API Reference

EC2 Image Builder

API Version 2019-12-02

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EC2 Image Builder: API Reference

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Welcome

EC2 Image Builder is a fully managed AWS service that makes it easier to automate the creation, management, and deployment of customized, secure, and up-to-date "golden" server images that are pre-installed and pre-configured with software and settings to meet specific IT standards.

This document was last published on March 20, 2026.

Actions

The following actions are supported:

- CancelImageCreation
- CancelLifecycleExecution
- CreateComponent
- CreateContainerRecipe
- CreateDistributionConfiguration
- CreateImage
- CreateImagePipeline
- CreateImageRecipe
- CreateInfrastructureConfiguration
- CreateLifecyclePolicy
- CreateWorkflow
- DeleteComponent
- DeleteContainerRecipe
- DeleteDistributionConfiguration
- DeleteImage
- DeleteImagePipeline
- DeleteImageRecipe
- DeleteInfrastructureConfiguration
- DeleteLifecyclePolicy
- DeleteWorkflow
- DistributeImage
- GetComponent
- GetComponentPolicy
- GetContainerRecipe
- GetContainerRecipePolicy
- GetDistributionConfiguration
- GetImage

- GetImagePipeline
- GetImagePolicy
- GetImageRecipe
- GetImageRecipePolicy
- GetInfrastructureConfiguration
- GetLifecycleExecution
- GetLifecyclePolicy
- GetMarketplaceResource
- GetWorkflow
- GetWorkflowExecution
- GetWorkflowStepExecution
- ImportComponent
- ImportDiskImage
- ImportVmImage
- ListComponentBuildVersions
- ListComponents
- ListContainerRecipes
- ListDistributionConfigurations
- ListImageBuildVersions
- ListImagePackages
- ListImagePipelineImages
- ListImagePipelines
- ListImageRecipes
- ListImages
- ListImageScanFindingAggregations
- ListImageScanFindings
- ListInfrastructureConfigurations
- ListLifecycleExecutionResources
- ListLifecycleExecutions
- ListLifecyclePolicies

- ListTagsForResource
- ListWaitingWorkflowSteps
- ListWorkflowBuildVersions
- ListWorkflowExecutions
- ListWorkflows
- ListWorkflowStepExecutions
- PutComponentPolicy
- PutContainerRecipePolicy
- PutImagePolicy
- PutImageRecipePolicy
- RetryImage
- SendWorkflowStepAction
- StartImagePipelineExecution
- StartResourceStateUpdate
- TagResource
- UntagResource
- UpdateDistributionConfiguration
- UpdateImagePipeline
- UpdateInfrastructureConfiguration
- UpdateLifecyclePolicy

CancelImageCreation

CancelImageCreation cancels the creation of Image. This operation can only be used on images in a non-terminal state.

Request Syntax

```
PUT /CancelImageCreation HTTP/1.1
Content-type: application/json

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

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

clientToken

Unique, case-sensitive identifier you provide to ensure idempotency of the request. For more information, see Ensuring idempotency in the *Amazon EC2 API Reference*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Required: Yes

imageBuildVersionArn

The Amazon Resource Name (ARN) of the image that you want to cancel creation for.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):image/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+/[0-9]+$`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "clientToken": "string",
   "imageBuildVersionArn": "string",
   "requestId": "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.

clientToken

The client token that uniquely identifies the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

imageBuildVersionArn

The Amazon Resource Name (ARN) of the image whose creation this request canceled.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):image/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+/[0-9]+$`

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

IdempotentParameterMismatchException

You have specified a client token for an operation using parameter values that differ from a previous request that used the same client token.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ResourceInUseException

The resource that you are trying to operate on is currently in use. Review the message details and retry later.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

CancelLifecycleExecution

Cancel a specific image lifecycle policy runtime instance.

Request Syntax

```
PUT /CancelLifecycleExecution HTTP/1.1
Content-type: application/json

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

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

clientToken

Unique, case-sensitive identifier you provide to ensure idempotency of the request. For more information, see Ensuring idempotency in the *Amazon EC2 API Reference*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Required: Yes

lifecycleExecutionId

Identifies the specific runtime instance of the image lifecycle to cancel.

Type: String

Pattern: `^lce-[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

```
HTTP/1.1 200
Content-type: application/json

{
   "lifecycleExecutionId": "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.

lifecycleExecutionId

The unique identifier for the image lifecycle runtime instance that was canceled.

Type: String

Pattern: `^lce-[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.

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

IdempotentParameterMismatchException

You have specified a client token for an operation using parameter values that differ from a previous request that used the same client token.

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InvalidRequestException

You have requested an action that that the service doesn't support.

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ResourceInUseException

The resource that you are trying to operate on is currently in use. Review the message details and retry later.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

CreateComponent

Creates a new component that can be used to build, validate, test, and assess your image. The component is based on a YAML document that you specify using exactly one of the following methods:

- Inline, using the `data` property in the request body.
- A URL that points to a YAML document file stored in Amazon S3, using the `uri` property in the request body.

Request Syntax

```
PUT /CreateComponent HTTP/1.1
Content-type: application/json

{
   "changeDescription": "string",
   "clientToken": "string",
   "data": "string",
   "description": "string",
   "dryRun": boolean,
   "kmsKeyId": "string",
   "name": "string",
   "platform": "string",
   "semanticVersion": "string",
   "supportedOsVersions": [ "string" ],
   "tags": {
      "string" : "string"
   },
   "uri": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

changeDescription

The change description of the component. Describes what change has been made in this version, or what makes this version different from other versions of the component.

Type: String

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

Required: No

clientToken

Unique, case-sensitive identifier you provide to ensure idempotency of the request. For more information, see Ensuring idempotency in the *Amazon EC2 API Reference*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Required: Yes

data

Component `data` contains inline YAML document content for the component. Alternatively, you can specify the `uri` of a YAML document file stored in Amazon S3. However, you cannot specify both properties.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 16000.

Pattern: `[^\x00]+`

Required: No

description

Describes the contents of the component.

Type: String

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

Required: No

dryRun

Validates the required permissions for the operation and the request parameters, without actually making the request, and provides an error response. Upon a successful request, the error response is `DryRunOperationException`.

Type: Boolean

Required: No

kmsKeyId

The Amazon Resource Name (ARN) that uniquely identifies the KMS key used to encrypt this component. This can be either the Key ARN or the Alias ARN. For more information, see Key identifiers (KeyId) in the *AWS Key Management Service Developer Guide*.

Type: String

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

Required: No

name

The name of the component.

Type: String

Pattern: `^[-_A-Za-z-0-9][-_A-Za-z0-9 ]{1,126}[-_A-Za-z-0-9]$`

Required: Yes

platform

The operating system platform of the component.

Type: String

Valid Values: `Windows | Linux | macOS`

Required: Yes

semanticVersion

The semantic version of the component. This version follows the semantic version syntax.

> **Note**
>
> The semantic version has four nodes: <major>.<minor>.<patch>/<build>. You can assign values for the first three, and can filter on all of them.
> **Assignment:** For the first three nodes you can assign any positive integer value, including zero, with an upper limit of 2^30-1, or 1073741823 for each node. Image Builder automatically assigns the build number to the fourth node.
> **Patterns:** You can use any numeric pattern that adheres to the assignment requirements for the nodes that you can assign. For example, you might choose a software version pattern, such as 1.0.0, or a date, such as 2021.01.01.

Type: String

Pattern: `^[0-9]+\.[0-9]+\.[0-9]+$`

Required: Yes

supportedOsVersions

The operating system (OS) version supported by the component. If the OS information is available, a prefix match is performed against the base image OS version during image recipe creation.

Type: Array of strings

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

Length Constraints: Minimum length of 1.

Required: No

tags

The tags that apply to the component.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: Maximum length of 256.

Required: No

uri

The `uri` of a YAML component document file. This must be an S3 URL (`s3://bucket/key`), and the requester must have permission to access the S3 bucket it points to. If you use Amazon S3, you can specify component content up to your service quota.

Alternatively, you can specify the YAML document inline, using the component `data` property. You cannot specify both properties.

Type: String

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "clientToken": "string",
   "componentBuildVersionArn": "string",
   "latestVersionReferences": {
      "latestMajorVersionArn": "string",
      "latestMinorVersionArn": "string",
      "latestPatchVersionArn": "string",
      "latestVersionArn": "string"
   },
   "requestId": "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.

clientToken

The client token that uniquely identifies the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

componentBuildVersionArn

The Amazon Resource Name (ARN) of the component that the request created.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):component/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+/[0-9]+$`

latestVersionReferences

The resource ARNs with different wildcard variations of semantic versioning.

Type: LatestVersionReferences object

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

DryRunOperationException

The dry run operation of the resource was successful, and no resources or mutations were actually performed due to the dry run flag in the request.

HTTP Status Code: 412

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

IdempotentParameterMismatchException

You have specified a client token for an operation using parameter values that differ from a previous request that used the same client token.

HTTP Status Code: 400

InvalidParameterCombinationException

You have specified two or more mutually exclusive parameters. Review the error message for details.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

InvalidVersionNumberException

Your version number is out of bounds or does not follow the required syntax.

HTTP Status Code: 400

ResourceInUseException

The resource that you are trying to operate on is currently in use. Review the message details and retry later.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceQuotaExceededException

You have exceeded the number of permitted resources or operations for this service. For service quotas, see EC2 Image Builder endpoints and quotas.

HTTP Status Code: 402

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

CreateContainerRecipe

Creates a new container recipe. Container recipes define how images are configured, tested, and assessed.

Request Syntax

```
PUT /CreateContainerRecipe HTTP/1.1
Content-type: application/json

{
   "clientToken": "string",
   "components": [
      {
         "componentArn": "string",
         "parameters": [
            {
               "name": "string",
               "value": [ "string" ]
            }
         ]
      }
   ],
   "containerType": "string",
   "description": "string",
   "dockerfileTemplateData": "string",
   "dockerfileTemplateUri": "string",
   "imageOsVersionOverride": "string",
   "instanceConfiguration": {
      "blockDeviceMappings": [
         {
            "deviceName": "string",
            "ebs": {
               "deleteOnTermination": boolean,
               "encrypted": boolean,
               "iops": number,
               "kmsKeyId": "string",
               "snapshotId": "string",
               "throughput": number,
               "volumeSize": number,
               "volumeType": "string"
            },
            "noDevice": "string",
```

```
            "virtualName": "string"
         }
      ],
      "image": "string"
   },
   "kmsKeyId": "string",
   "name": "string",
   "parentImage": "string",
   "platformOverride": "string",
   "semanticVersion": "string",
   "tags": {
      "string" : "string"
   },
   "targetRepository": {
      "repositoryName": "string",
      "service": "string"
   },
   "workingDirectory": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

clientToken

Unique, case-sensitive identifier you provide to ensure idempotency of the request. For more information, see Ensuring idempotency in the *Amazon EC2 API Reference*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Required: Yes

components

The components included in the container recipe.

Type: Array of ComponentConfiguration objects

Array Members: Minimum number of 1 item.

Required: No

containerType

The type of container to create.

Type: String

Valid Values: `DOCKER`

Required: Yes

description

The description of the container recipe.

Type: String

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

Required: No

dockerfileTemplateData

The Dockerfile template used to build your image as an inline data blob.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 16000.

Pattern: `[^\x00]+`

Required: No

dockerfileTemplateUri

The Amazon S3 URI for the Dockerfile that will be used to build your container image.

Type: String

Required: No

imageOsVersionOverride

Specifies the operating system version for the base image.

Type: String

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

Required: No

instanceConfiguration

A group of options that can be used to configure an instance for building and testing container images.

Type: InstanceConfiguration object

Required: No

kmsKeyId

The Amazon Resource Name (ARN) that uniquely identifies which KMS key is used to encrypt the Dockerfile template. This can be either the Key ARN or the Alias ARN. For more information, see Key identifiers (KeyId) in the *AWS Key Management Service Developer Guide*.

Type: String

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

Required: No

name

The name of the container recipe.

Type: String

Pattern: `^[-_A-Za-z-0-9][-_A-Za-z0-9 ]{1,126}[-_A-Za-z-0-9]$`

Required: Yes

parentImage

The base image for the container recipe.

Type: String

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

Required: Yes

platformOverride

Specifies the operating system platform when you use a custom base image.

Type: String

Valid Values: `Windows | Linux | macOS`

Required: No

semanticVersion

The semantic version of the container recipe. This version follows the semantic version syntax.

> **Note**
>
> The semantic version has four nodes: <major>.<minor>.<patch>/<build>. You can assign values for the first three, and can filter on all of them.
> **Assignment:** For the first three nodes you can assign any positive integer value, including zero, with an upper limit of 2^30-1, or 1073741823 for each node. Image Builder automatically assigns the build number to the fourth node.
> **Patterns:** You can use any numeric pattern that adheres to the assignment requirements for the nodes that you can assign. For example, you might choose a software version pattern, such as 1.0.0, or a date, such as 2021.01.01.

Type: String

Pattern: `^(?:[0-9]+|x)\.(?:[0-9]+|x)\.(?:[0-9]+|x)$`

Required: Yes

tags

Tags that are attached to the container recipe.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: Maximum length of 256.

Required: No

targetRepository

The destination repository for the container image.

Type: TargetContainerRepository object

Required: Yes

workingDirectory

The working directory for use during build and test workflows.

Type: String

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

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "clientToken": "string",
   "containerRecipeArn": "string",
   "latestVersionReferences": {
      "latestMajorVersionArn": "string",
      "latestMinorVersionArn": "string",
      "latestPatchVersionArn": "string",
      "latestVersionArn": "string"
   },
   "requestId": "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.

clientToken

The client token that uniquely identifies the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

containerRecipeArn

Returns the Amazon Resource Name (ARN) of the container recipe that the request created.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):container-recipe/[a-z0-9-_]+/(?:[0-9]+|x)\.(?:[0-9]+|x)\.(?:[0-9]+|x)$`

latestVersionReferences

The resource ARNs with different wildcard variations of semantic versioning.

Type: LatestVersionReferences object

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

IdempotentParameterMismatchException

You have specified a client token for an operation using parameter values that differ from a previous request that used the same client token.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

InvalidVersionNumberException

Your version number is out of bounds or does not follow the required syntax.

HTTP Status Code: 400

ResourceAlreadyExistsException

The resource that you are trying to create already exists.

HTTP Status Code: 400

ResourceInUseException

The resource that you are trying to operate on is currently in use. Review the message details and retry later.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceQuotaExceededException

You have exceeded the number of permitted resources or operations for this service. For service quotas, see EC2 Image Builder endpoints and quotas.

HTTP Status Code: 402

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

CreateDistributionConfiguration

Creates a new distribution configuration. Distribution configurations define and configure the outputs of your pipeline.

Request Syntax

```
PUT /CreateDistributionConfiguration HTTP/1.1
Content-type: application/json

{
   "clientToken": "string",
   "description": "string",
   "distributions": [
      {
         "amiDistributionConfiguration": {
            "amiTags": {
               "string" : "string"
            },
            "description": "string",
            "kmsKeyId": "string",
            "launchPermission": {
               "organizationalUnitArns": [ "string" ],
               "organizationArns": [ "string" ],
               "userGroups": [ "string" ],
               "userIds": [ "string" ]
            },
            "name": "string",
            "targetAccountIds": [ "string" ]
         },
         "containerDistributionConfiguration": {
            "containerTags": [ "string" ],
            "description": "string",
            "targetRepository": {
               "repositoryName": "string",
               "service": "string"
            }
         },
         "fastLaunchConfigurations": [
            {
               "accountId": "string",
               "enabled": boolean,
               "launchTemplate": {
```

```
                "launchTemplateId": "string",
                "launchTemplateName": "string",
                "launchTemplateVersion": "string"
             },
             "maxParallelLaunches": number,
             "snapshotConfiguration": {
                "targetResourceCount": number
             }
          }
       ],
       "launchTemplateConfigurations": [
          {
             "accountId": "string",
             "launchTemplateId": "string",
             "setDefaultVersion": boolean
          }
       ],
       "licenseConfigurationArns": [ "string" ],
       "region": "string",
       "s3ExportConfiguration": {
          "diskImageFormat": "string",
          "roleName": "string",
          "s3Bucket": "string",
          "s3Prefix": "string"
       },
       "ssmParameterConfigurations": [
          {
             "amiAccountId": "string",
             "dataType": "string",
             "parameterName": "string"
          }
       ]
    }
 ],
 "name": "string",
 "tags": {
    "string" : "string"
 }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

clientToken

Unique, case-sensitive identifier you provide to ensure idempotency of the request. For more information, see Ensuring idempotency in the *Amazon EC2 API Reference*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Required: Yes

description

The description of the distribution configuration.

Type: String

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

Required: No

distributions

The distributions of the distribution configuration.

Type: Array of Distribution objects

Required: Yes

name

The name of the distribution configuration.

Type: String

Pattern: `^[-_A-Za-z-0-9][-_A-Za-z0-9 ]{1,126}[-_A-Za-z-0-9]$`

Required: Yes

tags

The tags of the distribution configuration.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "clientToken": "string",
   "distributionConfigurationArn": "string",
   "requestId": "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.

clientToken

The client token that uniquely identifies the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

distributionConfigurationArn

The Amazon Resource Name (ARN) of the distribution configuration that was created by this request.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):distribution-configuration/[a-z0-9-_]+$`

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

IdempotentParameterMismatchException

You have specified a client token for an operation using parameter values that differ from a previous request that used the same client token.

HTTP Status Code: 400

InvalidParameterCombinationException

You have specified two or more mutually exclusive parameters. Review the error message for details.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ResourceAlreadyExistsException

The resource that you are trying to create already exists.

HTTP Status Code: 400

ResourceInUseException

The resource that you are trying to operate on is currently in use. Review the message details and retry later.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceQuotaExceededException

You have exceeded the number of permitted resources or operations for this service. For service quotas, see EC2 Image Builder endpoints and quotas.

HTTP Status Code: 402

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

CreateImage

Creates a new image. This request will create a new image along with all of the configured output resources defined in the distribution configuration. You must specify exactly one recipe for your image, using either a ContainerRecipeArn or an ImageRecipeArn.

Request Syntax

```
PUT /CreateImage HTTP/1.1
Content-type: application/json

{
   "clientToken": "string",
   "containerRecipeArn": "string",
   "distributionConfigurationArn": "string",
   "enhancedImageMetadataEnabled": boolean,
   "executionRole": "string",
   "imageRecipeArn": "string",
   "imageScanningConfiguration": {
      "ecrConfiguration": {
         "containerTags": [ "string" ],
         "repositoryName": "string"
      },
      "imageScanningEnabled": boolean
   },
   "imageTestsConfiguration": {
      "imageTestsEnabled": boolean,
      "timeoutMinutes": number
   },
   "infrastructureConfigurationArn": "string",
   "loggingConfiguration": {
      "logGroupName": "string"
   },
   "tags": {
      "string" : "string"
   },
   "workflows": [
      {
         "onFailure": "string",
         "parallelGroup": "string",
         "parameters": [
            {
```

```
                "name": "string",
                "value": [ "string" ]
            }
        ],
        "workflowArn": "string"
    }
  ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

clientToken

Unique, case-sensitive identifier you provide to ensure idempotency of the request. For more information, see Ensuring idempotency in the *Amazon EC2 API Reference*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Required: Yes

containerRecipeArn

The Amazon Resource Name (ARN) of the container recipe that defines how images are configured and tested.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):container-recipe/[a-z0-9-_]+/(?:[0-9]+|x)\.(?:[0-9]+|x)\.(?:[0-9]+|x)$`

Required: No

distributionConfigurationArn

The Amazon Resource Name (ARN) of the distribution configuration that defines and configures the outputs of your pipeline.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):distribution-configuration/[a-z0-9-_]+$`

Required: No

enhancedImageMetadataEnabled

Collects additional information about the image being created, including the operating system (OS) version and package list. This information is used to enhance the overall experience of using EC2 Image Builder. Enabled by default.

Type: Boolean

Required: No

executionRole

The name or Amazon Resource Name (ARN) for the IAM role you create that grants Image Builder access to perform workflow actions.

Type: String

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

Pattern: `^(?:arn:aws(?:-[a-z]+)*:iam::[0-9]{12}:role/)?[a-zA-Z_0-9+=,.@\-_/]+$`

Required: No

imageRecipeArn

The Amazon Resource Name (ARN) of the image recipe that defines how images are configured, tested, and assessed.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):image-recipe/[a-z0-9-_]+/(?:[0-9]+|x)\.(?:[0-9]+|x)\.(?:[0-9]+|x)$`

Required: No

imageScanningConfiguration

Contains settings for vulnerability scans.

Type: ImageScanningConfiguration object

Required: No

imageTestsConfiguration

The image tests configuration of the image.

Type: ImageTestsConfiguration object

Required: No

infrastructureConfigurationArn

The Amazon Resource Name (ARN) of the infrastructure configuration that defines the environment in which your image will be built and tested.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):infrastructure-configuration/[a-z0-9-_]+$`

Required: Yes

loggingConfiguration

Define logging configuration for the image build process.

Type: ImageLoggingConfiguration object

Required: No

tags

The tags of the image.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: Maximum length of 256.

Required: No

workflows

Contains an array of workflow configuration objects.

Type: Array of WorkflowConfiguration objects

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "clientToken": "string",
   "imageBuildVersionArn": "string",
   "latestVersionReferences": {
      "latestMajorVersionArn": "string",
      "latestMinorVersionArn": "string",
      "latestPatchVersionArn": "string",
      "latestVersionArn": "string"
   },
   "requestId": "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.

clientToken

The client token that uniquely identifies the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

imageBuildVersionArn

The Amazon Resource Name (ARN) of the image that the request created.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):image/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+/[0-9]+$`

latestVersionReferences

The resource ARNs with different wildcard variations of semantic versioning.

Type: LatestVersionReferences object

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

IdempotentParameterMismatchException

You have specified a client token for an operation using parameter values that differ from a previous request that used the same client token.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ResourceInUseException

The resource that you are trying to operate on is currently in use. Review the message details and retry later.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceQuotaExceededException

You have exceeded the number of permitted resources or operations for this service. For service quotas, see EC2 Image Builder endpoints and quotas.

HTTP Status Code: 402

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

CreateImagePipeline

Creates a new image pipeline. Image pipelines enable you to automate the creation and distribution of images.

Request Syntax

```
PUT /CreateImagePipeline HTTP/1.1
Content-type: application/json

{
   "clientToken": "string",
   "containerRecipeArn": "string",
   "description": "string",
   "distributionConfigurationArn": "string",
   "enhancedImageMetadataEnabled": boolean,
   "executionRole": "string",
   "imageRecipeArn": "string",
   "imageScanningConfiguration": {
      "ecrConfiguration": {
         "containerTags": [ "string" ],
         "repositoryName": "string"
      },
      "imageScanningEnabled": boolean
   },
   "imageTestsConfiguration": {
      "imageTestsEnabled": boolean,
      "timeoutMinutes": number
   },
   "infrastructureConfigurationArn": "string",
   "loggingConfiguration": {
      "imageLogGroupName": "string",
      "pipelineLogGroupName": "string"
   },
   "name": "string",
   "schedule": {
      "autoDisablePolicy": {
         "failureCount": number
      },
      "pipelineExecutionStartCondition": "string",
      "scheduleExpression": "string",
      "timezone": "string"
   },
```

```
    "status": "string",
    "tags": {
       "string" : "string"
    },
    "workflows": [
       {
          "onFailure": "string",
          "parallelGroup": "string",
          "parameters": [
             {
                "name": "string",
                "value": [ "string" ]
             }
          ],
          "workflowArn": "string"
       }
    ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

clientToken

Unique, case-sensitive identifier you provide to ensure idempotency of the request. For more information, see Ensuring idempotency in the *Amazon EC2 API Reference*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Required: Yes

containerRecipeArn

The Amazon Resource Name (ARN) of the container recipe that is used to configure images created by this container pipeline.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):container-recipe/[a-z0-9-_]+/(?:[0-9]+|x)\.(?:[0-9]+|x)\.(?:[0-9]+|x)$`

Required: No

description

The description of the image pipeline.

Type: String

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

Required: No

distributionConfigurationArn

The Amazon Resource Name (ARN) of the distribution configuration that will be used to configure and distribute images created by this image pipeline.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):distribution-configuration/[a-z0-9-_]+$`

Required: No

enhancedImageMetadataEnabled

Collects additional information about the image being created, including the operating system (OS) version and package list. This information is used to enhance the overall experience of using EC2 Image Builder. Enabled by default.

Type: Boolean

Required: No

executionRole

The name or Amazon Resource Name (ARN) for the IAM role you create that grants Image Builder access to perform workflow actions.

Type: String

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

Pattern: `^(?:arn:aws(?:-[a-z]+)*:iam::[0-9]{12}:role/)?[a-zA-Z_0-9+=,.@\-_/]+$`

Required: No

imageRecipeArn

The Amazon Resource Name (ARN) of the image recipe that will be used to configure images created by this image pipeline.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):image-recipe/[a-z0-9-_]+/(?:[0-9]+|x)\.(?:[0-9]+|x)\.(?:[0-9]+|x)$`

Required: No

imageScanningConfiguration

Contains settings for vulnerability scans.

Type: ImageScanningConfiguration object

Required: No

imageTestsConfiguration

The image test configuration of the image pipeline.

Type: ImageTestsConfiguration object

Required: No

infrastructureConfigurationArn

The Amazon Resource Name (ARN) of the infrastructure configuration that will be used to build images created by this image pipeline.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):infrastructure-configuration/[a-z0-9-_]+$`

Required: Yes

loggingConfiguration

Define logging configuration for the image build process.

Type: PipelineLoggingConfiguration object

Required: No

name

The name of the image pipeline.

Type: String

Pattern: `^[-_A-Za-z-0-9][-_A-Za-z0-9 ]{1,126}[-_A-Za-z-0-9]$`

Required: Yes

schedule

The schedule of the image pipeline.

Type: Schedule object

Required: No

status

The status of the image pipeline.

Type: String

Valid Values: `DISABLED | ENABLED`

Required: No

tags

The tags of the image pipeline.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: Maximum length of 256.

Required: No

workflows

Contains an array of workflow configuration objects.

Type: Array of WorkflowConfiguration objects

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "clientToken": "string",
   "imagePipelineArn": "string",
   "requestId": "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.

clientToken

The client token that uniquely identifies the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

imagePipelineArn

The Amazon Resource Name (ARN) of the image pipeline that was created by this request.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):image-pipeline/[a-z0-9-_]+$`

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

IdempotentParameterMismatchException

You have specified a client token for an operation using parameter values that differ from a previous request that used the same client token.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ResourceAlreadyExistsException

The resource that you are trying to create already exists.

HTTP Status Code: 400

ResourceInUseException

The resource that you are trying to operate on is currently in use. Review the message details and retry later.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceQuotaExceededException

You have exceeded the number of permitted resources or operations for this service. For service quotas, see EC2 Image Builder endpoints and quotas.

HTTP Status Code: 402

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

CreateImageRecipe

Creates a new image recipe. Image recipes define how images are configured, tested, and assessed.

Request Syntax

```
PUT /CreateImageRecipe HTTP/1.1
Content-type: application/json

{
   "additionalInstanceConfiguration": {
      "systemsManagerAgent": {
         "uninstallAfterBuild": boolean
      },
      "userDataOverride": "string"
   },
   "amiTags": {
      "string" : "string"
   },
   "blockDeviceMappings": [
      {
         "deviceName": "string",
         "ebs": {
            "deleteOnTermination": boolean,
            "encrypted": boolean,
            "iops": number,
            "kmsKeyId": "string",
            "snapshotId": "string",
            "throughput": number,
            "volumeSize": number,
            "volumeType": "string"
         },
         "noDevice": "string",
         "virtualName": "string"
      }
   ],
   "clientToken": "string",
   "components": [
      {
         "componentArn": "string",
         "parameters": [
            {
               "name": "string",
```

```
                "value": [ "string" ]
            }
        ]
    }
  ],
  "description": "string",
  "name": "string",
  "parentImage": "string",
  "semanticVersion": "string",
  "tags": {
    "string" : "string"
  },
  "workingDirectory": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

additionalInstanceConfiguration

Specify additional settings and launch scripts for your build instances.

Type: AdditionalInstanceConfiguration object

Required: No

amiTags

Tags that are applied to the AMI that Image Builder creates during the Build phase prior to image distribution.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: Maximum length of 256.

Required: No

blockDeviceMappings

The block device mappings of the image recipe.

Type: Array of InstanceBlockDeviceMapping objects

Required: No

clientToken

Unique, case-sensitive identifier you provide to ensure idempotency of the request. For more information, see Ensuring idempotency in the *Amazon EC2 API Reference*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Required: Yes

components

The components included in the image recipe.

Type: Array of ComponentConfiguration objects

Array Members: Minimum number of 1 item.

Required: No

description

The description of the image recipe.

Type: String

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

Required: No

name

The name of the image recipe.

Type: String

Pattern: `^[-_A-Za-z-0-9][-_A-Za-z0-9 ]{1,126}[-_A-Za-z-0-9]$`

Required: Yes

parentImage

The base image for customizations specified in the image recipe. You can specify the parent image using one of the following options:

- AMI ID
- Image Builder image Amazon Resource Name (ARN)
- AWS Systems Manager (SSM) Parameter Store Parameter, prefixed by `ssm:`, followed by the parameter name or ARN.
- AWS Marketplace product ID

If you enter an AMI ID or an SSM parameter that contains the AMI ID, you must have access to the AMI, and the AMI must be in the source Region.

Type: String

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

Required: Yes

semanticVersion

The semantic version of the image recipe. This version follows the semantic version syntax.

> **Note**
>
> The semantic version has four nodes: <major>.<minor>.<patch>/<build>. You can assign values for the first three, and can filter on all of them.
> **Assignment:** For the first three nodes you can assign any positive integer value, including zero, with an upper limit of 2^30-1, or 1073741823 for each node. Image Builder automatically assigns the build number to the fourth node.
> **Patterns:** You can use any numeric pattern that adheres to the assignment requirements for the nodes that you can assign. For example, you might choose a software version pattern, such as 1.0.0, or a date, such as 2021.01.01.

Type: String

Pattern: `^(?:[0-9]+|x)\.(?:[0-9]+|x)\.(?:[0-9]+|x)$`

Required: Yes

tags

The tags of the image recipe.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: Maximum length of 256.

Required: No

workingDirectory

The working directory used during build and test workflows.

Type: String

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

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "clientToken": "string",
   "imageRecipeArn": "string",
   "latestVersionReferences": {
      "latestMajorVersionArn": "string",
      "latestMinorVersionArn": "string",
      "latestPatchVersionArn": "string",
      "latestVersionArn": "string"
   },
```

```
    "requestId": "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.

clientToken

The client token that uniquely identifies the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

imageRecipeArn

The Amazon Resource Name (ARN) of the image recipe that was created by this request.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):image-recipe/[a-z0-9-_]+/(?:[0-9]+|x)\.(?:[0-9]+|x)\.(?:[0-9]+|x)$`

latestVersionReferences

The resource ARNs with different wildcard variations of semantic versioning.

Type: LatestVersionReferences object

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

IdempotentParameterMismatchException

You have specified a client token for an operation using parameter values that differ from a previous request that used the same client token.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

InvalidVersionNumberException

Your version number is out of bounds or does not follow the required syntax.

HTTP Status Code: 400

ResourceAlreadyExistsException

The resource that you are trying to create already exists.

HTTP Status Code: 400

ResourceInUseException

The resource that you are trying to operate on is currently in use. Review the message details and retry later.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceQuotaExceededException

You have exceeded the number of permitted resources or operations for this service. For service quotas, see EC2 Image Builder endpoints and quotas.

HTTP Status Code: 402

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

CreateInfrastructureConfiguration

Creates a new infrastructure configuration. An infrastructure configuration defines the environment in which your image will be built and tested.

Request Syntax

```
PUT /CreateInfrastructureConfiguration HTTP/1.1
Content-type: application/json

{
   "clientToken": "string",
   "description": "string",
   "instanceMetadataOptions": {
      "httpPutResponseHopLimit": number,
      "httpTokens": "string"
   },
   "instanceProfileName": "string",
   "instanceTypes": [ "string" ],
   "keyPair": "string",
   "logging": {
      "s3Logs": {
         "s3BucketName": "string",
         "s3KeyPrefix": "string"
      }
   },
   "name": "string",
   "placement": {
      "availabilityZone": "string",
      "hostId": "string",
      "hostResourceGroupArn": "string",
      "tenancy": "string"
   },
   "resourceTags": {
      "string" : "string"
   },
   "securityGroupIds": [ "string" ],
   "snsTopicArn": "string",
   "subnetId": "string",
   "tags": {
      "string" : "string"
   },
   "terminateInstanceOnFailure": boolean
```

```
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

clientToken

Unique, case-sensitive identifier you provide to ensure idempotency of the request. For more information, see Ensuring idempotency in the *Amazon EC2 API Reference*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Required: Yes

description

The description of the infrastructure configuration.

Type: String

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

Required: No

instanceMetadataOptions

The instance metadata options that you can set for the HTTP requests that pipeline builds use to launch EC2 build and test instances.

Type: InstanceMetadataOptions object

Required: No

instanceProfileName

The instance profile to associate with the instance used to customize your Amazon EC2 AMI.

Type: String

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

Pattern: `^[\w+=,.@-]+$`

Required: Yes

instanceTypes

The instance types of the infrastructure configuration. You can specify one or more instance types to use for this build. The service will pick one of these instance types based on availability.

Type: Array of strings

Required: No

keyPair

The key pair of the infrastructure configuration. You can use this to log on to and debug the instance used to create your image.

Type: String

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

Required: No

logging

The logging configuration of the infrastructure configuration.

Type: Logging object

Required: No

name

The name of the infrastructure configuration.

Type: String

Pattern: `^[-_A-Za-z-0-9][-_A-Za-z0-9 ]{1,126}[-_A-Za-z-0-9]$`

Required: Yes

placement

The instance placement settings that define where the instances that are launched from your image will run.

Type: Placement object

Required: No

resourceTags

The metadata tags to assign to the Amazon EC2 instance that Image Builder launches during the build process. Tags are formatted as key value pairs.

Type: String to string map

Map Entries: Maximum number of 30 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: Maximum length of 256.

Required: No

securityGroupIds

The security group IDs to associate with the instance used to customize your Amazon EC2 AMI.

Type: Array of strings

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

Required: No

snsTopicArn

The Amazon Resource Name (ARN) for the SNS topic to which we send image build event notifications.

> **Note**
>
> EC2 Image Builder is unable to send notifications to SNS topics that are encrypted using keys from other accounts. The key that is used to encrypt the SNS topic must reside in the account that the Image Builder service runs under.

Type: String

Pattern: `^arn:aws[^:]*:sns:[^:]+:[0-9]{12}:[a-zA-Z0-9-_]{1,256}$`

Required: No

subnetId

The subnet ID in which to place the instance used to customize your Amazon EC2 AMI.

Type: String

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

Required: No

tags

The metadata tags to assign to the infrastructure configuration resource that Image Builder creates as output. Tags are formatted as key value pairs.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: Maximum length of 256.

Required: No

terminateInstanceOnFailure

The terminate instance on failure setting of the infrastructure configuration. Set to false if you want Image Builder to retain the instance used to configure your AMI if the build or test phase of your workflow fails.

Type: Boolean

Required: No

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "clientToken": "string",
   "infrastructureConfigurationArn": "string",
   "requestId": "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.

clientToken

The client token that uniquely identifies the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

infrastructureConfigurationArn

The Amazon Resource Name (ARN) of the infrastructure configuration that was created by this request.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):infrastructure-configuration/[a-z0-9-_]+$`

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

IdempotentParameterMismatchException

You have specified a client token for an operation using parameter values that differ from a previous request that used the same client token.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ResourceAlreadyExistsException

The resource that you are trying to create already exists.

HTTP Status Code: 400

ResourceInUseException

The resource that you are trying to operate on is currently in use. Review the message details and retry later.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceQuotaExceededException

You have exceeded the number of permitted resources or operations for this service. For service quotas, see EC2 Image Builder endpoints and quotas.

HTTP Status Code: 402

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

CreateLifecyclePolicy

Create a lifecycle policy resource.

Request Syntax

```
PUT /CreateLifecyclePolicy HTTP/1.1
Content-type: application/json

{
   "clientToken": "string",
   "description": "string",
   "executionRole": "string",
   "name": "string",
   "policyDetails": [
      {
         "action": {
            "includeResources": {
               "amis": boolean,
               "containers": boolean,
               "snapshots": boolean
            },
            "type": "string"
         },
         "exclusionRules": {
            "amis": {
               "isPublic": boolean,
               "lastLaunched": {
                  "unit": "string",
                  "value": number
               },
               "regions": [ "string" ],
               "sharedAccounts": [ "string" ],
               "tagMap": {
                  "string" : "string"
               }
            },
            "tagMap": {
               "string" : "string"
            }
         },
         "filter": {
            "retainAtLeast": number,
```

```
            "type": "string",
            "unit": "string",
            "value": number
         }
      }
   ],
   "resourceSelection": {
      "recipes": [
         {
            "name": "string",
            "semanticVersion": "string"
         }
      ],
      "tagMap": {
         "string" : "string"
      }
   },
   "resourceType": "string",
   "status": "string",
   "tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

clientToken

Unique, case-sensitive identifier you provide to ensure idempotency of the request. For more information, see Ensuring idempotency in the *Amazon EC2 API Reference*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Required: Yes

description

Optional description for the lifecycle policy.

Type: String

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

Required: No

executionRole

The name or Amazon Resource Name (ARN) for the IAM role you create that grants Image Builder access to run lifecycle actions.

Type: String

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

Pattern: `^(?:arn:aws(?:-[a-z]+)*:iam::[0-9]{12}:role/)?[a-zA-Z_0-9+=,.@\-_/]+$`

Required: Yes

name

The name of the lifecycle policy to create.

Type: String

Pattern: `^[-_A-Za-z-0-9][-_A-Za-z0-9 ]{1,126}[-_A-Za-z-0-9]$`

Required: Yes

policyDetails

Configuration details for the lifecycle policy rules.

Type: Array of LifecyclePolicyDetail objects

Array Members: Minimum number of 1 item. Maximum number of 3 items.

Required: Yes

resourceSelection

Selection criteria for the resources that the lifecycle policy applies to.

Type: LifecyclePolicyResourceSelection object

Required: Yes

resourceType

The type of Image Builder resource that the lifecycle policy applies to.

Type: String

Valid Values: `AMI_IMAGE | CONTAINER_IMAGE`

Required: Yes

status

Indicates whether the lifecycle policy resource is enabled.

Type: String

Valid Values: `DISABLED | ENABLED`

Required: No

tags

Tags to apply to the lifecycle policy resource.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
```

```
    "clientToken": "string",
    "lifecyclePolicyArn": "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.

clientToken

The client token that uniquely identifies the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

lifecyclePolicyArn

The Amazon Resource Name (ARN) of the lifecycle policy that the request created.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: `^arn:aws(?:-[a-z]+)*:imagebuilder:[a-z]{2,}(?:-[a-z]+)+-[0-9]+:(?:[0-9]{12}|aws):lifecycle-policy/[a-z0-9-_]+$`

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

IdempotentParameterMismatchException

You have specified a client token for an operation using parameter values that differ from a previous request that used the same client token.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ResourceAlreadyExistsException

The resource that you are trying to create already exists.

HTTP Status Code: 400

ResourceInUseException

The resource that you are trying to operate on is currently in use. Review the message details and retry later.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceQuotaExceededException

You have exceeded the number of permitted resources or operations for this service. For service quotas, see EC2 Image Builder endpoints and quotas.

HTTP Status Code: 402

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

CreateWorkflow

Create a new workflow or a new version of an existing workflow.

Request Syntax

```
PUT /CreateWorkflow HTTP/1.1
Content-type: application/json

{
   "changeDescription": "string",
   "clientToken": "string",
   "data": "string",
   "description": "string",
   "dryRun": boolean,
   "kmsKeyId": "string",
   "name": "string",
   "semanticVersion": "string",
   "tags": {
      "string" : "string"
   },
   "type": "string",
   "uri": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

changeDescription

Describes what change has been made in this version of the workflow, or what makes this version different from other versions of the workflow.

Type: String

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

Required: No

clientToken

Unique, case-sensitive identifier you provide to ensure idempotency of the request. For more information, see Ensuring idempotency in the *Amazon EC2 API Reference*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Required: Yes

data

Contains the UTF-8 encoded YAML document content for the workflow. Alternatively, you can specify the `uri` of a YAML document file stored in Amazon S3. However, you cannot specify both properties.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 16000.

Pattern: `[^\x00]+`

Required: No

description

Describes the workflow.

Type: String

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

Required: No

dryRun

Validates the required permissions for the operation and the request parameters, without actually making the request, and provides an error response. Upon a successful request, the error response is `DryRunOperationException`.

Type: Boolean

Required: No

kmsKeyId

The Amazon Resource Name (ARN) that uniquely identifies the KMS key used to encrypt this workflow resource. This can be either the Key ARN or the Alias ARN. For more information, see Key identifiers (KeyId) in the *AWS Key Management Service Developer Guide*.

Type: String

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

Required: No

name

The name of the workflow to create.

Type: String

Pattern: `^[-_A-Za-z-0-9][-_A-Za-z0-9 ]{1,126}[-_A-Za-z-0-9]$`

Required: Yes

semanticVersion

The semantic version of this workflow resource. The semantic version syntax adheres to the following rules.

> **Note**
>
> The semantic version has four nodes: <major>.<minor>.<patch>/<build>. You can assign values for the first three, and can filter on all of them.
> **Assignment:** For the first three nodes you can assign any positive integer value, including zero, with an upper limit of 2^30-1, or 1073741823 for each node. Image Builder automatically assigns the build number to the fourth node.
> **Patterns:** You can use any numeric pattern that adheres to the assignment requirements for the nodes that you can assign. For example, you might choose a software version pattern, such as 1.0.0, or a date, such as 2021.01.01.

Type: String

Pattern: `^[0-9]+\.[0-9]+\.[0-9]+$`

Required: Yes

tags

Tags that apply to the workflow resource.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: Maximum length of 256.

Required: No

type

The phase in the image build process for which the workflow resource is responsible.

Type: String

Valid Values: `BUILD | TEST | DISTRIBUTION`

Required: Yes

uri

The `uri` of a YAML component document file. This must be an S3 URL (`s3://bucket/key`), and the requester must have permission to access the S3 bucket it points to. If you use Amazon S3, you can specify component content up to your service quota.

Alternatively, you can specify the YAML document inline, using the component `data` property. You cannot specify both properties.

Type: String

Required: No

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "clientToken": "string",
   "latestVersionReferences": {
      "latestMajorVersionArn": "string",
      "latestMinorVersionArn": "string",
      "latestPatchVersionArn": "string",
      "latestVersionArn": "string"
   },
   "workflowBuildVersionArn": "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.

clientToken

The client token that uniquely identifies the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

latestVersionReferences

The resource ARNs with different wildcard variations of semantic versioning.

Type: LatestVersionReferences object

workflowBuildVersionArn

The Amazon Resource Name (ARN) of the workflow resource that the request created.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: `^arn:aws(?:-[a-z]+)*:imagebuilder:[a-z]{2,}(?:-[a-z]+)+-[0-9]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):workflow/(build|test|distribution)/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+/[0-9]+$`

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

DryRunOperationException

The dry run operation of the resource was successful, and no resources or mutations were actually performed due to the dry run flag in the request.

HTTP Status Code: 412

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

IdempotentParameterMismatchException

You have specified a client token for an operation using parameter values that differ from a previous request that used the same client token.

HTTP Status Code: 400

InvalidParameterCombinationException

You have specified two or more mutually exclusive parameters. Review the error message for details.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

InvalidVersionNumberException

Your version number is out of bounds or does not follow the required syntax.

HTTP Status Code: 400

ResourceInUseException

The resource that you are trying to operate on is currently in use. Review the message details and retry later.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceQuotaExceededException

You have exceeded the number of permitted resources or operations for this service. For service quotas, see EC2 Image Builder endpoints and quotas.

HTTP Status Code: 402

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

DeleteComponent

Deletes a component build version.

Request Syntax

```
DELETE /DeleteComponent?componentBuildVersionArn=componentBuildVersionArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

componentBuildVersionArn

The Amazon Resource Name (ARN) of the component build version to delete.

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):component/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+/[0-9]+$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "componentBuildVersionArn": "string",
   "requestId": "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.

componentBuildVersionArn

The Amazon Resource Name (ARN) of the component build version that this request deleted.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):component/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+/[0-9]+$`

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ResourceDependencyException

You have attempted to mutate or delete a resource with a dependency that prohibits this action. See the error message for more details.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

DeleteContainerRecipe

Deletes a container recipe.

Request Syntax

```
DELETE /DeleteContainerRecipe?containerRecipeArn=containerRecipeArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

containerRecipeArn

The Amazon Resource Name (ARN) of the container recipe to delete.

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):container-recipe/[a-z0-9-_]+/(?:[0-9]+|x)\.(?:[0-9]+|x)\.(?:[0-9]+|x)$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "containerRecipeArn": "string",
   "requestId": "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.

containerRecipeArn

The Amazon Resource Name (ARN) of the container recipe that was deleted.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):container-recipe/[a-z0-9-_]+/(?:[0-9]+|x)\.(?:[0-9]+|x)\.(?:[0-9]+|x)$`

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ResourceDependencyException

You have attempted to mutate or delete a resource with a dependency that prohibits this action. See the error message for more details.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

DeleteDistributionConfiguration

Deletes a distribution configuration.

Request Syntax

```
DELETE /DeleteDistributionConfiguration?
distributionConfigurationArn=distributionConfigurationArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

distributionConfigurationArn

The Amazon Resource Name (ARN) of the distribution configuration to delete.

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):distribution-configuration/[a-z0-9-_]+$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "distributionConfigurationArn": "string",
   "requestId": "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.

distributionConfigurationArn

The Amazon Resource Name (ARN) of the distribution configuration that was deleted.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):distribution-configuration/[a-z0-9-_]+$`

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ResourceDependencyException

You have attempted to mutate or delete a resource with a dependency that prohibits this action. See the error message for more details.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

DeleteImage

Deletes an Image Builder image resource. This does not delete any EC2 AMIs or ECR container images that are created during the image build process. You must clean those up separately, using the appropriate Amazon EC2 or Amazon ECR console actions, or API or AWS CLI commands.

- To deregister an EC2 Linux AMI, see Deregister your Linux AMI in the Amazon EC2 User Guide .
- To deregister an EC2 Windows AMI, see Deregister your Windows AMI in the Amazon EC2 Windows Guide .
- To delete a container image from Amazon ECR, see Deleting an image in the *Amazon ECR User Guide*.

Request Syntax

```
DELETE /DeleteImage?imageBuildVersionArn=imageBuildVersionArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

imageBuildVersionArn

The Amazon Resource Name (ARN) of the Image Builder image resource to delete.

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):image/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+/[0-9]+$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
   "imageBuildVersionArn": "string",
   "requestId": "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.

imageBuildVersionArn

The Amazon Resource Name (ARN) of the Image Builder image resource that this request deleted.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):image/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+/[0-9]+$`

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ResourceDependencyException

You have attempted to mutate or delete a resource with a dependency that prohibits this action. See the error message for more details.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

DeleteImagePipeline

Deletes an image pipeline.

Request Syntax

```
DELETE /DeleteImagePipeline?imagePipelineArn=imagePipelineArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

imagePipelineArn

The Amazon Resource Name (ARN) of the image pipeline to delete.

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):image-pipeline/[a-z0-9-_]+$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "imagePipelineArn": "string",
   "requestId": "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.

imagePipelineArn

The Amazon Resource Name (ARN) of the image pipeline that was deleted.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):image-pipeline/[a-z0-9-_]+$`

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ResourceDependencyException

You have attempted to mutate or delete a resource with a dependency that prohibits this action. See the error message for more details.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

DeleteImageRecipe

Deletes an image recipe.

Request Syntax

```
DELETE /DeleteImageRecipe?imageRecipeArn=imageRecipeArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

imageRecipeArn

The Amazon Resource Name (ARN) of the image recipe to delete.

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):image-recipe/[a-z0-9-_]+/(?:[0-9]+|x)\.(?:[0-9]+|x)\.(?:[0-9]+|x)$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "imageRecipeArn": "string",
   "requestId": "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.

imageRecipeArn

The Amazon Resource Name (ARN) of the image recipe that was deleted.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):image-recipe/[a-z0-9-_]+/(?:[0-9]+|x)\.(?:[0-9]+|x)\.(?:[0-9]+|x)$`

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ResourceDependencyException

You have attempted to mutate or delete a resource with a dependency that prohibits this action. See the error message for more details.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

DeleteInfrastructureConfiguration

Deletes an infrastructure configuration.

Request Syntax

```
DELETE /DeleteInfrastructureConfiguration?
infrastructureConfigurationArn=infrastructureConfigurationArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

infrastructureConfigurationArn

The Amazon Resource Name (ARN) of the infrastructure configuration to delete.

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):infrastructure-configuration/[a-z0-9-_]+$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "infrastructureConfigurationArn": "string",
   "requestId": "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.

infrastructureConfigurationArn

The Amazon Resource Name (ARN) of the infrastructure configuration that was deleted.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):infrastructure-configuration/[a-z0-9-_]+$`

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ResourceDependencyException

You have attempted to mutate or delete a resource with a dependency that prohibits this action. See the error message for more details.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

Delete the specified lifecycle policy resource.

Request Syntax

```
DELETE /DeleteLifecyclePolicy?lifecyclePolicyArn=lifecyclePolicyArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

lifecyclePolicyArn

The Amazon Resource Name (ARN) of the lifecycle policy resource to delete.

Length Constraints: Maximum length of 1024.

Pattern: `^arn:aws(?:-[a-z]+)*:imagebuilder:[a-z]{2,}(?:-[a-z]+)+-[0-9]+:(?:[0-9]{12}|aws):lifecycle-policy/[a-z0-9-_]+$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "lifecyclePolicyArn": "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.

lifecyclePolicyArn

The Amazon Resource Name (ARN) of the lifecycle policy that was deleted.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: `^arn:aws(?:-[a-z]+)*:imagebuilder:[a-z]{2,}(?:-[a-z]+)+-[0-9]+:(?:[0-9]{12}|aws):lifecycle-policy/[a-z0-9-_]+$`

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ResourceDependencyException

You have attempted to mutate or delete a resource with a dependency that prohibits this action. See the error message for more details.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

DeleteWorkflow

Deletes a specific workflow resource.

Request Syntax

```
DELETE /DeleteWorkflow?workflowBuildVersionArn=workflowBuildVersionArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

workflowBuildVersionArn

The Amazon Resource Name (ARN) of the workflow resource to delete.

Length Constraints: Maximum length of 1024.

Pattern: `^arn:aws(?:-[a-z]+)*:imagebuilder:[a-z]{2,}(?:-[a-z]+)+-[0-9]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):workflow/(build|test|distribution)/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+/[0-9]+$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "workflowBuildVersionArn": "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.

workflowBuildVersionArn

The Amazon Resource Name (ARN) of the workflow resource that this request deleted.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: `^arn:aws(?:-[a-z]+)*:imagebuilder:[a-z]{2,}(?:-[a-z]+)+-[0-9]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):workflow/(build|test|distribution)/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+/[0-9]+$`

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ResourceDependencyException

You have attempted to mutate or delete a resource with a dependency that prohibits this action. See the error message for more details.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

DistributeImage

DistributeImage distributes existing AMIs to additional regions and accounts without rebuilding the image.

Request Syntax

```
PUT /DistributeImage HTTP/1.1
Content-type: application/json

{
   "clientToken": "string",
   "distributionConfigurationArn": "string",
   "executionRole": "string",
   "loggingConfiguration": {
      "logGroupName": "string"
   },
   "sourceImage": "string",
   "tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

clientToken

Unique, case-sensitive identifier you provide to ensure idempotency of the request. For more information, see Ensuring idempotency in the *Amazon EC2 API Reference*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Required: Yes

distributionConfigurationArn

The Amazon Resource Name (ARN) of the distribution configuration to use.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):distribution-configuration/[a-z0-9-_]+$`

Required: Yes

executionRole

The IAM role to use for the distribution.

Type: String

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

Pattern: `^(?:arn:aws(?:-[a-z]+)*:iam::[0-9]{12}:role/)?[a-zA-Z_0-9+=,.@\-_/]+$`

Required: Yes

loggingConfiguration

The logging configuration for the distribution.

Type: ImageLoggingConfiguration object

Required: No

sourceImage

The source image Amazon Resource Name (ARN) to distribute.

Type: String

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

Required: Yes

tags

The tags to apply to the distributed image.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "clientToken": "string",
   "imageBuildVersionArn": "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.

clientToken

The client token that uniquely identifies the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

imageBuildVersionArn

The Amazon Resource Name (ARN) of the image to be distributed.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):image/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+/[0-9]+$`

Errors

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

AccessDeniedException

You do not have permissions to perform the requested operation.

HTTP Status Code: 403

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

IdempotentParameterMismatchException

You have specified a client token for an operation using parameter values that differ from a previous request that used the same client token.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ResourceInUseException

The resource that you are trying to operate on is currently in use. Review the message details and retry later.

HTTP Status Code: 400

ResourceNotFoundException

At least one of the resources referenced by your request does not exist.

HTTP Status Code: 404

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceQuotaExceededException

You have exceeded the number of permitted resources or operations for this service. For service quotas, see EC2 Image Builder endpoints and quotas.

HTTP Status Code: 402

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

TooManyRequestsException

You have attempted too many requests for the specific operation.

HTTP Status Code: 429

See Also

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

- AWS Command Line Interface 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

GetComponent

Gets a component object.

Request Syntax

```
GET /GetComponent?componentBuildVersionArn=componentBuildVersionArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

componentBuildVersionArn

The Amazon Resource Name (ARN) of the component that you want to get. Regex requires the suffix /\d+$.

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):component/[a-z0-9-_]+/(?:(?:([0-9]+|x)\.([0-9]+|x)\.([0-9]+|x))|(?:[0-9]+\.[0-9]+\.[0-9]+/[0-9]+))$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "component": {
      "arn": "string",
      "changeDescription": "string",
      "data": "string",
      "dateCreated": "string",
      "description": "string",
      "encrypted": boolean,
```

```
        "kmsKeyId": "string",
        "name": "string",
        "obfuscate": boolean,
        "owner": "string",
        "parameters": [
           {
              "defaultValue": [ "string" ],
              "description": "string",
              "name": "string",
              "type": "string"
           }
        ],
        "platform": "string",
        "productCodes": [
           {
              "productCodeId": "string",
              "productCodeType": "string"
           }
        ],
        "publisher": "string",
        "state": {
           "reason": "string",
           "status": "string"
        },
        "supportedOsVersions": [ "string" ],
        "tags": {
           "string" : "string"
        },
        "type": "string",
        "version": "string"
    },
    "latestVersionReferences": {
        "latestMajorVersionArn": "string",
        "latestMinorVersionArn": "string",
        "latestPatchVersionArn": "string",
        "latestVersionArn": "string"
    },
    "requestId": "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.

component

The component object specified in the request.

Type: Component object

latestVersionReferences

The resource ARNs with different wildcard variations of semantic versioning.

Type: LatestVersionReferences object

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

GetComponentPolicy

Gets a component policy.

Request Syntax

```
GET /GetComponentPolicy?componentArn=componentArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

componentArn

The Amazon Resource Name (ARN) of the component whose policy you want to retrieve.

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):component/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+/[0-9]+$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "policy": "string",
   "requestId": "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.

policy

The component policy.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 30000.

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ResourceNotFoundException

At least one of the resources referenced by your request does not exist.

HTTP Status Code: 404

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

GetContainerRecipe

Retrieves a container recipe.

Request Syntax

```
GET /GetContainerRecipe?containerRecipeArn=containerRecipeArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

containerRecipeArn

The Amazon Resource Name (ARN) of the container recipe to retrieve.

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):container-recipe/[a-z0-9-_]+/(?:[0-9]+|x)\.(?:[0-9]+|x)\.(?:[0-9]+|x)$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "containerRecipe": {
      "arn": "string",
      "components": [
         {
            "componentArn": "string",
            "parameters": [
               {
                  "name": "string",
                  "value": [ "string" ]
               }
```

```
            ]
         }
      ],
      "containerType": "string",
      "dateCreated": "string",
      "description": "string",
      "dockerfileTemplateData": "string",
      "encrypted": boolean,
      "instanceConfiguration": {
         "blockDeviceMappings": [
            {
               "deviceName": "string",
               "ebs": {
                  "deleteOnTermination": boolean,
                  "encrypted": boolean,
                  "iops": number,
                  "kmsKeyId": "string",
                  "snapshotId": "string",
                  "throughput": number,
                  "volumeSize": number,
                  "volumeType": "string"
               },
               "noDevice": "string",
               "virtualName": "string"
            }
         ],
         "image": "string"
      },
      "kmsKeyId": "string",
      "name": "string",
      "owner": "string",
      "parentImage": "string",
      "platform": "string",
      "tags": {
         "string" : "string"
      },
      "targetRepository": {
         "repositoryName": "string",
         "service": "string"
      },
      "version": "string",
      "workingDirectory": "string"
   },
   "latestVersionReferences": {
```

```
        "latestMajorVersionArn": "string",
        "latestMinorVersionArn": "string",
        "latestPatchVersionArn": "string",
        "latestVersionArn": "string"
    },
    "requestId": "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.

containerRecipe

The container recipe object that is returned.

Type: ContainerRecipe object

latestVersionReferences

The resource ARNs with different wildcard variations of semantic versioning.

Type: LatestVersionReferences object

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

GetContainerRecipePolicy

Retrieves the policy for a container recipe.

Request Syntax

```
GET /GetContainerRecipePolicy?containerRecipeArn=containerRecipeArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

containerRecipeArn

The Amazon Resource Name (ARN) of the container recipe for the policy being requested.

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):container-recipe/[a-z0-9-_]+/(?:[0-9]+|x)\.(?:[0-9]+|x)\.(?:[0-9]+|x)$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "policy": "string",
   "requestId": "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.

policy

The container recipe policy object that is returned.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 30000.

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ResourceNotFoundException

At least one of the resources referenced by your request does not exist.

HTTP Status Code: 404

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

GetDistributionConfiguration

Gets a distribution configuration.

Request Syntax

```
GET /GetDistributionConfiguration?
distributionConfigurationArn=distributionConfigurationArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

distributionConfigurationArn

The Amazon Resource Name (ARN) of the distribution configuration that you want to retrieve.

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):distribution-configuration/[a-z0-9-_]+$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "distributionConfiguration": {
      "arn": "string",
      "dateCreated": "string",
      "dateUpdated": "string",
      "description": "string",
      "distributions": [
         {
            "amiDistributionConfiguration": {
               "amiTags": {
```

```
                "string" : "string"
            },
            "description": "string",
            "kmsKeyId": "string",
            "launchPermission": {
                "organizationalUnitArns": [ "string" ],
                "organizationArns": [ "string" ],
                "userGroups": [ "string" ],
                "userIds": [ "string" ]
            },
            "name": "string",
            "targetAccountIds": [ "string" ]
        },
        "containerDistributionConfiguration": {
            "containerTags": [ "string" ],
            "description": "string",
            "targetRepository": {
                "repositoryName": "string",
                "service": "string"
            }
        },
        "fastLaunchConfigurations": [
            {
                "accountId": "string",
                "enabled": boolean,
                "launchTemplate": {
                    "launchTemplateId": "string",
                    "launchTemplateName": "string",
                    "launchTemplateVersion": "string"
                },
                "maxParallelLaunches": number,
                "snapshotConfiguration": {
                    "targetResourceCount": number
                }
            }
        ],
        "launchTemplateConfigurations": [
            {
                "accountId": "string",
                "launchTemplateId": "string",
                "setDefaultVersion": boolean
            }
        ],
        "licenseConfigurationArns": [ "string" ],
```

```
            "region": "string",
            "s3ExportConfiguration": {
               "diskImageFormat": "string",
               "roleName": "string",
               "s3Bucket": "string",
               "s3Prefix": "string"
            },
            "ssmParameterConfigurations": [
               {
                  "amiAccountId": "string",
                  "dataType": "string",
                  "parameterName": "string"
               }
            ]
         }
      ],
      "name": "string",
      "tags": {
         "string" : "string"
      },
      "timeoutMinutes": number
   },
   "requestId": "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.

distributionConfiguration

The distribution configuration object.

Type: DistributionConfiguration object

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

GetImage

Gets an image.

Request Syntax

```
GET /GetImage?imageBuildVersionArn=imageBuildVersionArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

imageBuildVersionArn

The Amazon Resource Name (ARN) of the image that you want to get.

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):image/[a-z0-9-_]+/(?:(?:([0-9]+|x)\.([0-9]+|x)\.([0-9]+|x))|(?:[0-9]+\.[0-9]+\.[0-9]+/[0-9]+))$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "image": {
      "arn": "string",
      "buildType": "string",
      "containerRecipe": {
         "arn": "string",
         "components": [
            {
               "componentArn": "string",
               "parameters": [
```

```
                {
                   "name": "string",
                   "value": [ "string" ]
                }
             ]
          }
       ],
       "containerType": "string",
       "dateCreated": "string",
       "description": "string",
       "dockerfileTemplateData": "string",
       "encrypted": boolean,
       "instanceConfiguration": {
          "blockDeviceMappings": [
             {
                "deviceName": "string",
                "ebs": {
                   "deleteOnTermination": boolean,
                   "encrypted": boolean,
                   "iops": number,
                   "kmsKeyId": "string",
                   "snapshotId": "string",
                   "throughput": number,
                   "volumeSize": number,
                   "volumeType": "string"
                },
                "noDevice": "string",
                "virtualName": "string"
             }
          ],
          "image": "string"
       },
       "kmsKeyId": "string",
       "name": "string",
       "owner": "string",
       "parentImage": "string",
       "platform": "string",
       "tags": {
          "string" : "string"
       },
       "targetRepository": {
          "repositoryName": "string",
          "service": "string"
       },
```

```
            "version": "string",
            "workingDirectory": "string"
        },
        "dateCreated": "string",
        "deprecationTime": number,
        "distributionConfiguration": {
            "arn": "string",
            "dateCreated": "string",
            "dateUpdated": "string",
            "description": "string",
            "distributions": [
                {
                    "amiDistributionConfiguration": {
                        "amiTags": {
                            "string" : "string"
                        },
                        "description": "string",
                        "kmsKeyId": "string",
                        "launchPermission": {
                            "organizationalUnitArns": [ "string" ],
                            "organizationArns": [ "string" ],
                            "userGroups": [ "string" ],
                            "userIds": [ "string" ]
                        },
                        "name": "string",
                        "targetAccountIds": [ "string" ]
                    },
                    "containerDistributionConfiguration": {
                        "containerTags": [ "string" ],
                        "description": "string",
                        "targetRepository": {
                            "repositoryName": "string",
                            "service": "string"
                        }
                    },
                    "fastLaunchConfigurations": [
                        {
                            "accountId": "string",
                            "enabled": boolean,
                            "launchTemplate": {
                                "launchTemplateId": "string",
                                "launchTemplateName": "string",
                                "launchTemplateVersion": "string"
                            },
```

```
                "maxParallelLaunches": number,
                "snapshotConfiguration": {
                   "targetResourceCount": number
                }
             }
          ],
          "launchTemplateConfigurations": [
             {
                "accountId": "string",
                "launchTemplateId": "string",
                "setDefaultVersion": boolean
             }
          ],
          "licenseConfigurationArns": [ "string" ],
          "region": "string",
          "s3ExportConfiguration": {
             "diskImageFormat": "string",
             "roleName": "string",
             "s3Bucket": "string",
             "s3Prefix": "string"
          },
          "ssmParameterConfigurations": [
             {
                "amiAccountId": "string",
                "dataType": "string",
                "parameterName": "string"
             }
          ]
       }
    ],
    "name": "string",
    "tags": {
       "string" : "string"
    },
    "timeoutMinutes": number
 },
 "enhancedImageMetadataEnabled": boolean,
 "executionRole": "string",
 "imageRecipe": {
    "additionalInstanceConfiguration": {
       "systemsManagerAgent": {
          "uninstallAfterBuild": boolean
       },
       "userDataOverride": "string"
```

```
        },
        "amiTags": {
           "string" : "string"
        },
        "arn": "string",
        "blockDeviceMappings": [
           {
              "deviceName": "string",
              "ebs": {
                 "deleteOnTermination": boolean,
                 "encrypted": boolean,
                 "iops": number,
                 "kmsKeyId": "string",
                 "snapshotId": "string",
                 "throughput": number,
                 "volumeSize": number,
                 "volumeType": "string"
              },
              "noDevice": "string",
              "virtualName": "string"
           }
        ],
        "components": [
           {
              "componentArn": "string",
              "parameters": [
                 {
                    "name": "string",
                    "value": [ "string" ]
                 }
              ]
           }
        ],
        "dateCreated": "string",
        "description": "string",
        "name": "string",
        "owner": "string",
        "parentImage": "string",
        "platform": "string",
        "tags": {
           "string" : "string"
        },
        "type": "string",
        "version": "string",
```

```
            "workingDirectory": "string"
        },
        "imageScanningConfiguration": {
            "ecrConfiguration": {
                "containerTags": [ "string" ],
                "repositoryName": "string"
            },
            "imageScanningEnabled": boolean
        },
        "imageSource": "string",
        "imageTestsConfiguration": {
            "imageTestsEnabled": boolean,
            "timeoutMinutes": number
        },
        "infrastructureConfiguration": {
            "arn": "string",
            "dateCreated": "string",
            "dateUpdated": "string",
            "description": "string",
            "instanceMetadataOptions": {
                "httpPutResponseHopLimit": number,
                "httpTokens": "string"
            },
            "instanceProfileName": "string",
            "instanceTypes": [ "string" ],
            "keyPair": "string",
            "logging": {
                "s3Logs": {
                    "s3BucketName": "string",
                    "s3KeyPrefix": "string"
                }
            },
            "name": "string",
            "placement": {
                "availabilityZone": "string",
                "hostId": "string",
                "hostResourceGroupArn": "string",
                "tenancy": "string"
            },
            "resourceTags": {
                "string" : "string"
            },
            "securityGroupIds": [ "string" ],
            "snsTopicArn": "string",
```

```
            "subnetId": "string",
            "tags": {
               "string" : "string"
            },
            "terminateInstanceOnFailure": boolean
         },
         "lifecycleExecutionId": "string",
         "loggingConfiguration": {
            "logGroupName": "string"
         },
         "name": "string",
         "osVersion": "string",
         "outputResources": {
            "amis": [
               {
                  "accountId": "string",
                  "description": "string",
                  "image": "string",
                  "name": "string",
                  "region": "string",
                  "state": {
                     "reason": "string",
                     "status": "string"
                  }
               }
            ],
            "containers": [
               {
                  "imageUris": [ "string" ],
                  "region": "string"
               }
            ]
         },
         "platform": "string",
         "scanState": {
            "reason": "string",
            "status": "string"
         },
         "sourcePipelineArn": "string",
         "sourcePipelineName": "string",
         "state": {
            "reason": "string",
            "status": "string"
         },
```

```
        "tags": {
           "string" : "string"
        },
        "type": "string",
        "version": "string",
        "workflows": [
           {
              "onFailure": "string",
              "parallelGroup": "string",
              "parameters": [
                 {
                    "name": "string",
                    "value": [ "string" ]
                 }
              ],
              "workflowArn": "string"
           }
        ]
    },
    "latestVersionReferences": {
        "latestMajorVersionArn": "string",
        "latestMinorVersionArn": "string",
        "latestPatchVersionArn": "string",
        "latestVersionArn": "string"
    },
    "requestId": "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

The image object.

Type: Image object

latestVersionReferences

The resource ARNs with different wildcard variations of semantic versioning.

Type: LatestVersionReferences object

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

GetImagePipeline

Gets an image pipeline.

Request Syntax

```
GET /GetImagePipeline?imagePipelineArn=imagePipelineArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

imagePipelineArn

The Amazon Resource Name (ARN) of the image pipeline that you want to retrieve.

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):image-pipeline/[a-z0-9-_]+$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "imagePipeline": {
      "arn": "string",
      "consecutiveFailures": number,
      "containerRecipeArn": "string",
      "dateCreated": "string",
      "dateLastRun": "string",
      "dateNextRun": "string",
      "dateUpdated": "string",
      "description": "string",
      "distributionConfigurationArn": "string",
```

```
        "enhancedImageMetadataEnabled": boolean,
        "executionRole": "string",
        "imageRecipeArn": "string",
        "imageScanningConfiguration": {
           "ecrConfiguration": {
              "containerTags": [ "string" ],
              "repositoryName": "string"
           },
           "imageScanningEnabled": boolean
        },
        "imageTestsConfiguration": {
           "imageTestsEnabled": boolean,
           "timeoutMinutes": number
        },
        "infrastructureConfigurationArn": "string",
        "lastRunStatus": "string",
        "loggingConfiguration": {
           "imageLogGroupName": "string",
           "pipelineLogGroupName": "string"
        },
        "name": "string",
        "platform": "string",
        "schedule": {
           "autoDisablePolicy": {
              "failureCount": number
           },
           "pipelineExecutionStartCondition": "string",
           "scheduleExpression": "string",
           "timezone": "string"
        },
        "status": "string",
        "tags": {
           "string" : "string"
        },
        "workflows": [
           {
              "onFailure": "string",
              "parallelGroup": "string",
              "parameters": [
                 {
                    "name": "string",
                    "value": [ "string" ]
                 }
              ],
```

```
            "workflowArn": "string"
        }
    ]
  },
  "requestId": "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.

imagePipeline

The image pipeline object.

Type: ImagePipeline object

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

GetImagePolicy

Gets an image policy.

Request Syntax

```
GET /GetImagePolicy?imageArn=imageArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

imageArn

The Amazon Resource Name (ARN) of the image whose policy you want to retrieve.

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):image/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+/[0-9]+$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "policy": "string",
   "requestId": "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.

policy

The image policy object.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 30000.

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ResourceNotFoundException

At least one of the resources referenced by your request does not exist.

HTTP Status Code: 404

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

GetImageRecipe

Gets an image recipe.

Request Syntax

```
GET /GetImageRecipe?imageRecipeArn=imageRecipeArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

imageRecipeArn

The Amazon Resource Name (ARN) of the image recipe that you want to retrieve.

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):image-recipe/[a-z0-9-_]+/(?:[0-9]+|x)\.(?:[0-9]+|x)\.(?:[0-9]+|x)$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "imageRecipe": {
      "additionalInstanceConfiguration": {
         "systemsManagerAgent": {
            "uninstallAfterBuild": boolean
         },
         "userDataOverride": "string"
      },
      "amiTags": {
         "string" : "string"
      },
```

```
        "arn": "string",
        "blockDeviceMappings": [
           {
              "deviceName": "string",
              "ebs": {
                 "deleteOnTermination": boolean,
                 "encrypted": boolean,
                 "iops": number,
                 "kmsKeyId": "string",
                 "snapshotId": "string",
                 "throughput": number,
                 "volumeSize": number,
                 "volumeType": "string"
              },
              "noDevice": "string",
              "virtualName": "string"
           }
        ],
        "components": [
           {
              "componentArn": "string",
              "parameters": [
                 {
                    "name": "string",
                    "value": [ "string" ]
                 }
              ]
           }
        ],
        "dateCreated": "string",
        "description": "string",
        "name": "string",
        "owner": "string",
        "parentImage": "string",
        "platform": "string",
        "tags": {
           "string" : "string"
        },
        "type": "string",
        "version": "string",
        "workingDirectory": "string"
     },
     "latestVersionReferences": {
        "latestMajorVersionArn": "string",
```

```
        "latestMinorVersionArn": "string",
        "latestPatchVersionArn": "string",
        "latestVersionArn": "string"
    },
    "requestId": "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.

imageRecipe

The image recipe object.

Type: ImageRecipe object

latestVersionReferences

The resource ARNs with different wildcard variations of semantic versioning.

Type: LatestVersionReferences object

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

GetImageRecipePolicy

Gets an image recipe policy.

Request Syntax

```
GET /GetImageRecipePolicy?imageRecipeArn=imageRecipeArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

imageRecipeArn

The Amazon Resource Name (ARN) of the image recipe whose policy you want to retrieve.

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):image-recipe/[a-z0-9-_]+/(?:[0-9]+|x)\.(?:[0-9]+|x)\.(?:[0-9]+|x)$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "policy": "string",
   "requestId": "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.

policy

The image recipe policy object.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 30000.

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ResourceNotFoundException

At least one of the resources referenced by your request does not exist.

HTTP Status Code: 404

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

GetInfrastructureConfiguration

Gets an infrastructure configuration.

Request Syntax

```
GET /GetInfrastructureConfiguration?
infrastructureConfigurationArn=infrastructureConfigurationArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

infrastructureConfigurationArn

The Amazon Resource Name (ARN) of the infrastructure configuration that you want to retrieve.

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):infrastructure-configuration/[a-z0-9-_]+$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "infrastructureConfiguration": {
      "arn": "string",
      "dateCreated": "string",
      "dateUpdated": "string",
      "description": "string",
      "instanceMetadataOptions": {
         "httpPutResponseHopLimit": number,
```

```
            "httpTokens": "string"
        },
        "instanceProfileName": "string",
        "instanceTypes": [ "string" ],
        "keyPair": "string",
        "logging": {
            "s3Logs": {
                "s3BucketName": "string",
                "s3KeyPrefix": "string"
            }
        },
        "name": "string",
        "placement": {
            "availabilityZone": "string",
            "hostId": "string",
            "hostResourceGroupArn": "string",
            "tenancy": "string"
        },
        "resourceTags": {
            "string" : "string"
        },
        "securityGroupIds": [ "string" ],
        "snsTopicArn": "string",
        "subnetId": "string",
        "tags": {
            "string" : "string"
        },
        "terminateInstanceOnFailure": boolean
    },
    "requestId": "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.

infrastructureConfiguration

The infrastructure configuration object.

Type: InfrastructureConfiguration object

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

GetLifecycleExecution

Get the runtime information that was logged for a specific runtime instance of the lifecycle policy.

Request Syntax

```
GET /GetLifecycleExecution?lifecycleExecutionId=lifecycleExecutionId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

lifecycleExecutionId

Use the unique identifier for a runtime instance of the lifecycle policy to get runtime details.

Pattern: `^lce-[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

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "lifecycleExecution": {
      "endTime": number,
      "lifecycleExecutionId": "string",
      "lifecyclePolicyArn": "string",
      "resourcesImpactedSummary": {
         "hasImpactedResources": boolean
      },
      "startTime": number,
```

```
        "state": {
            "reason": "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.

lifecycleExecution

Runtime details for the specified runtime instance of the lifecycle policy.

Type: LifecycleExecution object

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

Get details for the specified image lifecycle policy.

Request Syntax

```
GET /GetLifecyclePolicy?lifecyclePolicyArn=lifecyclePolicyArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

lifecyclePolicyArn

Specifies the Amazon Resource Name (ARN) of the image lifecycle policy resource to get.

Length Constraints: Maximum length of 1024.

Pattern: `^arn:aws(?:-[a-z]+)*:imagebuilder:[a-z]{2,}(?:-[a-z]+)+-[0-9]+:(?:[0-9]{12}|aws):lifecycle-policy/[a-z0-9-_]+$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "lifecyclePolicy": {
      "arn": "string",
      "dateCreated": number,
      "dateLastRun": number,
      "dateUpdated": number,
      "description": "string",
      "executionRole": "string",
      "name": "string",
```

```
    "policyDetails": [
       {
          "action": {
             "includeResources": {
                "amis": boolean,
                "containers": boolean,
                "snapshots": boolean
             },
             "type": "string"
          },
          "exclusionRules": {
             "amis": {
                "isPublic": boolean,
                "lastLaunched": {
                   "unit": "string",
                   "value": number
                },
                "regions": [ "string" ],
                "sharedAccounts": [ "string" ],
                "tagMap": {
                   "string" : "string"
                }
             },
             "tagMap": {
                "string" : "string"
             }
          },
          "filter": {
             "retainAtLeast": number,
             "type": "string",
             "unit": "string",
             "value": number
          }
       }
    ],
    "resourceSelection": {
       "recipes": [
          {
             "name": "string",
             "semanticVersion": "string"
          }
       ],
       "tagMap": {
          "string" : "string"
```

```
            }
        },
        "resourceType": "string",
        "status": "string",
        "tags": {
            "string" : "string"
        }
    }
}
```

Response Elements

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

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

lifecyclePolicy

The Amazon Resource Name (ARN) of the image lifecycle policy resource that was returned.

Type: LifecyclePolicy object

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

GetMarketplaceResource

Verify the subscription and perform resource dependency checks on the requested AWS Marketplace resource. For AWS Marketplace components, the response contains fields to download the components and their artifacts.

Request Syntax

```
POST /GetMarketplaceResource HTTP/1.1
Content-type: application/json

{
   "resourceArn": "string",
   "resourceLocation": "string",
   "resourceType": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

resourceArn

The Amazon Resource Name (ARN) that uniquely identifies an AWS Marketplace resource.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):(?:image-recipe|container-recipe|infrastructure-configuration|distribution-configuration|component|image|image-pipeline|lifecycle-policy|workflow\/(?:build|test|distribution))/[a-z0-9-_]+(?:/(?:(?:x|[0-9]+)\.(?:x|[0-9]+)\.(?:x|[0-9]+))(?:/[0-9]+)?)?$`

Required: Yes

resourceLocation

The bucket path that you can specify to download the resource from Amazon S3.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: `^s3://[^/]+/.+[^/]$`

Required: No

resourceType

Specifies which type of AWS Marketplace resource Image Builder retrieves.

Type: String

Valid Values: `COMPONENT_DATA | COMPONENT_ARTIFACT`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "data": "string",
   "resourceArn": "string",
   "url": "string"
}
```

Response Elements

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

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

data

Returns obfuscated data that contains the YAML content of the component.

Type: String

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

resourceArn

The Amazon Resource Name (ARN) for the AWS Marketplace resource that was requested.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):(?:image-recipe|container-recipe|infrastructure-configuration|distribution-configuration|component|image|image-pipeline|lifecycle-policy|workflow\/(?:build|test|distribution))/[a-z0-9-_]+(?:/(?:(?:x|[0-9]+)\.(?:x|[0-9]+)\.(?:x|[0-9]+))(?:/[0-9]+)?)?$`

url

The obfuscated S3 URL to download the component artifact from.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

GetWorkflow

Get a workflow resource object.

Request Syntax

```
GET /GetWorkflow?workflowBuildVersionArn=workflowBuildVersionArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

workflowBuildVersionArn

The Amazon Resource Name (ARN) of the workflow resource that you want to get.

Pattern: `^arn:aws(?:-[a-z]+)*:imagebuilder:[a-z]{2,}(?:-[a-z]+)+-[0-9]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):workflow/(build|test|distribution)/[a-z0-9-_]+/(?:(?:([0-9]+|x)\.([0-9]+|x)\.([0-9]+|x))|(?:[0-9]+\.[0-9]+\.[0-9]+/[0-9]+))$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "latestVersionReferences": {
      "latestMajorVersionArn": "string",
      "latestMinorVersionArn": "string",
      "latestPatchVersionArn": "string",
      "latestVersionArn": "string"
   },
```

```
    "workflow": {
       "arn": "string",
       "changeDescription": "string",
       "data": "string",
       "dateCreated": "string",
       "description": "string",
       "kmsKeyId": "string",
       "name": "string",
       "owner": "string",
       "parameters": [
          {
             "defaultValue": [ "string" ],
             "description": "string",
             "name": "string",
             "type": "string"
          }
       ],
       "state": {
          "reason": "string",
          "status": "string"
       },
       "tags": {
          "string" : "string"
       },
       "type": "string",
       "version": "string"
    }
}
```

Response Elements

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

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

latestVersionReferences

The resource ARNs with different wildcard variations of semantic versioning.

Type: LatestVersionReferences object

workflow

The workflow resource specified in the request.

Type: Workflow object

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

GetWorkflowExecution

Get the runtime information that was logged for a specific runtime instance of the workflow.

Request Syntax

```
GET /GetWorkflowExecution?workflowExecutionId=workflowExecutionId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

workflowExecutionId

Use the unique identifier for a runtime instance of the workflow to get runtime details.

Pattern: `^wf-[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

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "endTime": "string",
   "imageBuildVersionArn": "string",
   "message": "string",
   "parallelGroup": "string",
   "requestId": "string",
   "startTime": "string",
   "status": "string",
   "totalStepCount": number,
```

```
    "totalStepsFailed": number,
    "totalStepsSkipped": number,
    "totalStepsSucceeded": number,
    "type": "string",
    "workflowBuildVersionArn": "string",
    "workflowExecutionId": "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.

endTime

The timestamp when the specified runtime instance of the workflow finished.

Type: String

imageBuildVersionArn

The Amazon Resource Name (ARN) of the image resource build version that the specified runtime instance of the workflow created.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):image/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+/[0-9]+$`

message

The output message from the specified runtime instance of the workflow, if applicable.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

parallelGroup

Test workflows are defined within named runtime groups. The parallel group is a named group that contains one or more test workflows.

Type: String

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

Pattern: `^[A-Za-z0-9][A-Za-z0-9-_+#]{0,99}$`

requestId

The request ID that uniquely identifies this request.

Type: String

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

startTime

The timestamp when the specified runtime instance of the workflow started.

Type: String

status

The current runtime status for the specified runtime instance of the workflow.

Type: String

Valid Values: `PENDING | SKIPPED | RUNNING | COMPLETED | FAILED | ROLLBACK_IN_PROGRESS | ROLLBACK_COMPLETED | CANCELLED`

totalStepCount

The total number of steps in the specified runtime instance of the workflow that ran. This number should equal the sum of the step counts for steps that succeeded, were skipped, and failed.

Type: Integer

totalStepsFailed

A runtime count for the number of steps that failed in the specified runtime instance of the workflow.

Type: Integer

totalStepsSkipped

A runtime count for the number of steps that were skipped in the specified runtime instance of the workflow.

Type: Integer

totalStepsSucceeded

A runtime count for the number of steps that ran successfully in the specified runtime instance of the workflow.

Type: Integer

type

The type of workflow that Image Builder ran for the specified runtime instance of the workflow.

Type: String

Valid Values: `BUILD | TEST | DISTRIBUTION`

workflowBuildVersionArn

The Amazon Resource Name (ARN) of the build version for the Image Builder workflow resource that defines the specified runtime instance of the workflow.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: `^arn:aws(?:-[a-z]+)*:imagebuilder:[a-z]{2,}(?:-[a-z]+)+-[0-9]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):workflow/(build|test|distribution)/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+/[0-9]+$`

workflowExecutionId

The unique identifier that Image Builder assigned to keep track of runtime details when it ran the workflow.

Type: String

Pattern: `^wf-[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.

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

GetWorkflowStepExecution

Get the runtime information that was logged for a specific runtime instance of the workflow step.

Request Syntax

```
GET /GetWorkflowStepExecution?stepExecutionId=stepExecutionId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

stepExecutionId

Use the unique identifier for a specific runtime instance of the workflow step to get runtime details for that step.

Pattern: `^step-[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

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "action": "string",
   "description": "string",
   "endTime": "string",
   "imageBuildVersionArn": "string",
   "inputs": "string",
   "message": "string",
   "name": "string",
   "onFailure": "string",
```

```
    "outputs": "string",
    "requestId": "string",
    "rollbackStatus": "string",
    "startTime": "string",
    "status": "string",
    "stepExecutionId": "string",
    "timeoutSeconds": number,
    "workflowBuildVersionArn": "string",
    "workflowExecutionId": "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.

action

The name of the action that the specified step performs.

Type: String

Pattern: `^[A-Za-z][A-Za-z0-9-_]{1,99}$`

description

Describes the specified workflow step.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

endTime

The timestamp when the specified runtime instance of the workflow step finished.

Type: String

imageBuildVersionArn

The Amazon Resource Name (ARN) of the image resource build version that the specified runtime instance of the workflow step creates.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):image/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+/[0-9]+$`

inputs

Input parameters that Image Builder provided for the specified runtime instance of the workflow step.

Type: String

message

The output message from the specified runtime instance of the workflow step, if applicable.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

name

The name of the specified runtime instance of the workflow step.

Type: String

Pattern: `^[A-Za-z][A-Za-z0-9-_]{1,99}$`

onFailure

The action to perform if the workflow step fails.

Type: String

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

outputs

The file names that the specified runtime version of the workflow step created as output.

Type: String

requestId

The request ID that uniquely identifies this request.

Type: String

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

rollbackStatus

Reports on the rollback status of the specified runtime version of the workflow step, if applicable.

Type: String

Valid Values: `RUNNING | COMPLETED | SKIPPED | FAILED`

startTime

The timestamp when the specified runtime version of the workflow step started.

Type: String

status

The current status for the specified runtime version of the workflow step.

Type: String

Valid Values: `PENDING | SKIPPED | RUNNING | COMPLETED | FAILED | CANCELLED`

stepExecutionId

The unique identifier for the runtime version of the workflow step that you specified in the request.

Type: String

Pattern: `^step-[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}$`

timeoutSeconds

The maximum duration in seconds for this step to complete its action.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 43200.

workflowBuildVersionArn

The Amazon Resource Name (ARN) of the build version for the Image Builder workflow resource that defines this workflow step.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: `^arn:aws(?:-[a-z]+)*:imagebuilder:[a-z]{2,}(?:-[a-z]+)+-[0-9]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):workflow/(build|test|distribution)/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+/[0-9]+$`

workflowExecutionId

The unique identifier that Image Builder assigned to keep track of runtime details when it ran the workflow.

Type: String

Pattern: `^wf-[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.

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

ImportComponent

Imports a component and transforms its data into a component document.

Request Syntax

```
PUT /ImportComponent HTTP/1.1
Content-type: application/json

{
   "changeDescription": "string",
   "clientToken": "string",
   "data": "string",
   "description": "string",
   "format": "string",
   "kmsKeyId": "string",
   "name": "string",
   "platform": "string",
   "semanticVersion": "string",
   "tags": {
      "string" : "string"
   },
   "type": "string",
   "uri": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

changeDescription

The change description of the component. This description indicates the change that has been made in this version, or what makes this version different from other versions of the component.

Type: String

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

Required: No

clientToken

Unique, case-sensitive identifier you provide to ensure idempotency of the request. For more information, see Ensuring idempotency in the *Amazon EC2 API Reference*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Required: Yes

data

The data of the component. Used to specify the data inline. Either `data` or `uri` can be used to specify the data within the component.

Type: String

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

Required: No

description

The description of the component. Describes the contents of the component.

Type: String

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

Required: No

format

The format of the resource that you want to import as a component.

Type: String

Valid Values: `SHELL`

Required: Yes

kmsKeyId

The Amazon Resource Name (ARN) that uniquely identifies the KMS key used to encrypt this component. This can be either the Key ARN or the Alias ARN. For more information, see Key identifiers (KeyId) in the *AWS Key Management Service Developer Guide*.

Type: String

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

Required: No

name

The name of the component.

Type: String

Pattern: `^[-_A-Za-z-0-9][-_A-Za-z0-9 ]{1,126}[-_A-Za-z-0-9]$`

Required: Yes

platform

The platform of the component.

Type: String

Valid Values: `Windows | Linux | macOS`

Required: Yes

semanticVersion

The semantic version of the component. This version follows the semantic version syntax.

> **Note**
>
> The semantic version has four nodes: <major>.<minor>.<patch>/<build>. You can assign values for the first three, and can filter on all of them.
> **Filtering:** With semantic versioning, you have the flexibility to use wildcards (x) to specify the most recent versions or nodes when selecting the base image or

components for your recipe. When you use a wildcard in any node, all nodes to the right of the first wildcard must also be wildcards.

Type: String

Pattern: `^[0-9]+\.[0-9]+\.[0-9]+$`

Required: Yes

tags

The tags of the component.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: Maximum length of 256.

Required: No

type

The type of the component denotes whether the component is used to build the image, or only to test it.

Type: String

Valid Values: `BUILD | TEST`

Required: Yes

uri

The uri of the component. Must be an Amazon S3 URL and the requester must have permission to access the Amazon S3 bucket. If you use Amazon S3, you can specify component content up to your service quota. Either `data` or `uri` can be used to specify the data within the component.

Type: String

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "clientToken": "string",
   "componentBuildVersionArn": "string",
   "requestId": "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.

clientToken

The client token that uniquely identifies the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

componentBuildVersionArn

The Amazon Resource Name (ARN) of the imported component.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):component/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+/[0-9]+$`

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

IdempotentParameterMismatchException

You have specified a client token for an operation using parameter values that differ from a previous request that used the same client token.

HTTP Status Code: 400

InvalidParameterCombinationException

You have specified two or more mutually exclusive parameters. Review the error message for details.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

InvalidVersionNumberException

Your version number is out of bounds or does not follow the required syntax.

HTTP Status Code: 400

ResourceInUseException

The resource that you are trying to operate on is currently in use. Review the message details and retry later.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

ImportDiskImage

Import a Windows operating system image from a verified Microsoft ISO disk file. The following disk images are supported:

- Windows 11 Enterprise

Request Syntax

```
PUT /ImportDiskImage HTTP/1.1
Content-type: application/json

{
   "clientToken": "string",
   "description": "string",
   "executionRole": "string",
   "infrastructureConfigurationArn": "string",
   "loggingConfiguration": {
      "logGroupName": "string"
   },
   "name": "string",
   "osVersion": "string",
   "platform": "string",
   "semanticVersion": "string",
   "tags": {
      "string" : "string"
   },
   "uri": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

clientToken

Unique, case-sensitive identifier you provide to ensure idempotency of the request. For more information, see Ensuring idempotency in the *Amazon EC2 API Reference*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Required: Yes

description

The description for your disk image import.

Type: String

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

Required: No

executionRole

The name or Amazon Resource Name (ARN) for the IAM role you create that grants Image Builder access to perform workflow actions to import an image from a Microsoft ISO file.

Type: String

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

Pattern: `^(?:arn:aws(?:-[a-z]+)*:iam::[0-9]{12}:role/)?[a-zA-Z_0-9+=,.@\-_/]+$`

Required: No

infrastructureConfigurationArn

The Amazon Resource Name (ARN) of the infrastructure configuration resource that's used for launching the EC2 instance on which the ISO image is built.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):infrastructure-configuration/[a-z0-9-_]+$`

Required: Yes

loggingConfiguration

Define logging configuration for the image build process.

Type: ImageLoggingConfiguration object

Required: No

name

The name of the image resource that's created from the import.

Type: String

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

Required: Yes

osVersion

The operating system version for the imported image. Allowed values include the following: `Microsoft Windows 11`.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

platform

The operating system platform for the imported image. Allowed values include the following: `Windows`.

Type: String

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

Required: Yes

semanticVersion

The semantic version to attach to the image that's created during the import process. This version follows the semantic version syntax.

Type: String

Pattern: `^[0-9]+\.[0-9]+\.[0-9]+$`

Required: Yes

tags

Tags that are attached to image resources created from the import.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: Maximum length of 256.

Required: No

uri

The `uri` of the ISO disk file that's stored in Amazon S3.

Type: String

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "clientToken": "string",
   "imageBuildVersionArn": "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.

clientToken

The client token that uniquely identifies the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

imageBuildVersionArn

The Amazon Resource Name (ARN) of the output AMI that was created from the ISO disk file.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):image/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+/[0-9]+$`

Errors

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

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

ImportVmImage

When you export your virtual machine (VM) from its virtualization environment, that process creates a set of one or more disk container files that act as snapshots of your VM's environment, settings, and data. The Amazon EC2 API ImportImage action uses those files to import your VM and create an AMI. To import using the AWS CLI command, see import-image

You can reference the task ID from the VM import to pull in the AMI that the import created as the base image for your Image Builder recipe.

Request Syntax

```
PUT /ImportVmImage HTTP/1.1
Content-type: application/json

{
   "clientToken": "string",
   "description": "string",
   "loggingConfiguration": {
      "logGroupName": "string"
   },
   "name": "string",
   "osVersion": "string",
   "platform": "string",
   "semanticVersion": "string",
   "tags": {
      "string" : "string"
   },
   "vmImportTaskId": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

clientToken

Unique, case-sensitive identifier you provide to ensure idempotency of the request. For more information, see Ensuring idempotency in the *Amazon EC2 API Reference*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Required: Yes

description

The description for the base image that is created by the import process.

Type: String

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

Required: No

loggingConfiguration

Define logging configuration for the image build process.

Type: ImageLoggingConfiguration object

Required: No

name

The name of the base image that is created by the import process.

Type: String

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

Required: Yes

osVersion

The operating system version for the imported VM.

Type: String

Length Constraints: Minimum length of 1.

Required: No

platform

The operating system platform for the imported VM.

Type: String

Valid Values: `Windows | Linux | macOS`

Required: Yes

semanticVersion

The semantic version to attach to the base image that was created during the import process. This version follows the semantic version syntax.

> **Note**
>
> The semantic version has four nodes: <major>.<minor>.<patch>/<build>. You can assign values for the first three, and can filter on all of them.
> **Assignment:** For the first three nodes you can assign any positive integer value, including zero, with an upper limit of 2^30-1, or 1073741823 for each node. Image Builder automatically assigns the build number to the fourth node.
> **Patterns:** You can use any numeric pattern that adheres to the assignment requirements for the nodes that you can assign. For example, you might choose a software version pattern, such as 1.0.0, or a date, such as 2021.01.01.

Type: String

Pattern: `^[0-9]+\.[0-9]+\.[0-9]+$`

Required: Yes

tags

Tags that are attached to the import resources.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: Maximum length of 256.

Required: No

vmImportTaskId

The `importTaskId` (API) or `ImportTaskId` (AWS CLI) from the Amazon EC2 VM import process. Image Builder retrieves information from the import process to pull in the AMI that is created from the VM source as the base image for your recipe.

Type: String

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

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "clientToken": "string",
   "imageArn": "string",
   "requestId": "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.

clientToken

The client token that uniquely identifies the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

imageArn

The Amazon Resource Name (ARN) of the AMI that was created during the VM import process. This AMI is used as the base image for the recipe that imported the VM.

Type: String

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

ListComponentBuildVersions

Returns the list of component build versions for the specified component version Amazon Resource Name (ARN).

Request Syntax

```
POST /ListComponentBuildVersions HTTP/1.1
Content-type: application/json

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

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

componentVersionArn

The component version Amazon Resource Name (ARN) whose versions you want to list.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):component/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+$`

Required: No

maxResults

Specify the maximum number of items to return in a request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 25.

Required: No

nextToken

A token to specify where to start paginating. This is the nextToken from a previously truncated response.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "componentSummaryList": [
      {
         "arn": "string",
         "changeDescription": "string",
         "dateCreated": "string",
         "description": "string",
         "name": "string",
         "obfuscate": boolean,
         "owner": "string",
         "platform": "string",
         "publisher": "string",
         "state": {
            "reason": "string",
            "status": "string"
         },
         "supportedOsVersions": [ "string" ],
         "tags": {
            "string" : "string"
         },
         "type": "string",
         "version": "string"
      }
   ],
   "nextToken": "string",
```

```
    "requestId": "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.

componentSummaryList

The list of component summaries for the specified semantic version.

Type: Array of ComponentSummary objects

nextToken

The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidPaginationTokenException

You have provided an invalid pagination token in your request.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

ListComponents

Returns the list of components that can be filtered by name, or by using the listed `filters` to streamline results. Newly created components can take up to two minutes to appear in the ListComponents API Results.

> **Note**
>
> The semantic version has four nodes: <major>.<minor>.<patch>/<build>. You can assign values for the first three, and can filter on all of them.
> **Filtering:** With semantic versioning, you have the flexibility to use wildcards (x) to specify the most recent versions or nodes when selecting the base image or components for your recipe. When you use a wildcard in any node, all nodes to the right of the first wildcard must also be wildcards.

Request Syntax

```
POST /ListComponents HTTP/1.1
Content-type: application/json

{
   "byName": boolean,
   "filters": [
      {
         "name": "string",
         "values": [ "string" ]
      }
   ],
   "maxResults": number,
   "nextToken": "string",
   "owner": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

byName

Returns the list of components for the specified name.

Type: Boolean

Required: No

filters

Use the following filters to streamline results:

- `description`
- `name`
- `platform`
- `supportedOsVersion`
- `type`
- `version`

Type: Array of Filter objects

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

Required: No

maxResults

Specify the maximum number of items to return in a request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 25.

Required: No

nextToken

A token to specify where to start paginating. This is the nextToken from a previously truncated response.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

Required: No

owner

Filters results based on the type of owner for the component. By default, this request returns a list of components that your account owns. To see results for other types of owners, you can specify components that Amazon manages, third party components, or components that other accounts have shared with you.

Type: String

Valid Values: `Self | Shared | Amazon | ThirdParty | AWSMarketplace`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "componentVersionList": [
      {
         "arn": "string",
         "dateCreated": "string",
         "description": "string",
         "name": "string",
         "owner": "string",
         "platform": "string",
         "productCodes": [
            {
               "productCodeId": "string",
               "productCodeType": "string"
            }
         ],
         "status": "string",
         "supportedOsVersions": [ "string" ],
         "type": "string",
```

```
            "version": "string"
        }
    ],
    "nextToken": "string",
    "requestId": "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.

componentVersionList

The list of component semantic versions.

> **Note**
>
> The semantic version has four nodes: <major>.<minor>.<patch>/<build>. You can assign values for the first three, and can filter on all of them.

Type: Array of ComponentVersion objects

nextToken

The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidPaginationTokenException

You have provided an invalid pagination token in your request.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

ListContainerRecipes

Returns a list of container recipes.

Request Syntax

```
POST /ListContainerRecipes HTTP/1.1
Content-type: application/json

{
   "filters": [
      {
         "name": "string",
         "values": [ "string" ]
      }
   ],
   "maxResults": number,
   "nextToken": "string",
   "owner": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

filters

Use the following filters to streamline results:

- `containerType`
- `name`
- `parentImage`
- `platform`

Type: Array of Filter objects

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

Required: No

maxResults

Specify the maximum number of items to return in a request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 25.

Required: No

nextToken

A token to specify where to start paginating. This is the nextToken from a previously truncated response.

Type: String

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

Required: No

owner

Returns container recipes belonging to the specified owner, that have been shared with you. You can omit this field to return container recipes belonging to your account.

Type: String

Valid Values: `Self | Shared | Amazon | ThirdParty | AWSMarketplace`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "containerRecipeSummaryList": [
      {
         "arn": "string",
         "containerType": "string",
```

```
            "dateCreated": "string",
            "instanceImage": "string",
            "name": "string",
            "owner": "string",
            "parentImage": "string",
            "platform": "string",
            "tags": {
               "string" : "string"
            }
         }
      ],
      "nextToken": "string",
      "requestId": "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.

containerRecipeSummaryList

The list of container recipes returned for the request.

Type: Array of ContainerRecipeSummary objects

nextToken

The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects.

Type: String

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

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidPaginationTokenException

You have provided an invalid pagination token in your request.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

ListDistributionConfigurations

Returns a list of distribution configurations.

Request Syntax

```
POST /ListDistributionConfigurations HTTP/1.1
Content-type: application/json

{
   "filters": [
      {
         "name": "string",
         "values": [ "string" ]
      }
   ],
   "maxResults": number,
   "nextToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

filters

You can filter on name to streamline results.

Type: Array of Filter objects

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

Required: No

maxResults

Specify the maximum number of items to return in a request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 25.

Required: No

nextToken

A token to specify where to start paginating. This is the nextToken from a previously truncated response.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "distributionConfigurationSummaryList": [
      {
         "arn": "string",
         "dateCreated": "string",
         "dateUpdated": "string",
         "description": "string",
         "name": "string",
         "regions": [ "string" ],
         "tags": {
            "string" : "string"
         }
      }
   ],
   "nextToken": "string",
   "requestId": "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.

distributionConfigurationSummaryList

The list of distributions.

Type: Array of DistributionConfigurationSummary objects

nextToken

The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidPaginationTokenException

You have provided an invalid pagination token in your request.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

ListImageBuildVersions

Returns a list of image build versions.

Request Syntax

```
POST /ListImageBuildVersions HTTP/1.1
Content-type: application/json

{
   "filters": [
      {
         "name": "string",
         "values": [ "string" ]
      }
   ],
   "imageVersionArn": "string",
   "maxResults": number,
   "nextToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

filters

Use the following filters to streamline results:

- `name`
- `osVersion`
- `platform`
- `type`
- `version`

Type: Array of Filter objects

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

Required: No

imageVersionArn

The Amazon Resource Name (ARN) of the image whose build versions you want to retrieve.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):image/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+$`

Required: No

maxResults

Specify the maximum number of items to return in a request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 25.

Required: No

nextToken

A token to specify where to start paginating. This is the nextToken from a previously truncated response.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "imageSummaryList": [
      {
         "arn": "string",
         "buildType": "string",
```

```
            "dateCreated": "string",
            "deprecationTime": number,
            "imageSource": "string",
            "lifecycleExecutionId": "string",
            "loggingConfiguration": {
               "logGroupName": "string"
            },
            "name": "string",
            "osVersion": "string",
            "outputResources": {
               "amis": [
                  {
                     "accountId": "string",
                     "description": "string",
                     "image": "string",
                     "name": "string",
                     "region": "string",
                     "state": {
                        "reason": "string",
                        "status": "string"
                     }
                  }
               ],
               "containers": [
                  {
                     "imageUris": [ "string" ],
                     "region": "string"
                  }
               ]
            },
            "owner": "string",
            "platform": "string",
            "state": {
               "reason": "string",
               "status": "string"
            },
            "tags": {
               "string" : "string"
            },
            "type": "string",
            "version": "string"
         }
      ],
      "nextToken": "string",
```

```
    "requestId": "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.

imageSummaryList

The list of image build versions.

Type: Array of ImageSummary objects

nextToken

The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidPaginationTokenException

You have provided an invalid pagination token in your request.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

ListImagePackages

List the Packages that are associated with an Image Build Version, as determined by AWS Systems Manager Inventory at build time.

Request Syntax

```
POST /ListImagePackages HTTP/1.1
Content-type: application/json

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

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

imageBuildVersionArn

Filter results for the ListImagePackages request by the Image Build Version ARN

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):image/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+/[0-9]+$`

Required: Yes

maxResults

Specify the maximum number of items to return in a request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 25.

Required: No

nextToken

A token to specify where to start paginating. This is the nextToken from a previously truncated response.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "imagePackageList": [
      {
         "packageName": "string",
         "packageVersion": "string"
      }
   ],
   "nextToken": "string",
   "requestId": "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.

imagePackageList

The list of Image Packages returned in the response.

Type: Array of ImagePackage objects

nextToken

The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidPaginationTokenException

You have provided an invalid pagination token in your request.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ResourceNotFoundException

At least one of the resources referenced by your request does not exist.

HTTP Status Code: 404

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

ListImagePipelineImages

Returns a list of images created by the specified pipeline.

Request Syntax

```
POST /ListImagePipelineImages HTTP/1.1
Content-type: application/json

{
   "filters": [
      {
         "name": "string",
         "values": [ "string" ]
      }
   ],
   "imagePipelineArn": "string",
   "maxResults": number,
   "nextToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

filters

Use the following filters to streamline results:

- `name`
- `version`

Type: Array of Filter objects

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

Required: No

imagePipelineArn

The Amazon Resource Name (ARN) of the image pipeline whose images you want to view.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):image-pipeline/[a-z0-9-_]+$`

Required: Yes

maxResults

Specify the maximum number of items to return in a request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 25.

Required: No

nextToken

A token to specify where to start paginating. This is the nextToken from a previously truncated response.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "imageSummaryList": [
      {
         "arn": "string",
         "buildType": "string",
         "dateCreated": "string",
         "deprecationTime": number,
         "imageSource": "string",
```

```
            "lifecycleExecutionId": "string",
            "loggingConfiguration": {
               "logGroupName": "string"
            },
            "name": "string",
            "osVersion": "string",
            "outputResources": {
               "amis": [
                  {
                     "accountId": "string",
                     "description": "string",
                     "image": "string",
                     "name": "string",
                     "region": "string",
                     "state": {
                        "reason": "string",
                        "status": "string"
                     }
                  }
               ],
               "containers": [
                  {
                     "imageUris": [ "string" ],
                     "region": "string"
                  }
               ]
            },
            "owner": "string",
            "platform": "string",
            "state": {
               "reason": "string",
               "status": "string"
            },
            "tags": {
               "string" : "string"
            },
            "type": "string",
            "version": "string"
         }
      ],
      "nextToken": "string",
      "requestId": "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.

imageSummaryList

The list of images built by this pipeline.

Type: Array of ImageSummary objects

nextToken

The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidPaginationTokenException

You have provided an invalid pagination token in your request.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ResourceNotFoundException

At least one of the resources referenced by your request does not exist.

HTTP Status Code: 404

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

ListImagePipelines

Returns a list of image pipelines.

Request Syntax

```
POST /ListImagePipelines HTTP/1.1
Content-type: application/json

{
   "filters": [
      {
         "name": "string",
         "values": [ "string" ]
      }
   ],
   "maxResults": number,
   "nextToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

filters

Use the following filters to streamline results:

- `description`
- `distributionConfigurationArn`
- `imageRecipeArn`
- `infrastructureConfigurationArn`
- `name`
- `status`

Type: Array of Filter objects

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

Required: No

maxResults

Specify the maximum number of items to return in a request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 25.

Required: No

nextToken

A token to specify where to start paginating. This is the nextToken from a previously truncated response.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "imagePipelineList": [
      {
         "arn": "string",
         "consecutiveFailures": number,
         "containerRecipeArn": "string",
         "dateCreated": "string",
         "dateLastRun": "string",
         "dateNextRun": "string",
         "dateUpdated": "string",
         "description": "string",
         "distributionConfigurationArn": "string",
         "enhancedImageMetadataEnabled": boolean,
         "executionRole": "string",
         "imageRecipeArn": "string",
```

```
        "imageScanningConfiguration": {
           "ecrConfiguration": {
              "containerTags": [ "string" ],
              "repositoryName": "string"
           },
           "imageScanningEnabled": boolean
        },
        "imageTestsConfiguration": {
           "imageTestsEnabled": boolean,
           "timeoutMinutes": number
        },
        "infrastructureConfigurationArn": "string",
        "lastRunStatus": "string",
        "loggingConfiguration": {
           "imageLogGroupName": "string",
           "pipelineLogGroupName": "string"
        },
        "name": "string",
        "platform": "string",
        "schedule": {
           "autoDisablePolicy": {
              "failureCount": number
           },
           "pipelineExecutionStartCondition": "string",
           "scheduleExpression": "string",
           "timezone": "string"
        },
        "status": "string",
        "tags": {
           "string" : "string"
        },
        "workflows": [
           {
              "onFailure": "string",
              "parallelGroup": "string",
              "parameters": [
                 {
                    "name": "string",
                    "value": [ "string" ]
                 }
              ],
              "workflowArn": "string"
           }
        ]
```

```
        }
    ],
    "nextToken": "string",
    "requestId": "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.

imagePipelineList

The list of image pipelines.

Type: Array of ImagePipeline objects

nextToken

The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidPaginationTokenException

You have provided an invalid pagination token in your request.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

ListImageRecipes

Returns a list of image recipes.

Request Syntax

```
POST /ListImageRecipes HTTP/1.1
Content-type: application/json

{
   "filters": [
      {
         "name": "string",
         "values": [ "string" ]
      }
   ],
   "maxResults": number,
   "nextToken": "string",
   "owner": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

filters

Use the following filters to streamline results:

- `name`
- `parentImage`
- `platform`

Type: Array of Filter objects

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

Required: No

maxResults

Specify the maximum number of items to return in a request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 25.

Required: No

nextToken

A token to specify where to start paginating. This is the nextToken from a previously truncated response.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

Required: No

owner

You can specify the recipe owner to filter results by that owner. By default, this request will only show image recipes owned by your account. To filter by a different owner, specify one of the `Valid Values` that are listed for this parameter.

Type: String

Valid Values: `Self | Shared | Amazon | ThirdParty | AWSMarketplace`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "imageRecipeSummaryList": [
      {
         "arn": "string",
         "dateCreated": "string",
```

```
            "name": "string",
            "owner": "string",
            "parentImage": "string",
            "platform": "string",
            "tags": {
               "string" : "string"
            }
         }
      ],
      "nextToken": "string",
      "requestId": "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.

imageRecipeSummaryList

A list of `ImageRecipeSummary` objects that contain identifying characteristics for the image recipe, such as the name, the Amazon Resource Name (ARN), and the date created, along with other key details.

Type: Array of ImageRecipeSummary objects

nextToken

The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidPaginationTokenException

You have provided an invalid pagination token in your request.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

Returns the list of images that you have access to. Newly created images can take up to two minutes to appear in the ListImages API Results.

Request Syntax

```
POST /ListImages HTTP/1.1
Content-type: application/json

{
   "byName": boolean,
   "filters": [
      {
         "name": "string",
         "values": [ "string" ]
      }
   ],
   "includeDeprecated": boolean,
   "maxResults": number,
   "nextToken": "string",
   "owner": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

byName

Requests a list of images with a specific recipe name.

Type: Boolean

Required: No

filters

Use the following filters to streamline results:

- `name`
- `osVersion`
- `platform`
- `type`
- `version`

Type: Array of Filter objects

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

Required: No

includeDeprecated

Includes deprecated images in the response list.

Type: Boolean

Required: No

maxResults

Specify the maximum number of items to return in a request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 25.

Required: No

nextToken

A token to specify where to start paginating. This is the nextToken from a previously truncated response.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

Required: No

owner

The owner defines which images you want to list. By default, this request will only show images owned by your account. You can use this field to specify if you want to view images owned by yourself, by Amazon, or those images that have been shared with you by other customers.

Type: String

Valid Values: `Self | Shared | Amazon | ThirdParty | AWSMarketplace`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "imageVersionList": [
      {
         "arn": "string",
         "buildType": "string",
         "dateCreated": "string",
         "imageSource": "string",
         "name": "string",
         "osVersion": "string",
         "owner": "string",
         "platform": "string",
         "type": "string",
         "version": "string"
      }
   ],
   "nextToken": "string",
   "requestId": "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.

imageVersionList

The list of image semantic versions.

> **Note**
>
> The semantic version has four nodes: <major>.<minor>.<patch>/<build>. You can assign values for the first three, and can filter on all of them.
> **Filtering:** With semantic versioning, you have the flexibility to use wildcards (x) to specify the most recent versions or nodes when selecting the base image or components for your recipe. When you use a wildcard in any node, all nodes to the right of the first wildcard must also be wildcards.

Type: Array of ImageVersion objects

nextToken

The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidPaginationTokenException

You have provided an invalid pagination token in your request.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

ListImageScanFindingAggregations

Returns a list of image scan aggregations for your account. You can filter by the type of key that Image Builder uses to group results. For example, if you want to get a list of findings by severity level for one of your pipelines, you might specify your pipeline with the `imagePipelineArn` filter. If you don't specify a filter, Image Builder returns an aggregation for your account.

To streamline results, you can use the following filters in your request:

- `accountId`
- `imageBuildVersionArn`
- `imagePipelineArn`
- `vulnerabilityId`

Request Syntax

```
POST /ListImageScanFindingAggregations HTTP/1.1
Content-type: application/json

{
   "filter": {
      "name": "string",
      "values": [ "string" ]
   },
   "nextToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

filter

A filter name and value pair that is used to return a more specific list of results from a list operation. Filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs.

Type: Filter object

Required: No

nextToken

A token to specify where to start paginating. This is the nextToken from a previously truncated response.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "aggregationType": "string",
   "nextToken": "string",
   "requestId": "string",
   "responses": [
      {
         "accountAggregation": {
            "accountId": "string",
            "severityCounts": {
               "all": number,
               "critical": number,
               "high": number,
               "medium": number
            }
         },
         "imageAggregation": {
            "imageBuildVersionArn": "string",
```

```
            "severityCounts": {
               "all": number,
               "critical": number,
               "high": number,
               "medium": number
            }
         },
         "imagePipelineAggregation": {
            "imagePipelineArn": "string",
            "severityCounts": {
               "all": number,
               "critical": number,
               "high": number,
               "medium": number
            }
         },
         "vulnerabilityIdAggregation": {
            "severityCounts": {
               "all": number,
               "critical": number,
               "high": number,
               "medium": number
            },
            "vulnerabilityId": "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.

aggregationType

The aggregation type specifies what type of key is used to group the image scan findings. Image Builder returns results based on the request filter. If you didn't specify a filter in the request, the type defaults to `accountId`.

Aggregation types

- accountId

- imageBuildVersionArn
- imagePipelineArn
- vulnerabilityId

Each aggregation includes counts by severity level for medium severity and higher level findings, plus a total for all of the findings for each key value.

Type: String

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

nextToken

The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

requestId

The request ID that uniquely identifies this request.

Type: String

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

responses

An array of image scan finding aggregations that match the filter criteria.

Type: Array of ImageScanFindingAggregation objects

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidPaginationTokenException

You have provided an invalid pagination token in your request.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

ListImageScanFindings

Returns a list of image scan findings for your account.

Request Syntax

```
POST /ListImageScanFindings HTTP/1.1
Content-type: application/json

{
   "filters": [
      {
         "name": "string",
         "values": [ "string" ]
      }
   ],
   "maxResults": number,
   "nextToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

filters

An array of name value pairs that you can use to filter your results. You can use the following filters to streamline results:

- `imageBuildVersionArn`
- `imagePipelineArn`
- `vulnerabilityId`
- `severity`

If you don't request a filter, then all findings in your account are listed.

Type: Array of ImageScanFindingsFilter objects

Array Members: Fixed number of 1 item.

Required: No

maxResults

Specify the maximum number of items to return in a request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 25.

Required: No

nextToken

A token to specify where to start paginating. This is the nextToken from a previously truncated response.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "findings": [
      {
         "awsAccountId": "string",
         "description": "string",
         "firstObservedAt": number,
         "fixAvailable": "string",
         "imageBuildVersionArn": "string",
         "imagePipelineArn": "string",
         "inspectorScore": number,
         "inspectorScoreDetails": {
            "adjustedCvss": {
               "adjustments": [
                  {
                     "metric": "string",
```

```
                "reason": "string"
            }
        ],
        "cvssSource": "string",
        "score": number,
        "scoreSource": "string",
        "scoringVector": "string",
        "version": "string"
    }
},
"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",
            "remediation": "string",
            "sourceLayerHash": "string",
            "version": "string"
        }
    ]
},
"remediation": {
    "recommendation": {
```

```
                "text": "string",
                "url": "string"
            }
        },
        "severity": "string",
        "title": "string",
        "type": "string",
        "updatedAt": number
    }
  ],
  "nextToken": "string",
  "requestId": "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.

findings

The image scan findings for your account that meet your request filter criteria.

Type: Array of ImageScanFinding objects

Array Members: Maximum number of 25 items.

nextToken

The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidPaginationTokenException

You have provided an invalid pagination token in your request.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

ListInfrastructureConfigurations

Returns a list of infrastructure configurations.

Request Syntax

```
POST /ListInfrastructureConfigurations HTTP/1.1
Content-type: application/json

{
   "filters": [
      {
         "name": "string",
         "values": [ "string" ]
      }
   ],
   "maxResults": number,
   "nextToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

filters

You can filter on name to streamline results.

Type: Array of Filter objects

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

Required: No

maxResults

Specify the maximum number of items to return in a request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 25.

Required: No

nextToken

A token to specify where to start paginating. This is the nextToken from a previously truncated response.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "infrastructureConfigurationSummaryList": [
      {
         "arn": "string",
         "dateCreated": "string",
         "dateUpdated": "string",
         "description": "string",
         "instanceProfileName": "string",
         "instanceTypes": [ "string" ],
         "name": "string",
         "placement": {
            "availabilityZone": "string",
            "hostId": "string",
            "hostResourceGroupArn": "string",
            "tenancy": "string"
         },
         "resourceTags": {
            "string" : "string"
         },
         "tags": {
            "string" : "string"
         }
      }
```

```
    ],
    "nextToken": "string",
    "requestId": "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.

infrastructureConfigurationSummaryList

The list of infrastructure configurations.

Type: Array of InfrastructureConfigurationSummary objects

nextToken

The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidPaginationTokenException

You have provided an invalid pagination token in your request.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

ListLifecycleExecutionResources

List resources that the runtime instance of the image lifecycle identified for lifecycle actions.

Request Syntax

```
POST /ListLifecycleExecutionResources HTTP/1.1
Content-type: application/json

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

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

lifecycleExecutionId

Use the unique identifier for a runtime instance of the lifecycle policy to get runtime details.

Type: String

Pattern: `^lce-[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

maxResults

Specify the maximum number of items to return in a request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 25.

Required: No

nextToken

A token to specify where to start paginating. This is the nextToken from a previously truncated response.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

Required: No

parentResourceId

You can leave this empty to get a list of Image Builder resources that were identified for lifecycle actions.

To get a list of associated resources that are impacted for an individual resource (the parent), specify its Amazon Resource Name (ARN). Associated resources are produced from your image and distributed when you run a build, such as AMIs or container images stored in ECR repositories.

Type: String

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

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "lifecycleExecutionId": "string",
   "lifecycleExecutionState": {
      "reason": "string",
      "status": "string"
   },
   "nextToken": "string",
   "resources": [
      {
         "accountId": "string",
```

```
            "action": {
               "name": "string",
               "reason": "string"
            },
            "endTime": number,
            "imageUris": [ "string" ],
            "region": "string",
            "resourceId": "string",
            "snapshots": [
               {
                  "snapshotId": "string",
                  "state": {
                     "reason": "string",
                     "status": "string"
                  }
               }
            ],
            "startTime": number,
            "state": {
               "reason": "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.

lifecycleExecutionId

Runtime details for the specified runtime instance of the lifecycle policy.

Type: String

Pattern: `^lce-[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}$`

lifecycleExecutionState

The current state of the lifecycle runtime instance.

Type: LifecycleExecutionState object

nextToken

The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

resources

A list of resources that were identified for lifecycle actions.

Type: Array of LifecycleExecutionResource objects

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidPaginationTokenException

You have provided an invalid pagination token in your request.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

ListLifecycleExecutions

Get the lifecycle runtime history for the specified resource.

Request Syntax

```
POST /ListLifecycleExecutions HTTP/1.1
Content-type: application/json

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

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

maxResults

Specify the maximum number of items to return in a request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 25.

Required: No

nextToken

A token to specify where to start paginating. This is the nextToken from a previously truncated response.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

Required: No

resourceArn

The Amazon Resource Name (ARN) of the resource for which to get a list of lifecycle runtime instances.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):(?:image-recipe|container-recipe|infrastructure-configuration|distribution-configuration|component|image|image-pipeline|lifecycle-policy|workflow\/(?:build|test|distribution))/[a-z0-9-_]+(?:/(?:(?:x|[0-9]+)\.(?:x|[0-9]+)\.(?:x|[0-9]+))(?:/[0-9]+)?)?$`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "lifecycleExecutions": [
      {
         "endTime": number,
         "lifecycleExecutionId": "string",
         "lifecyclePolicyArn": "string",
         "resourcesImpactedSummary": {
            "hasImpactedResources": boolean
         },
         "startTime": number,
         "state": {
            "reason": "string",
            "status": "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.

lifecycleExecutions

A list of lifecycle runtime instances for the specified resource.

Type: Array of LifecycleExecution objects

nextToken

The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidPaginationTokenException

You have provided an invalid pagination token in your request.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

ListLifecyclePolicies

Get a list of lifecycle policies in your AWS account.

Request Syntax

```
POST /ListLifecyclePolicies HTTP/1.1
Content-type: application/json

{
   "filters": [
      {
         "name": "string",
         "values": [ "string" ]
      }
   ],
   "maxResults": number,
   "nextToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

filters

Streamline results based on one of the following values: `Name`, `Status`.

Type: Array of Filter objects

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

Required: No

maxResults

Specify the maximum number of items to return in a request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 25.

Required: No

nextToken

A token to specify where to start paginating. This is the nextToken from a previously truncated response.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "lifecyclePolicySummaryList": [
      {
         "arn": "string",
         "dateCreated": number,
         "dateLastRun": number,
         "dateUpdated": number,
         "description": "string",
         "executionRole": "string",
         "name": "string",
         "resourceType": "string",
         "status": "string",
         "tags": {
            "string" : "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.

lifecyclePolicySummaryList

A list of lifecycle policies in your AWS account that meet the criteria specified in the request.

Type: Array of LifecyclePolicySummary objects

nextToken

The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidPaginationTokenException

You have provided an invalid pagination token in your request.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

Returns the list of tags for the specified resource.

Request Syntax

```
GET /tags/resourceArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn

The Amazon Resource Name (ARN) of the resource whose tags you want to retrieve.

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):(?:image-recipe|container-recipe|infrastructure-configuration|distribution-configuration|component|image|image-pipeline|lifecycle-policy|workflow\/(?:build|test|distribution))/[a-z0-9-_]+(?:/(?:(?:x|[0-9]+)\.(?:x|[0-9]+)\.(?:x|[0-9]+))(?:/[0-9]+)?)?$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "tags": {
      "string" : "string"
   }
}
```

Response Elements

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

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

tags

The tags for the specified resource.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: Maximum length of 256.

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.

HTTP Status Code: 400

ResourceNotFoundException

At least one of the resources referenced by your request does not exist.

HTTP Status Code: 404

ServiceException

This exception is thrown when the service encounters an unrecoverable 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

ListWaitingWorkflowSteps

Get a list of workflow steps that are waiting for action for workflows in your AWS account.

Request Syntax

```
POST /ListWaitingWorkflowSteps HTTP/1.1
Content-type: application/json

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

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

maxResults

Specify the maximum number of items to return in a request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 25.

Required: No

nextToken

A token to specify where to start paginating. This is the nextToken from a previously truncated response.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "nextToken": "string",
   "steps": [
      {
         "action": "string",
         "imageBuildVersionArn": "string",
         "name": "string",
         "startTime": "string",
         "stepExecutionId": "string",
         "workflowBuildVersionArn": "string",
         "workflowExecutionId": "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 next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

steps

An array of the workflow steps that are waiting for action in your AWS account.

Type: Array of WorkflowStepExecution objects

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidPaginationTokenException

You have provided an invalid pagination token in your request.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

ListWorkflowBuildVersions

Returns a list of build versions for a specific workflow resource.

Request Syntax

```
POST /ListWorkflowBuildVersions HTTP/1.1
Content-type: application/json

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

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

maxResults

Specify the maximum number of items to return in a request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 25.

Required: No

nextToken

A token to specify where to start paginating. This is the nextToken from a previously truncated response.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

Required: No

workflowVersionArn

The Amazon Resource Name (ARN) of the workflow resource for which to get a list of build versions.

Type: String

Pattern: `^arn:aws(?:-[a-z]+)*:imagebuilder:[a-z]{2,}(?:-[a-z]+)+-[0-9]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):workflow/(build|test|distribution)/[a-z0-9-_]+/(?:[0-9]+|x)\.(?:[0-9]+|x)\.(?:[0-9]+|x)$`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "nextToken": "string",
   "workflowSummaryList": [
      {
         "arn": "string",
         "changeDescription": "string",
         "dateCreated": "string",
         "description": "string",
         "name": "string",
         "owner": "string",
         "state": {
            "reason": "string",
            "status": "string"
         },
         "tags": {
            "string" : "string"
         },
         "type": "string",
         "version": "string"
      }
   ]
}
```

Response Elements

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

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

nextToken

The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

workflowSummaryList

A list that contains metadata for the workflow builds that have run for the workflow resource specified in the request.

Type: Array of WorkflowSummary objects

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidPaginationTokenException

You have provided an invalid pagination token in your request.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

ListWorkflowExecutions

Returns a list of workflow runtime instance metadata objects for a specific image build version.

Request Syntax

```
POST /ListWorkflowExecutions HTTP/1.1
Content-type: application/json

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

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

imageBuildVersionArn

List all workflow runtime instances for the specified image build version resource ARN.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):image/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+/[0-9]+$`

Required: Yes

maxResults

Specify the maximum number of items to return in a request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 25.

Required: No

nextToken

A token to specify where to start paginating. This is the nextToken from a previously truncated response.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "imageBuildVersionArn": "string",
   "message": "string",
   "nextToken": "string",
   "requestId": "string",
   "workflowExecutions": [
      {
         "endTime": "string",
         "message": "string",
         "parallelGroup": "string",
         "retried": boolean,
         "startTime": "string",
         "status": "string",
         "totalStepCount": number,
         "totalStepsFailed": number,
         "totalStepsSkipped": number,
         "totalStepsSucceeded": number,
         "type": "string",
         "workflowBuildVersionArn": "string",
         "workflowExecutionId": "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.

imageBuildVersionArn

The resource Amazon Resource Name (ARN) of the image build version for which you requested a list of workflow runtime details.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):image/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+/[0-9]+$`

message

The output message from the list action, if applicable.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

nextToken

The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

requestId

The request ID that uniquely identifies this request.

Type: String

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

workflowExecutions

Contains an array of runtime details that represents each time a workflow ran for the requested image build version.

Type: Array of WorkflowExecutionMetadata objects

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidPaginationTokenException

You have provided an invalid pagination token in your request.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

ListWorkflows

Lists workflow build versions based on filtering parameters.

Request Syntax

```
POST /ListWorkflows HTTP/1.1
Content-type: application/json

{
   "byName": boolean,
   "filters": [
      {
         "name": "string",
         "values": [ "string" ]
      }
   ],
   "maxResults": number,
   "nextToken": "string",
   "owner": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

byName

Specify all or part of the workflow name to streamline results.

Type: Boolean

Required: No

filters

Used to streamline search results.

Type: Array of Filter objects

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

Required: No

maxResults

Specify the maximum number of items to return in a request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 25.

Required: No

nextToken

A token to specify where to start paginating. This is the nextToken from a previously truncated response.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

Required: No

owner

Used to get a list of workflow build version filtered by the identity of the creator.

Type: String

Valid Values: `Self | Shared | Amazon | ThirdParty | AWSMarketplace`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "nextToken": "string",
   "workflowVersionList": [
      {
```

```
            "arn": "string",
            "dateCreated": "string",
            "description": "string",
            "name": "string",
            "owner": "string",
            "type": "string",
            "version": "string"
        }
    ]
}
```

Response Elements

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

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

nextToken

The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

workflowVersionList

A list of workflow build versions that match the request criteria.

Type: Array of WorkflowVersion objects

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidPaginationTokenException

You have provided an invalid pagination token in your request.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

ListWorkflowStepExecutions

Returns runtime data for each step in a runtime instance of the workflow that you specify in the request.

Request Syntax

```
POST /ListWorkflowStepExecutions HTTP/1.1
Content-type: application/json

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

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

maxResults

Specify the maximum number of items to return in a request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 25.

Required: No

nextToken

A token to specify where to start paginating. This is the nextToken from a previously truncated response.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

Required: No

workflowExecutionId

The unique identifier that Image Builder assigned to keep track of runtime details when it ran the workflow.

Type: String

Pattern: `^wf-[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

```
HTTP/1.1 200
Content-type: application/json

{
   "imageBuildVersionArn": "string",
   "message": "string",
   "nextToken": "string",
   "requestId": "string",
   "steps": [
      {
         "action": "string",
         "description": "string",
         "endTime": "string",
         "inputs": "string",
         "message": "string",
         "name": "string",
         "outputs": "string",
         "rollbackStatus": "string",
         "startTime": "string",
         "status": "string",
         "stepExecutionId": "string"
      }
   ],
   "workflowBuildVersionArn": "string",
   "workflowExecutionId": "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.

imageBuildVersionArn

The image build version resource Amazon Resource Name (ARN) that's associated with the specified runtime instance of the workflow.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):image/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+/[0-9]+$`

message

The output message from the list action, if applicable.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

nextToken

The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

requestId

The request ID that uniquely identifies this request.

Type: String

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

steps

Contains an array of runtime details that represents each step in this runtime instance of the workflow.

Type: Array of WorkflowStepMetadata objects

workflowBuildVersionArn

The build version Amazon Resource Name (ARN) for the Image Builder workflow resource that defines the steps for this runtime instance of the workflow.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: `^arn:aws(?:-[a-z]+)*:imagebuilder:[a-z]{2,}(?:-[a-z]+)+-[0-9]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):workflow/(build|test|distribution)/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+/[0-9]+$`

workflowExecutionId

The unique identifier that Image Builder assigned to keep track of runtime details when it ran the workflow.

Type: String

Pattern: `^wf-[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.

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidPaginationTokenException

You have provided an invalid pagination token in your request.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

PutComponentPolicy

Applies a policy to a component. We recommend that you call the RAM API CreateResourceShare to share resources. If you call the Image Builder API `PutComponentPolicy`, you must also call the RAM API PromoteResourceShareCreatedFromPolicy in order for the resource to be visible to all principals with whom the resource is shared.

Request Syntax

```
PUT /PutComponentPolicy HTTP/1.1
Content-type: application/json

{
   "componentArn": "string",
   "policy": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

componentArn

The Amazon Resource Name (ARN) of the component that this policy should be applied to.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):component/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+/[0-9]+$`

Required: Yes

policy

The policy to apply.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 30000.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "componentArn": "string",
   "requestId": "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.

componentArn

The Amazon Resource Name (ARN) of the component that this policy was applied to.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):component/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+/[0-9]+$`

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidParameterValueException

The value that you provided for the specified parameter is invalid.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ResourceNotFoundException

At least one of the resources referenced by your request does not exist.

HTTP Status Code: 404

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

PutContainerRecipePolicy

Applies a policy to a container image. We recommend that you call the RAM API CreateResourceShare (https://docs.aws.amazon.com//ram/latest/APIReference/API_CreateResourceShare.html) to share resources. If you call the Image Builder API `PutContainerImagePolicy`, you must also call the RAM API PromoteResourceShareCreatedFromPolicy (https://docs.aws.amazon.com//ram/latest/APIReference/API_PromoteResourceShareCreatedFromPolicy.html) in order for the resource to be visible to all principals with whom the resource is shared.

Request Syntax

```
PUT /PutContainerRecipePolicy HTTP/1.1
Content-type: application/json

{
   "containerRecipeArn": "string",
   "policy": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

containerRecipeArn

The Amazon Resource Name (ARN) of the container recipe that this policy should be applied to.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):container-recipe/[a-z0-9-_]+/(?:[0-9]+|x)\.(?:[0-9]+|x)\.(?:[0-9]+|x)$`

Required: Yes

policy

The policy to apply to the container recipe.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 30000.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "containerRecipeArn": "string",
   "requestId": "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.

containerRecipeArn

The Amazon Resource Name (ARN) of the container recipe that this policy was applied to.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):container-recipe/[a-z0-9-_]+/(?:[0-9]+|x)\.(?:[0-9]+|x)\.(?:[0-9]+|x)$`

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidParameterValueException

The value that you provided for the specified parameter is invalid.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ResourceNotFoundException

At least one of the resources referenced by your request does not exist.

HTTP Status Code: 404

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

PutImagePolicy

Applies a policy to an image. We recommend that you call the RAM API CreateResourceShare to share resources. If you call the Image Builder API `PutImagePolicy`, you must also call the RAM API PromoteResourceShareCreatedFromPolicy in order for the resource to be visible to all principals with whom the resource is shared.

Request Syntax

```
PUT /PutImagePolicy HTTP/1.1
Content-type: application/json

{
   "imageArn": "string",
   "policy": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

imageArn

The Amazon Resource Name (ARN) of the image that this policy should be applied to.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):image/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+/[0-9]+$`

Required: Yes

policy

The policy to apply.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 30000.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "imageArn": "string",
   "requestId": "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.

imageArn

The Amazon Resource Name (ARN) of the image that this policy was applied to.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):image/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+/[0-9]+$`

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidParameterValueException

The value that you provided for the specified parameter is invalid.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ResourceNotFoundException

At least one of the resources referenced by your request does not exist.

HTTP Status Code: 404

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

PutImageRecipePolicy

Applies a policy to an image recipe. We recommend that you call the RAM API CreateResourceShare to share resources. If you call the Image Builder API `PutImageRecipePolicy`, you must also call the RAM API PromoteResourceShareCreatedFromPolicy in order for the resource to be visible to all principals with whom the resource is shared.

Request Syntax

```
PUT /PutImageRecipePolicy HTTP/1.1
Content-type: application/json

{
   "imageRecipeArn": "string",
   "policy": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

imageRecipeArn

The Amazon Resource Name (ARN) of the image recipe that this policy should be applied to.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):image-recipe/[a-z0-9-_]+/(?:[0-9]+|x)\.(?:[0-9]+|x)\.(?:[0-9]+|x)$`

Required: Yes

policy

The policy to apply.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 30000.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "imageRecipeArn": "string",
   "requestId": "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.

imageRecipeArn

The Amazon Resource Name (ARN) of the image recipe that this policy was applied to.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):image-recipe/[a-z0-9-_]+/(?:[0-9]+|x)\.(?:[0-9]+|x)\.(?:[0-9]+|x)$`

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

InvalidParameterValueException

The value that you provided for the specified parameter is invalid.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ResourceNotFoundException

At least one of the resources referenced by your request does not exist.

HTTP Status Code: 404

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

RetryImage

RetryImage retries an image distribution without rebuilding the image.

Request Syntax

```
PUT /RetryImage HTTP/1.1
Content-type: application/json

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

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

clientToken

Unique, case-sensitive identifier you provide to ensure idempotency of the request. For more information, see Ensuring idempotency in the *Amazon EC2 API Reference*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Required: Yes

imageBuildVersionArn

The source image Amazon Resource Name (ARN) to retry.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):image/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+/[0-9]+$`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "clientToken": "string",
   "imageBuildVersionArn": "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.

clientToken

The client token that uniquely identifies the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

imageBuildVersionArn

The ARN of the image to be retried.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):image/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+/[0-9]+$`

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

IdempotentParameterMismatchException

You have specified a client token for an operation using parameter values that differ from a previous request that used the same client token.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ResourceInUseException

The resource that you are trying to operate on is currently in use. Review the message details and retry later.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

SendWorkflowStepAction

Pauses or resumes image creation when the associated workflow runs a `WaitForAction` step.

Request Syntax

```
PUT /SendWorkflowStepAction HTTP/1.1
Content-type: application/json

{
   "action": "string",
   "clientToken": "string",
   "imageBuildVersionArn": "string",
   "reason": "string",
   "stepExecutionId": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

action

The action for the image creation process to take while a workflow `WaitForAction` step waits for an asynchronous action to complete.

Type: String

Valid Values: `RESUME` | `STOP`

Required: Yes

clientToken

Unique, case-sensitive identifier you provide to ensure idempotency of the request. For more information, see Ensuring idempotency in the *Amazon EC2 API Reference*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Required: Yes

imageBuildVersionArn

The Amazon Resource Name (ARN) of the image build version to send action for.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):image/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+/[0-9]+$`

Required: Yes

reason

The reason why this action is sent.

Type: String

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

Required: No

stepExecutionId

Uniquely identifies the workflow step that sent the step action.

Type: String

Pattern: `^step-[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

```
HTTP/1.1 200
Content-type: application/json

{
   "clientToken": "string",
   "imageBuildVersionArn": "string",
```

```
    "stepExecutionId": "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.

clientToken

The client token that uniquely identifies the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

imageBuildVersionArn

The Amazon Resource Name (ARN) of the image build version that received the action request.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):image/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+/[0-9]+$`

stepExecutionId

The workflow step that sent the step action.

Type: String

Pattern: `^step-[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.

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

IdempotentParameterMismatchException

You have specified a client token for an operation using parameter values that differ from a previous request that used the same client token.

HTTP Status Code: 400

InvalidParameterValueException

The value that you provided for the specified parameter is invalid.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ResourceInUseException

The resource that you are trying to operate on is currently in use. Review the message details and retry later.

HTTP Status Code: 400

ResourceNotFoundException

At least one of the resources referenced by your request does not exist.

HTTP Status Code: 404

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

StartImagePipelineExecution

Manually triggers a pipeline to create an image.

Request Syntax

```
PUT /StartImagePipelineExecution HTTP/1.1
Content-type: application/json

{
   "clientToken": "string",
   "imagePipelineArn": "string",
   "tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

clientToken

Unique, case-sensitive identifier you provide to ensure idempotency of the request. For more information, see Ensuring idempotency in the *Amazon EC2 API Reference*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Required: Yes

imagePipelineArn

The Amazon Resource Name (ARN) of the image pipeline that you want to manually invoke.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):image-pipeline/[a-z0-9-_]+$`

Required: Yes

tags

Specify tags for Image Builder to apply to the image resource that's created When it starts pipeline execution.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "clientToken": "string",
   "imageBuildVersionArn": "string",
   "requestId": "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.

clientToken

The client token that uniquely identifies the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

imageBuildVersionArn

The Amazon Resource Name (ARN) of the image that the request created.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):image/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+/[0-9]+$`

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

IdempotentParameterMismatchException

You have specified a client token for an operation using parameter values that differ from a previous request that used the same client token.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ResourceInUseException

The resource that you are trying to operate on is currently in use. Review the message details and retry later.

HTTP Status Code: 400

ResourceNotFoundException

At least one of the resources referenced by your request does not exist.

HTTP Status Code: 404

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

StartResourceStateUpdate

Begin asynchronous resource state update for lifecycle changes to the specified image resources.

Request Syntax

```
PUT /StartResourceStateUpdate HTTP/1.1
Content-type: application/json

{
   "clientToken": "string",
   "exclusionRules": {
      "amis": {
         "isPublic": boolean,
         "lastLaunched": {
            "unit": "string",
            "value": number
         },
         "regions": [ "string" ],
         "sharedAccounts": [ "string" ],
         "tagMap": {
            "string" : "string"
         }
      }
   },
   "executionRole": "string",
   "includeResources": {
      "amis": boolean,
      "containers": boolean,
      "snapshots": boolean
   },
   "resourceArn": "string",
   "state": {
      "status": "string"
   },
   "updateAt": number
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

clientToken

Unique, case-sensitive identifier you provide to ensure idempotency of the request. For more information, see Ensuring idempotency in the *Amazon EC2 API Reference*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Required: Yes

exclusionRules

Skip action on the image resource and associated resources if specified exclusion rules are met.

Type: ResourceStateUpdateExclusionRules object

Required: No

executionRole

The name or Amazon Resource Name (ARN) of the IAM role that's used to update image state.

Type: String

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

Pattern: `^(?:arn:aws(?:-[a-z]+)*:iam::[0-9]{12}:role/)?[a-zA-Z_0-9+=,.@\-_/]+$`

Required: No

includeResources

A list of image resources to update state for.

Type: ResourceStateUpdateIncludeResources object

Required: No

resourceArn

The Amazon Resource Name (ARN) of the Image Builder resource that is updated. The state update might also impact associated resources.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):image/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+/[0-9]+$`

Required: Yes

state

Indicates the lifecycle action to take for this request.

Type: ResourceState object

Required: Yes

updateAt

The timestamp that indicates when resources are updated by a lifecycle action.

Type: Timestamp

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "lifecycleExecutionId": "string",
   "resourceArn": "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.

lifecycleExecutionId

Identifies the lifecycle runtime instance that started the resource state update.

Type: String

Pattern: `^lce-[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}$`

resourceArn

The requested Amazon Resource Name (ARN) of the Image Builder resource for the asynchronous update.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):image/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+/[0-9]+$`

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

IdempotentParameterMismatchException

You have specified a client token for an operation using parameter values that differ from a previous request that used the same client token.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ResourceInUseException

The resource that you are trying to operate on is currently in use. Review the message details and retry later.

HTTP Status Code: 400

ResourceNotFoundException

At least one of the resources referenced by your request does not exist.

HTTP Status Code: 404

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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 a tag to a resource.

Request Syntax

```
POST /tags/resourceArn HTTP/1.1
Content-type: application/json

{
   "tags": {
      "string" : "string"
   }
}
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn

The Amazon Resource Name (ARN) of the resource that you want to tag.

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):(?:image-recipe|container-recipe|infrastructure-configuration|distribution-configuration|component|image|image-pipeline|lifecycle-policy|workflow\/(?:build|test|distribution))/[a-z0-9-_]+(?:/(?:(?:x|[0-9]+)\.(?:x|[0-9]+)\.(?:x|[0-9]+))(?:/[0-9]+)?)?$`

Required: Yes

Request Body

The request accepts the following data in JSON format.

tags

The tags to apply to the resource.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: Maximum length of 256.

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

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

InvalidParameterException

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

HTTP Status Code: 400

ResourceNotFoundException

At least one of the resources referenced by your request does not exist.

HTTP Status Code: 404

ServiceException

This exception is thrown when the service encounters an unrecoverable 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

UntagResource

Removes a tag from a resource.

Request Syntax

```
DELETE /tags/resourceArn?tagKeys=tagKeys HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

resourceArn

The Amazon Resource Name (ARN) of the resource that you want to untag.

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):(?:image-recipe|container-recipe|infrastructure-configuration|distribution-configuration|component|image|image-pipeline|lifecycle-policy|workflow\/(?:build|test|distribution))/[a-z0-9-_]+(?:/(?:(?:x|[0-9]+)\.(?:x|[0-9]+)\.(?:x|[0-9]+))(?:/[0-9]+)?)?$`

Required: Yes

tagKeys

The tag keys to remove from the resource.

Array Members: Minimum number of 1 item. Maximum number of 50 items.

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

Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

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

InvalidParameterException

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

HTTP Status Code: 400

ResourceNotFoundException

At least one of the resources referenced by your request does not exist.

HTTP Status Code: 404

ServiceException

This exception is thrown when the service encounters an unrecoverable 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

UpdateDistributionConfiguration

Updates a new distribution configuration. Distribution configurations define and configure the outputs of your pipeline.

Request Syntax

```
PUT /UpdateDistributionConfiguration HTTP/1.1
Content-type: application/json

{
   "clientToken": "string",
   "description": "string",
   "distributionConfigurationArn": "string",
   "distributions": [
      {
         "amiDistributionConfiguration": {
            "amiTags": {
               "string" : "string"
            },
            "description": "string",
            "kmsKeyId": "string",
            "launchPermission": {
               "organizationalUnitArns": [ "string" ],
               "organizationArns": [ "string" ],
               "userGroups": [ "string" ],
               "userIds": [ "string" ]
            },
            "name": "string",
            "targetAccountIds": [ "string" ]
         },
         "containerDistributionConfiguration": {
            "containerTags": [ "string" ],
            "description": "string",
            "targetRepository": {
               "repositoryName": "string",
               "service": "string"
            }
         },
         "fastLaunchConfigurations": [
            {
               "accountId": "string",
               "enabled": boolean,
```

```
                "launchTemplate": {
                   "launchTemplateId": "string",
                   "launchTemplateName": "string",
                   "launchTemplateVersion": "string"
                },
                "maxParallelLaunches": number,
                "snapshotConfiguration": {
                   "targetResourceCount": number
                }
             }
          ],
          "launchTemplateConfigurations": [
             {
                "accountId": "string",
                "launchTemplateId": "string",
                "setDefaultVersion": boolean
             }
          ],
          "licenseConfigurationArns": [ "string" ],
          "region": "string",
          "s3ExportConfiguration": {
             "diskImageFormat": "string",
             "roleName": "string",
             "s3Bucket": "string",
             "s3Prefix": "string"
          },
          "ssmParameterConfigurations": [
             {
                "amiAccountId": "string",
                "dataType": "string",
                "parameterName": "string"
             }
          ]
       }
    ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

clientToken

Unique, case-sensitive identifier you provide to ensure idempotency of the request. For more information, see Ensuring idempotency in the *Amazon EC2 API Reference*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Required: Yes

description

The description of the distribution configuration.

Type: String

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

Required: No

distributionConfigurationArn

The Amazon Resource Name (ARN) of the distribution configuration that you want to update.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):distribution-configuration/[a-z0-9-_]+$`

Required: Yes

distributions

The distributions of the distribution configuration.

Type: Array of Distribution objects

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "clientToken": "string",
   "distributionConfigurationArn": "string",
   "requestId": "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.

clientToken

The client token that uniquely identifies the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

distributionConfigurationArn

The Amazon Resource Name (ARN) of the distribution configuration that was updated by this request.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):distribution-configuration/[a-z0-9-_]+$`

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

IdempotentParameterMismatchException

You have specified a client token for an operation using parameter values that differ from a previous request that used the same client token.

HTTP Status Code: 400

InvalidParameterCombinationException

You have specified two or more mutually exclusive parameters. Review the error message for details.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ResourceInUseException

The resource that you are trying to operate on is currently in use. Review the message details and retry later.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

UpdateImagePipeline

Updates an image pipeline. Image pipelines enable you to automate the creation and distribution of images. You must specify exactly one recipe for your image, using either a `containerRecipeArn` or an `imageRecipeArn`.

> **Note**
>
> UpdateImagePipeline does not support selective updates for the pipeline. You must specify all of the required properties in the update request, not just the properties that have changed.

Request Syntax

```
PUT /UpdateImagePipeline HTTP/1.1
Content-type: application/json

{
   "clientToken": "string",
   "containerRecipeArn": "string",
   "description": "string",
   "distributionConfigurationArn": "string",
   "enhancedImageMetadataEnabled": boolean,
   "executionRole": "string",
   "imagePipelineArn": "string",
   "imageRecipeArn": "string",
   "imageScanningConfiguration": {
      "ecrConfiguration": {
         "containerTags": [ "string" ],
         "repositoryName": "string"
      },
      "imageScanningEnabled": boolean
   },
   "imageTestsConfiguration": {
      "imageTestsEnabled": boolean,
      "timeoutMinutes": number
   },
   "infrastructureConfigurationArn": "string",
   "loggingConfiguration": {
      "imageLogGroupName": "string",
```

```
        "pipelineLogGroupName": "string"
    },
    "schedule": {
        "autoDisablePolicy": {
            "failureCount": number
        },
        "pipelineExecutionStartCondition": "string",
        "scheduleExpression": "string",
        "timezone": "string"
    },
    "status": "string",
    "workflows": [
        {
            "onFailure": "string",
            "parallelGroup": "string",
            "parameters": [
                {
                    "name": "string",
                    "value": [ "string" ]
                }
            ],
            "workflowArn": "string"
        }
    ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

clientToken

Unique, case-sensitive identifier you provide to ensure idempotency of the request. For more information, see Ensuring idempotency in the *Amazon EC2 API Reference*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Required: Yes

containerRecipeArn

The Amazon Resource Name (ARN) of the container pipeline to update.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):container-recipe/[a-z0-9-_]+/(?:[0-9]+|x)\.(?:[0-9]+|x)\.(?:[0-9]+|x)$`

Required: No

description

The description of the image pipeline.

Type: String

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

Required: No

distributionConfigurationArn

The Amazon Resource Name (ARN) of the distribution configuration that Image Builder uses to configure and distribute images that this image pipeline has updated.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):distribution-configuration/[a-z0-9-_]+$`

Required: No

enhancedImageMetadataEnabled

Collects additional information about the image being created, including the operating system (OS) version and package list. This information is used to enhance the overall experience of using EC2 Image Builder. Enabled by default.

Type: Boolean

Required: No

executionRole

The name or Amazon Resource Name (ARN) for the IAM role you create that grants Image Builder access to perform workflow actions.

Type: String

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

Pattern: `^(?:arn:aws(?:-[a-z]+)*:iam::[0-9]{12}:role/)?[a-zA-Z_0-9+=,.@\-_/]+$`

Required: No

imagePipelineArn

The Amazon Resource Name (ARN) of the image pipeline that you want to update.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):image-pipeline/[a-z0-9-_]+$`

Required: Yes

imageRecipeArn

The Amazon Resource Name (ARN) of the image recipe that will be used to configure images updated by this image pipeline.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):image-recipe/[a-z0-9-_]+/(?:[0-9]+|x)\.(?:[0-9]+|x)\.(?:[0-9]+|x)$`

Required: No

imageScanningConfiguration

Contains settings for vulnerability scans.

Type: ImageScanningConfiguration object

Required: No

imageTestsConfiguration

The image test configuration of the image pipeline.

Type: ImageTestsConfiguration object

Required: No

infrastructureConfigurationArn

The Amazon Resource Name (ARN) of the infrastructure configuration that Image Builder uses to build images that this image pipeline has updated.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):infrastructure-configuration/[a-z0-9-_]+$`

Required: Yes

loggingConfiguration

Update logging configuration for the output image that's created when the pipeline runs.

Type: PipelineLoggingConfiguration object

Required: No

schedule

The schedule of the image pipeline.

Type: Schedule object

Required: No

status

The status of the image pipeline.

Type: String

Valid Values: `DISABLED | ENABLED`

Required: No

workflows

Contains the workflows to run for the pipeline.

Type: Array of WorkflowConfiguration objects

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "clientToken": "string",
   "imagePipelineArn": "string",
   "requestId": "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.

clientToken

The client token that uniquely identifies the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

imagePipelineArn

The Amazon Resource Name (ARN) of the image pipeline that was updated by this request.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):image-pipeline/[a-z0-9-_]+$`

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

IdempotentParameterMismatchException

You have specified a client token for an operation using parameter values that differ from a previous request that used the same client token.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ResourceInUseException

The resource that you are trying to operate on is currently in use. Review the message details and retry later.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

UpdateInfrastructureConfiguration

Updates a new infrastructure configuration. An infrastructure configuration defines the environment in which your image will be built and tested.

Request Syntax

```
PUT /UpdateInfrastructureConfiguration HTTP/1.1
Content-type: application/json

{
   "clientToken": "string",
   "description": "string",
   "infrastructureConfigurationArn": "string",
   "instanceMetadataOptions": {
      "httpPutResponseHopLimit": number,
      "httpTokens": "string"
   },
   "instanceProfileName": "string",
   "instanceTypes": [ "string" ],
   "keyPair": "string",
   "logging": {
      "s3Logs": {
         "s3BucketName": "string",
         "s3KeyPrefix": "string"
      }
   },
   "placement": {
      "availabilityZone": "string",
      "hostId": "string",
      "hostResourceGroupArn": "string",
      "tenancy": "string"
   },
   "resourceTags": {
      "string" : "string"
   },
   "securityGroupIds": [ "string" ],
   "snsTopicArn": "string",
   "subnetId": "string",
   "terminateInstanceOnFailure": boolean
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

clientToken

Unique, case-sensitive identifier you provide to ensure idempotency of the request. For more information, see Ensuring idempotency in the *Amazon EC2 API Reference*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Required: Yes

description

The description of the infrastructure configuration.

Type: String

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

Required: No

infrastructureConfigurationArn

The Amazon Resource Name (ARN) of the infrastructure configuration that you want to update.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):infrastructure-configuration/[a-z0-9-_]+$`

Required: Yes

instanceMetadataOptions

The instance metadata options that you can set for the HTTP requests that pipeline builds use to launch EC2 build and test instances. For more information about instance metadata options, see one of the following links:

- Configure the instance metadata options in the Amazon EC2 User Guide for Linux instances.
- Configure the instance metadata options in the Amazon EC2 Windows Guide for Windows instances.

Type: InstanceMetadataOptions object

Required: No

instanceProfileName

The instance profile to associate with the instance used to customize your Amazon EC2 AMI.

Type: String

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

Pattern: `^[\w+=,.@-]+$`

Required: Yes

instanceTypes

The instance types of the infrastructure configuration. You can specify one or more instance types to use for this build. The service will pick one of these instance types based on availability.

Type: Array of strings

Required: No

keyPair

The key pair of the infrastructure configuration. You can use this to log on to and debug the instance used to create your image.

Type: String

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

Required: No

logging

The logging configuration of the infrastructure configuration.

Type: Logging object

Required: No

placement

The instance placement settings that define where the instances that are launched from your image will run.

Type: Placement object

Required: No

resourceTags

The tags attached to the resource created by Image Builder.

Type: String to string map

Map Entries: Maximum number of 30 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: Maximum length of 256.

Required: No

securityGroupIds

The security group IDs to associate with the instance used to customize your Amazon EC2 AMI.

Type: Array of strings

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

Required: No

snsTopicArn

The Amazon Resource Name (ARN) for the SNS topic to which we send image build event notifications.

> **Note**
>
> EC2 Image Builder is unable to send notifications to SNS topics that are encrypted using keys from other accounts. The key that is used to encrypt the SNS topic must reside in the account that the Image Builder service runs under.

Type: String

Pattern: `^arn:aws[^:]*:sns:[^:]+:[0-9]{12}:[a-zA-Z0-9-_]{1,256}$`

Required: No

subnetId

The subnet ID to place the instance used to customize your Amazon EC2 AMI in.

Type: String

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

Required: No

terminateInstanceOnFailure

The terminate instance on failure setting of the infrastructure configuration. Set to false if you want Image Builder to retain the instance used to configure your AMI if the build or test phase of your workflow fails.

Type: Boolean

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "clientToken": "string",
   "infrastructureConfigurationArn": "string",
   "requestId": "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.

clientToken

The client token that uniquely identifies the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

infrastructureConfigurationArn

The Amazon Resource Name (ARN) of the infrastructure configuration that was updated by this request.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):infrastructure-configuration/[a-z0-9-_]+$`

requestId

The request ID that uniquely identifies this request.

Type: String

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

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

IdempotentParameterMismatchException

You have specified a client token for an operation using parameter values that differ from a previous request that used the same client token.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ResourceInUseException

The resource that you are trying to operate on is currently in use. Review the message details and retry later.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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

UpdateLifecyclePolicy

Update the specified lifecycle policy.

Request Syntax

```
PUT /UpdateLifecyclePolicy HTTP/1.1
Content-type: application/json

{
   "clientToken": "string",
   "description": "string",
   "executionRole": "string",
   "lifecyclePolicyArn": "string",
   "policyDetails": [
      {
         "action": {
            "includeResources": {
               "amis": boolean,
               "containers": boolean,
               "snapshots": boolean
            },
            "type": "string"
         },
         "exclusionRules": {
            "amis": {
               "isPublic": boolean,
               "lastLaunched": {
                  "unit": "string",
                  "value": number
               },
               "regions": [ "string" ],
               "sharedAccounts": [ "string" ],
               "tagMap": {
                  "string" : "string"
               }
            },
            "tagMap": {
               "string" : "string"
            }
         },
         "filter": {
            "retainAtLeast": number,
```

```
            "type": "string",
            "unit": "string",
            "value": number
         }
      }
   ],
   "resourceSelection": {
      "recipes": [
         {
            "name": "string",
            "semanticVersion": "string"
         }
      ],
      "tagMap": {
         "string" : "string"
      }
   },
   "resourceType": "string",
   "status": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

clientToken

Unique, case-sensitive identifier you provide to ensure idempotency of the request. For more information, see Ensuring idempotency in the *Amazon EC2 API Reference*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Required: Yes

description

Optional description for the lifecycle policy.

Type: String

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

Required: No

executionRole

The name or Amazon Resource Name (ARN) of the IAM role that Image Builder uses to update the lifecycle policy.

Type: String

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

Pattern: `^(?:arn:aws(?:-[a-z]+)*:iam::[0-9]{12}:role/)?[a-zA-Z_0-9+=,.@\-_/]+$`

Required: Yes

lifecyclePolicyArn

The Amazon Resource Name (ARN) of the lifecycle policy resource.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: `^arn:aws(?:-[a-z]+)*:imagebuilder:[a-z]{2,}(?:-[a-z]+)+-[0-9]+:(?:[0-9]{12}|aws):lifecycle-policy/[a-z0-9-_]+$`

Required: Yes

policyDetails

The configuration details for a lifecycle policy resource.

Type: Array of LifecyclePolicyDetail objects

Array Members: Minimum number of 1 item. Maximum number of 3 items.

Required: Yes

resourceSelection

Selection criteria for resources that the lifecycle policy applies to.

Type: LifecyclePolicyResourceSelection object

Required: Yes

resourceType

The type of image resource that the lifecycle policy applies to.

Type: String

Valid Values: `AMI_IMAGE | CONTAINER_IMAGE`

Required: Yes

status

Indicates whether the lifecycle policy resource is enabled.

Type: String

Valid Values: `DISABLED | ENABLED`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "lifecyclePolicyArn": "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.

lifecyclePolicyArn

The Amazon Resource Name (ARN) of the image lifecycle policy resource that was updated.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: `^arn:aws(?:-[a-z]+)*:imagebuilder:[a-z]{2,}(?:-[a-z]+)+-[0-9]+:(?:[0-9]{12}|aws):lifecycle-policy/[a-z0-9-_]+$`

Errors

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

CallRateLimitExceededException

You have exceeded the permitted request rate for the specific operation.

HTTP Status Code: 429

ClientException

These errors are usually caused by a client action, such as using an action or resource on behalf of a user that doesn't have permissions to use the action or resource, or specifying an invalid resource identifier.

HTTP Status Code: 400

ForbiddenException

You are not authorized to perform the requested operation.

HTTP Status Code: 403

IdempotentParameterMismatchException

You have specified a client token for an operation using parameter values that differ from a previous request that used the same client token.

HTTP Status Code: 400

InvalidParameterCombinationException

You have specified two or more mutually exclusive parameters. Review the error message for details.

HTTP Status Code: 400

InvalidRequestException

You have requested an action that that the service doesn't support.

HTTP Status Code: 400

ResourceInUseException

The resource that you are trying to operate on is currently in use. Review the message details and retry later.

HTTP Status Code: 400

ServiceException

This exception is thrown when the service encounters an unrecoverable exception.

HTTP Status Code: 500

ServiceUnavailableException

The service is unable to process your request at this time.

HTTP Status Code: 503

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 EC2 Image Builder 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:

- AccountAggregation
- AdditionalInstanceConfiguration
- Ami
- AmiDistributionConfiguration
- AutoDisablePolicy
- Component
- ComponentConfiguration
- ComponentParameter
- ComponentParameterDetail
- ComponentState
- ComponentSummary
- ComponentVersion
- Container
- ContainerDistributionConfiguration
- ContainerRecipe
- ContainerRecipeSummary
- CvssScore
- CvssScoreAdjustment
- CvssScoreDetails
- Distribution

- DistributionConfiguration
- DistributionConfigurationSummary
- EbsInstanceBlockDeviceSpecification
- EcrConfiguration
- FastLaunchConfiguration
- FastLaunchLaunchTemplateSpecification
- FastLaunchSnapshotConfiguration
- Filter
- Image
- ImageAggregation
- ImageLoggingConfiguration
- ImagePackage
- ImagePipeline
- ImagePipelineAggregation
- ImageRecipe
- ImageRecipeSummary
- ImageScanFinding
- ImageScanFindingAggregation
- ImageScanFindingsFilter
- ImageScanningConfiguration
- ImageScanState
- ImageState
- ImageSummary
- ImageTestsConfiguration
- ImageVersion
- InfrastructureConfiguration
- InfrastructureConfigurationSummary
- InspectorScoreDetails
- InstanceBlockDeviceMapping
- InstanceConfiguration

- InstanceMetadataOptions
- LatestVersionReferences
- LaunchPermissionConfiguration
- LaunchTemplateConfiguration
- LifecycleExecution
- LifecycleExecutionResource
- LifecycleExecutionResourceAction
- LifecycleExecutionResourcesImpactedSummary
- LifecycleExecutionResourceState
- LifecycleExecutionSnapshotResource
- LifecycleExecutionState
- LifecyclePolicy
- LifecyclePolicyDetail
- LifecyclePolicyDetailAction
- LifecyclePolicyDetailActionIncludeResources
- LifecyclePolicyDetailExclusionRules
- LifecyclePolicyDetailExclusionRulesAmis
- LifecyclePolicyDetailExclusionRulesAmisLastLaunched
- LifecyclePolicyDetailFilter
- LifecyclePolicyResourceSelection
- LifecyclePolicyResourceSelectionRecipe
- LifecyclePolicySummary
- Logging
- OutputResources
- PackageVulnerabilityDetails
- PipelineLoggingConfiguration
- Placement
- ProductCodeListItem
- Remediation
- RemediationRecommendation

- ResourceState
- ResourceStateUpdateExclusionRules
- ResourceStateUpdateIncludeResources
- S3ExportConfiguration
- S3Logs
- Schedule
- SeverityCounts
- SsmParameterConfiguration
- SystemsManagerAgent
- TargetContainerRepository
- VulnerabilityIdAggregation
- VulnerablePackage
- Workflow
- WorkflowConfiguration
- WorkflowExecutionMetadata
- WorkflowParameter
- WorkflowParameterDetail
- WorkflowState
- WorkflowStepExecution
- WorkflowStepMetadata
- WorkflowSummary
- WorkflowVersion

AccountAggregation

Contains counts of vulnerability findings from image scans that run when you create new Image Builder images, or build new versions of existing images. The vulnerability counts are grouped by severity level. The counts are aggregated across resources to create the final tally for the account that owns them.

Contents

accountId

Identifies the account that owns the aggregated resource findings.

Type: String

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

Required: No

severityCounts

Counts by severity level for medium severity and higher level findings, plus a total for all of the findings.

Type: SeverityCounts 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

AdditionalInstanceConfiguration

In addition to your infrastructure configuration, these settings provide an extra layer of control over your build instances. You can also specify commands to run on launch for all of your build instances.

Image Builder does not automatically install the Systems Manager agent on Windows instances. If your base image includes the Systems Manager agent, then the AMI that you create will also include the agent. For Linux instances, if the base image does not already include the Systems Manager agent, Image Builder installs it. For Linux instances where Image Builder installs the Systems Manager agent, you can choose whether to keep it for the AMI that you create.

Contents

systemsManagerAgent

Contains settings for the Systems Manager agent on your build instance.

Type: SystemsManagerAgent object

Required: No

userDataOverride

Use this property to provide commands or a command script to run when you launch your build instance.

The userDataOverride property replaces any commands that Image Builder might have added to ensure that Systems Manager is installed on your Linux build instance. If you override the user data, make sure that you add commands to install Systems Manager, if it is not pre-installed on your base image.

> **Note**
>
> The user data is always base 64 encoded. For example, the following commands are encoded as `IyEvYmluL2Jhc2gKbWtkaXIgLXAgL3Zhci9iYi8KdG91Y2ggL3Zhci$`:
> *#!/bin/bash*
> mkdir -p /var/bb/
> touch /var

Type: String

Length Constraints: Minimum length of 1. Maximum length of 21847.

Pattern: `^(?:[A-Za-z0-9+/]{4})*(?:[A-Za-z0-9+/]{2}==|[A-Za-z0-9+/]{3}=)?$`

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

Ami

Details of an Amazon EC2 AMI.

Contents

accountId

The account ID of the owner of the AMI.

Type: String

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

Required: No

description

The description of the Amazon EC2 AMI. Minimum and maximum length are in characters.

Type: String

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

Required: No

image

The AMI ID of the Amazon EC2 AMI.

Type: String

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

Required: No

name

The name of the Amazon EC2 AMI.

Type: String

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

Required: No

region

The AWS Region of the Amazon EC2 AMI.

Type: String

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

Required: No

state

Image status and the reason for that status.

Type: ImageState 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

AmiDistributionConfiguration

Define and configure the output AMIs of the pipeline.

Contents

amiTags

The tags to apply to AMIs distributed to this Region.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: Maximum length of 256.

Required: No

description

The description of the AMI distribution configuration. Minimum and maximum length are in characters.

Type: String

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

Required: No

kmsKeyId

The Amazon Resource Name (ARN) that uniquely identifies the KMS key used to encrypt the distributed image. This can be either the Key ARN or the Alias ARN. For more information, see Key identifiers (KeyId) in the *AWS Key Management Service Developer Guide*.

Type: String

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

Required: No

launchPermission

Launch permissions can be used to configure which AWS accounts can use the AMI to launch instances.

Type: LaunchPermissionConfiguration object

Required: No

name

The name of the output AMI.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 127.

Pattern: `^[-_A-Za-z0-9{][-_A-Za-z0-9\s:{}\.]+[-_A-Za-z0-9}]$`

Required: No

targetAccountIds

The ID of an account to which you want to distribute an image.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 1536 items.

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

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

AutoDisablePolicy

Defines the rules by which an image pipeline is automatically disabled when it fails.

Contents

failureCount

The number of consecutive scheduled image pipeline executions that must fail before Image Builder automatically disables the pipeline.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10.

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

Component

A detailed view of a component.

Contents

arn

The Amazon Resource Name (ARN) of the component.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):(?:image-recipe|container-recipe|infrastructure-configuration|distribution-configuration|component|image|image-pipeline|lifecycle-policy|workflow\/(?:build|test|distribution))/[a-z0-9-_]+(?:/(?:(?:x|[0-9]+)\.(?:x|[0-9]+)\.(?:x|[0-9]+))(?:/[0-9]+)?)?$`

Required: No

changeDescription

Describes what change has been made in this version of the component, or what makes this version different from other versions of the component.

Type: String

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

Required: No

data

Component data contains the YAML document content for the component.

Type: String

Required: No

dateCreated

The date that Image Builder created the component.

Type: String

Required: No

description

The description of the component.

Type: String

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

Required: No

encrypted

The encryption status of the component.

Type: Boolean

Required: No

kmsKeyId

The KMS key identifier used to encrypt the component. This can be either the Key ARN or the Alias ARN. For more information, see Key identifiers (KeyId) in the *AWS Key Management Service Developer Guide*.

Type: String

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

Required: No

name

The name of the component.

Type: String

Pattern: `^[-_A-Za-z-0-9][-_A-Za-z0-9 ]{1,126}[-_A-Za-z-0-9]$`

Required: No

obfuscate

Indicates whether component source is hidden from view in the console, and from component detail results for API, CLI, or SDK operations.

Type: Boolean

Required: No

owner

The owner of the component.

Type: String

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

Required: No

parameters

Contains parameter details for each of the parameters that the component document defined for the component.

Type: Array of ComponentParameterDetail objects

Required: No

platform

The operating system platform of the component.

Type: String

Valid Values: `Windows | Linux | macOS`

Required: No

productCodes

Contains product codes that are used for billing purposes for AWS Marketplace components.

Type: Array of ProductCodeListItem objects

Required: No

publisher

Contains the name of the publisher if this is a third-party component. Otherwise, this property is empty.

Type: String

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

Required: No

state

Describes the current status of the component.

Type: ComponentState object

Required: No

supportedOsVersions

The operating system (OS) version supported by the component. If the OS information is available, Image Builder performs a prefix match against the base image OS version during image recipe creation.

Type: Array of strings

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

Length Constraints: Minimum length of 1.

Required: No

tags

The tags that apply to the component.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: Maximum length of 256.

Required: No

type

The component type specifies whether Image Builder uses the component to build the image or only to test it.

Type: String

Valid Values: `BUILD | TEST`

Required: No

version

The version of the component.

Type: String

Pattern: `^[0-9]+\.[0-9]+\.[0-9]+$`

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

ComponentConfiguration

Configuration details of the component.

Contents

componentArn

The Amazon Resource Name (ARN) of the component.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):component/[a-z0-9-_]+/(?:(?:([0-9]+|x)\.([0-9]+|x)\.([0-9]+|x))|(?:[0-9]+\.[0-9]+\.[0-9]+/[0-9]+))$`

Required: Yes

parameters

A group of parameter settings that Image Builder uses to configure the component for a specific recipe.

Type: Array of ComponentParameter objects

Array Members: Minimum number of 1 item.

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

ComponentParameter

Contains a key/value pair that sets the named component parameter.

Contents

name

The name of the component parameter to set.

Type: String

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

Pattern: `[^\x00]+`

Required: Yes

value

Sets the value for the named component parameter.

Type: Array of strings

Length Constraints: Minimum length of 0.

Pattern: `[^\x00]*`

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

ComponentParameterDetail

Defines a parameter that is used to provide configuration details for the component.

Contents

name

The name of this input parameter.

Type: String

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

Pattern: `[^\x00]+`

Required: Yes

type

The type of input this parameter provides. The currently supported value is "string".

Type: String

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

Pattern: `^String|Integer|Boolean|StringList$`

Required: Yes

defaultValue

The default value of this parameter if no input is provided.

Type: Array of strings

Length Constraints: Minimum length of 0.

Pattern: `[^\x00]*`

Required: No

description

Describes this parameter.

Type: String

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

Pattern: `[^\x00]+`

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

ComponentState

A group of fields that describe the current status of components.

Contents

reason

Describes how or why the component changed state.

Type: String

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

Required: No

status

The current state of the component.

Type: String

Valid Values: `DEPRECATED | DISABLED | ACTIVE`

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

ComponentSummary

A high-level summary of a component.

Contents

arn

The Amazon Resource Name (ARN) of the component.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):(?:image-recipe|container-recipe|infrastructure-configuration|distribution-configuration|component|image|image-pipeline|lifecycle-policy|workflow\/(?:build|test|distribution))/[a-z0-9-_]+(?:/(?:(?:x|[0-9]+)\.(?:x|[0-9]+)\.(?:x|[0-9]+))(?:/[0-9]+)?)?$`

Required: No

changeDescription

The change description for the current version of the component.

Type: String

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

Required: No

dateCreated

The original creation date of the component.

Type: String

Required: No

description

The description of the component.

Type: String

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

Required: No

name

The name of the component.

Type: String

Pattern: `^[-_A-Za-z-0-9][-_A-Za-z0-9 ]{1,126}[-_A-Za-z-0-9]$`

Required: No

obfuscate

Indicates whether component source is hidden from view in the console, and from component detail results for API, CLI, or SDK operations.

Type: Boolean

Required: No

owner

The owner of the component.

Type: String

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

Required: No

platform

The operating system platform of the component.

Type: String

Valid Values: `Windows | Linux | macOS`

Required: No

publisher

Contains the name of the publisher if this is a third-party component. Otherwise, this property is empty.

Type: String

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

Required: No

state

Describes the current status of the component.

Type: ComponentState object

Required: No

supportedOsVersions

The operating system (OS) version that the component supports. If the OS information is available, Image Builder performs a prefix match against the base image OS version during image recipe creation.

Type: Array of strings

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

Length Constraints: Minimum length of 1.

Required: No

tags

The tags that apply to the component.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: Maximum length of 256.

Required: No

type

The component type specifies whether Image Builder uses the component to build the image or only to test it.

Type: String

Valid Values: `BUILD | TEST`

Required: No

version

The version of the component.

Type: String

Pattern: `^[0-9]+\.[0-9]+\.[0-9]+$`

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

ComponentVersion

The defining characteristics of a specific version of an AWSTOE component.

Contents

arn

The Amazon Resource Name (ARN) of the component.

> **Note**
>
> Semantic versioning is included in each object's Amazon Resource Name (ARN), at the level that applies to that object as follows:
>
> 1. Versionless ARNs and Name ARNs do not include specific values in any of the nodes. The nodes are either left off entirely, or they are specified as wildcards, for example: x.x.x.
> 2. Version ARNs have only the first three nodes: <major>.<minor>.<patch>
> 3. Build version ARNs have all four nodes, and point to a specific build for a specific version of an object.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):(?:image-recipe|container-recipe|infrastructure-configuration|distribution-configuration|component|image|image-pipeline|lifecycle-policy|workflow\/(?:build|test|distribution))/[a-z0-9-_]+(?:/(?:(?:x|[0-9]+)\.(?:x|[0-9]+)\.(?:x|[0-9]+))(?:/[0-9]+)?)?$`

Required: No

dateCreated

The date that the component was created.

Type: String

Required: No

description

The description of the component.

Type: String

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

Required: No

name

The name of the component.

Type: String

Pattern: `^[-_A-Za-z-0-9][-_A-Za-z0-9 ]{1,126}[-_A-Za-z-0-9]$`

Required: No

owner

The owner of the component.

Type: String

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

Required: No

platform

The platform of the component.

Type: String

Valid Values: `Windows | Linux | macOS`

Required: No

productCodes

Contains product codes that are used for billing purposes for AWS Marketplace components.

Type: Array of ProductCodeListItem objects

Required: No

status

Describes the current status of the component version.

Type: String

Valid Values: `DEPRECATED | DISABLED | ACTIVE`

Required: No

supportedOsVersions

he operating system (OS) version supported by the component. If the OS information is available, a prefix match is performed against the base image OS version during image recipe creation.

Type: Array of strings

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

Length Constraints: Minimum length of 1.

Required: No

type

The type of the component denotes whether the component is used to build the image or only to test it.

Type: String

Valid Values: `BUILD | TEST`

Required: No

version

The semantic version of the component.

> **Note**
>
> The semantic version has four nodes: <major>.<minor>.<patch>/<build>. You can assign values for the first three, and can filter on all of them.

Assignment: For the first three nodes you can assign any positive integer value, including zero, with an upper limit of 2^30-1, or 1073741823 for each node. Image Builder automatically assigns the build number to the fourth node.
Patterns: You can use any numeric pattern that adheres to the assignment requirements for the nodes that you can assign. For example, you might choose a software version pattern, such as 1.0.0, or a date, such as 2021.01.01.
Filtering: With semantic versioning, you have the flexibility to use wildcards (x) to specify the most recent versions or nodes when selecting the base image or components for your recipe. When you use a wildcard in any node, all nodes to the right of the first wildcard must also be wildcards.

Type: String

Pattern: `^[0-9]+\.[0-9]+\.[0-9]+$`

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

Container

A container encapsulates the runtime environment for an application.

Contents

imageUris

A list of URIs for containers created in the context Region.

Type: Array of strings

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

Required: No

region

Containers and container images are Region-specific. This is the Region context for the container.

Type: String

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

Required: No

See Also

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

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

ContainerDistributionConfiguration

Container distribution settings for encryption, licensing, and sharing in a specific Region.

Contents

targetRepository

The destination repository for the container distribution configuration.

Type: TargetContainerRepository object

Required: Yes

containerTags

Tags that are attached to the container distribution configuration.

Type: Array of strings

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

Required: No

description

The description of the container distribution configuration.

Type: String

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

Required: No

See Also

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

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

ContainerRecipe

A container recipe.

Contents

arn

The Amazon Resource Name (ARN) of the container recipe.

> **Note**
>
> Semantic versioning is included in each object's Amazon Resource Name (ARN), at the level that applies to that object as follows:
>
> 1. Versionless ARNs and Name ARNs do not include specific values in any of the nodes. The nodes are either left off entirely, or they are specified as wildcards, for example: x.x.x.
> 2. Version ARNs have only the first three nodes: <major>.<minor>.<patch>
> 3. Build version ARNs have all four nodes, and point to a specific build for a specific version of an object.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):(?:image-recipe|container-recipe|infrastructure-configuration|distribution-configuration|component|image|image-pipeline|lifecycle-policy|workflow\/(?:build|test|distribution))/[a-z0-9-_]+(?:/(?:(?:x|[0-9]+)\.(?:x|[0-9]+)\.(?:x|[0-9]+))(?:/[0-9]+)?)?$`

Required: No

components

Build and test components that are included in the container recipe. Recipes require a minimum of one build component, and can have a maximum of 20 build and test components in any combination.

Type: Array of ComponentConfiguration objects

Array Members: Minimum number of 1 item.

Required: No

containerType

Specifies the type of container, such as Docker.

Type: String

Valid Values: `DOCKER`

Required: No

dateCreated

The date when this container recipe was created.

Type: String

Required: No

description

The description of the container recipe.

Type: String

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

Required: No

dockerfileTemplateData

Dockerfiles are text documents that are used to build Docker containers, and ensure that they contain all of the elements required by the application running inside. The template data consists of contextual variables where Image Builder places build information or scripts, based on your container image recipe.

Type: String

Required: No

encrypted

A flag that indicates if the target container is encrypted.

Type: Boolean

Required: No

instanceConfiguration

A group of options that can be used to configure an instance for building and testing container images.

Type: InstanceConfiguration object

Required: No

kmsKeyId

The Amazon Resource Name (ARN) that uniquely identifies which KMS key is used to encrypt the container image for distribution to the target Region. This can be either the Key ARN or the Alias ARN. For more information, see Key identifiers (KeyId) in the *AWS Key Management Service Developer Guide*.

Type: String

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

Required: No

name

The name of the container recipe.

Type: String

Pattern: `^[-_A-Za-z-0-9][-_A-Za-z0-9 ]{1,126}[-_A-Za-z-0-9]$`

Required: No

owner

The owner of the container recipe.

Type: String

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

Required: No

parentImage

The base image for customizations specified in the container recipe. This can contain an Image Builder image resource ARN or a container image URI, for example `amazonlinux:latest`.

Type: String

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

Required: No

platform

The system platform for the container, such as Windows or Linux.

Type: String

Valid Values: `Windows | Linux | macOS`

Required: No

tags

Tags that are attached to the container recipe.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: Maximum length of 256.

Required: No

targetRepository

The destination repository for the container image.

Type: TargetContainerRepository object

Required: No

version

The semantic version of the container recipe.

> **Note**
>
> The semantic version has four nodes: <major>.<minor>.<patch>/<build>. You can assign values for the first three, and can filter on all of them.
> **Assignment:** For the first three nodes you can assign any positive integer value, including zero, with an upper limit of 2^30-1, or 1073741823 for each node. Image Builder automatically assigns the build number to the fourth node.
> **Patterns:** You can use any numeric pattern that adheres to the assignment requirements for the nodes that you can assign. For example, you might choose a software version pattern, such as 1.0.0, or a date, such as 2021.01.01.
> **Filtering:** With semantic versioning, you have the flexibility to use wildcards (x) to specify the most recent versions or nodes when selecting the base image or components for your recipe. When you use a wildcard in any node, all nodes to the right of the first wildcard must also be wildcards.

Type: String

Pattern: `^[0-9]+\.[0-9]+\.[0-9]+$`

Required: No

workingDirectory

The working directory for use during build and test workflows.

Type: String

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

Required: No

See Also

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

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

ContainerRecipeSummary

A summary of a container recipe

Contents

arn

The Amazon Resource Name (ARN) of the container recipe.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):(?:image-recipe|container-recipe|infrastructure-configuration|distribution-configuration|component|image|image-pipeline|lifecycle-policy|workflow\/(?:build|test|distribution))/[a-z0-9-_]+(?:/(?:(?:x|[0-9]+)\.(?:x|[0-9]+)\.(?:x|[0-9]+))(?:/[0-9]+)?)?$`

Required: No

containerType

Specifies the type of container, such as "Docker".

Type: String

Valid Values: `DOCKER`

Required: No

dateCreated

The date when this container recipe was created.

Type: String

Required: No

instanceImage

The base image for a container build and test instance. This can contain an AMI ID or it can specify an AWS Systems Manager (SSM) Parameter Store Parameter, prefixed by `ssm:`, followed by the parameter name or ARN.

If not specified, Image Builder uses the appropriate ECS-optimized AMI as a base image.

Type: String

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

Required: No

name

The name of the container recipe.

Type: String

Pattern: `^[-_A-Za-z-0-9][-_A-Za-z0-9 ]{1,126}[-_A-Za-z-0-9]$`

Required: No

owner

The owner of the container recipe.

Type: String

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

Required: No

parentImage

The base image for the container recipe.

Type: String

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

Required: No

platform

The system platform for the container, such as Windows or Linux.

Type: String

Valid Values: `Windows | Linux | macOS`

Required: No

tags

Tags that are attached to the container recipe.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: 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

CvssScore

Amazon Inspector generates a risk score for each finding. This score helps you to prioritize findings, to focus on the most critical findings and the most vulnerable resources. The score uses the Common Vulnerability Scoring System (CVSS) format. This format is a modification of the base CVSS score that the National Vulnerability Database (NVD) provides. For more information about severity levels, see Severity levels for Amazon Inspector findings in the *Amazon Inspector User Guide*.

Contents

baseScore

The CVSS base score.

Type: Double

Valid Range: Minimum value of 0.

Required: No

scoringVector

The vector string of the CVSS score.

Type: String

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

Required: No

source

The source of the CVSS score.

Type: String

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

Required: No

version

The CVSS version that generated the score.

Type: String

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

Required: No

See Also

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

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

CvssScoreAdjustment

Details about an adjustment that Amazon Inspector made to the CVSS score for a finding.

Contents

metric

The metric that Amazon Inspector used to adjust the CVSS score.

Type: String

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

Required: No

reason

The reason for the CVSS score adjustment.

Type: String

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

Required: No

See Also

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

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

CvssScoreDetails

Details about the source of the score, and the factors that determined the adjustments to create the final score.

Contents

adjustments

An object that contains details about an adjustment that Amazon Inspector made to the CVSS score for the finding.

Type: Array of CvssScoreAdjustment objects

Required: No

cvssSource

The source of the finding.

Type: String

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

Required: No

score

The CVSS score.

Type: Double

Valid Range: Minimum value of 0.

Required: No

scoreSource

The source for the CVSS score.

Type: String

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

Required: No

scoringVector

A vector that measures the severity of the vulnerability.

Type: String

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

Required: No

version

The CVSS version that generated the score.

Type: String

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

Required: No

See Also

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

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

Distribution

Defines the settings for a specific Region.

Contents

region

The target Region.

Type: String

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

Required: Yes

amiDistributionConfiguration

The specific AMI settings; for example, launch permissions or AMI tags.

Type: AmiDistributionConfiguration object

Required: No

containerDistributionConfiguration

Container distribution settings for encryption, licensing, and sharing in a specific Region.

Type: ContainerDistributionConfiguration object

Required: No

fastLaunchConfigurations

The Windows faster-launching configurations to use for AMI distribution.

Type: Array of FastLaunchConfiguration objects

Array Members: Minimum number of 1 item. Maximum number of 1000 items.

Required: No

launchTemplateConfigurations

A group of launchTemplateConfiguration settings that apply to image distribution for specified accounts.

Type: Array of LaunchTemplateConfiguration objects

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

Required: No

licenseConfigurationArns

The License Manager Configuration to associate with the AMI in the specified Region.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 50 items.

Pattern: `^arn:aws[^:]*:license-manager:[^:]+:[0-9]{12}:license-configuration:lic-[a-z0-9-_]{32}$`

Required: No

s3ExportConfiguration

Configure export settings to deliver disk images created from your image build, using a file format that is compatible with your VMs in that Region.

Type: S3ExportConfiguration object

Required: No

ssmParameterConfigurations

Contains settings to update AWS Systems Manager (SSM) Parameter Store Parameters with output AMI IDs from the build by target Region.

Type: Array of SsmParameterConfiguration 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

DistributionConfiguration

A distribution configuration.

Contents

timeoutMinutes

The maximum duration in minutes for this distribution configuration.

Type: Integer

Valid Range: Minimum value of 30. Maximum value of 720.

Required: Yes

arn

The Amazon Resource Name (ARN) of the distribution configuration.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):(?:image-recipe|container-recipe|infrastructure-configuration|distribution-configuration|component|image|image-pipeline|lifecycle-policy|workflow\/(?:build|test|distribution))/[a-z0-9-_]+(?:/(?:(?:x|[0-9]+)\.(?:x|[0-9]+)\.(?:x|[0-9]+))(?:/[0-9]+)?)?$`

Required: No

dateCreated

The date on which this distribution configuration was created.

Type: String

Required: No

dateUpdated

The date on which this distribution configuration was last updated.

Type: String

Required: No

description

The description of the distribution configuration.

Type: String

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

Required: No

distributions

The distribution objects that apply Region-specific settings for the deployment of the image to targeted Regions.

Type: Array of Distribution objects

Required: No

name

The name of the distribution configuration.

Type: String

Pattern: `^[-_A-Za-z-0-9][-_A-Za-z0-9 ]{1,126}[-_A-Za-z-0-9]$`

Required: No

tags

The tags of the distribution configuration.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: 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

DistributionConfigurationSummary

A high-level overview of a distribution configuration.

Contents

arn

The Amazon Resource Name (ARN) of the distribution configuration.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):(?:image-recipe|container-recipe|infrastructure-configuration|distribution-configuration|component|image|image-pipeline|lifecycle-policy|workflow\/(?:build|test|distribution))/[a-z0-9-_]+(?:/(?:(?:x|[0-9]+)\.(?:x|[0-9]+)\.(?:x|[0-9]+))(?:/[0-9]+)?)?$`

Required: No

dateCreated

The date on which the distribution configuration was created.

Type: String

Required: No

dateUpdated

The date on which the distribution configuration was updated.

Type: String

Required: No

description

The description of the distribution configuration.

Type: String

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

Required: No

name

The name of the distribution configuration.

Type: String

Pattern: `^[-_A-Za-z-0-9][-_A-Za-z0-9 ]{1,126}[-_A-Za-z-0-9]$`

Required: No

regions

A list of Regions where the container image is distributed to.

Type: Array of strings

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

Required: No

tags

The tags associated with the distribution configuration.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: 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

EbsInstanceBlockDeviceSpecification

Amazon EBS-specific block device mapping specifications.

Contents

deleteOnTermination

Use to configure delete on termination of the associated device.

Type: Boolean

Required: No

encrypted

Use to configure device encryption.

Type: Boolean

Required: No

iops

Use to configure device IOPS.

Type: Integer

Valid Range: Minimum value of 100. Maximum value of 64000.

Required: No

kmsKeyId

The Amazon Resource Name (ARN) that uniquely identifies the KMS key to use when encrypting the device. This can be either the Key ARN or the Alias ARN. For more information, see Key identifiers (KeyId) in the *AWS Key Management Service Developer Guide*.

Type: String

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

Required: No

snapshotId

The snapshot that defines the device contents.

Type: String

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

Required: No

throughput

For GP3 volumes only – The throughput in MiB/s that the volume supports.

Type: Integer

Valid Range: Minimum value of 125. Maximum value of 1000.

Required: No

volumeSize

Use to override the device's volume size.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 16000.

Required: No

volumeType

Use to override the device's volume type.

Type: String

Valid Values: `standard | io1 | io2 | gp2 | gp3 | sc1 | st1`

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

EcrConfiguration

Settings that Image Builder uses to configure the ECR repository and the output container images that Amazon Inspector scans.

Contents

containerTags

Tags for Image Builder to apply to the output container image that Amazon Inspector scans. Tags can help you identify and manage your scanned images.

Type: Array of strings

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

Required: No

repositoryName

The name of the container repository that Amazon Inspector scans to identify findings for your container images. The name includes the path for the repository location. If you don't provide this information, Image Builder creates a repository in your account named `image-builder-image-scanning-repository` for vulnerability scans of your output container images.

Type: String

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

Required: No

See Also

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

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

FastLaunchConfiguration

Define and configure faster launching for output Windows AMIs.

Contents

enabled

A Boolean that represents the current state of faster launching for the Windows AMI. Set to `true` to start using Windows faster launching, or `false` to stop using it.

Type: Boolean

Required: Yes

accountId

The owner account ID for the fast-launch enabled Windows AMI.

Type: String

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

Required: No

launchTemplate

The launch template that the fast-launch enabled Windows AMI uses when it launches Windows instances to create pre-provisioned snapshots.

Type: FastLaunchLaunchTemplateSpecification object

Required: No

maxParallelLaunches

The maximum number of parallel instances that are launched for creating resources.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

snapshotConfiguration

Configuration settings for managing the number of snapshots that are created from pre-provisioned instances for the Windows AMI when faster launching is enabled.

Type: FastLaunchSnapshotConfiguration 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

FastLaunchLaunchTemplateSpecification

Identifies the launch template that the associated Windows AMI uses for launching an instance when faster launching is enabled.

> **Note**
>
> You can specify either the `launchTemplateName` or the `launchTemplateId`, but not both.

Contents

launchTemplateId

The ID of the launch template to use for faster launching for a Windows AMI.

Type: String

Pattern: `^lt-[a-z0-9-_]{17}$`

Required: No

launchTemplateName

The name of the launch template to use for faster launching for a Windows AMI.

Type: String

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

Required: No

launchTemplateVersion

The version of the launch template to use for faster launching for a Windows AMI.

Type: String

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

Required: No

See Also

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

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

FastLaunchSnapshotConfiguration

Configuration settings for creating and managing pre-provisioned snapshots for a fast-launch enabled Windows AMI.

Contents

targetResourceCount

The number of pre-provisioned snapshots to keep on hand for a fast-launch enabled Windows AMI.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10000.

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

Filter

A filter name and value pair that is used to return a more specific list of results from a list operation. Filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs.

Contents

name

The name of the filter. Filter names are case-sensitive.

Type: String

Pattern: `^[a-zA-Z]{1,1024}$`

Required: No

values

The filter values. Filter values are case-sensitive.

Type: Array of strings

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

Pattern: `^[0-9a-zA-Z./_ :,{}"-]{1,1024}$`

Required: No

See Also

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

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

Image

An Image Builder image resource that keeps track of all of the settings used to create, configure, and distribute output for that image. You must specify exactly one recipe for the image – either a container recipe (`containerRecipe`), which creates a container image, or an image recipe (`imageRecipe`), which creates an AMI.

Contents

arn

The Amazon Resource Name (ARN) of the image.

> **Note**
>
> Semantic versioning is included in each object's Amazon Resource Name (ARN), at the level that applies to that object as follows:
>
> 1. Versionless ARNs and Name ARNs do not include specific values in any of the nodes. The nodes are either left off entirely, or they are specified as wildcards, for example: x.x.x.
> 2. Version ARNs have only the first three nodes: <major>.<minor>.<patch>
> 3. Build version ARNs have all four nodes, and point to a specific build for a specific version of an object.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):(?:image-recipe|container-recipe|infrastructure-configuration|distribution-configuration|component|image|image-pipeline|lifecycle-policy|workflow\/(?:build|test|distribution))/[a-z0-9-_]+(?:/(?:(?:x|[0-9]+)\.(?:x|[0-9]+)\.(?:x|[0-9]+))(?:/[0-9]+)?)?$`

Required: No

buildType

Indicates the type of build that created this image. The build can be initiated in the following ways:

- **USER_INITIATED** – A manual pipeline build request.
- **SCHEDULED** – A pipeline build initiated by a cron expression in the Image Builder pipeline, or from EventBridge.
- **IMPORT** – A VM import created the image to use as the base image for the recipe.
- **IMPORT_ISO** – An ISO disk import created the image.

Type: String

Valid Values: `USER_INITIATED | SCHEDULED | IMPORT | IMPORT_ISO`

Required: No

containerRecipe

For container images, this is the container recipe that Image Builder used to create the image. For images that distribute an AMI, this is empty.

Type: ContainerRecipe object

Required: No

dateCreated

The date on which Image Builder created this image.

Type: String

Required: No

deprecationTime

The time when deprecation occurs for an image resource. This can be a past or future date.

Type: Timestamp

Required: No

distributionConfiguration

The distribution configuration that Image Builder used to create this image.

Type: DistributionConfiguration object

Required: No

enhancedImageMetadataEnabled

Indicates whether Image Builder collects additional information about the image, such as the operating system (OS) version and package list.

Type: Boolean

Required: No

executionRole

The name or Amazon Resource Name (ARN) for the IAM role you create that grants Image Builder access to perform workflow actions.

Type: String

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

Pattern: `^(?:arn:aws(?:-[a-z]+)*:iam::[0-9]{12}:role/)?[a-zA-Z_0-9+=,.@\-_/]+$`

Required: No

imageRecipe

For images that distribute an AMI, this is the image recipe that Image Builder used to create the image. For container images, this is empty.

Type: ImageRecipe object

Required: No

imageScanningConfiguration

Contains settings for vulnerability scans.

Type: ImageScanningConfiguration object

Required: No

imageSource

The origin of the base image that Image Builder used to build this image.

Type: String

Valid Values: `AMAZON_MANAGED | AWS_MARKETPLACE | IMPORTED | CUSTOM`

Required: No

imageTestsConfiguration

The image tests that ran when that Image Builder created this image.

Type: ImageTestsConfiguration object

Required: No

infrastructureConfiguration

The infrastructure that Image Builder used to create this image.

Type: InfrastructureConfiguration object

Required: No

lifecycleExecutionId

Identifies the last runtime instance of the lifecycle policy to take action on the image.

Type: String

Pattern: `^lce-[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: No

loggingConfiguration

The logging configuration that's defined for the image. Image Builder uses the defined settings to direct execution log output during image creation.

Type: ImageLoggingConfiguration object

Required: No

name

The name of the image.

Type: String

Pattern: `^[-_A-Za-z-0-9][-_A-Za-z0-9 ]{1,126}[-_A-Za-z-0-9]$`

Required: No

osVersion

The operating system version for instances that launch from this image. For example, Amazon Linux 2, Ubuntu 18, or Microsoft Windows Server 2019.

Type: String

Length Constraints: Minimum length of 1.

Required: No

outputResources

The output resources that Image Builder produces for this image.

Type: OutputResources object

Required: No

platform

The image operating system platform, such as Linux or Windows.

Type: String

Valid Values: `Windows | Linux | macOS`

Required: No

scanState

Contains information about the current state of scans for this image.

Type: ImageScanState object

Required: No

sourcePipelineArn

The Amazon Resource Name (ARN) of the image pipeline that created this image.

Type: String

Required: No

sourcePipelineName

The name of the image pipeline that created this image.

Type: String

Pattern: `^[-_A-Za-z-0-9][-_A-Za-z0-9 ]{1,126}[-_A-Za-z-0-9]$`

Required: No

state

The state of the image.

Type: ImageState object

Required: No

tags

The tags that apply to this image.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: Maximum length of 256.

Required: No

type

Specifies whether this image produces an AMI or a container image.

Type: String

Valid Values: `AMI | DOCKER`

Required: No

version

The semantic version of the image.

> **Note**
>
> The semantic version has four nodes: <major>.<minor>.<patch>/<build>. You can assign values for the first three, and can filter on all of them.
> **Assignment:** For the first three nodes you can assign any positive integer value, including zero, with an upper limit of 2^30-1, or 1073741823 for each node. Image Builder automatically assigns the build number to the fourth node.
> **Patterns:** You can use any numeric pattern that adheres to the assignment requirements for the nodes that you can assign. For example, you might choose a software version pattern, such as 1.0.0, or a date, such as 2021.01.01.
> **Filtering:** With semantic versioning, you have the flexibility to use wildcards (x) to specify the most recent versions or nodes when selecting the base image or components for your recipe. When you use a wildcard in any node, all nodes to the right of the first wildcard must also be wildcards.

Type: String

Pattern: `^[0-9]+\.[0-9]+\.[0-9]+$`

Required: No

workflows

Contains the build and test workflows that are associated with the image.

Type: Array of WorkflowConfiguration 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

ImageAggregation

Contains vulnerability counts for a specific image.

Contents

imageBuildVersionArn

The Amazon Resource Name (ARN) that identifies the image for this aggregation.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):image/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+/[0-9]+$`

Required: No

severityCounts

Counts by severity level for medium severity and higher level findings, plus a total for all of the findings for the specified image.

Type: SeverityCounts 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

ImageLoggingConfiguration

The logging configuration that's defined for the image. Image Builder uses the defined settings to direct execution log output during image creation.

Contents

logGroupName

The log group name that Image Builder uses for image creation. If not specified, the log group name defaults to `/aws/imagebuilder/image-name`.

Type: String

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

Pattern: `^[a-zA-Z0-9\-_/\.]{1,512}$`

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

ImagePackage

A software package that's installed on top of the base image to create a customized image.

Contents

packageName

The name of the package that's reported to the operating system package manager.

Type: String

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

Required: No

packageVersion

The version of the package that's reported to the operating system package manager.

Type: String

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

Required: No

See Also

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

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

ImagePipeline

Details of an image pipeline.

Contents

arn

The Amazon Resource Name (ARN) of the image pipeline.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):(?:image-recipe|container-recipe|infrastructure-configuration|distribution-configuration|component|image|image-pipeline|lifecycle-policy|workflow\/(?:build|test|distribution))/[a-z0-9-_]+(?:/(?:(?:x|[0-9]+)\.(?:x|[0-9]+)\.(?:x|[0-9]+))(?:/[0-9]+)?)?$`

Required: No

consecutiveFailures

Image Builder tracks the number of consecutive failures for scheduled pipeline executions and takes one of the following actions each time it runs on a schedule:

- If the pipeline execution is successful, the number of consecutive failures resets to zero.
- If the pipeline execution fails, Image Builder increments the number of consecutive failures. If the failure count exceeds the limit defined in the `AutoDisablePolicy`, Image Builder disables the pipeline.

The consecutive failure count is also reset to zero under the following conditions:

- The pipeline runs manually and succeeds.
- The pipeline configuration is updated.

If the pipeline runs manually and fails, the count remains the same. The next scheduled run continues to increment where it left off before.

Type: Integer

Valid Range: Minimum value of 0.

Required: No

containerRecipeArn

The Amazon Resource Name (ARN) of the container recipe that is used for this pipeline.

Type: String

Required: No

dateCreated

The date on which this image pipeline was created.

Type: String

Required: No

dateLastRun

This is no longer supported, and does not return a value.

Type: String

Required: No

dateNextRun

The next date when the pipeline is scheduled to run.

Type: String

Required: No

dateUpdated

The date on which this image pipeline was last updated.

Type: String

Required: No

description

The description of the image pipeline.

Type: String

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

Required: No

distributionConfigurationArn

The Amazon Resource Name (ARN) of the distribution configuration associated with this image pipeline.

Type: String

Required: No

enhancedImageMetadataEnabled

Collects additional information about the image being created, including the operating system (OS) version and package list. This information is used to enhance the overall experience of using EC2 Image Builder. Enabled by default.

Type: Boolean

Required: No

executionRole

The name or Amazon Resource Name (ARN) for the IAM role you create that grants Image Builder access to perform workflow actions.

Type: String

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

Pattern: `^(?:arn:aws(?:-[a-z]+)*:iam::[0-9]{12}:role/)?[a-zA-Z_0-9+=,.@\-_/]+$`

Required: No

imageRecipeArn

The Amazon Resource Name (ARN) of the image recipe associated with this image pipeline.

Type: String

Required: No

imageScanningConfiguration

Contains settings for vulnerability scans.

Type: ImageScanningConfiguration object

Required: No

imageTestsConfiguration

The image tests configuration of the image pipeline.

Type: ImageTestsConfiguration object

Required: No

infrastructureConfigurationArn

The Amazon Resource Name (ARN) of the infrastructure configuration associated with this image pipeline.

Type: String

Required: No

lastRunStatus

The status of the last image that this pipeline built, such as `BUILDING`, `TESTING`, `FAILED`, or `AVAILABLE`.

Type: String

Valid Values: `PENDING | CREATING | BUILDING | TESTING | DISTRIBUTING | INTEGRATING | AVAILABLE | CANCELLED | FAILED | DEPRECATED | DELETED | DISABLED`

Required: No

loggingConfiguration

Defines logging configuration for the output image.

Type: PipelineLoggingConfiguration object

Required: No

name

The name of the image pipeline.

Type: String

Pattern: `^[-_A-Za-z-0-9][-_A-Za-z0-9 ]{1,126}[-_A-Za-z-0-9]$`

Required: No

platform

The platform of the image pipeline.

Type: String

Valid Values: `Windows | Linux | macOS`

Required: No

schedule

The schedule of the image pipeline.

Type: Schedule object

Required: No

status

The status of the image pipeline.

Type: String

Valid Values: `DISABLED | ENABLED`

Required: No

tags

The tags of this image pipeline.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: Maximum length of 256.

Required: No

workflows

Contains the workflows that run for the image pipeline.

Type: Array of WorkflowConfiguration 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

ImagePipelineAggregation

Contains vulnerability counts for a specific image pipeline.

Contents

imagePipelineArn

The Amazon Resource Name (ARN) that identifies the image pipeline for this aggregation.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):image-pipeline/[a-z0-9-_]+$`

Required: No

severityCounts

Counts by severity level for medium severity and higher level findings, plus a total for all of the findings for the specified image pipeline.

Type: SeverityCounts 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

ImageRecipe

An image recipe.

Contents

additionalInstanceConfiguration

Before you create a new AMI, Image Builder launches temporary Amazon EC2 instances to build and test your image configuration. Instance configuration adds a layer of control over those instances. You can define settings and add scripts to run when an instance is launched from your AMI.

Type: AdditionalInstanceConfiguration object

Required: No

amiTags

Tags that are applied to the AMI that Image Builder creates during the Build phase prior to image distribution.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: Maximum length of 256.

Required: No

arn

The Amazon Resource Name (ARN) of the image recipe.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):(?:image-recipe|container-recipe|infrastructure-configuration|distribution-configuration|component|image|image-pipeline|lifecycle-`

```
policy|workflow\/(?:build|test|distribution))/[a-z0-9-_]+(?:/(?:(?:x|
[0-9]+)\.(?:x|[0-9]+)\.(?:x|[0-9]+))(?:/[0-9]+)?)?$
```

Required: No

blockDeviceMappings

The block device mappings to apply when creating images from this recipe.

Type: Array of InstanceBlockDeviceMapping objects

Required: No

components

The components that are included in the image recipe. Recipes require a minimum of one build component, and can have a maximum of 20 build and test components in any combination.

Type: Array of ComponentConfiguration objects

Array Members: Minimum number of 1 item.

Required: No

dateCreated

The date on which this image recipe was created.

Type: String

Required: No

description

The description of the image recipe.

Type: String

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

Required: No

name

The name of the image recipe.

Type: String

Pattern: `^[-_A-Za-z-0-9][-_A-Za-z0-9 ]{1,126}[-_A-Za-z-0-9]$`

Required: No

owner

The owner of the image recipe.

Type: String

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

Required: No

parentImage

The base image for customizations specified in the image recipe. You can specify the parent image using one of the following options:

- AMI ID
- Image Builder image Amazon Resource Name (ARN)
- AWS Systems Manager (SSM) Parameter Store Parameter, prefixed by `ssm:`, followed by the parameter name or ARN.
- AWS Marketplace product ID

Type: String

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

Required: No

platform

The platform of the image recipe.

Type: String

Valid Values: `Windows | Linux | macOS`

Required: No

tags

The tags of the image recipe.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: Maximum length of 256.

Required: No

type

Specifies which type of image is created by the recipe - an AMI or a container image.

Type: String

Valid Values: `AMI | DOCKER`

Required: No

version

The version of the image recipe.

Type: String

Pattern: `^[0-9]+\.[0-9]+\.[0-9]+$`

Required: No

workingDirectory

The working directory to be used during build and test workflows.

Type: String

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

Required: No

See Also

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

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

ImageRecipeSummary

A summary of an image recipe.

Contents

arn

The Amazon Resource Name (ARN) of the image recipe.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):(?:image-recipe|container-recipe|infrastructure-configuration|distribution-configuration|component|image|image-pipeline|lifecycle-policy|workflow\/(?:build|test|distribution))/[a-z0-9-_]+(?:/(?:(?:x|[0-9]+)\.(?:x|[0-9]+)\.(?:x|[0-9]+))(?:/[0-9]+)?)?$`

Required: No

dateCreated

The date on which this image recipe was created.

Type: String

Required: No

name

The name of the image recipe.

Type: String

Pattern: `^[-_A-Za-z-0-9][-_A-Za-z0-9 ]{1,126}[-_A-Za-z-0-9]$`

Required: No

owner

The owner of the image recipe.

Type: String

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

Required: No

parentImage

The base image of the image recipe.

Type: String

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

Required: No

platform

The platform of the image recipe.

Type: String

Valid Values: `Windows | Linux | macOS`

Required: No

tags

The tags of the image recipe.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: 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

ImageScanFinding

Contains details about a vulnerability scan finding.

Contents

awsAccountId

The AWS account ID that's associated with the finding.

Type: String

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

Required: No

description

The description of the finding.

Type: String

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

Required: No

firstObservedAt

The date and time when the finding was first observed.

Type: Timestamp

Required: No

fixAvailable

Details about whether a fix is available for any of the packages that are identified in the finding through a version update.

Type: String

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

Required: No

imageBuildVersionArn

The Amazon Resource Name (ARN) of the image build version that's associated with the finding.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):image/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+/[0-9]+$`

Required: No

imagePipelineArn

The Amazon Resource Name (ARN) of the image pipeline that's associated with the finding.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):image-pipeline/[a-z0-9-_]+$`

Required: No

inspectorScore

The score that Amazon Inspector assigned for the finding.

Type: Double

Valid Range: Minimum value of 0.

Required: No

inspectorScoreDetails

An object that contains details of the Amazon Inspector score.

Type: InspectorScoreDetails object

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 the finding.

Type: Remediation object

Required: No

severity

The severity of the finding.

Type: String

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

Required: No

title

The title of the finding.

Type: String

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

Required: No

type

The type of the finding. Image Builder looks for findings of the type `PACKAGE_VULNERABILITY` that apply to output images, and excludes other types.

Type: String

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

Required: No

updatedAt

The timestamp when the finding 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

ImageScanFindingAggregation

This returns exactly one type of aggregation, based on the filter that Image Builder applies in its API action.

Contents

accountAggregation

Returns an object that contains severity counts based on an account ID.

Type: AccountAggregation object

Required: No

imageAggregation

Returns an object that contains severity counts based on the Amazon Resource Name (ARN) for a specific image.

Type: ImageAggregation object

Required: No

imagePipelineAggregation

Returns an object that contains severity counts based on an image pipeline ARN.

Type: ImagePipelineAggregation object

Required: No

vulnerabilityIdAggregation

Returns an object that contains severity counts based on vulnerability ID.

Type: VulnerabilityIdAggregation 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

ImageScanFindingsFilter

A name value pair that Image Builder applies to streamline results from the vulnerability scan findings list action.

Contents

name

The name of the image scan finding filter. Filter names are case-sensitive.

Type: String

Pattern: `^[a-zA-Z]{1,1024}$`

Required: No

values

The filter values. Filter values are case-sensitive.

Type: Array of strings

Array Members: Fixed number of 1 item.

Pattern: `^[0-9a-zA-Z./_ :,{}"-]{1,1024}$`

Required: No

See Also

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

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

ImageScanningConfiguration

Contains settings for Image Builder image resource and container image scans.

Contents

ecrConfiguration

Contains Amazon ECR settings for vulnerability scans.

Type: EcrConfiguration object

Required: No

imageScanningEnabled

A setting that indicates whether Image Builder keeps a snapshot of the vulnerability scans that Amazon Inspector runs against the build instance when you create a new image.

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

ImageScanState

Shows the vulnerability scan status for a specific image, and the reason for that status.

Contents

reason

The reason for the scan status for the image.

Type: String

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

Required: No

status

The current state of vulnerability scans for the image.

Type: String

Valid Values: `PENDING | SCANNING | COLLECTING | COMPLETED | ABANDONED | FAILED | TIMED_OUT`

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

ImageState

Image status and the reason for that status.

Contents

reason

The reason for the status of the image.

Type: String

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

Required: No

status

The status of the image.

Type: String

Valid Values: `PENDING | CREATING | BUILDING | TESTING | DISTRIBUTING | INTEGRATING | AVAILABLE | CANCELLED | FAILED | DEPRECATED | DELETED | DISABLED`

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

ImageSummary

An image summary.

Contents

arn

The Amazon Resource Name (ARN) of the image.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):(?:image-recipe|container-recipe|infrastructure-configuration|distribution-configuration|component|image|image-pipeline|lifecycle-policy|workflow\/(?:build|test|distribution))/[a-z0-9-_]+(?:/(?:(?:x|[0-9]+)\.(?:x|[0-9]+)\.(?:x|[0-9]+))(?:/[0-9]+)?)?$`

Required: No

buildType

Indicates the type of build that created this image. The build can be initiated in the following ways:

- **USER_INITIATED** – A manual pipeline build request.
- **SCHEDULED** – A pipeline build initiated by a cron expression in the Image Builder pipeline, or from EventBridge.
- **IMPORT** – A VM import created the image to use as the base image for the recipe.
- **IMPORT_ISO** – An ISO disk import created the image.

Type: String

Valid Values: `USER_INITIATED | SCHEDULED | IMPORT | IMPORT_ISO`

Required: No

dateCreated

The date on which Image Builder created this image.

Type: String

Required: No

deprecationTime

The time when deprecation occurs for an image resource. This can be a past or future date.

Type: Timestamp

Required: No

imageSource

The origin of the base image that Image Builder used to build this image.

Type: String

Valid Values: `AMAZON_MANAGED | AWS_MARKETPLACE | IMPORTED | CUSTOM`

Required: No

lifecycleExecutionId

Identifies the last runtime instance of the lifecycle policy to take action on the image.

Type: String

Pattern: `^lce-[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: No

loggingConfiguration

The logging configuration that's defined for the image.

Type: ImageLoggingConfiguration object

Required: No

name

The name of the image.

Type: String

Pattern: `^[-_A-Za-z-0-9][-_A-Za-z0-9 ]{1,126}[-_A-Za-z-0-9]$`

Required: No

osVersion

The operating system version of the instances that launch from this image. For example, Amazon Linux 2, Ubuntu 18, or Microsoft Windows Server 2019.

Type: String

Length Constraints: Minimum length of 1.

Required: No

outputResources

The output resources that Image Builder produced when it created this image.

Type: OutputResources object

Required: No

owner

The owner of the image.

Type: String

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

Required: No

platform

The image operating system platform, such as Linux or Windows.

Type: String

Valid Values: `Windows | Linux | macOS`

Required: No

state

The state of the image.

Type: ImageState object

Required: No

tags

The tags that apply to this image.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: Maximum length of 256.

Required: No

type

Specifies whether this image produces an AMI or a container image.

Type: String

Valid Values: `AMI | DOCKER`

Required: No

version

The version of the image.

Type: String

Pattern: `^[0-9]+\.[0-9]+\.[0-9]+$`

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

ImageTestsConfiguration

Configure image tests for your pipeline build. Tests run after building the image, to verify that the AMI or container image is valid before distributing it.

Contents

imageTestsEnabled

Determines if tests should run after building the image. Image Builder defaults to enable tests to run following the image build, before image distribution.

Type: Boolean

Required: No

timeoutMinutes

The maximum time in minutes that tests are permitted to run.

> **Note**
>
> The timeout property is not currently active. This value is ignored.

Type: Integer

Valid Range: Minimum value of 60. Maximum value of 1440.

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

ImageVersion

The defining characteristics of a specific version of an Image Builder image.

Contents

arn

The Amazon Resource Name (ARN) of a specific version of an Image Builder image.

> **Note**
>
> Semantic versioning is included in each object's Amazon Resource Name (ARN), at the level that applies to that object as follows:
>
> 1. Versionless ARNs and Name ARNs do not include specific values in any of the nodes. The nodes are either left off entirely, or they are specified as wildcards, for example: x.x.x.
> 2. Version ARNs have only the first three nodes: <major>.<minor>.<patch>
> 3. Build version ARNs have all four nodes, and point to a specific build for a specific version of an object.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):(?:image-recipe|container-recipe|infrastructure-configuration|distribution-configuration|component|image|image-pipeline|lifecycle-policy|workflow\/(?:build|test|distribution))/[a-z0-9-_]+(?:/(?:(?:x|[0-9]+)\.(?:x|[0-9]+)\.(?:x|[0-9]+))(?:/[0-9]+)?)?$`

Required: No

buildType

Indicates the type of build that created this image. The build can be initiated in the following ways:

- **USER_INITIATED** – A manual pipeline build request.
- **SCHEDULED** – A pipeline build initiated by a cron expression in the Image Builder pipeline, or from EventBridge.

- **IMPORT** – A VM import created the image to use as the base image for the recipe.
- **IMPORT_ISO** – An ISO disk import created the image.

Type: String

Valid Values: `USER_INITIATED | SCHEDULED | IMPORT | IMPORT_ISO`

Required: No

dateCreated

The date on which this specific version of the Image Builder image was created.

Type: String

Required: No

imageSource

The origin of the base image that Image Builder used to build this image.

Type: String

Valid Values: `AMAZON_MANAGED | AWS_MARKETPLACE | IMPORTED | CUSTOM`

Required: No

name

The name of this specific version of an Image Builder image.

Type: String

Pattern: `^[-_A-Za-z-0-9][-_A-Za-z0-9 ]{1,126}[-_A-Za-z-0-9]$`

Required: No

osVersion

The operating system version of the Amazon EC2 build instance. For example, Amazon Linux 2, Ubuntu 18, or Microsoft Windows Server 2019.

Type: String

Length Constraints: Minimum length of 1.

Required: No

owner

The owner of the image version.

Type: String

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

Required: No

platform

The operating system platform of the image version, for example "Windows" or "Linux".

Type: String

Valid Values: `Windows | Linux | macOS`

Required: No

type

Specifies whether this image produces an AMI or a container image.

Type: String

Valid Values: `AMI | DOCKER`

Required: No

version

Details for a specific version of an Image Builder image. This version follows the semantic version syntax.

> **Note**
>
> The semantic version has four nodes: <major>.<minor>.<patch>/<build>. You can assign values for the first three, and can filter on all of them.
> **Assignment:** For the first three nodes you can assign any positive integer value, including zero, with an upper limit of 2^30-1, or 1073741823 for each node. Image Builder automatically assigns the build number to the fourth node.

Patterns: You can use any numeric pattern that adheres to the assignment requirements for the nodes that you can assign. For example, you might choose a software version pattern, such as 1.0.0, or a date, such as 2021.01.01.
Filtering: With semantic versioning, you have the flexibility to use wildcards (x) to specify the most recent versions or nodes when selecting the base image or components for your recipe. When you use a wildcard in any node, all nodes to the right of the first wildcard must also be wildcards.

Type: String

Pattern: `^[0-9]+\.[0-9]+\.[0-9]+$`

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

InfrastructureConfiguration

Details of the infrastructure configuration.

Contents

arn

The Amazon Resource Name (ARN) of the infrastructure configuration.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):(?:image-recipe|container-recipe|infrastructure-configuration|distribution-configuration|component|image|image-pipeline|lifecycle-policy|workflow\/(?:build|test|distribution))/[a-z0-9-_]+(?:/(?:(?:x|[0-9]+)\.(?:x|[0-9]+)\.(?:x|[0-9]+))(?:/[0-9]+)?)?$`

Required: No

dateCreated

The date on which the infrastructure configuration was created.

Type: String

Required: No

dateUpdated

The date on which the infrastructure configuration was last updated.

Type: String

Required: No

description

The description of the infrastructure configuration.

Type: String

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

Required: No

instanceMetadataOptions

The instance metadata option settings for the infrastructure configuration.

Type: InstanceMetadataOptions object

Required: No

instanceProfileName

The instance profile of the infrastructure configuration.

Type: String

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

Pattern: `^[\w+=,.@-]+$`

Required: No

instanceTypes

The instance types of the infrastructure configuration.

Type: Array of strings

Required: No

keyPair

The Amazon EC2 key pair of the infrastructure configuration.

Type: String

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

Required: No

logging

The logging configuration of the infrastructure configuration.

Type: Logging object

Required: No

name

The name of the infrastructure configuration.

Type: String

Pattern: `^[-_A-Za-z-0-9][-_A-Za-z0-9 ]{1,126}[-_A-Za-z-0-9]$`

Required: No

placement

The instance placement settings that define where the instances that are launched from your image will run.

Type: Placement object

Required: No

resourceTags

The tags attached to the resource created by Image Builder.

Type: String to string map

Map Entries: Maximum number of 30 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: Maximum length of 256.

Required: No

securityGroupIds

The security group IDs of the infrastructure configuration.

Type: Array of strings

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

Required: No

snsTopicArn

The Amazon Resource Name (ARN) for the SNS topic to which we send image build event notifications.

> **Note**
>
> EC2 Image Builder is unable to send notifications to SNS topics that are encrypted using keys from other accounts. The key that is used to encrypt the SNS topic must reside in the account that the Image Builder service runs under.

Type: String

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

Required: No

subnetId

The subnet ID of the infrastructure configuration.

Type: String

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

Required: No

tags

The tags of the infrastructure configuration.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: Maximum length of 256.

Required: No

terminateInstanceOnFailure

The terminate instance on failure configuration of the infrastructure configuration.

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

InfrastructureConfigurationSummary

The infrastructure used when building Amazon EC2 AMIs.

Contents

arn

The Amazon Resource Name (ARN) of the infrastructure configuration.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):(?:image-recipe|container-recipe|infrastructure-configuration|distribution-configuration|component|image|image-pipeline|lifecycle-policy|workflow\/(?:build|test|distribution))/[a-z0-9-_]+(?:/(?:(?:x|[0-9]+)\.(?:x|[0-9]+)\.(?:x|[0-9]+))(?:/[0-9]+)?)?$`

Required: No

dateCreated

The date on which the infrastructure configuration was created.

Type: String

Required: No

dateUpdated

The date on which the infrastructure configuration was last updated.

Type: String

Required: No

description

The description of the infrastructure configuration.

Type: String

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

Required: No

instanceProfileName

The instance profile of the infrastructure configuration.

Type: String

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

Pattern: `^[\w+=,.@-]+$`

Required: No

instanceTypes

The instance types of the infrastructure configuration.

Type: Array of strings

Required: No

name

The name of the infrastructure configuration.

Type: String

Pattern: `^[-_A-Za-z-0-9][-_A-Za-z0-9 ]{1,126}[-_A-Za-z-0-9]$`

Required: No

placement

The instance placement settings that define where the instances that are launched from your image will run.

Type: Placement object

Required: No

resourceTags

The tags attached to the image created by Image Builder.

Type: String to string map

Map Entries: Maximum number of 30 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: Maximum length of 256.

Required: No

tags

The tags of the infrastructure configuration.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: 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

InspectorScoreDetails

Information about the factors that influenced the score that Amazon Inspector assigned for a finding.

Contents

adjustedCvss

An object that contains details about an adjustment that Amazon Inspector made to the CVSS score for the 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

InstanceBlockDeviceMapping

Defines block device mappings for the instance used to configure your image.

Contents

deviceName

The device to which these mappings apply.

Type: String

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

Required: No

ebs

Use to manage Amazon EBS-specific configuration for this mapping.

Type: EbsInstanceBlockDeviceSpecification object

Required: No

noDevice

Use to remove a mapping from the base image.

Type: String

Length Constraints: Fixed length of 0.

Required: No

virtualName

Use to manage instance ephemeral devices.

Type: String

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

Required: No

See Also

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

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

InstanceConfiguration

Defines a custom base AMI and block device mapping configurations of an instance used for building and testing container images.

Contents

blockDeviceMappings

Defines the block devices to attach for building an instance from this Image Builder AMI.

Type: Array of InstanceBlockDeviceMapping objects

Required: No

image

The base image for a container build and test instance. This can contain an AMI ID or it can specify an AWS Systems Manager (SSM) Parameter Store Parameter, prefixed by `ssm:`, followed by the parameter name or ARN.

If not specified, Image Builder uses the appropriate ECS-optimized AMI as a base image.

Type: String

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

Required: No

See Also

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

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

InstanceMetadataOptions

The instance metadata options that apply to the HTTP requests that pipeline builds use to launch EC2 build and test instances. For more information about instance metadata options, see Configure the instance metadata options in the Amazon EC2 User Guide for Linux instances, or Configure the instance metadata options in the Amazon EC2 Windows Guide for Windows instances.

Contents

httpPutResponseHopLimit

Limit the number of hops that an instance metadata request can traverse to reach its destination. The default is one hop. However, if HTTP tokens are required, container image builds need a minimum of two hops.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 64.

Required: No

httpTokens

Indicates whether a signed token header is required for instance metadata retrieval requests. The values affect the response as follows:

- **required** – When you retrieve the IAM role credentials, version 2.0 credentials are returned in all cases.
- **optional** – You can include a signed token header in your request to retrieve instance metadata, or you can leave it out. If you include it, version 2.0 credentials are returned for the IAM role. Otherwise, version 1.0 credentials are returned.

The default setting is **optional**.

Type: String

Pattern: `optional|required`

Required: No

See Also

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

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

LatestVersionReferences

The resource ARNs with different wildcard variations of semantic versioning.

Contents

latestMajorVersionArn

The latest version Amazon Resource Name (ARN) with the same `major` version of the Image Builder resource.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):(?:image-recipe|container-recipe|infrastructure-configuration|distribution-configuration|component|image|image-pipeline|lifecycle-policy|workflow\/(?:build|test|distribution))/[a-z0-9-_]+(?:/(?:(?:x|[0-9]+)\.(?:x|[0-9]+)\.(?:x|[0-9]+))(?:/[0-9]+)?)?$`

Required: No

latestMinorVersionArn

The latest version Amazon Resource Name (ARN) with the same `minor` version of the Image Builder resource.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):(?:image-recipe|container-recipe|infrastructure-configuration|distribution-configuration|component|image|image-pipeline|lifecycle-policy|workflow\/(?:build|test|distribution))/[a-z0-9-_]+(?:/(?:(?:x|[0-9]+)\.(?:x|[0-9]+)\.(?:x|[0-9]+))(?:/[0-9]+)?)?$`

Required: No

latestPatchVersionArn

The latest version Amazon Resource Name (ARN) with the same `patch` version of the Image Builder resource.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):(?:image-recipe|container-recipe|infrastructure-configuration|distribution-configuration|component|image|image-pipeline|lifecycle-policy|workflow\/(?:build|test|distribution))/[a-z0-9-_]+(?:/(?:(?:x|[0-9]+)\.(?:x|[0-9]+)\.(?:x|[0-9]+))(?:/[0-9]+)?)?$`

Required: No

latestVersionArn

The latest version Amazon Resource Name (ARN) of the Image Builder resource.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):(?:image-recipe|container-recipe|infrastructure-configuration|distribution-configuration|component|image|image-pipeline|lifecycle-policy|workflow\/(?:build|test|distribution))/[a-z0-9-_]+(?:/(?:(?:x|[0-9]+)\.(?:x|[0-9]+)\.(?:x|[0-9]+))(?:/[0-9]+)?)?$`

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

LaunchPermissionConfiguration

Describes the configuration for a launch permission. The launch permission modification request is sent to the Amazon EC2 ModifyImageAttribute API on behalf of the user for each Region they have selected to distribute the AMI. To make an AMI public, set the launch permission authorized accounts to `all`. See the examples for making an AMI public at Amazon EC2 ModifyImageAttribute.

Contents

organizationalUnitArns

The ARN for an AWS Organizations organizational unit (OU) that you want to share your AMI with. For more information about key concepts for AWS Organizations, see AWS Organizations terminology and concepts.

Type: Array of strings

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

Pattern: `^arn:aws[^:]*:organizations::[0-9]{12}:ou/o-[a-z0-9]{10,32}/ou-[0-9a-z]{4,32}-[0-9a-z]{8,32}`

Required: No

organizationArns

The ARN for an AWS Organization that you want to share your AMI with. For more information, see What is AWS Organizations?.

Type: Array of strings

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

Pattern: `^arn:aws[^:]*:organizations::[0-9]{12}:organization/o-[a-z0-9]{10,32}$`

Required: No

userGroups

The name of the group.

Type: Array of strings

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

Required: No

userIds

The AWS account ID.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 1536 items.

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

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

LaunchTemplateConfiguration

Identifies an Amazon EC2 launch template to use for a specific account.

Contents

launchTemplateId

Identifies the Amazon EC2 launch template to use.

Type: String

Pattern: `^lt-[a-z0-9-_]{17}$`

Required: Yes

accountId

The account ID that this configuration applies to.

Type: String

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

Required: No

setDefaultVersion

Set the specified Amazon EC2 launch template as the default launch template for the specified account.

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

LifecycleExecution

Contains metadata from a runtime instance of a lifecycle policy.

Contents

endTime

The timestamp when the lifecycle runtime instance completed.

Type: Timestamp

Required: No

lifecycleExecutionId

Identifies the lifecycle policy runtime instance.

Type: String

Pattern: `^lce-[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: No

lifecyclePolicyArn

The Amazon Resource Name (ARN) of the lifecycle policy that ran.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: `^arn:aws(?:-[a-z]+)*:imagebuilder:[a-z]{2,}(?:-[a-z]+)+-[0-9]+:(?:[0-9]{12}|aws):lifecycle-policy/[a-z0-9-_]+$`

Required: No

resourcesImpactedSummary

Contains information about associated resources that are identified for action by the runtime instance of the lifecycle policy.

Type: LifecycleExecutionResourcesImpactedSummary object

Required: No

startTime

The timestamp when the lifecycle runtime instance started.

Type: Timestamp

Required: No

state

Runtime state that reports if the policy action ran successfully, failed, or was skipped.

Type: LifecycleExecutionState 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

LifecycleExecutionResource

Contains details for a resource that the runtime instance of the lifecycle policy identified for action.

Contents

accountId

The account that owns the impacted resource.

Type: String

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

Required: No

action

The action to take for the identified resource.

Type: LifecycleExecutionResourceAction object

Required: No

endTime

The ending timestamp from the lifecycle action that was applied to the resource.

Type: Timestamp

Required: No

imageUris

For an impacted container image, this identifies a list of URIs for associated container images distributed to ECR repositories.

Type: Array of strings

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

Required: No

region

The AWS Region where the lifecycle execution resource is stored.

Type: String

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

Required: No

resourceId

Identifies the impacted resource. The resource ID depends on the type of resource, as follows.

- Image Builder image resources: Amazon Resource Name (ARN)
- Distributed AMIs: AMI ID
- Container images distributed to an ECR repository: image URI or SHA Digest

Type: String

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

Required: No

snapshots

A list of associated resource snapshots for the impacted resource if it's an AMI.

Type: Array of LifecycleExecutionSnapshotResource objects

Required: No

startTime

The starting timestamp from the lifecycle action that was applied to the resource.

Type: Timestamp

Required: No

state

The runtime state for the lifecycle execution.

Type: LifecycleExecutionResourceState 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

LifecycleExecutionResourceAction

The lifecycle policy action that was identified for the impacted resource.

Contents

name

The name of the resource that was identified for a lifecycle policy action.

Type: String

Valid Values: `AVAILABLE | DELETE | DEPRECATE | DISABLE`

Required: No

reason

The reason why the lifecycle policy action is taken.

Type: String

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

Required: No

See Also

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

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

LifecycleExecutionResourcesImpactedSummary

Contains details for an image resource that was identified for a lifecycle action.

Contents

hasImpactedResources

Indicates whether an image resource that was identified for a lifecycle action has associated resources that are also impacted.

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

LifecycleExecutionResourceState

Contains the state of an impacted resource that the runtime instance of the lifecycle policy identified for action.

Contents

reason

Messaging that clarifies the reason for the assigned status.

Type: String

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

Required: No

status

The runtime status of the lifecycle action taken for the impacted resource.

Type: String

Valid Values: `FAILED | IN_PROGRESS | SKIPPED | SUCCESS`

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

LifecycleExecutionSnapshotResource

Contains the state of an impacted snapshot resource that the runtime instance of the lifecycle policy identified for action.

Contents

snapshotId

Identifies the impacted snapshot resource.

Type: String

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

Required: No

state

The runtime status of the lifecycle action taken for the snapshot.

Type: LifecycleExecutionResourceState 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

LifecycleExecutionState

The current state of the runtime instance of the lifecycle policy.

Contents

reason

The reason for the current status.

Type: String

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

Required: No

status

The runtime status of the lifecycle execution.

Type: String

Valid Values: `IN_PROGRESS | CANCELLED | CANCELLING | FAILED | SUCCESS | PENDING`

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

LifecyclePolicy

The configuration details for a lifecycle policy resource.

Contents

arn

The Amazon Resource Name (ARN) of the lifecycle policy resource.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: `^arn:aws(?:-[a-z]+)*:imagebuilder:[a-z]{2,}(?:-[a-z]+)+-[0-9]+:(?:[0-9]{12}|aws):lifecycle-policy/[a-z0-9-_]+$`

Required: No

dateCreated

The timestamp when Image Builder created the lifecycle policy resource.

Type: Timestamp

Required: No

dateLastRun

The timestamp for the last time Image Builder ran the lifecycle policy.

Type: Timestamp

Required: No

dateUpdated

The timestamp when Image Builder updated the lifecycle policy resource.

Type: Timestamp

Required: No

description

Optional description for the lifecycle policy.

Type: String

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

Required: No

executionRole

The name or Amazon Resource Name (ARN) of the IAM role that Image Builder uses to run the lifecycle policy. This is a custom role that you create.

Type: String

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

Pattern: `^(?:arn:aws(?:-[a-z]+)*:iam::[0-9]{12}:role/)?[a-zA-Z_0-9+=,.@\-_/]+$`

Required: No

name

The name of the lifecycle policy.

Type: String

Pattern: `^[-_A-Za-z-0-9][-_A-Za-z0-9 ]{1,126}[-_A-Za-z-0-9]$`

Required: No

policyDetails

The configuration details for a lifecycle policy resource.

Type: Array of LifecyclePolicyDetail objects

Array Members: Minimum number of 1 item. Maximum number of 3 items.

Required: No

resourceSelection

Resource selection criteria used to run the lifecycle policy.

Type: LifecyclePolicyResourceSelection object

Required: No

resourceType

The type of resources the lifecycle policy targets.

Type: String

Valid Values: `AMI_IMAGE | CONTAINER_IMAGE`

Required: No

status

Indicates whether the lifecycle policy resource is enabled.

Type: String

Valid Values: `DISABLED | ENABLED`

Required: No

tags

To help manage your lifecycle policy resources, you can assign your own metadata to each resource in the form of tags. Each tag consists of a key and an optional value, both of which you define.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: 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

LifecyclePolicyDetail

The configuration details for a lifecycle policy resource.

Contents

action

Configuration details for the policy action.

Type: LifecyclePolicyDetailAction object

Required: Yes

filter

Specifies the resources that the lifecycle policy applies to.

Type: LifecyclePolicyDetailFilter object

Required: Yes

exclusionRules

Additional rules to specify resources that should be exempt from policy actions.

Type: LifecyclePolicyDetailExclusionRules 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

LifecyclePolicyDetailAction

Contains selection criteria for the lifecycle policy.

Contents

type

Specifies the lifecycle action to take.

Type: String

Valid Values: `DELETE | DEPRECATE | DISABLE`

Required: Yes

includeResources

Specifies the resources that the lifecycle policy applies to.

Type: LifecyclePolicyDetailActionIncludeResources 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

LifecyclePolicyDetailActionIncludeResources

Specifies how the lifecycle policy should apply actions to selected resources.

Contents

amis

Specifies whether the lifecycle action should apply to distributed AMIs.

Type: Boolean

Required: No

containers

Specifies whether the lifecycle action should apply to distributed containers.

Type: Boolean

Required: No

snapshots

Specifies whether the lifecycle action should apply to snapshots associated with distributed AMIs.

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

LifecyclePolicyDetailExclusionRules

Specifies resources that lifecycle policy actions should not apply to.

Contents

amis

Lists configuration values that apply to AMIs that Image Builder should exclude from the lifecycle action.

Type: LifecyclePolicyDetailExclusionRulesAmis object

Required: No

tagMap

Contains a list of tags that Image Builder uses to skip lifecycle actions for Image Builder image resources that have them.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: 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

LifecyclePolicyDetailExclusionRulesAmis

Defines criteria for AMIs that are excluded from lifecycle actions.

Contents

isPublic

Configures whether public AMIs are excluded from the lifecycle action.

Type: Boolean

Required: No

lastLaunched

Specifies configuration details for Image Builder to exclude the most recent resources from lifecycle actions.

Type: LifecyclePolicyDetailExclusionRulesAmisLastLaunched object

Required: No

regions

Configures AWS Regions that are excluded from the lifecycle action.

Type: Array of strings

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

Required: No

sharedAccounts

Specifies AWS accounts whose resources are excluded from the lifecycle action.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 1536 items.

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

Required: No

tagMap

Lists tags that should be excluded from lifecycle actions for the AMIs that have them.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: 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

LifecyclePolicyDetailExclusionRulesAmisLastLaunched

Defines criteria to exclude AMIs from lifecycle actions based on the last time they were used to launch an instance.

Contents

unit

Defines the unit of time that the lifecycle policy uses to calculate elapsed time since the last instance launched from the AMI. For example: days, weeks, months, or years.

Type: String

Valid Values: `DAYS | WEEKS | MONTHS | YEARS`

Required: Yes

value

The integer number of units for the time period. For example 6 (months).

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 365.

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

LifecyclePolicyDetailFilter

Defines filters that the lifecycle policy uses to determine impacted resource.

Contents

type

Filter resources based on either `age` or `count`.

Type: String

Valid Values: `AGE` | `COUNT`

Required: Yes

value

The number of units for the time period or for the count. For example, a value of 6 might refer to six months or six AMIs.

> **Note**
>
> For count-based filters, this value represents the minimum number of resources to keep on hand. If you have fewer resources than this number, the resource is excluded from lifecycle actions.

Type: Integer

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

Required: Yes

retainAtLeast

For age-based filters, this is the number of resources to keep on hand after the lifecycle `DELETE` action is applied. Impacted resources are only deleted if you have more than this number of resources. If you have fewer resources than this number, the impacted resource is not deleted.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10.

Required: No

unit

Defines the unit of time that the lifecycle policy uses to determine impacted resources. This is required for age-based rules.

Type: String

Valid Values: `DAYS` | `WEEKS` | `MONTHS` | `YEARS`

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

LifecyclePolicyResourceSelection

Resource selection criteria for the lifecycle policy.

Contents

recipes

A list of recipes that are used as selection criteria for the output images that the lifecycle policy applies to.

Type: Array of LifecyclePolicyResourceSelectionRecipe objects

Array Members: Minimum number of 1 item. Maximum number of 50 items.

Required: No

tagMap

A list of tags that are used as selection criteria for the Image Builder image resources that the lifecycle policy applies to.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: 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

LifecyclePolicyResourceSelectionRecipe

Specifies an Image Builder recipe that the lifecycle policy uses for resource selection.

Contents

name

The name of an Image Builder recipe that the lifecycle policy uses for resource selection.

Type: String

Pattern: `^[-_A-Za-z-0-9][-_A-Za-z0-9 ]{1,126}[-_A-Za-z-0-9]$`

Required: Yes

semanticVersion

The version of the Image Builder recipe specified by the `name` field.

Type: String

Pattern: `^[0-9]+\.[0-9]+\.[0-9]+$`

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

LifecyclePolicySummary

Contains a summary of lifecycle policy resources.

Contents

arn

The Amazon Resource Name (ARN) of the lifecycle policy summary resource.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: `^arn:aws(?:-[a-z]+)*:imagebuilder:[a-z]{2,}(?:-[a-z]+)+-[0-9]+:(?:[0-9]{12}|aws):lifecycle-policy/[a-z0-9-_]+$`

Required: No

dateCreated

The timestamp when Image Builder created the lifecycle policy resource.

Type: Timestamp

Required: No

dateLastRun

The timestamp for the last time Image Builder ran the lifecycle policy.

Type: Timestamp

Required: No

dateUpdated

The timestamp when Image Builder updated the lifecycle policy resource.

Type: Timestamp

Required: No

description

Optional description for the lifecycle policy.

Type: String

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

Required: No

executionRole

The name or Amazon Resource Name (ARN) of the IAM role that Image Builder uses to run the lifecycle policy.

Type: String

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

Pattern: `^(?:arn:aws(?:-[a-z]+)*:iam::[0-9]{12}:role/)?[a-zA-Z_0-9+=,.@\-_/]+$`

Required: No

name

The name of the lifecycle policy.

Type: String

Pattern: `^[-_A-Za-z-0-9][-_A-Za-z0-9 ]{1,126}[-_A-Za-z-0-9]$`

Required: No

resourceType

The type of resources the lifecycle policy targets.

Type: String

Valid Values: `AMI_IMAGE | CONTAINER_IMAGE`

Required: No

status

The lifecycle policy resource status.

Type: String

Valid Values: `DISABLED | ENABLED`

Required: No

tags

To help manage your lifecycle policy resources, you can assign your own metadata to each resource in the form of tags. Each tag consists of a key and an optional value, both of which you define.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: 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

Logging

Logging configuration defines where Image Builder uploads your logs.

Contents

s3Logs

The Amazon S3 logging configuration.

Type: S3Logs 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

OutputResources

The resources produced by this image.

Contents

amis

The Amazon EC2 AMIs created by this image.

Type: Array of Ami objects

Required: No

containers

Container images that the pipeline has generated and stored in the output repository.

Type: Array of Container 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

PackageVulnerabilityDetails

Information about package vulnerability findings.

Contents

vulnerabilityId

A unique identifier for this vulnerability.

Type: String

Required: Yes

cvss

CVSS scores for one or more vulnerabilities that Amazon Inspector identified for a package.

Type: Array of CvssScore objects

Required: No

referenceUrls

Links to web pages that contain details about the vulnerabilities that Amazon Inspector identified for the package.

Type: Array of strings

Array Members: Minimum number of 1 item.

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

Required: No

relatedVulnerabilities

Vulnerabilities that are often related to the findings for the package.

Type: Array of strings

Required: No

source

The source of the vulnerability information.

Type: String

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

Required: No

sourceUrl

A link to the source of the vulnerability information.

Type: String

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

Required: No

vendorCreatedAt

The date and time when this vulnerability was first added to the vendor's database.

Type: Timestamp

Required: No

vendorSeverity

The severity that the vendor assigned to this vulnerability type.

Type: String

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

Required: No

vendorUpdatedAt

The date and time when the vendor last updated this vulnerability in their database.

Type: Timestamp

Required: No

vulnerablePackages

The packages that this vulnerability impacts.

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

PipelineLoggingConfiguration

The logging configuration that's defined for pipeline execution.

Contents

imageLogGroupName

The log group name that Image Builder uses for image creation. If not specified, the log group name defaults to `/aws/imagebuilder/image-name`.

Type: String

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

Pattern: `^[a-zA-Z0-9\-_/\.]{1,512}$`

Required: No

pipelineLogGroupName

The log group name that Image Builder uses for the log output during creation of a new pipeline. If not specified, the pipeline log group name defaults to `/aws/imagebuilder/pipeline/pipeline-name`.

Type: String

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

Pattern: `^[a-zA-Z0-9\-_/\.]{1,512}$`

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

Placement

By default, EC2 instances run on shared tenancy hardware. This means that multiple AWS accounts might share the same physical hardware. When you use dedicated hardware, the physical server that hosts your instances is dedicated to your AWS account. Instance placement settings contain the details for the physical hardware where instances that Image Builder launches during image creation will run.

Contents

availabilityZone

The Availability Zone where your build and test instances will launch.

Type: String

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

Required: No

hostId

The ID of the Dedicated Host on which build and test instances run. This only applies if `tenancy` is `host`. If you specify the host ID, you must not specify the resource group ARN. If you specify both, Image Builder returns an error.

Type: String

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

Required: No

hostResourceGroupArn

The Amazon Resource Name (ARN) of the host resource group in which to launch build and test instances. This only applies if `tenancy` is `host`. If you specify the resource group ARN, you must not specify the host ID. If you specify both, Image Builder returns an error.

Type: String

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

Required: No

tenancy

The tenancy of the instance. An instance with a tenancy of `dedicated` runs on single-tenant hardware. An instance with a tenancy of `host` runs on a Dedicated Host.

If tenancy is set to `host`, then you can optionally specify one target for placement – either host ID or host resource group ARN. If automatic placement is enabled for your host, and you don't specify any placement target, Amazon EC2 will try to find an available host for your build and test instances.

Type: String

Valid Values: `default | dedicated | host`

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

ProductCodeListItem

Information about a single product code.

Contents

productCodeId

For AWS Marketplace components, this contains the product code ID that can be stamped onto an EC2 AMI to ensure that components are billed correctly. If this property is empty, it might mean that the component is not published.

Type: String

Pattern: `^[A-Za-z0-9]{1,25}$`

Required: Yes

productCodeType

The owner of the product code that's billed. If this property is empty, it might mean that the component is not published.

Type: String

Valid Values: `marketplace`

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 about how to remediate a finding.

Contents

recommendation

An object that contains information about the recommended course of action to remediate the finding.

Type: RemediationRecommendation 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

RemediationRecommendation

Details about the recommended course of action to remediate the finding.

Contents

text

The recommended course of action to remediate the finding.

Type: String

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

Required: No

url

A link to more information about the recommended remediation for this vulnerability.

Type: String

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

Required: No

See Also

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

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

ResourceState

The current state of an impacted resource.

Contents

status

Shows the current lifecycle policy action that was applied to an impacted resource.

Type: String

Valid Values: `AVAILABLE | DELETED | DEPRECATED | DISABLED`

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

ResourceStateUpdateExclusionRules

Additional rules to specify resources that should be exempt from ad-hoc lifecycle actions.

Contents

amis

Defines criteria for AMIs that are excluded from lifecycle actions.

Type: LifecyclePolicyDetailExclusionRulesAmis 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

ResourceStateUpdateIncludeResources

Specifies if the lifecycle policy should apply actions to selected resources.

Contents

amis

Specifies whether the lifecycle action should apply to distributed AMIs

Type: Boolean

Required: No

containers

Specifies whether the lifecycle action should apply to distributed containers.

Type: Boolean

Required: No

snapshots

Specifies whether the lifecycle action should apply to snapshots associated with distributed AMIs.

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

S3ExportConfiguration

Properties that configure export from your build instance to a compatible file format for your VM.

Contents

diskImageFormat

Export the updated image to one of the following supported disk image formats:

- **Virtual Hard Disk (VHD)** – Compatible with Citrix Xen and Microsoft Hyper-V virtualization products.
- **Stream-optimized ESX Virtual Machine Disk (VMDK)** – Compatible with VMware ESX and VMware vSphere versions 4, 5, and 6.
- **Raw** – Raw format.

Type: String

Valid Values: `VMDK | RAW | VHD`

Required: Yes

roleName

The name of the role that grants VM Import/Export permission to export images to your S3 bucket.

Type: String

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

Required: Yes

s3Bucket

The S3 bucket in which to store the output disk images for your VM.

Type: String

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

Required: Yes

s3Prefix

The Amazon S3 path for the bucket where the output disk images for your VM are stored.

Type: String

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

Required: No

See Also

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

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

S3Logs

Amazon S3 logging configuration.

Contents

s3BucketName

The S3 bucket in which to store the logs.

Type: String

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

Required: No

s3KeyPrefix

The Amazon S3 path to the bucket where the logs are stored.

Type: String

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

Required: No

See Also

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

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

Schedule

A schedule configures when and how often a pipeline will automatically create a new image.

Contents

autoDisablePolicy

The policy that configures when Image Builder should automatically disable a pipeline that is failing.

Type: AutoDisablePolicy object

Required: No

pipelineExecutionStartCondition

The start condition configures when the pipeline should trigger a new image build, as follows. If no value is set Image Builder defaults to `EXPRESSION_MATCH_AND_DEPENDENCY_UPDATES_AVAILABLE`.

- `EXPRESSION_MATCH_AND_DEPENDENCY_UPDATES_AVAILABLE` (default) – When you use semantic version filters on the base image or components in your image recipe, EC2 Image Builder builds a new image only when there are new versions of the base image or components in your recipe that match the filter.

  > **Note**
  >
  > For semantic version syntax, see CreateComponent.

- `EXPRESSION_MATCH_ONLY` – This condition builds a new image every time the CRON expression matches the current time.

Type: String

Valid Values: `EXPRESSION_MATCH_ONLY` | `EXPRESSION_MATCH_AND_DEPENDENCY_UPDATES_AVAILABLE`

Required: No

scheduleExpression

The cron expression determines how often EC2 Image Builder evaluates your `pipelineExecutionStartCondition`.

For information on how to format a cron expression in Image Builder, see Use cron expressions in EC2 Image Builder.

Type: String

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

Required: No

timezone

The timezone that applies to the scheduling expression. For example, "Etc/UTC", "America/Los_Angeles" in the IANA timezone format. If not specified this defaults to UTC.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 100.

Pattern: `[a-zA-Z0-9]{2,}(?:\/[a-zA-Z0-9-_+]+)*`

Required: No

See Also

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

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

SeverityCounts

Includes counts by severity level for medium severity and higher level findings, plus a total for all of the findings for the specified filter.

Contents

all

The total number of findings across all severity levels for the specified filter.

Type: Long

Required: No

critical

The number of critical severity findings for the specified filter.

Type: Long

Required: No

high

The number of high severity findings for the specified filter.

Type: Long

Required: No

medium

The number of medium severity findings for the specified filter.

Type: Long

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

SsmParameterConfiguration

Configuration for a single Parameter in the AWS Systems Manager (SSM) Parameter Store in a given Region.

Contents

parameterName

This is the name of the Parameter in the target Region or account. The image distribution creates the Parameter if it doesn't already exist. Otherwise, it updates the parameter.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `^[a-zA-Z0-9_.\-\/]+$`

Required: Yes

amiAccountId

Specify the account that will own the Parameter in a given Region. During distribution, this account must be specified in distribution settings as a target account for the Region.

Type: String

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

Required: No

dataType

The data type specifies what type of value the Parameter contains. We recommend that you use data type `aws:ec2:image`.

Type: String

Valid Values: `text | aws:ec2:image`

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

SystemsManagerAgent

Contains settings for the Systems Manager agent on your build instance.

Contents

uninstallAfterBuild

Controls whether the Systems Manager agent is removed from your final build image, prior to creating the new AMI. If this is set to true, then the agent is removed from the final image. If it's set to false, then the agent is left in, so that it is included in the new AMI. default value is false.

The default behavior of uninstallAfterBuild is to remove the SSM Agent if it was installed by EC2 Image Builder

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

TargetContainerRepository

The container repository where the output container image is stored.

Contents

repositoryName

The name of the container repository where the output container image is stored. This name is prefixed by the repository location. For example, `<repository location url>/repository_name`.

Type: String

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

Required: Yes

service

Specifies the service in which this image was registered.

Type: String

Valid Values: ECR

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

VulnerabilityIdAggregation

Includes counts of image and pipeline resource findings by vulnerability.

Contents

severityCounts

Counts by severity level for medium severity and higher level findings, plus a total for all of the findings for the specified vulnerability.

Type: SeverityCounts object

Required: No

vulnerabilityId

The vulnerability Id for this set of counts.

Type: String

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

Required: No

See Also

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

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

VulnerablePackage

Information about a vulnerable package that Amazon Inspector identifies in 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

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

Required: No

fixedInVersion

The version of the package that contains the vulnerability fix.

Type: String

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

Required: No

name

The name of the vulnerable package.

Type: String

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

Required: No

packageManager

The package manager of the vulnerable package.

Type: String

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

Required: No

release

The release of the vulnerable package.

Type: String

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

Required: No

remediation

The code to run in your environment to update packages with a fix available.

Type: String

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

Required: No

sourceLayerHash

The source layer hash of the vulnerable package.

Type: String

Required: No

version

The version of the vulnerable package.

Type: String

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

Required: No

See Also

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

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

Workflow

Defines a process that Image Builder uses to build and test images during the image creation process.

Contents

arn

The Amazon Resource Name (ARN) of the workflow resource.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: `^arn:aws(?:-[a-z]+)*:imagebuilder:[a-z]{2,}(?:-[a-z]+)+-[0-9]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):workflow/(build|test|distribution)/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+/[0-9]+$`

Required: No

changeDescription

Describes what change has been made in this version of the workflow, or what makes this version different from other versions of the workflow.

Type: String

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

Required: No

data

Contains the YAML document content for the workflow.

Type: String

Required: No

dateCreated

The timestamp when Image Builder created the workflow resource.

Type: String

Required: No

description

The description of the workflow.

Type: String

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

Required: No

kmsKeyId

The KMS key identifier used to encrypt the workflow resource. This can be either the Key ARN or the Alias ARN. For more information, see Key identifiers (KeyId) in the *AWS Key Management Service Developer Guide*.

Type: String

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

Required: No

name

The name of the workflow resource.

Type: String

Pattern: `^[-_A-Za-z-0-9][-_A-Za-z0-9 ]{1,126}[-_A-Za-z-0-9]$`

Required: No

owner

The owner of the workflow resource.

Type: String

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

Required: No

parameters

An array of input parameters that that the image workflow uses to control actions or configure settings.

Type: Array of WorkflowParameterDetail objects

Required: No

state

Describes the current status of the workflow and the reason for that status.

Type: WorkflowState object

Required: No

tags

The tags that apply to the workflow resource

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: Maximum length of 256.

Required: No

type

Specifies the image creation stage that the workflow applies to. Image Builder currently supports build and test workflows.

Type: String

Valid Values: `BUILD | TEST | DISTRIBUTION`

Required: No

version

The workflow resource version. Workflow resources are immutable. To make a change, you can clone a workflow or create a new version.

Type: String

Pattern: `^[0-9]+\.[0-9]+\.[0-9]+$`

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

WorkflowConfiguration

Contains control settings and configurable inputs for a workflow resource.

Contents

workflowArn

The Amazon Resource Name (ARN) of the workflow resource.

Type: String

Pattern: `^arn:aws(?:-[a-z]+)*:imagebuilder:[a-z]{2,}(?:-[a-z]+)+-[0-9]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):workflow/(build|test|distribution)/[a-z0-9-_]+/(?:(?:([0-9]+|x)\.([0-9]+|x)\.([0-9]+|x))|(?:[0-9]+\.[0-9]+\.[0-9]+/[0-9]+))$`

Required: Yes

onFailure

The action to take if the workflow fails.

Type: String

Valid Values: `CONTINUE | ABORT`

Required: No

parallelGroup

Test workflows are defined within named runtime groups called parallel groups. The parallel group is the named group that contains this test workflow. Test workflows within a parallel group can run at the same time. Image Builder starts up to five test workflows in the group at the same time, and starts additional workflows as others complete, until all workflows in the group have completed. This field only applies for test workflows.

Type: String

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

Pattern: `^[A-Za-z0-9][A-Za-z0-9-_+#]{0,99}$`

Required: No

parameters

Contains parameter values for each of the parameters that the workflow document defined for the workflow resource.

Type: Array of WorkflowParameter objects

Array Members: Minimum number of 1 item.

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

WorkflowExecutionMetadata

Metadata that includes details and status from this runtime instance of the workflow.

Contents

endTime

The timestamp when this runtime instance of the workflow finished.

Type: String

Required: No

message

The runtime output message from the workflow, if applicable.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

parallelGroup

The name of the test group that included the test workflow resource at runtime.

Type: String

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

Pattern: `^[A-Za-z0-9][A-Za-z0-9-_+#]{0,99}$`

Required: No

retried

Indicates retry status for this runtime instance of the workflow.

Type: Boolean

Required: No

startTime

The timestamp when the runtime instance of this workflow started.

Type: String

Required: No

status

The current runtime status for this workflow.

Type: String

Valid Values: `PENDING | SKIPPED | RUNNING | COMPLETED | FAILED | ROLLBACK_IN_PROGRESS | ROLLBACK_COMPLETED | CANCELLED`

Required: No

totalStepCount

The total number of steps in the workflow. This should equal the sum of the step counts for steps that succeeded, were skipped, and failed.

Type: Integer

Required: No

totalStepsFailed

A runtime count for the number of steps in the workflow that failed.

Type: Integer

Required: No

totalStepsSkipped

A runtime count for the number of steps in the workflow that were skipped.

Type: Integer

Required: No

totalStepsSucceeded

A runtime count for the number of steps in the workflow that ran successfully.

Type: Integer

Required: No

type

Indicates what type of workflow that Image Builder ran for this runtime instance of the workflow.

Type: String

Valid Values: `BUILD | TEST | DISTRIBUTION`

Required: No

workflowBuildVersionArn

The Amazon Resource Name (ARN) of the workflow resource build version that ran.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: `^arn:aws(?:-[a-z]+)*:imagebuilder:[a-z]{2,}(?:-[a-z]+)+-[0-9]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):workflow/(build|test|distribution)/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+/[0-9]+$`

Required: No

workflowExecutionId

Unique identifier that Image Builder assigns to keep track of runtime resources each time it runs a workflow.

Type: String

Pattern: `^wf-[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: 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

WorkflowParameter

Contains a key/value pair that sets the named workflow parameter.

Contents

name

The name of the workflow parameter to set.

Type: String

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

Pattern: `[^\x00]+`

Required: Yes

value

Sets the value for the named workflow parameter.

Type: Array of strings

Length Constraints: Minimum length of 0.

Pattern: `[^\x00]*`

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

WorkflowParameterDetail

Defines a parameter that's used to provide configuration details for the workflow.

Contents

name

The name of this input parameter.

Type: String

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

Pattern: `[^\x00]+`

Required: Yes

type

The type of input this parameter provides. The currently supported value is "string".

Type: String

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

Pattern: `^string|integer|boolean|stringList$`

Required: Yes

defaultValue

The default value of this parameter if no input is provided.

Type: Array of strings

Length Constraints: Minimum length of 0.

Pattern: `[^\x00]*`

Required: No

description

Describes this parameter.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: `[^\x00]+`

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

WorkflowState

A group of fields that describe the current status of workflow.

Contents

reason

Describes how or why the workflow changed state.

Type: String

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

Required: No

status

The current state of the workflow.

Type: String

Valid Values: `DEPRECATED`

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

WorkflowStepExecution

Contains runtime details for an instance of a workflow that ran for the associated image build version.

Contents

action

The name of the step action.

Type: String

Pattern: `^[A-Za-z][A-Za-z0-9-_]{1,99}$`

Required: No

imageBuildVersionArn

The Amazon Resource Name (ARN) of the image build version that ran the workflow.

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):image/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+/[0-9]+$`

Required: No

name

The name of the workflow step.

Type: String

Pattern: `^[A-Za-z][A-Za-z0-9-_]{1,99}$`

Required: No

startTime

The timestamp when the workflow step started.

Type: String

Required: No

stepExecutionId

Uniquely identifies the workflow step that ran for the associated image build version.

Type: String

Pattern: `^step-[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: No

workflowBuildVersionArn

The Amazon Resource Name (ARN) of the workflow resource that ran.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: `^arn:aws(?:-[a-z]+)*:imagebuilder:[a-z]{2,}(?:-[a-z]+)+-[0-9]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):workflow/(build|test|distribution)/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+/[0-9]+$`

Required: No

workflowExecutionId

Uniquely identifies the runtime instance of the workflow that contains the workflow step that ran for the associated image build version.

Type: String

Pattern: `^wf-[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: 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

WorkflowStepMetadata

Runtime details and status for the workflow step.

Contents

action

The step action name.

Type: String

Pattern: `^[A-Za-z][A-Za-z0-9-_]{1,99}$`

Required: No

description

Description of the workflow step.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

endTime

The timestamp when the workflow step finished.

Type: String

Required: No

inputs

Input parameters that Image Builder provides for the workflow step.

Type: String

Required: No

message

Detailed output message that the workflow step provides at runtime.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Required: No

name

The name of the workflow step.

Type: String

Pattern: `^[A-Za-z][A-Za-z0-9-_]{1,99}$`

Required: No

outputs

The file names that the workflow step created as output for this runtime instance of the workflow.

Type: String

Required: No

rollbackStatus

Reports on the rollback status of the step, if applicable.

Type: String

Valid Values: `RUNNING | COMPLETED | SKIPPED | FAILED`

Required: No

startTime

The timestamp when the workflow step started.

Type: String

Required: No

status

Runtime status for the workflow step.

Type: String

Valid Values: `PENDING | SKIPPED | RUNNING | COMPLETED | FAILED | CANCELLED`

Required: No

stepExecutionId

A unique identifier for the workflow step, assigned at runtime.

Type: String

Pattern: `^step-[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: 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

WorkflowSummary

Contains metadata about the workflow resource.

Contents

arn

The Amazon Resource Name (ARN) of the workflow resource.

Type: String

Pattern: `^arn:aws(?:-[a-z]+)*:imagebuilder:[a-z]{2,}(?:-[a-z]+)+-[0-9]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):workflow/(build|test|distribution)/[a-z0-9-_]+/x\.x\.x$`

Required: No

changeDescription

The change description for the current version of the workflow resource.

Type: String

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

Required: No

dateCreated

The original creation date of the workflow resource.

Type: String

Required: No

description

Describes the workflow.

Type: String

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

Required: No

name

The name of the workflow.

Type: String

Pattern: `^[-_A-Za-z-0-9][-_A-Za-z0-9 ]{1,126}[-_A-Za-z-0-9]$`

Required: No

owner

The owner of the workflow resource.

Type: String

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

Required: No

state

Describes the current state of the workflow resource.

Type: WorkflowState object

Required: No

tags

Contains a list of tags that are defined for the workflow.

Type: String to string map

Map Entries: Maximum number of 50 items.

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

Key Pattern: `^(?!aws:)[a-zA-Z+-=._:/]+$`

Value Length Constraints: Maximum length of 256.

Required: No

type

The image creation stage that this workflow applies to. Image Builder currently supports build and test stage workflows.

Type: String

Valid Values: `BUILD | TEST | DISTRIBUTION`

Required: No

version

The version of the workflow.

Type: String

Pattern: `^[0-9]+\.[0-9]+\.[0-9]+$`

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

WorkflowVersion

Contains details about this version of the workflow.

Contents

arn

The Amazon Resource Name (ARN) of the workflow resource.

Type: String

Pattern: `^arn:aws(?:-[a-z]+)*:imagebuilder:[a-z]{2,}(?:-[a-z]+)+-[0-9]+:(?:[0-9]{12}|aws(?:-[a-z-]+)?):workflow/(build|test|distribution)/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+$`

Required: No

dateCreated

The timestamp when Image Builder created the workflow version.

Type: String

Required: No

description

Describes the workflow.

Type: String

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

Required: No

name

The name of the workflow.

Type: String

Pattern: `^[-_A-Za-z-0-9][-_A-Za-z0-9 ]{1,126}[-_A-Za-z-0-9]$`

Required: No

owner

The owner of the workflow resource.

Type: String

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

Required: No

type

The image creation stage that this workflow applies to. Image Builder currently supports build and test stage workflows.

Type: String

Valid Values: `BUILD | TEST | DISTRIBUTION`

Required: No

version

The semantic version of the workflow resource. The format includes three nodes: <major>.<minor>.<patch>.

Type: String

Pattern: `^[0-9]+\.[0-9]+\.[0-9]+$`

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

Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see Signing AWS API requests in the *IAM User Guide*.

Action

The action to be performed.

Type: string

Required: Yes

Version

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

Type: string

Required: Yes

X-Amz-Algorithm

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

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

Type: string

Valid Values: `AWS4-HMAC-SHA256`

Required: Conditional

X-Amz-Credential

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

For more information, see Create a signed AWS API request in the *IAM User Guide*.

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

Type: string

Required: Conditional

X-Amz-Date

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

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see Elements of an AWS API request signature in the *IAM User Guide*.

Type: string

Required: Conditional

X-Amz-Security-Token

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

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

Type: string

Required: Conditional

X-Amz-Signature

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

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

Type: string

Required: Conditional

X-Amz-SignedHeaders

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see Create a signed AWS API request in the *IAM User Guide*.

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

Type: string

Required: Conditional

Common Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ExpiredTokenException

The security token included in the request is expired

HTTP Status Code: 403

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 403

InternalFailure

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

HTTP Status Code: 500

MalformedHttpRequestException

Problems with the request at the HTTP level, e.g. we can't decompress the body according to the decompression algorithm specified by the content-encoding.

HTTP Status Code: 400

NotAuthorized

You do not have permission to perform this action.

HTTP Status Code: 401

OptInRequired

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

HTTP Status Code: 403

RequestAbortedException

Convenient exception that can be used when a request is aborted before a reply is sent back (e.g. client closed connection).

HTTP Status Code: 400

RequestEntityTooLargeException

Problems with the request at the HTTP level. The request entity is too large.

HTTP Status Code: 413

RequestExpired

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

HTTP Status Code: 400

RequestTimeoutException

Problems with the request at the HTTP level. Reading the Request timed out.

HTTP Status Code: 408

ServiceUnavailable

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

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

UnrecognizedClientException

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

HTTP Status Code: 403

UnknownOperationException

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

HTTP Status Code: 404

ValidationError

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

HTTP Status Code: 400