minimum value of 0.

Required: No

imageScanCompletedAt

The time of the last completed image scan.

Type: Timestamp

Required: No

vulnerabilitySourceUpdatedAt

The time when the vulnerability data was last scanned.

Type: Timestamp

Required: No

See Also

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

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

ImageScanningConfiguration

The image scanning configuration for a repository.

Contents

scanOnPush

The setting that determines whether images are scanned after being pushed to a repository. If set to `true`, images will be scanned after being pushed. If this parameter is not specified, it will default to `false` and images will not be scanned unless a scan is manually started with the API_StartImageScan API.

Type: Boolean

Required: No

See Also

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

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

ImageScanStatus

The current status of an image scan.

Contents

description

The description of the image scan status.

Type: String

Required: No

status

The current state of an image scan.

Type: String

Valid Values: `IN_PROGRESS | COMPLETE | FAILED | UNSUPPORTED_IMAGE | ACTIVE | PENDING | SCAN_ELIGIBILITY_EXPIRED | FINDINGS_UNAVAILABLE | LIMIT_EXCEEDED | IMAGE_ARCHIVED`

Required: No

See Also

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

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

ImageSigningStatus

The signing status for an image. Each status corresponds to a signing profile.

Contents

failureCode

The failure code, which is only present if `status` is `FAILED`.

Type: String

Required: No

failureReason

A description of why signing the image failed. This field is only present if `status` is `FAILED`.

Type: String

Required: No

signingProfileArn

The ARN of the AWS Signer signing profile used to sign the image.

Type: String

Length Constraints: Maximum length of 200.

Pattern: `^arn:aws(-[a-z]+)*:signer:[a-z0-9-]+:[0-9]{12}:\/signing-profiles\/[a-zA-Z0-9_]{2,}$`

Required: No

status

The image's signing status. Possible values are:

- `IN_PROGRESS` - Signing is currently in progress.
- `COMPLETE` - The signature was successfully generated.
- `FAILED` - Signing failed. See `failureCode` and `failureReason` for details.

Type: String

Valid Values: `IN_PROGRESS | COMPLETE | FAILED`

Required: No

See Also

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

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

ImageTagMutabilityExclusionFilter

A filter that specifies which image tags should be excluded from the repository's image tag mutability setting.

Contents

filter

The filter value used to match image tags for exclusion from mutability settings.

Type: String

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

Pattern: `^[0-9a-zA-Z._*-]{1,128}$`

Required: Yes

filterType

The type of filter to apply for excluding image tags from mutability settings.

Type: String

Valid Values: `WILDCARD`

Required: Yes

See Also

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

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

Layer

An object representing an Amazon ECR image layer.

Contents

layerAvailability

The availability status of the image layer.

Type: String

Valid Values: `AVAILABLE | UNAVAILABLE | ARCHIVED`

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

mediaType

The media type of the layer, such as `application/vnd.docker.image.rootfs.diff.tar.gzip` or `application/vnd.oci.image.layer.v1.tar+gzip`.

Type: String

Required: No

See Also

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

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

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.

Required: No

See Also

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

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

LifecyclePolicyPreviewFilter

The filter for the lifecycle policy preview.

Contents

tagStatus

The tag status of the image.

Type: String

Valid Values: `TAGGED` | `UNTAGGED` | `ANY`

Required: No

See Also

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

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

LifecyclePolicyPreviewResult

The result of the lifecycle policy preview.

Contents

action

The type of action to be taken.

Type: LifecyclePolicyRuleAction object

Required: No

appliedRulePriority

The priority of the applied rule.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

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

imageTags

The list of tags associated with this image.

Type: Array of strings

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

Required: No

storageClass

The storage class of the image.

Type: String

Valid Values: `ARCHIVE | STANDARD`

Required: No

See Also

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

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

LifecyclePolicyPreviewSummary

The summary of the lifecycle policy preview request.

Contents

expiringImageTotalCount

The number of expiring images.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

transitioningImageTotalCounts

The total count of images that will be transitioned to each storage class. This field is only present if at least one image will be transitoned in the summary.

Type: Array of TransitioningImageTotalCount objects

Required: No

See Also

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

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

LifecyclePolicyRuleAction

The type of action to be taken.

Contents

targetStorageClass

The target storage class for the action. This is only present when the `type` is `TRANSITION`.

Type: String

Valid Values: `ARCHIVE`

Required: No

type

The type of action to be taken.

Type: String

Valid Values: `EXPIRE | TRANSITION`

Required: No

See Also

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

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

ListImageReferrersFilter

An object representing a filter on a ListImageReferrers operation.

Contents

artifactStatus

The artifact status with which to filter your ListImageReferrers results. Valid values are `ACTIVE`, `ARCHIVED`, `ACTIVATING`, or `ANY`. If not specified, only artifacts with `ACTIVE` status are returned.

Type: String

Valid Values: `ACTIVE | ARCHIVED | ACTIVATING | ANY`

Required: No

artifactTypes

The artifact types with which to filter your ListImageReferrers results.

Type: Array of strings

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

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

See Also

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

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

ListImagesFilter

An object representing a filter on a ListImages operation.

Contents

imageStatus

The image status with which to filter your ListImages results. Valid values are `ACTIVE`, `ARCHIVED`, and `ACTIVATING`. If not specified, only images with `ACTIVE` status are returned.

Type: String

Valid Values: `ACTIVE | ARCHIVED | ACTIVATING | ANY`

Required: No

tagStatus

The tag status with which to filter your ListImages results.

Type: String

Valid Values: `TAGGED | UNTAGGED | ANY`

Required: No

See Also

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

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

PackageVulnerabilityDetails

Information about a package vulnerability finding.

Contents

cvss

An object that contains details about the CVSS score of a finding.

Type: Array of CvssScore objects

Required: No

referenceUrls

One or more URLs that contain details about this vulnerability type.

Type: Array of strings

Required: No

relatedVulnerabilities

One or more vulnerabilities related to the one identified in this finding.

Type: Array of strings

Required: No

source

The source of the vulnerability information.

Type: String

Required: No

sourceUrl

A URL to the source of the vulnerability information.

Type: String

Required: No

vendorCreatedAt

The date and time that this vulnerability was first added to the vendor's database.

Type: Timestamp

Required: No

vendorSeverity

The severity the vendor has given to this vulnerability type.

Type: String

Required: No

vendorUpdatedAt

The date and time the vendor last updated this vulnerability in their database.

Type: Timestamp

Required: No

vulnerabilityId

The ID given to this vulnerability.

Type: String

Required: No

vulnerablePackages

The packages impacted by this vulnerability.

Type: Array of VulnerablePackage objects

Required: No

See Also

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

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

PullThroughCacheRule

The details of a pull through cache rule.

Contents

createdAt

The date and time the pull through cache was created.

Type: Timestamp

Required: No

credentialArn

The ARN of the Secrets Manager secret associated with the pull through cache rule.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 612.

Pattern: `^arn:aws(-\w+)*:secretsmanager:[a-zA-Z0-9-:]+:secret:ecr\-pullthroughcache\/[a-zA-Z0-9\/_+=.@-]+$`

Required: No

customRoleArn

The ARN of the IAM role associated with the pull through cache rule.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

ecrRepositoryPrefix

The Amazon ECR repository prefix associated with the pull through cache rule.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 30.

Pattern: `^([a-z0-9]+((\.|_|__|-+)[a-z0-9]+)*(\/[a-z0-9]+((\.|_|__|-+)[a-z0-9]+)*)*\/?|ROOT)$`

Required: No

registryId

The AWS account ID associated with the registry the pull through cache rule is associated with.

Type: String

Pattern: `[0-9]{12}`

Required: No

updatedAt

The date and time, in JavaScript date format, when the pull through cache rule was last updated.

Type: Timestamp

Required: No

upstreamRegistry

The name of the upstream source registry associated with the pull through cache rule.

Type: String

Valid Values: `ecr | ecr-public | quay | k8s | docker-hub | github-container-registry | azure-container-registry | gitlab-container-registry`

Required: No

upstreamRegistryUrl

The upstream registry URL associated with the pull through cache rule.

Type: String

Required: No

upstreamRepositoryPrefix

The upstream repository prefix associated with the pull through cache rule.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 30.

Pattern: `^([a-z0-9]+((\.|_|__|-+)[a-z0-9]+)*(\/[a-z0-9]+((\.|_|__|-+)[a-z0-9]+)*)*\/?|ROOT)$`

Required: No

See Also

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

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

Recommendation

Details about the recommended course of action to remediate the finding.

Contents

text

The recommended course of action to remediate the finding.

Type: String

Required: No

url

The URL address to the CVE remediation recommendations.

Type: String

Required: No

See Also

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

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

RegistryScanningConfiguration

The scanning configuration for a private registry.

Contents

rules

The scanning rules associated with the registry.

Type: Array of RegistryScanningRule objects

Array Members: Minimum number of 0 items. Maximum number of 2 items.

Required: No

scanType

The type of scanning configured for the registry.

Type: String

Valid Values: `BASIC | ENHANCED`

Required: No

See Also

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

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

RegistryScanningRule

The details of a scanning rule for a private registry.

Contents

repositoryFilters

The repository filters associated with the scanning configuration for a private registry.

Type: Array of ScanningRepositoryFilter objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Required: Yes

scanFrequency

The frequency that scans are performed at for a private registry. When the `ENHANCED` scan type is specified, the supported scan frequencies are `CONTINUOUS_SCAN` and `SCAN_ON_PUSH`. When the `BASIC` scan type is specified, the `SCAN_ON_PUSH` scan frequency is supported. If scan on push is not specified, then the `MANUAL` scan frequency is set by default.

Type: String

Valid Values: `SCAN_ON_PUSH | CONTINUOUS_SCAN | MANUAL`

Required: Yes

See Also

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

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

Remediation

Information on how to remediate a finding.

Contents

recommendation

An object that contains information about the recommended course of action to remediate the finding.

Type: Recommendation object

Required: No

See Also

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

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

ReplicationConfiguration

The replication configuration for a registry.

Contents

rules

An array of objects representing the replication destinations and repository filters for a replication configuration.

Type: Array of ReplicationRule objects

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Required: Yes

See Also

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

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

ReplicationDestination

An array of objects representing the destination for a replication rule.

Contents

region

The Region to replicate to.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 25.

Pattern: `[0-9a-z-]{2,25}`

Required: Yes

registryId

The AWS account ID of the Amazon ECR private registry to replicate to. When configuring cross-Region replication within your own registry, specify your own account ID.

Type: String

Pattern: `[0-9]{12}`

Required: Yes

See Also

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

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

ReplicationRule

An array of objects representing the replication destinations and repository filters for a replication configuration.

Contents

destinations

An array of objects representing the destination for a replication rule.

Type: Array of ReplicationDestination objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Required: Yes

repositoryFilters

An array of objects representing the filters for a replication rule. Specifying a repository filter for a replication rule provides a method for controlling which repositories in a private registry are replicated.

Type: Array of RepositoryFilter objects

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

Required: No

See Also

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

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

Repository

An object representing a repository.

Contents

createdAt

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

Type: Timestamp

Required: No

encryptionConfiguration

The encryption configuration for the repository. This determines how the contents of your repository are encrypted at rest.

Type: EncryptionConfiguration object

Required: No

imageScanningConfiguration

The image scanning configuration for a repository.

Type: ImageScanningConfiguration object

Required: No

imageTagMutability

The tag mutability setting for the repository.

Type: String

Valid Values: `MUTABLE | IMMUTABLE | IMMUTABLE_WITH_EXCLUSION | MUTABLE_WITH_EXCLUSION`

Required: No

imageTagMutabilityExclusionFilters

A list of filters that specify which image tags are excluded from the repository's image tag mutability setting.

Type: Array of ImageTagMutabilityExclusionFilter objects

Array Members: Minimum number of 1 item. Maximum number of 5 items.

Required: No

registryId

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, AWS account ID of the repository owner, repository namespace, and repository name. For example, `arn:aws:ecr:region:012345678910:repository-namespace/repository-name`.

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 container image `push` and `pull` operations.

Type: String

Required: No

See Also

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

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

RepositoryCreationTemplate

The details of the repository creation template associated with the request.

Contents

appliedFor

A list of enumerable Strings representing the repository creation scenarios that this template will apply towards. The supported scenarios are PULL_THROUGH_CACHE, REPLICATION, and CREATE_ON_PUSH

Type: Array of strings

Valid Values: `REPLICATION | PULL_THROUGH_CACHE | CREATE_ON_PUSH`

Required: No

createdAt

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

Type: Timestamp

Required: No

customRoleArn

The ARN of the role to be assumed by Amazon ECR. Amazon ECR will assume your supplied role when the customRoleArn is specified. When this field isn't specified, Amazon ECR will use the service-linked role for the repository creation template.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

description

The description associated with the repository creation template.

Type: String

Length Constraints: Maximum length of 256.

Required: No

encryptionConfiguration

The encryption configuration associated with the repository creation template.

Type: EncryptionConfigurationForRepositoryCreationTemplate object

Required: No

imageTagMutability

The tag mutability setting for the repository. If this parameter is omitted, the default setting of `MUTABLE` will be used which will allow image tags to be overwritten. If `IMMUTABLE` is specified, all image tags within the repository will be immutable which will prevent them from being overwritten.

Type: String

Valid Values: `MUTABLE | IMMUTABLE | IMMUTABLE_WITH_EXCLUSION | MUTABLE_WITH_EXCLUSION`

Required: No

imageTagMutabilityExclusionFilters

A list of filters that specify which image tags are excluded from the repository creation template's image tag mutability setting.

Type: Array of ImageTagMutabilityExclusionFilter objects

Array Members: Minimum number of 1 item. Maximum number of 5 items.

Required: No

lifecyclePolicy

The lifecycle policy to use for repositories created using the template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 30720.

Required: No

prefix

The repository namespace prefix associated with the repository creation template.

Type: String

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

Pattern: `^([a-z0-9]+((\.|_|__|-+)[a-z0-9]+)*(\/[a-z0-9]+((\.|_|__|-+)[a-z0-9]+)*)*\/?|ROOT)$`

Required: No

repositoryPolicy

The repository policy to apply to repositories created using the template. A repository policy is a permissions policy associated with a repository to control access permissions.

Type: String

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

Required: No

resourceTags

The metadata to apply to the repository to help you categorize and organize. Each tag consists of a key and an optional value, both of which you define. Tag keys can have a maximum character length of 128 characters, and tag values can have a maximum length of 256 characters.

Type: Array of Tag objects

Required: No

updatedAt

The date and time, in JavaScript date format, when the repository creation template was last updated.

Type: Timestamp

Required: No

See Also

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

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

RepositoryFilter

The filter settings used with image replication. Specifying a repository filter to a replication rule provides a method for controlling which repositories in a private registry are replicated. If no filters are added, the contents of all repositories are replicated.

Contents

filter

The repository filter details. When the `PREFIX_MATCH` filter type is specified, this value is required and should be the repository name prefix to configure replication for.

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

filterType

The repository filter type. The only supported value is `PREFIX_MATCH`, which is a repository name prefix specified with the `filter` parameter.

Type: String

Valid Values: `PREFIX_MATCH`

Required: Yes

See Also

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

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

RepositoryScanningConfiguration

The details of the scanning configuration for a repository.

Contents

appliedScanFilters

The scan filters applied to the repository.

Type: Array of ScanningRepositoryFilter objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Required: No

repositoryArn

The ARN of the repository.

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

scanFrequency

The scan frequency for the repository.

Type: String

Valid Values: `SCAN_ON_PUSH | CONTINUOUS_SCAN | MANUAL`

Required: No

scanOnPush

Whether or not scan on push is configured for the repository.

Type: Boolean

Required: No

See Also

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

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

RepositoryScanningConfigurationFailure

The details about any failures associated with the scanning configuration of a repository.

Contents

failureCode

The failure code.

Type: String

Valid Values: `REPOSITORY_NOT_FOUND`

Required: No

failureReason

The reason for the failure.

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

See Also

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

- AWS SDK for C++

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

Resource

Details about the resource involved in a finding.

Contents

details

An object that contains details about the resource involved in a finding.

Type: ResourceDetails object

Required: No

id

The ID of the resource.

Type: String

Required: No

tags

The tags attached to the resource.

Type: String to string map

Required: No

type

The type of resource.

Type: String

Required: No

See Also

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

- AWS SDK for C++

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

ResourceDetails

Contains details about the resource involved in the finding.

Contents

awsEcrContainerImage

An object that contains details about the Amazon ECR container image involved in the finding.

Type: AwsEcrContainerImageDetails object

Required: No

See Also

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

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

ScanningRepositoryFilter

The details of a scanning repository filter. For more information on how to use filters, see Using filters in the *Amazon Elastic Container Registry User Guide*.

Contents

filter

The filter to use when scanning.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

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

Required: Yes

filterType

The type associated with the filter.

Type: String

Valid Values: `WILDCARD`

Required: Yes

See Also

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

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

ScoreDetails

Information about the Amazon Inspector score given to a finding.

Contents

cvss

An object that contains details about the CVSS score given to a finding.

Type: CvssScoreDetails object

Required: No

See Also

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

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

SigningConfiguration

The signing configuration for a registry, which specifies rules for automatically signing images when pushed.

Contents

rules

A list of signing rules. Each rule defines a signing profile and optional repository filters that determine which images are automatically signed. Maximum of 10 rules.

Type: Array of SigningRule objects

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Required: Yes

See Also

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

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

SigningRepositoryFilter

A repository filter used to determine which repositories have their images automatically signed on push. Each filter consists of a filter type and filter value.

Contents

filter

The filter value used to match repository names. When using `WILDCARD_MATCH`, the `*` character matches any sequence of characters.

Examples:

- `myapp/*` - Matches all repositories starting with `myapp/`
- `*/production` - Matches all repositories ending with `/production`
- `*prod*` - Matches all repositories containing `prod`

Type: String

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

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

Required: Yes

filterType

The type of filter to apply. Currently, only `WILDCARD_MATCH` is supported, which uses wildcard patterns to match repository names.

Type: String

Valid Values: `WILDCARD_MATCH`

Required: Yes

See Also

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

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

SigningRule

A signing rule that specifies a signing profile and optional repository filters. When an image is pushed to a matching repository, a signing job is created using the specified profile.

Contents

signingProfileArn

The ARN of the AWS Signer signing profile to use for signing images that match this rule. For more information about signing profiles, see Signing profiles in the *AWS Signer Developer Guide*.

Type: String

Length Constraints: Maximum length of 200.

Pattern: `^arn:aws(-[a-z]+)*:signer:[a-z0-9-]+:[0-9]{12}:\/signing-profiles\/[a-zA-Z0-9_]{2,}$`

Required: Yes

repositoryFilters

A list of repository filters that determine which repositories have their images signed on push. If no filters are specified, all images pushed to the registry are signed using the rule's signing profile. Maximum of 100 filters per rule.

Type: Array of SigningRepositoryFilter objects

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

Required: No

See Also

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

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

- AWS SDK for Ruby V3

SubjectIdentifier

An object that identifies an image subject.

Contents

imageDigest

The digest of the image.

Type: String

Required: Yes

See Also

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

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

Tag

The metadata to apply to a resource to help you categorize and organize them. Each tag consists of a key and a value, both of which you define. Tag keys can have a maximum character length of 128 characters, and tag values can have a maximum length of 256 characters.

Contents

Key

One part of a key-value pair that make up a tag. A `key` is a general label that acts like a category for more specific tag values.

Type: String

Required: Yes

Value

A `value` acts as a descriptor within a tag category (key).

Type: String

Required: Yes

See Also

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

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

TransitioningImageTotalCount

The total count of images transitioning to a storage class.

Contents

imageTotalCount

The total number of images transitioning to the storage class.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

targetStorageClass

The target storage class.

Type: String

Valid Values: `ARCHIVE`

Required: No

See Also

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

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

VulnerablePackage

Information on the vulnerable package identified by a finding.

Contents

arch

The architecture of the vulnerable package.

Type: String

Required: No

epoch

The epoch of the vulnerable package.

Type: Integer

Required: No

filePath

The file path of the vulnerable package.

Type: String

Required: No

fixedInVersion

The version of the package that contains the vulnerability fix.

Type: String

Required: No

name

The name of the vulnerable package.

Type: String

Required: No

packageManager

The package manager of the vulnerable package.

Type: String

Required: No

release

The release of the vulnerable package.

Type: String

Required: No

sourceLayerHash

The source layer hash of the vulnerable package.

Type: String

Required: No

version

The version of the vulnerable package.

Type: String

Required: No

See Also

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

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

Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see Signing AWS API requests in the *IAM User Guide*.

Action

The action to be performed.

Type: string

Required: Yes

Version

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

Type: string

Required: Yes

X-Amz-Algorithm

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

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

Type: string

Valid Values: `AWS4-HMAC-SHA256`

Required: Conditional

X-Amz-Credential

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

For more information, see Create a signed AWS API request in the *IAM User Guide*.

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

Type: string

Required: Conditional

X-Amz-Date

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

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

Type: string

Required: Conditional

X-Amz-Security-Token

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

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

Type: string

Required: Conditional

X-Amz-Signature

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

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

Type: string

Required: Conditional

X-Amz-SignedHeaders

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

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

Type: string

Required: Conditional

Common Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 400

InternalFailure

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

HTTP Status Code: 500

InvalidAction

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

HTTP Status Code: 400

InvalidClientTokenId

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

HTTP Status Code: 403

NotAuthorized

You do not have permission to perform this action.

HTTP Status Code: 400

OptInRequired

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

HTTP Status Code: 403

RequestExpired

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

HTTP Status Code: 400

ServiceUnavailable

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

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

ValidationError

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

HTTP Status Code: 400