
EC2 Image Builder

API Reference

API Version 2019-12-02



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 October 6, 2021.

Actions

The following actions are supported:

- [CancelImageCreation](#) (p. 4)
- [CreateComponent](#) (p. 7)
- [CreateContainerRecipe](#) (p. 12)
- [CreateDistributionConfiguration](#) (p. 18)
- [CreateImage](#) (p. 22)
- [CreateImagePipeline](#) (p. 27)
- [CreateImageRecipe](#) (p. 32)
- [CreateInfrastructureConfiguration](#) (p. 38)
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- [PutContainerRecipePolicy](#) (p. 148)
- [PutImagePolicy](#) (p. 151)
- [PutImageRecipePolicy](#) (p. 154)
- [StartImagePipelineExecution](#) (p. 157)
- [TagResource](#) (p. 160)
- [UntagResource](#) (p. 162)
- [UpdateDistributionConfiguration](#) (p. 164)
- [UpdateImagePipeline](#) (p. 168)
- [UpdateInfrastructureConfiguration](#) (p. 173)

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 (p. 4)

The idempotency token used to make this request idempotent.

Type: String

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

Required: Yes

imageBuildVersionArn (p. 4)

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

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):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 (p. 4)

The idempotency token used to make this request idempotent.

Type: String

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

imageBuildVersionArn (p. 4)

The Amazon Resource Name (ARN) of the image whose creation has been cancelled.

Type: String

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

requestId (p. 4)

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 \(p. 255\)](#).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateComponent

Creates a new component that can be used to build, validate, test, and assess your image.

Request Syntax

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

{
  "changeDescription": "string",
  "clientToken": "string",
  "data": "string",
  "description": "string",
  "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](#) (p. 7)

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 this component.

Type: String

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

Required: No

[clientToken](#) (p. 7)

The idempotency token of the component.

Type: String

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

Required: Yes

[data](#) (p. 7)

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 16000.

Pattern: [^\x00]+

Required: No

description (p. 7)

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

kmsKeyId (p. 7)

The ID of the KMS key that should be used to encrypt this component.

Type: String

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

Required: No

name (p. 7)

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 (p. 7)

The platform of the component.

Type: String

Valid Values: `Windows` | `Linux`

Required: Yes

semanticVersion (p. 7)

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 (p. 7)

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 (p. 7)

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

uri (p. 7)

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 (p. 9)

The idempotency token used to make this request idempotent.

Type: String

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

[componentBuildVersionArn \(p. 9\)](#)

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

Type: String

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

[requestId \(p. 9\)](#)

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 \(p. 255\)](#).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

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 (p. 12)

The client token used to make this request idempotent.

Type: String

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

Required: Yes

components (p. 12)

Components for build and test that are included in the container recipe.

Type: Array of [ComponentConfiguration](#) (p. 188) objects

Array Members: Minimum number of 1 item.

Required: Yes

containerType (p. 12)

The type of container to create.

Type: String

Valid Values: `DOCKER`

Required: Yes

description (p. 12)

The description of the container recipe.

Type: String

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

Required: No

dockerfileTemplateData (p. 12)

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 (p. 12)

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

Type: String

Required: No

imageOsVersionOverride (p. 12)

Specifies the operating system version for the base image.

Type: String

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

Required: No

instanceConfiguration (p. 12)

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

Type: [InstanceConfiguration \(p. 242\)](#) object

Required: No

kmsKeyId (p. 12)

Identifies which KMS key is used to encrypt the container image.

Type: String

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

Required: No

name (p. 12)

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 (p. 12)

The base image for the container recipe.

Type: String

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

Required: Yes

platformOverride (p. 12)

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

Type: String

Valid Values: `Windows` | `Linux`

Required: No

semanticVersion (p. 12)

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]+\.[0-9]+\.[0-9]+$`

Required: Yes

tags (p. 12)

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 (p. 12)

The destination repository for the container image.

Type: [TargetContainerRepository](#) (p. 252) object

Required: Yes

workingDirectory (p. 12)

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",
  "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 (p. 15)

The client token used to make this request idempotent.

Type: String

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

containerRecipeArn (p. 15)

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-_.+/@-9]+/[0-9]+\.[0-9]+\.[0-9]+$`

requestId (p. 15)

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 \(p. 255\)](#).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

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": {
          "userGroups": [ "string" ],
          "userIds": [ "string" ]
        },
        "name": "string",
        "targetAccountIds": [ "string" ]
      },
      "containerDistributionConfiguration": {
        "containerTags": [ "string" ],
        "description": "string",
        "targetRepository": {
          "repositoryName": "string",
          "service": "string"
        }
      },
      "launchTemplateConfigurations": [
        {
          "accountId": "string",
          "launchTemplateId": "string",
          "setDefaultVersion": boolean
        }
      ],
      "licenseConfigurationArns": [ "string" ],
      "region": "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 (p. 18)

The idempotency token of the distribution configuration.

Type: String

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

Required: Yes

description (p. 18)

The description of the distribution configuration.

Type: String

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

Required: No

distributions (p. 18)

The distributions of the distribution configuration.

Type: Array of [Distribution](#) (p. 207) objects

Required: Yes

name (p. 18)

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 (p. 18)

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 (p. 19)

The idempotency token used to make this request idempotent.

Type: String

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

distributionConfigurationArn (p. 19)

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 (p. 19)

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 \(p. 255\)](#).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

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,
  "imageRecipeArn": "string",
  "imageTestsConfiguration": {
    "imageTestsEnabled": boolean,
    "timeoutMinutes": number
  },
  "infrastructureConfigurationArn": "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 (p. 22)

The idempotency token used to make this request idempotent.

Type: String

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

Required: Yes

containerRecipeArn (p. 22)

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]+\.[0-9]+\.[0-9]+$`

Required: No

distributionConfigurationArn (p. 22)

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 (p. 22)

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

imageRecipeArn (p. 22)

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]+\.[0-9]+\.[0-9]+$`

Required: No

imageTestsConfiguration (p. 22)

The image tests configuration of the image.

Type: [ImageTestsConfiguration](#) (p. 233) object

Required: No

infrastructureConfigurationArn (p. 22)

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

tags (p. 22)

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

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 (p. 24)

The idempotency token used to make this request idempotent.

Type: String

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

imageBuildVersionArn (p. 24)

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

Type: String

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

requestId (p. 24)

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 \(p. 255\)](#).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

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,
  "imageRecipeArn": "string",
  "imageTestsConfiguration": {
    "imageTestsEnabled": boolean,
    "timeoutMinutes": number
  },
  "infrastructureConfigurationArn": "string",
  "name": "string",
  "schedule": {
    "pipelineExecutionStartCondition": "string",
    "scheduleExpression": "string",
    "timezone": "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 (p. 27)

The idempotency token used to make this request idempotent.

Type: String

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

Required: Yes

containerRecipeArn (p. 27)

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]+\.[0-9]+\.[0-9]+$`

Required: No

description (p. 27)

The description of the image pipeline.

Type: String

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

Required: No

distributionConfigurationArn (p. 27)

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 (p. 27)

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

imageRecipeArn (p. 27)

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]+\.[0-9]+\.[0-9]+$`

Required: No

imageTestsConfiguration (p. 27)

The image test configuration of the image pipeline.

Type: [ImageTestsConfiguration](#) (p. 233) object

Required: No

infrastructureConfigurationArn (p. 27)

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

name (p. 27)

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 (p. 27)

The schedule of the image pipeline.

Type: [Schedule](#) (p. 249) object

Required: No

status (p. 27)

The status of the image pipeline.

Type: String

Valid Values: `DISABLED` | `ENABLED`

Required: No

tags (p. 27)

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

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 (p. 29)

The idempotency token used to make this request idempotent.

Type: String

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

imagePipelineArn (p. 29)

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 (p. 29)

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](#) (p. 255).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

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"
  },
  "blockDeviceMappings": [
    {
      "deviceName": "string",
      "ebs": {
        "deleteOnTermination": boolean,
        "encrypted": boolean,
        "iops": number,
        "kmsKeyId": "string",
        "snapshotId": "string",
        "throughput": number,
        "volumeSize": number,
        "volumeType": "string"
      },
      "noDevice": "string",
      "virtualName": "string"
    },
    {
      "deviceName": "string",
      "noDevice": "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 (p. 32)

Specify additional settings and launch scripts for your build instances.

Type: [AdditionalInstanceConfiguration](#) (p. 180) object

Required: No

blockDeviceMappings (p. 32)

The block device mappings of the image recipe.

Type: Array of [InstanceBlockDeviceMapping](#) (p. 241) objects

Required: No

clientToken (p. 32)

The idempotency token used to make this request idempotent.

Type: String

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

Required: Yes

components (p. 32)

The components of the image recipe.

Type: Array of [ComponentConfiguration](#) (p. 188) objects

Array Members: Minimum number of 1 item.

Required: Yes

description (p. 32)

The description of the image recipe.

Type: String

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

Required: No

name (p. 32)

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 (p. 32)

The base image of the image recipe. The value of the string can be the ARN of the base image or an AMI ID. The format for the ARN follows this example: `arn:aws:imagebuilder:us-`

`west-2:aws:image/windows-server-2016-english-full-base-x86/x.x.x`. You can provide the specific version that you want to use, or you can use a wildcard in all of the fields. If you enter an AMI ID for the string value, you must have access to the AMI, and the AMI must be in the same Region in which you are using Image Builder.

Type: String

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

Required: Yes

[semanticVersion \(p. 32\)](#)

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]+\.[0-9]+\.[0-9]+$`

Required: Yes

[tags \(p. 32\)](#)

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 \(p. 32\)](#)

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",  
  "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 (p. 34)

The idempotency token used to make this request idempotent.

Type: String

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

imageRecipeArn (p. 34)

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]+\.[0-9]+\.[0-9]+$`

requestId (p. 34)

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 \(p. 255\)](#).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

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",
  "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 (p. 38)

The idempotency token used to make this request idempotent.

Type: String

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

Required: Yes

description (p. 38)

The description of the infrastructure configuration.

Type: String

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

Required: No

instanceMetadataOptions (p. 38)

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 \(p. 243\)](#) object

Required: No

instanceProfileName (p. 38)

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 (p. 38)

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 (p. 38)

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 (p. 38)

The logging configuration of the infrastructure configuration.

Type: [Logging \(p. 246\)](#) object

Required: No

name (p. 38)

The name of the infrastructure configuration.

Type: String

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

Required: Yes

resourceTags (p. 38)

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 (p. 38)

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 (p. 38)

The SNS topic on which to send image build events.

Type: String

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

Required: No

subnetId (p. 38)

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 (p. 38)

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 (p. 38)

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 (p. 41)

The idempotency token used to make this request idempotent.

Type: String

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

infrastructureConfigurationArn (p. 41)

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 (p. 41)

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 \(p. 255\)](#).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

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 (p. 44)

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

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):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 (p. 44)

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

Type: String

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

requestId (p. 44)

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 \(p. 255\)](#).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

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 \(p. 47\)](#)

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]+\.[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

{
  "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 \(p. 47\)](#)

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]+\.[0-9]+\.[0-9]+$`

[requestId \(p. 47\)](#)

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 \(p. 255\)](#).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

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 \(p. 50\)](#)

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 \(p. 50\)](#)

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 \(p. 50\)](#)

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 \(p. 255\)](#).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

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 (p. 53)

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

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):image/[a-z0-9-_.+]{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 (p. 53)

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

Type: String

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

[requestId](#) (p. 53)

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](#) (p. 255).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

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 \(p. 56\)](#)

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 \(p. 56\)](#)

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 \(p. 56\)](#)

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 \(p. 255\)](#).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

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 \(p. 59\)](#)

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]+\.[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

{
  "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 \(p. 59\)](#)

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]+\.[0-9]+\.[0-9]+$`

[requestId \(p. 59\)](#)

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 \(p. 255\)](#).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

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 \(p. 62\)](#)

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 \(p. 62\)](#)

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 \(p. 62\)](#)

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 \(p. 255\)](#).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

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 (p. 65)

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

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

{
  "component": {
    "arn": "string",
    "changeDescription": "string",
    "data": "string",
    "dateCreated": "string",
    "description": "string",
    "encrypted": boolean,
    "kmsKeyId": "string",
    "name": "string",
    "owner": "string",
    "parameters": [
      {
        "defaultValue": [ "string" ],
        "description": "string",
        "name": "string",
        "type": "string"
      }
    ],
    "platform": "string",
    "state": {
      "reason": "string",
      "status": "string"
    }
  },
}
```

```
    "supportedOsVersions": [ "string" ],
    "tags": {
      "string" : "string"
    },
    "type": "string",
    "version": "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 (p. 65)

The component object associated with the specified ARN.

Type: [Component](#) (p. 185) object

requestId (p. 65)

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](#) (p. 255).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

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 \(p. 68\)](#)

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

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):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 \(p. 68\)](#)

The component policy.

Type: String

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

[requestId \(p. 68\)](#)

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 \(p. 255\)](#).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

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 (p. 70)

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]+\.[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

{
  "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"
},
"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 (p. 70)

The container recipe object that is returned.

Type: [ContainerRecipe](#) (p. 201) object

requestId (p. 70)

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](#) (p. 255).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

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 \(p. 73\)](#)

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]+\.[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 \(p. 73\)](#)

The container recipe policy object that is returned.

Type: String

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

[requestId \(p. 73\)](#)

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 \(p. 255\)](#).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

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 (p. 75)

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": {
            "userGroups": [ "string" ],
            "userIds": [ "string" ]
          },
          "name": "string",
          "targetAccountIds": [ "string" ]
        },
        "containerDistributionConfiguration": {
          "containerTags": [ "string" ],
          "description": "string",
          "targetRepository": {
```

```
        "repositoryName": "string",
        "service": "string"
    },
    "launchTemplateConfigurations": [
        {
            "accountId": "string",
            "launchTemplateId": "string",
            "setDefaultVersion": boolean
        }
    ],
    "licenseConfigurationArns": [ "string" ],
    "region": "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 (p. 75)

The distribution configuration object.

Type: [DistributionConfiguration](#) (p. 209) object

requestId (p. 75)

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](#) (p. 255).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetImage

Gets an image.

Request Syntax

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

URI Request Parameters

The request uses the following URI parameters.

imageBuildVersionArn (p. 78)

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

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):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",
    "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",
"distributionConfiguration": {
    "arn": "string",
    "dateCreated": "string",
    "dateUpdated": "string",
    "description": "string",
    "distributions": [
        {
            "amiDistributionConfiguration": {
                "amiTags": {
                    "string" : "string"
                },
                "description": "string",
                "kmsKeyId": "string",
                "launchPermission": {
                    "userGroups": [ "string" ],
                    "userIds": [ "string" ]
                },
                "name": "string",
                "targetAccountIds": [ "string" ]
            },
            "containerDistributionConfiguration": {
                "containerTags": [ "string" ],
                "description": "string",
                "targetRepository": {
                    "repositoryName": "string",
                    "service": "string"
                }
            }
        }
    ],
    "launchTemplateConfigurations": [
        {
            "accountId": "string",
            "launchTemplateId": "string",
            "setDefaultVersion": boolean
        }
    ]
}

```

```

    ],
    "licenseConfigurationArns": [ "string" ],
    "region": "string"
  }
],
"name": "string",
"tags": {
  "string" : "string"
},
"timeoutMinutes": number
},
"enhancedImageMetadataEnabled": boolean,
"imageRecipe": {
  "additionalInstanceConfiguration": {
    "systemsManagerAgent": {
      "uninstallAfterBuild": boolean
    },
    "userDataOverride": "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"
},
"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",
    "resourceTags": {
        "string" : "string"
    },
    "securityGroupIds": [ "string" ],
    "snsTopicArn": "string",
    "subnetId": "string",
    "tags": {
        "string" : "string"
    },
    "terminateInstanceOnFailure": boolean
},
"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",
"sourcePipelineArn": "string",
"sourcePipelineName": "string",
"state": {
    "reason": "string",
    "status": "string"
},
"tags": {
    "string" : "string"
},
"type": "string",
"version": "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 (p. 78)

The image object.

Type: [Image](#) (p. 216) object

requestId (p. 78)

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](#) (p. 255).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

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 (p. 84)

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",
    "containerRecipeArn": "string",
    "dateCreated": "string",
    "dateLastRun": "string",
    "dateNextRun": "string",
    "dateUpdated": "string",
    "description": "string",
    "distributionConfigurationArn": "string",
    "enhancedImageMetadataEnabled": boolean,
    "imageRecipeArn": "string",
    "imageTestsConfiguration": {
      "imageTestsEnabled": boolean,
      "timeoutMinutes": number
    },
    "infrastructureConfigurationArn": "string",
    "name": "string",
    "platform": "string",
    "schedule": {
      "pipelineExecutionStartCondition": "string",
      "scheduleExpression": "string",
      "timezone": "string"
    },
    "status": "string",
    "tags": {
```



```
    "string" : "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 (p. 84)

The image pipeline object.

Type: [ImagePipeline](#) (p. 221) object

requestId (p. 84)

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](#) (p. 255).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

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 \(p. 87\)](#)

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

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):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 \(p. 87\)](#)

The image policy object.

Type: String

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

[requestId \(p. 87\)](#)

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 \(p. 255\)](#).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

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 (p. 89)

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]+\.[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

{
  "imageRecipe": {
    "additionalInstanceConfiguration": {
      "systemsManagerAgent": {
        "uninstallAfterBuild": boolean
      },
      "userDataOverride": "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"
  },
  "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 (p. 89)

The image recipe object.

Type: [ImageRecipe](#) (p. 224) object

requestId (p. 89)

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](#) (p. 255).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

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 \(p. 92\)](#)

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]+\.[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 \(p. 92\)](#)

The image recipe policy object.

Type: String

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

[requestId \(p. 92\)](#)

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 \(p. 255\)](#).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

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 (p. 94)

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",
    "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 (p. 94)

The infrastructure configuration object.

Type: [InfrastructureConfiguration](#) (p. 236) object

requestId (p. 94)

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](#) (p. 255).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

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 (p. 97)

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 this component.

Type: String

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

Required: No

clientToken (p. 97)

The idempotency token of the component.

Type: String

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

Required: Yes

data (p. 97)

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 (p. 97)

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 (p. 97)

The format of the resource that you want to import as a component.

Type: String

Valid Values: `SHELL`

Required: Yes

kmsKeyId (p. 97)

The ID of the KMS key that should be used to encrypt this component.

Type: String

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

Required: No

name (p. 97)

The name of the component.

Type: String

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

Required: Yes

platform (p. 97)

The platform of the component.

Type: String

Valid Values: `Windows` | `Linux`

Required: Yes

semanticVersion (p. 97)

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 (p. 97)

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 (p. 97)

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 (p. 97)

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 (p. 99)

The idempotency token used to make this request idempotent.

Type: String

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

componentBuildVersionArn (p. 99)

The Amazon Resource Name (ARN) of the imported component.

Type: String

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

requestId (p. 99)

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 \(p. 255\)](#).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListComponentBuildVersions

Returns the list of component build versions for the specified semantic version.

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 /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 (p. 102)

The component version Amazon Resource Name (ARN) whose versions you want to list.

Type: String

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

Required: Yes

maxResults (p. 102)

The maximum items to return in a request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 25.

Required: No

nextToken (p. 102)

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",
      "owner": "string",
      "platform": "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 (p. 103)

The list of component summaries for the specified semantic version.

Type: Array of [ComponentSummary](#) (p. 193) objects

nextToken (p. 103)

The next token used for paginated responses. When this is not empty, there are additional elements that the service has not 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 (p. 103)

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 \(p. 255\)](#).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListComponents

Returns the list of component build versions for the specified semantic version.

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 (p. 106)

Returns the list of component build versions for the specified name.

Type: Boolean

Required: No

filters (p. 106)

Use the following filters to streamline results:

- description
- name
- platform
- supportedOsVersion
- type
- version

Type: Array of [Filter \(p. 215\)](#) objects

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

Required: No

maxResults (p. 106)

The maximum items to return in a request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 25.

Required: No

nextToken (p. 106)

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 (p. 106)

The owner defines which components you want to list. By default, this request will only show components owned by your account. You can use this field to specify if you want to view components owned by yourself, by Amazon, or those components that have been shared with you by other customers.

Type: String

Valid Values: Self | Shared | Amazon

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",
      "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 (p. 107)

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](#) (p. 196) objects

nextToken (p. 107)

The next token used for paginated responses. When this is not empty, there are additional elements that the service has not 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 (p. 107)

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](#) (p. 255).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

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 (p. 110)

Use the following filters to streamline results:

- `containerType`
- `name`
- `parentImage`
- `platform`

Type: Array of [Filter](#) (p. 215) objects

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

Required: No

maxResults (p. 110)

The maximum number of results to return in the list.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 25.

Required: No

nextToken (p. 110)

Provides a token for pagination, which determines where to begin the next set of results when the current set reaches the maximum for one request.

Type: String

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

Required: No

owner (p. 110)

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`

Required: No

Response Syntax

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

{
  "containerRecipeSummaryList": [
    {
      "arn": "string",
      "containerType": "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.

containerRecipeSummaryList (p. 111)

The list of container recipes returned for the request.

Type: Array of [ContainerRecipeSummary \(p. 205\)](#) objects

nextToken (p. 111)

The next token field is used for paginated responses. When this is not empty, there are additional container recipes that the service has not included in this response. Use this token with the next request to retrieve additional list items.

Type: String

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

requestId (p. 111)

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 \(p. 255\)](#).

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 made a request for an action that is not supported by the service.

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](#)

- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

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 (p. 114)

You can filter on name to streamline results.

Type: Array of [Filter](#) (p. 215) objects

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

Required: No

maxResults (p. 114)

The maximum items to return in a request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 25.

Required: No

nextToken (p. 114)

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 (p. 115)

The list of distributions.

Type: Array of [DistributionConfigurationSummary](#) (p. 211) objects

nextToken (p. 115)

The next token used for paginated responses. When this is not empty, there are additional elements that the service has not 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 (p. 115)

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](#) (p. 255).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

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 (p. 117)

Use the following filters to streamline results:

- name
- osVersion
- platform
- type
- version

Type: Array of [Filter](#) (p. 215) objects

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

Required: No

imageVersionArn (p. 117)

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):image/[a-z0-9-_.+]{0-9}+\. [0-9]{0-9}+\. [0-9]{0-9}+.$`

Required: Yes

maxResults (p. 117)

The maximum items to return in a request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 25.

Required: No

nextToken (p. 117)

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",
      "dateCreated": "string",
      "name": "string",
      "osVersion": "string",
      "outputResources": {
        "amis": [
          {
            "accountId": "string",
            "description": "string",
            "image": "string",
            "name": "string",
            "region": "string",
            "state": {
              "reason": "string",
              "status": "string"
            }
          }
        ]
      },
      "containers": [
        {
          "imageUri": [ "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 (p. 118)

The list of image build versions.

Type: Array of [ImageSummary](#) (p. 230) objects

nextToken (p. 118)

The next token used for paginated responses. When this is not empty, there are additional elements that the service has not 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 (p. 118)

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](#) (p. 255).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

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 (p. 121)

Filter results for the ListImagePackages request by the Image Build Version ARN

Type: String

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

Required: Yes

maxResults (p. 121)

The maximum number of results to return from the ListImagePackages request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 25.

Required: No

nextToken (p. 121)

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 (p. 121)

The list of Image Packages returned in the response.

Type: Array of [ImagePackage](#) (p. 220) objects

nextToken (p. 121)

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.

requestId (p. 121)

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](#) (p. 255).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

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 (p. 124)

Use the following filters to streamline results:

- name
- version

Type: Array of [Filter \(p. 215\)](#) objects

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

Required: No

imagePipelineArn (p. 124)

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 (p. 124)

The maximum items to return in a request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 25.

Required: No

nextToken (p. 124)

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",
      "dateCreated": "string",
      "name": "string",
      "osVersion": "string",
      "outputResources": {
        "amis": [
          {
            "accountId": "string",
            "description": "string",
            "image": "string",
            "name": "string",
            "region": "string",
            "state": {
              "reason": "string",
              "status": "string"
            }
          }
        ],
        "containers": [
          {
            "imageUri": [ "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 (p. 125)

The list of images built by this pipeline.

Type: Array of [ImageSummary](#) (p. 230) objects

nextToken (p. 125)

The next token used for paginated responses. When this is not empty, there are additional elements that the service has not 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 (p. 125)

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](#) (p. 255).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

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 (p. 128)

Use the following filters to streamline results:

- `description`
- `distributionConfigurationArn`
- `imageRecipeArn`
- `infrastructureConfigurationArn`
- `name`
- `status`

Type: Array of [Filter](#) (p. 215) objects

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

Required: No

maxResults (p. 128)

The maximum items to return in a request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 25.

Required: No

[nextToken \(p. 128\)](#)

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",
      "containerRecipeArn": "string",
      "dateCreated": "string",
      "dateLastRun": "string",
      "dateNextRun": "string",
      "dateUpdated": "string",
      "description": "string",
      "distributionConfigurationArn": "string",
      "enhancedImageMetadataEnabled": boolean,
      "imageRecipeArn": "string",
      "imageTestsConfiguration": {
        "imageTestsEnabled": boolean,
        "timeoutMinutes": number
      },
      "infrastructureConfigurationArn": "string",
      "name": "string",
      "platform": "string",
      "schedule": {
        "pipelineExecutionStartCondition": "string",
        "scheduleExpression": "string",
        "timezone": "string"
      },
      "status": "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.

[imagePipelineList \(p. 129\)](#)

The list of image pipelines.

Type: Array of [ImagePipeline](#) (p. 221) objects

nextToken (p. 129)

The next token used for paginated responses. When this is not empty, there are additional elements that the service has not 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 (p. 129)

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](#) (p. 255).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

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 (p. 132)

Use the following filters to streamline results:

- name
- parentImage
- platform

Type: Array of [Filter \(p. 215\)](#) objects

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

Required: No

maxResults (p. 132)

The maximum items to return in a request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 25.

Required: No

nextToken (p. 132)

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 (p. 132)

The owner defines which image recipes you want to list. By default, this request will only show image recipes owned by your account. You can use this field to specify if you want to view image recipes owned by yourself, by Amazon, or those image recipes that have been shared with you by other customers.

Type: String

Valid Values: `Self` | `Shared` | `Amazon`

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 (p. 133)

The list of image pipelines.

Type: Array of [ImageRecipeSummary](#) (p. 227) objects

nextToken (p. 133)

The next token used for paginated responses. When this is not empty, there are additional elements that the service has not 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 \(p. 133\)](#)

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 \(p. 255\)](#).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListImages

Returns the list of images that you have access to.

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 (p. 136)

Requests a list of images with a specific recipe name.

Type: Boolean

Required: No

filters (p. 136)

Use the following filters to streamline results:

- name
- osVersion
- platform
- type
- version

Type: Array of [Filter](#) (p. 215) objects

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

Required: No

includeDeprecated (p. 136)

Includes deprecated images in the response list.

Type: Boolean

Required: No

maxResults (p. 136)

The maximum items to return in a request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 25.

Required: No

nextToken (p. 136)

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 (p. 136)

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`

Required: No

Response Syntax

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

```
{
  "imageVersionList": [
    {
      "arn": "string",
      "dateCreated": "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 (p. 137)

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](#) (p. 234) objects

nextToken (p. 137)

The next token used for paginated responses. When this is not empty, there are additional elements that the service has not 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 (p. 137)

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](#) (p. 255).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

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 (p. 140)

You can filter on name to streamline results.

Type: Array of [Filter](#) (p. 215) objects

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

Required: No

maxResults (p. 140)

The maximum items to return in a request.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 25.

Required: No

nextToken (p. 140)

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",
      "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 (p. 141)

The list of infrastructure configurations.

Type: Array of [InfrastructureConfigurationSummary](#) (p. 239) objects

nextToken (p. 141)

The next token used for paginated responses. When this is not empty, there are additional elements that the service has not 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 (p. 141)

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](#) (p. 255).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

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 (p. 143)

The Amazon Resource Name (ARN) of the resource whose tags you want to retrieve.

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):(?:image-recipe|container-recipe|infrastructure-configuration|distribution-configuration|component|image|image-pipeline)/[a-z0-9-_.]+(?:/(?:(?:x|[0-9])+\.(?: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 (p. 143)

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 \(p. 255\)](#).

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

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` (p. 145)

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):component/[a-z0-9-_.+/@-9]+\.[0-9]+\.[0-9]+/[0-9]+$`

Required: Yes

`policy` (p. 145)

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 (p. 145)

The Amazon Resource Name (ARN) of the component that this policy was applied to.

Type: String

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

requestId (p. 145)

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 \(p. 255\)](#).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

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 (p. 148)

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]+\.[0-9]+\.[0-9]+$`

Required: Yes

policy (p. 148)

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 (p. 148)

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]+\.[0-9]+\.[0-9]+$`

requestId (p. 148)

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 \(p. 255\)](#).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

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 (p. 151)

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):image/[a-z0-9-_]+/[0-9]+\.[0-9]+\.[0-9]+/[0-9]+$`

Required: Yes

policy (p. 151)

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 (p. 151)

The Amazon Resource Name (ARN) of the image that this policy was applied to.

Type: String

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

requestId (p. 151)

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 \(p. 255\)](#).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

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` (p. 154)

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]+\.[0-9]+\.[0-9]+$`

Required: Yes

`policy` (p. 154)

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 (p. 154)

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]+\.[0-9]+\.[0-9]+$`

requestId (p. 154)

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](#) (p. 255).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

StartImagePipelineExecution

Manually triggers a pipeline to create an image.

Request Syntax

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

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

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

clientToken (p. 157)

The idempotency token used to make this request idempotent.

Type: String

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

Required: Yes

imagePipelineArn (p. 157)

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

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 (p. 157)

The idempotency token used to make this request idempotent.

Type: String

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

imageBuildVersionArn (p. 157)

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

Type: String

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

requestId (p. 157)

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](#) (p. 255).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

Request Syntax

URI Request Parameters

Request Body

Response Syntax

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Response Elements

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

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 255\)](#).

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

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 (p. 162)

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

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

Required: Yes

tagKeys (p. 162)

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 \(p. 255\)](#).

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

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": {
          "userGroups": [ "string" ],
          "userIds": [ "string" ]
        },
        "name": "string",
        "targetAccountIds": [ "string" ]
      },
      "containerDistributionConfiguration": {
        "containerTags": [ "string" ],
        "description": "string",
        "targetRepository": {
          "repositoryName": "string",
          "service": "string"
        }
      },
      "launchTemplateConfigurations": [
        {
          "accountId": "string",
          "launchTemplateId": "string",
          "setDefaultVersion": boolean
        }
      ],
      "licenseConfigurationArns": [ "string" ],
      "region": "string"
    }
  ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[clientToken](#) (p. 164)

The idempotency token of the distribution configuration.

Type: String

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

Required: Yes

[description](#) (p. 164)

The description of the distribution configuration.

Type: String

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

Required: No

[distributionConfigurationArn](#) (p. 164)

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](#) (p. 164)

The distributions of the distribution configuration.

Type: Array of [Distribution](#) (p. 207) 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](#) (p. 165)

The idempotency token used to make this request idempotent.

Type: String

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

distributionConfigurationArn (p. 165)

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 (p. 165)

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](#) (p. 255).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateImagePipeline

Updates an image pipeline. Image pipelines enable you to automate the creation and distribution of images.

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,
  "imagePipelineArn": "string",
  "imageRecipeArn": "string",
  "imageTestsConfiguration": {
    "imageTestsEnabled": boolean,
    "timeoutMinutes": number
  },
  "infrastructureConfigurationArn": "string",
  "schedule": {
    "pipelineExecutionStartCondition": "string",
    "scheduleExpression": "string",
    "timezone": "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 (p. 168)

The idempotency token used to make this request idempotent.

Type: String

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

Required: Yes

containerRecipeArn (p. 168)

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]+\.[0-9]+\.[0-9]+$`

Required: No

description (p. 168)

The description of the image pipeline.

Type: String

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

Required: No

distributionConfigurationArn (p. 168)

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

Type: String

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

Required: No

enhancedImageMetadataEnabled (p. 168)

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

imagePipelineArn (p. 168)

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 (p. 168)

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]+\.[0-9]+\.[0-9]+$`

Required: No

imageTestsConfiguration (p. 168)

The image test configuration of the image pipeline.

Type: [ImageTestsConfiguration](#) (p. 233) object

Required: No

infrastructureConfigurationArn (p. 168)

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

Type: String

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

Required: Yes

schedule (p. 168)

The schedule of the image pipeline.

Type: [Schedule](#) (p. 249) object

Required: No

status (p. 168)

The status of the image pipeline.

Type: String

Valid Values: `DISABLED` | `ENABLED`

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 (p. 170)

The idempotency token used to make this request idempotent.

Type: String

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

imagePipelineArn (p. 170)

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 (p. 170)

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 \(p. 255\)](#).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

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"
    }
  },
  "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 (p. 173)

The idempotency token used to make this request idempotent.

Type: String

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

Required: Yes

description (p. 173)

The description of the infrastructure configuration.

Type: String

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

Required: No

infrastructureConfigurationArn (p. 173)

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-_\r\n]+`

Required: Yes

instanceMetadataOptions (p. 173)

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 \(p. 243\)](#) object

Required: No

instanceProfileName (p. 173)

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 (p. 173)

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 (p. 173)

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 (p. 173)

The logging configuration of the infrastructure configuration.

Type: [Logging \(p. 246\)](#) object

Required: No

resourceTags (p. 173)

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 (p. 173)

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 (p. 173)

The SNS topic on which to send image build events.

Type: String

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

Required: No

subnetId (p. 173)

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 (p. 173)

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 (p. 175)

The idempotency token used to make this request idempotent.

Type: String

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

infrastructureConfigurationArn (p. 175)

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 (p. 175)

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 \(p. 255\)](#).

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 made a request for an action that is not supported by the service.

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](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

Data Types

The 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:

- [AdditionalInstanceConfiguration](#) (p. 180)
- [Ami](#) (p. 181)
- [AmiDistributionConfiguration](#) (p. 183)
- [Component](#) (p. 185)
- [ComponentConfiguration](#) (p. 188)
- [ComponentParameter](#) (p. 189)
- [ComponentParameterDetail](#) (p. 190)
- [ComponentState](#) (p. 192)
- [ComponentSummary](#) (p. 193)
- [ComponentVersion](#) (p. 196)
- [Container](#) (p. 199)
- [ContainerDistributionConfiguration](#) (p. 200)
- [ContainerRecipe](#) (p. 201)
- [ContainerRecipeSummary](#) (p. 205)
- [Distribution](#) (p. 207)
- [DistributionConfiguration](#) (p. 209)
- [DistributionConfigurationSummary](#) (p. 211)
- [EbsInstanceBlockDeviceSpecification](#) (p. 213)
- [Filter](#) (p. 215)
- [Image](#) (p. 216)
- [ImagePackage](#) (p. 220)
- [ImagePipeline](#) (p. 221)
- [ImageRecipe](#) (p. 224)
- [ImageRecipeSummary](#) (p. 227)
- [ImageState](#) (p. 229)
- [ImageSummary](#) (p. 230)
- [ImageTestsConfiguration](#) (p. 233)
- [ImageVersion](#) (p. 234)
- [InfrastructureConfiguration](#) (p. 236)
- [InfrastructureConfigurationSummary](#) (p. 239)
- [InstanceBlockDeviceMapping](#) (p. 241)
- [InstanceConfiguration](#) (p. 242)
- [InstanceMetadataOptions](#) (p. 243)
- [LaunchPermissionConfiguration](#) (p. 244)
- [LaunchTemplateConfiguration](#) (p. 245)

- [Logging](#) (p. 246)
- [OutputResources](#) (p. 247)
- [S3Logs](#) (p. 248)
- [Schedule](#) (p. 249)
- [SystemsManagerAgent](#) (p. 251)
- [TargetContainerRepository](#) (p. 252)

AdditionalInstanceConfiguration

In addition to your infrastructure configuration, these settings provide an extra layer of control over your build instances. For instances where Image Builder installs the Systems Manager agent, you can choose whether to keep it for the AMI that you create. You can also specify commands to run on launch for all of your build instances.

Contents

systemsManagerAgent

Contains settings for the Systems Manager agent on your build instance.

Type: [SystemsManagerAgent](#) (p. 251) object

Required: No

userDataOverride

Use this property to provide commands or a command script to run when you launch your build instance.

Note

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.

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 Go](#)
- [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 state shows the image status and the reason for that status.

Type: [ImageState](#) (p. 229) 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 Go](#)
- [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 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 KMS key identifier used to encrypt the distributed image.

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](#) (p. 244) 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]{1,127}[-_A-Za-z0-9\s:}{ }\.\.]+[-_A-Za-z0-9]{1,127}$`

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]{1,2}$`

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 Go](#)
- [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):(?:image-recipe|container-recipe|infrastructure-configuration|distribution-configuration|component|image|image-pipeline)/[a-z0-9-_.]+(?:/(?:(?:x|[0-9])+)?.(?:x|[0-9])+)?.(?:x|[0-9])+)?(?:/(?:x|[0-9])+)?)?$`

Required: No

changeDescription

The change description of the component.

Type: String

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

Required: No

data

The data of the component.

Type: String

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

encrypted

The encryption status of the component.

Type: Boolean

Required: No

kmsKeyId

The KMS key identifier used to encrypt 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

parameters

Contains parameter details for each of the parameters that are defined for the component.

Type: Array of [ComponentParameterDetail](#) (p. 190) objects

Required: No

platform

The platform of the component.

Type: String

Valid Values: `Windows` | `Linux`

Required: No

state

Describes the current status of the component. This is used for components that are no longer active.

Type: [ComponentState](#) (p. 192) object

Required: No

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 associated with 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: 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 Go](#)
- [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):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 are used to configure the component for a specific recipe.

Type: Array of [ComponentParameter](#) (p. 189) 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 Go](#)
- [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 1.

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 Go](#)
- [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

defaultValue

The default value of this parameter if no input is provided.

Type: Array of strings

Length Constraints: Minimum length of 1.

Pattern: [^\x00]+

Required: No

description

Describes this parameter.

Type: String

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

Pattern: [^\x00]+

Required: No

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

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 Go](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ComponentState

A group of fields that describe the current status of components that are no longer active.

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`

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 Go](#)
- [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):(?:image-recipe|container-recipe|infrastructure-configuration|distribution-configuration|component|image|image-pipeline)/[a-z0-9-_.]+(?:/(?:(?:x|[0-9]+)\.(?:x|[0-9]+)\.(?:x|[0-9]+))|(?:/[0-9]+)?)?$`

Required: No

changeDescription

The change description of the component.

Type: String

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

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-Z0-9]([a-zA-Z0-9]{1,126})[a-zA-Z0-9]$`

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`

Required: No

state

Describes the current status of the component.

Type: [ComponentState](#) (p. 192) object

Required: No

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 associated with 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: 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 Go](#)
- [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):(?:image-recipe|container-recipe|infrastructure-configuration|distribution-configuration|component|image|image-pipeline)/[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-z0-9][_A-Za-z0-9]{1,126}[_A-Za-z0-9]$`

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`

Required: No

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

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 Go](#)
- [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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ContainerDistributionConfiguration

Container distribution settings for encryption, licensing, and sharing in a specific Region.

Contents

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

targetRepository

The destination repository for the container distribution configuration.

Type: [TargetContainerRepository](#) (p. 252) object

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 Go](#)
- [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):(?:image-recipe|container-recipe|infrastructure-configuration|distribution-configuration|component|image|image-pipeline)/[a-z0-9-_.]+(?:/(?:(?:x|[0-9])+\).(?:x|[0-9])+\).(?:x|[0-9])+)(?:/[0-9]+)??$`

Required: No

components

Components for build and test that are included in the container recipe.

Type: Array of [ComponentConfiguration](#) (p. 188) 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](#) (p. 242) object

Required: No

kmsKeyId

Identifies which KMS key is used to encrypt the container image for distribution to the target Region.

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-z0-9][_A-Za-z0-9]{1,126}[_A-Za-z0-9]$`

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`

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](#) (p. 252) 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 Go](#)
- [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):(?:image-recipe|container-recipe|infrastructure-configuration|distribution-configuration|component|image|image-pipeline)/[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

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`

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Distribution

Defines the settings for a specific Region.

Contents

amiDistributionConfiguration

The specific AMI settings; for example, launch permissions or AMI tags.

Type: [AmiDistributionConfiguration](#) (p. 183) object

Required: No

containerDistributionConfiguration

Container distribution settings for encryption, licensing, and sharing in a specific Region.

Type: [ContainerDistributionConfiguration](#) (p. 200) object

Required: No

launchTemplateConfigurations

A group of launchTemplateConfiguration settings that apply to image distribution for specified accounts.

Type: Array of [LaunchTemplateConfiguration](#) (p. 245) 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

region

The target Region.

Type: String

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

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

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

timeoutMinutes

The maximum duration in minutes for this distribution configuration.

Type: Integer

Valid Range: Minimum value of 30. Maximum value of 720.

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 Go](#)
- [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):(?:image-recipe|container-recipe|infrastructure-configuration|distribution-configuration|component|image|image-pipeline)/[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-z0-9][-_A-Za-z0-9]{1,126}[_A-Za-z0-9]$`

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 Go](#)
- [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

Use to configure the KMS key to use when encrypting the device.

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 Go](#)
- [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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Image

An Image Builder 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):(?:image-recipe|container-recipe|infrastructure-configuration|distribution-configuration|component|image|image-pipeline)/[a-z0-9-_.]+(?:/(?:x|[0-9]+)\.(?:x|[0-9]+)\.(?:x|[0-9]+))?(?:/[0-9]+)?$`

Required: No

containerRecipe

The recipe that is used to create an Image Builder container image.

Type: [ContainerRecipe](#) (p. 201) object

Required: No

dateCreated

The date on which this image was created.

Type: String

Required: No

distributionConfiguration

The distribution configuration used when creating this image.

Type: [DistributionConfiguration](#) (p. 209) object

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

imageRecipe

The image recipe used when creating the image.

Type: [ImageRecipe](#) (p. 224) object

Required: No

imageTestsConfiguration

The image tests configuration used when creating this image.

Type: [ImageTestsConfiguration](#) (p. 233) object

Required: No

infrastructureConfiguration

The infrastructure used when creating this image.

Type: [InfrastructureConfiguration](#) (p. 236) object

Required: No

name

The name of the image.

Type: String

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

Required: No

osVersion

The operating system version of the instance. 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 produced when creating this image.

Type: [OutputResources](#) (p. 247) object

Required: No

platform

The platform of the image.

Type: String

Valid Values: `Windows` | `Linux`

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](#) (p. 229) 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

type

Specifies whether this is an AMI or 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

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ImagePackage

Represents a package installed on an Image Builder image.

Contents

packageName

The name of the package as 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 as 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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

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

imageRecipeArn

The Amazon Resource Name (ARN) of the image recipe associated with this image pipeline.

Type: String

Required: No

imageTestsConfiguration

The image tests configuration of the image pipeline.

Type: [ImageTestsConfiguration](#) (p. 233) object

Required: No

infrastructureConfigurationArn

The Amazon Resource Name (ARN) of the infrastructure configuration associated with this image pipeline.

Type: String

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`

Required: No

schedule

The schedule of the image pipeline.

Type: [Schedule](#) (p. 249) 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

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 Go](#)
- [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](#) (p. 180) object

Required: No

arn

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

Type: String

Pattern: `^arn:aws[^:]*:imagebuilder:[^:]+:(?:[0-9]{12}|aws):(?:image-recipe|container-recipe|infrastructure-configuration|distribution-configuration|component|image|image-pipeline)/[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](#) (p. 241) objects

Required: No

components

The components of the image recipe.

Type: Array of [ComponentConfiguration](#) (p. 188) 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-z0-9][-_A-Za-z0-9]{1,126}[-_A-Za-z0-9]$`

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`

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 Go](#)
- [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):(?:image-recipe|container-recipe|infrastructure-configuration|distribution-configuration|component|image|image-pipeline)/[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-z0-9][_A-Za-z0-9]{1,126}[_A-Za-z0-9]$`

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`

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ImageState

Image state shows the image status and the reason for that status.

Contents

reason

The reason for the image's status.

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

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Required: No

platform

The platform of the image.

Type: String

Valid Values: `Windows` | `Linux`

Required: No

state

The state of the image.

Type: [ImageState](#) (p. 229) 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

type

Specifies whether this is an AMI or 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 Go](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for Ruby V3](#)

ImageTestsConfiguration

Image tests configuration.

Contents

imageTestsEnabled

Defines if tests should be executed when building this image.

Type: Boolean

Required: No

timeoutMinutes

The maximum time in minutes that tests are permitted to run.

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 Go](#)
- [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):(?:image-recipe|container-recipe|infrastructure-configuration|distribution-configuration|component|image|image-pipeline)/[a-z0-9-]+(?:/(?:(?:x|[0-9])+\.(?:x|[0-9])+\.(?:x|[0-9])+)|(?:x|[0-9])+(?:/[0-9])+)?)?$`

Required: No

dateCreated

The date on which this specific version of the Image Builder image was created.

Type: String

Required: No

name

The name of this specific version of an Image Builder image.

Type: String

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

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 platform of the image version, for example "Windows" or "Linux".

Type: String

Valid Values: `Windows` | `Linux`

Required: No

type

Specifies whether this image is 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 Go](#)
- [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):(?:image-recipe|container-recipe|infrastructure-configuration|distribution-configuration|component|image|image-pipeline)/[a-z0-9-_.]+(?:/(?:(?:x|[0-9])+)?.(?:x|[0-9])+)?.(?:x|[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](#) (p. 243) 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 \(p. 246\)](#) 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

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 SNS topic Amazon Resource Name (ARN) of the infrastructure configuration.

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 Go](#)
- [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):(?:image-recipe|container-recipe|infrastructure-configuration|distribution-configuration|component|image|image-pipeline)/[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-z0-9][_A-Za-z0-9]{1,126}[_A-Za-z0-9]$`

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 Go](#)
- [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](#) (p. 213) 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 Go](#)
- [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](#) (p. 241) objects

Required: No

image

The AMI ID to use as the base image for a container build and test instance. If not specified, Image Builder will use 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 Go](#)
- [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.

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 Go](#)
- [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 a11. See the examples for making an AMI public at [Amazon EC2 ModifyImageAttribute](#).

Contents

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

LaunchTemplateConfiguration

Identifies an Amazon EC2 launch template to use for a specific account.

Contents

accountId

The account ID that this configuration applies to.

Type: String

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

Required: No

launchTemplateId

Identifies the Amazon EC2 launch template to use.

Type: String

Pattern: `^lt-[a-z0-9-]{17}$`

Required: Yes

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 Go](#)
- [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](#) (p. 248) 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 Go](#)
- [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](#) (p. 181) objects

Required: No

containers

Container images that the pipeline has generated and stored in the output repository.

Type: Array of [Container](#) (p. 199) 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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

S3Logs

Amazon S3 logging configuration.

Contents

s3BucketName

The Amazon 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 in which to store the logs.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Schedule

A schedule configures how often and when a pipeline will automatically create a new image.

Contents

pipelineExecutionStartCondition

The condition configures when the pipeline should trigger a new image build. When the `pipelineExecutionStartCondition` is set to `EXPRESSION_MATCH_AND_DEPENDENCY_UPDATES_AVAILABLE`, and you use semantic version filters on the base image or components in your image recipe, EC2 Image Builder will build a new image only when there are new versions of the image or components in your recipe that match the semantic version filter. When it is set to `EXPRESSION_MATCH_ONLY`, it will build a new image every time the CRON expression matches the current time. For semantic version syntax, see [CreateComponent](#) in the *EC2 Image Builder API Reference*.

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 Go](#)
- [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. The default value is false.

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 Go](#)
- [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.

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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Common Parameters

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

Action

The action to be performed.

Type: string

Required: Yes

Version

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

Type: string

Required: Yes

X-Amz-Algorithm

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

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

Type: string

Valid Values: `AWS4-HMAC-SHA256`

Required: Conditional

X-Amz-Credential

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

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

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

Type: string

Required: Conditional

X-Amz-Date

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'THHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: `20120325T120000Z`.

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

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

Type: string

Required: Conditional

X-Amz-Security-Token

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

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

Type: string

Required: Conditional

X-Amz-Signature

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

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

Type: string

Required: Conditional

X-Amz-SignedHeaders

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

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

Type: string

Required: Conditional

Common Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 400

InternalFailure

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

HTTP Status Code: 500

InvalidAction

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

HTTP Status Code: 400

InvalidClientTokenId

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

HTTP Status Code: 403

InvalidParameterCombination

Parameters that must not be used together were used together.

HTTP Status Code: 400

InvalidParameterValue

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

HTTP Status Code: 400

InvalidQueryParameter

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

HTTP Status Code: 400

MalformedQueryString

The query string contains a syntax error.

HTTP Status Code: 404

MissingAction

The request is missing an action or a required parameter.

HTTP Status Code: 400

MissingAuthenticationToken

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

HTTP Status Code: 403

MissingParameter

A required parameter for the specified action is not supplied.

HTTP Status Code: 400

NotAuthorized

You do not have permission to perform this action.

HTTP Status Code: 400

OptInRequired

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

HTTP Status Code: 403

RequestExpired

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

HTTP Status Code: 400

ServiceUnavailable

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

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

ValidationError

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

HTTP Status Code: 400