



API Reference

AWS Panorama



API Version 2019-07-24

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AWS Panorama: API Reference

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Welcome

Important

End of support notice: On May 31, 2026, AWS will end support for AWS Panorama. After May 31, 2026, you will no longer be able to access the AWS Panorama console or AWS Panorama resources. For more information, see [AWS Panorama end of support](#).

Overview

This is the *AWS Panorama API Reference*. For an introduction to the service, see [What is AWS Panorama?](#) in the *AWS Panorama Developer Guide*.

This document was last published on August 31, 2025.

Actions

The following actions are supported:

- [CreateApplicationInstance](#)
- [CreateJobForDevices](#)
- [CreateNodeFromTemplateJob](#)
- [CreatePackage](#)
- [CreatePackageImportJob](#)
- [DeleteDevice](#)
- [DeletePackage](#)
- [DeregisterPackageVersion](#)
- [DescribeApplicationInstance](#)
- [DescribeApplicationInstanceDetails](#)
- [DescribeDevice](#)
- [DescribeDeviceJob](#)
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- [DescribeNodeFromTemplateJob](#)
- [DescribePackage](#)
- [DescribePackageImportJob](#)
- [DescribePackageVersion](#)
- [ListApplicationInstanceDependencies](#)
- [ListApplicationInstanceNodeInstances](#)
- [ListApplicationInstances](#)
- [ListDevices](#)
- [ListDevicesJobs](#)
- [ListNodeFromTemplateJobs](#)
- [ListNodes](#)
- [ListPackageImportJobs](#)
- [ListPackages](#)
- [ListTagsForResource](#)

- [ProvisionDevice](#)
- [RegisterPackageVersion](#)
- [RemoveApplicationInstance](#)
- [SignalApplicationInstanceNodeInstances](#)
- [TagResource](#)
- [UntagResource](#)
- [UpdateDeviceMetadata](#)

CreateApplicationInstance

Important

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Creates an application instance and deploys it to a device.

Request Syntax

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

{
  "ApplicationInstanceIdToReplace": "string",
  "DefaultRuntimeContextDevice": "string",
  "Description": "string",
  "ManifestOverridesPayload": { ... },
  "ManifestPayload": { ... },
  "Name": "string",
  "RuntimeRoleArn": "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.

ApplicationInstanceIdToReplace

The ID of an application instance to replace with the new instance.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-zA-Z0-9\-__]+

Required: No

DefaultRuntimeContextDevice

A device's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-zA-Z0-9\-__]+

Required: Yes

Description

A description for the application instance.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: .*

Required: No

ManifestOverridesPayload

Setting overrides for the application manifest.

Type: [ManifestOverridesPayload](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

ManifestPayload

The application's manifest document.

Type: [ManifestPayload](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

[Name](#)

A name for the application instance.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9\-\_\+]`

Required: No

[RuntimeRoleArn](#)

The ARN of a runtime role for the application instance.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `arn:[a-z0-9][-\ .a-z0-9]{0,62}:iam:[0-9]{12}:role/.+`

Required: No

[Tags](#)

Tags for the application instance.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: `.+`

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Value Pattern: `.*`

Required: No

Response Syntax

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

{
  "ApplicationInstanceId": "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.

[ApplicationInstanceId](#)

The application instance's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

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

Errors

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

AccessDeniedException

The requestor does not have permission to access the target action or resource.

HTTP Status Code: 403

InternalServerError

An internal error occurred.

HTTP Status Code: 500

ServiceQuotaExceededException

The request would cause a limit to be exceeded.

HTTP Status Code: 402

ValidationException

The request contains an invalid parameter value.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
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CreateJobForDevices

Important

End of support notice: On May 31, 2026, AWS will end support for AWS Panorama. After May 31, 2026, you will no longer be able to access the AWS Panorama console or AWS Panorama resources. For more information, see [AWS Panorama end of support](#).

Creates a job to run on a device. A job can update a device's software or reboot it.

Request Syntax

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

{
  "DeviceIds": [ "string" ],
  "DeviceJobConfig": {
    "OTAJobConfig": {
      "AllowMajorVersionUpdate": boolean,
      "ImageVersion": "string"
    }
  },
  "JobType": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

DeviceIds

ID of target device.

Type: Array of strings

Array Members: Fixed number of 1 item.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-zA-Z0-9\-__]+

Required: Yes

[DeviceJobConfig](#)

Configuration settings for a software update job.

Type: [DeviceJobConfig](#) object

Required: No

[JobType](#)

The type of job to run.

Type: String

Valid Values: OTA | REBOOT

Required: Yes

Response Syntax

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

{
  "Jobs": [
    {
      "DeviceId": "string",
      "JobId": "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.

Jobs

A list of jobs.

Type: Array of [Job](#) objects

Errors

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

AccessDeniedException

The requestor does not have permission to access the target action or resource.

HTTP Status Code: 403

ConflictException

The target resource is in use.

HTTP Status Code: 409

InternalServerError

An internal error occurred.

HTTP Status Code: 500

ResourceNotFoundException

The target resource was not found.

HTTP Status Code: 404

ValidationException

The request contains an invalid parameter value.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

CreateNodeFromTemplateJob

Important

End of support notice: On May 31, 2026, AWS will end support for AWS Panorama. After May 31, 2026, you will no longer be able to access the AWS Panorama console or AWS Panorama resources. For more information, see [AWS Panorama end of support](#).

Creates a camera stream node.

Request Syntax

```
POST /packages/template-job HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "JobTags": [
    {
      "ResourceType": "string",
      "Tags": {
        "string" : "string"
      }
    }
  ],
  "NodeDescription": "string",
  "NodeName": "string",
  "OutputPackageName": "string",
  "OutputPackageVersion": "string",
  "TemplateParameters": {
    "string" : "string"
  },
  "TemplateType": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

JobTags

Tags for the job.

Type: Array of [JobResourceTags](#) objects

Required: No

NodeDescription

A description for the node.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: . *

Required: No

NodeName

A name for the node.

Type: String

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

Pattern: [a-zA-Z0-9\-__]+

Required: Yes

OutputPackageName

An output package name for the node.

Type: String

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

Pattern: [a-zA-Z0-9\-__]+

Required: Yes

OutputPackageVersion

An output package version for the node.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: ([0-9]+\)\.([0-9]+)

Required: Yes

TemplateParameters

Template parameters for the node.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 255.

Key Pattern: .+

Value Length Constraints: Minimum length of 1. Maximum length of 255.

Value Pattern: .+

Required: Yes

TemplateType

The type of node.

Type: String

Valid Values: RTSP_CAMERA_STREAM

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json
```

```
{  
  "JobId": "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.

JobId

The job's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-zA-Z0-9\-__]+

Errors

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

AccessDeniedException

The requestor does not have permission to access the target action or resource.

HTTP Status Code: 403

ConflictException

The target resource is in use.

HTTP Status Code: 409

InternalServerErrorException

An internal error occurred.

HTTP Status Code: 500

ValidationException

The request contains an invalid parameter value.

HTTP Status Code: 400

See Also

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

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

CreatePackage

Important

End of support notice: On May 31, 2026, AWS will end support for AWS Panorama. After May 31, 2026, you will no longer be able to access the AWS Panorama console or AWS Panorama resources. For more information, see [AWS Panorama end of support](#).

Creates a package and storage location in an Amazon S3 access point.

Request Syntax

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

{
  "PackageName": "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.

PackageName

A name for the package.

Type: String

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

Pattern: `[a-zA-Z0-9\-\_\_]+`

Required: Yes

Tags

Tags for the package.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: . +

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Value Pattern: . *

Required: No

Response Syntax

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

{
  "Arn": "string",
  "PackageId": "string",
  "StorageLocation": {
    "BinaryPrefixLocation": "string",
    "Bucket": "string",
    "GeneratedPrefixLocation": "string",
    "ManifestPrefixLocation": "string",
    "RepoPrefixLocation": "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.

Arn

The package's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Packageld

The package's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9\-\_\✓]+`

StorageLocation

The package's storage location.

Type: [StorageLocation](#) object

Errors

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

AccessDeniedException

The requestor does not have permission to access the target action or resource.

HTTP Status Code: 403

ConflictException

The target resource is in use.

HTTP Status Code: 409

InternalServerError

An internal error occurred.

HTTP Status Code: 500

ValidationException

The request contains an invalid parameter value.

HTTP Status Code: 400

See Also

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

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- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
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- [AWS SDK for Ruby V3](#)

CreatePackageImportJob

Important

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Imports a node package.

Request Syntax

POST /packages/import-jobs HTTP/1.1

Content-type: application/json

```
{
  "ClientToken": "string",
  "InputConfig": {
    "PackageVersionInputConfig": {
      "S3Location": {
        "BucketName": "string",
        "ObjectKey": "string",
        "Region": "string"
      }
    }
  },
  "JobTags": [
    {
      "ResourceType": "string",
      "Tags": {
        "string" : "string"
      }
    }
  ],
  "JobType": "string",
  "OutputConfig": {
    "PackageVersionOutputConfig": {
      "MarkLatest": boolean,
      "PackageName": "string",
      "PackageVersion": "string"
    }
  }
}
```

```
}  
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

ClientToken

A client token for the package import job.

Type: String

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

Pattern: `[a-zA-Z0-9\-\_\+]`

Required: Yes

InputConfig

An input config for the package import job.

Type: [PackageImportJobInputConfig](#) object

Required: Yes

JobTags

Tags for the package import job.

Type: Array of [JobResourceTags](#) objects

Required: No

JobType

A job type for the package import job.

Type: String

Valid Values: `NODE_PACKAGE_VERSION` | `MARKETPLACE_NODE_PACKAGE_VERSION`

Required: Yes

OutputConfig

An output config for the package import job.

Type: [PackageImportJobOutputConfig](#) object

Required: Yes

Response Syntax

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

{
  "JobId": "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.

JobId

The job's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-zA-Z0-9\-__]+

Errors

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

AccessDeniedException

The requestor does not have permission to access the target action or resource.

HTTP Status Code: 403

ConflictException

The target resource is in use.

HTTP Status Code: 409

InternalServerErrorException

An internal error occurred.

HTTP Status Code: 500

ValidationException

The request contains an invalid parameter value.

HTTP Status Code: 400

See Also

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DeleteDevice

Important

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Deletes a device.

Request Syntax

```
DELETE /devices/DeviceId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

DeviceId

The device's ID.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9\-\_\+]`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
```



```
"DeviceId": "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.

[DeviceId](#)

The device's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

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

Errors

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

AccessDeniedException

The requestor does not have permission to access the target action or resource.

HTTP Status Code: 403

ConflictException

The target resource is in use.

HTTP Status Code: 409

InternalServerError

An internal error occurred.

HTTP Status Code: 500

ResourceNotFoundException

The target resource was not found.

HTTP Status Code: 404

ValidationException

The request contains an invalid parameter value.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeletePackage

Important

End of support notice: On May 31, 2026, AWS will end support for AWS Panorama. After May 31, 2026, you will no longer be able to access the AWS Panorama console or AWS Panorama resources. For more information, see [AWS Panorama end of support](#).

Deletes a package.

Note

To delete a package, you need permission to call `s3:DeleteObject` in addition to permissions for the AWS Panorama API.

Request Syntax

```
DELETE /packages/PackageId?ForceDelete=ForceDelete HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ForceDelete

Delete the package even if it has artifacts stored in its access point. Deletes the package's artifacts from Amazon S3.

PackageId

The package's ID.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9\-\_\✓]+`

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](#).

AccessDeniedException

The requestor does not have permission to access the target action or resource.

HTTP Status Code: 403

ConflictException

The target resource is in use.

HTTP Status Code: 409

InternalServerError

An internal error occurred.

HTTP Status Code: 500

ResourceNotFoundException

The target resource was not found.

HTTP Status Code: 404

ValidationException

The request contains an invalid parameter value.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeregisterPackageVersion

Important

End of support notice: On May 31, 2026, AWS will end support for AWS Panorama. After May 31, 2026, you will no longer be able to access the AWS Panorama console or AWS Panorama resources. For more information, see [AWS Panorama end of support](#).

Deregisters a package version.

Request Syntax

```
DELETE /packages/PackageId/versions/PackageVersion/patch/PatchVersion?  
OwnerAccount=OwnerAccount&UpdatedLatestPatchVersion=UpdatedLatestPatchVersion HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

OwnerAccount

An owner account.

Length Constraints: Minimum length of 1. Maximum length of 12.

Pattern: `[0-9a-z\_]+`

PackageId

A package ID.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9\-\_\✓]+`

Required: Yes

PackageVersion

A package version.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: ([0-9]+\.)([0-9]+)

Required: Yes

PatchVersion

A patch version.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-z0-9]+

Required: Yes

UpdatedLatestPatchVersion

If the version was marked latest, the new version to make as latest.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-z0-9]+

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](#).

AccessDeniedException

The requestor does not have permission to access the target action or resource.

HTTP Status Code: 403

ConflictException

The target resource is in use.

HTTP Status Code: 409

InternalServerErrorException

An internal error occurred.

HTTP Status Code: 500

ResourceNotFoundException

The target resource was not found.

HTTP Status Code: 404

ValidationException

The request contains an invalid parameter value.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
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- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DescribeApplicationInstance

Important

End of support notice: On May 31, 2026, AWS will end support for AWS Panorama. After May 31, 2026, you will no longer be able to access the AWS Panorama console or AWS Panorama resources. For more information, see [AWS Panorama end of support](#).

Returns information about an application instance on a device.

Request Syntax

```
GET /application-instances/ApplicationInstanceId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ApplicationInstanceId

The application instance's ID.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9\-\_\+]`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "ApplicationInstanceId": "string",
```

```

    "ApplicationInstanceIdToReplace": "string",
    "Arn": "string",
    "CreatedTime": number,
    "DefaultRuntimeContextDevice": "string",
    "DefaultRuntimeContextDeviceName": "string",
    "Description": "string",
    "HealthStatus": "string",
    "LastUpdatedTime": number,
    "Name": "string",
    "RuntimeContextStates": [
      {
        "DesiredState": "string",
        "DeviceReportedStatus": "string",
        "DeviceReportedTime": number,
        "RuntimeContextName": "string"
      }
    ],
    "RuntimeRoleArn": "string",
    "Status": "string",
    "StatusDescription": "string",
    "Tags": {
      "string" : "string"
    }
  }
}

```

Response Elements

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

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

ApplicationInstanceId

The application instance's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-zA-Z0-9\-__]+

ApplicationInstanceIdToReplace

The ID of the application instance that this instance replaced.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-zA-Z0-9\-__]+

Arn

The application instance's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

CreatedTime

When the application instance was created.

Type: Timestamp

DefaultRuntimeContextDevice

The device's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-zA-Z0-9\-__]+

DefaultRuntimeContextDeviceName

The device's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-zA-Z0-9\-__]+

Description

The application instance's description.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: . *

HealthStatus

The application instance's health status.

Type: String

Valid Values: RUNNING | ERROR | NOT_AVAILABLE

LastUpdatedTime

The application instance was updated.

Type: Timestamp

Name

The application instance's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-zA-Z0-9\-__]+

RuntimeContextStates

The application instance's state.

Type: Array of [ReportedRuntimeContextState](#) objects

RuntimeRoleArn

The application instance's runtime role ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: arn:[a-z0-9][- .a-z0-9]{0,62}:iam::[0-9]{12}:role/.+

Status

The application instance's status.

Type: String

Valid Values: DEPLOYMENT_PENDING | DEPLOYMENT_REQUESTED | DEPLOYMENT_IN_PROGRESS | DEPLOYMENT_ERROR | DEPLOYMENT_SUCCEEDED | REMOVAL_PENDING | REMOVAL_REQUESTED | REMOVAL_IN_PROGRESS | REMOVAL_FAILED | REMOVAL_SUCCEEDED | DEPLOYMENT_FAILED

StatusDescription

The application instance's status description.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Tags

The application instance's tags.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: . +

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Value Pattern: . *

Errors

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

AccessDeniedException

The requestor does not have permission to access the target action or resource.

HTTP Status Code: 403

ConflictException

The target resource is in use.

HTTP Status Code: 409

InternalServerErrorException

An internal error occurred.

HTTP Status Code: 500

ResourceNotFoundException

The target resource was not found.

HTTP Status Code: 404

ValidationException

The request contains an invalid parameter value.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DescribeApplicationInstanceDetails

Important

End of support notice: On May 31, 2026, AWS will end support for AWS Panorama. After May 31, 2026, you will no longer be able to access the AWS Panorama console or AWS Panorama resources. For more information, see [AWS Panorama end of support](#).

Returns information about an application instance's configuration manifest.

Request Syntax

```
GET /application-instances/ApplicationInstanceId/details HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ApplicationInstanceId

The application instance's ID.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9\-\_\+]`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
```



```
"ApplicationInstanceId": "string",  
"ApplicationInstanceIdToReplace": "string",  
"CreatedTime": number,  
"DefaultRuntimeContextDevice": "string",  
"Description": "string",  
"ManifestOverridesPayload": { ... },  
"ManifestPayload": { ... },  
"Name": "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.

ApplicationInstanceId

The application instance's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-zA-Z0-9\-__]+

ApplicationInstanceIdToReplace

The ID of the application instance that this instance replaced.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-zA-Z0-9\-__]+

CreatedTime

When the application instance was created.

Type: Timestamp

DefaultRuntimeContextDevice

The application instance's default runtime context device.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-zA-Z0-9\-__]+

Description

The application instance's description.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: .*

ManifestOverridesPayload

Parameter overrides for the configuration manifest.

Type: [ManifestOverridesPayload](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

ManifestPayload

The application instance's configuration manifest.

Type: [ManifestPayload](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Name

The application instance's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-zA-Z0-9\-__]+

Errors

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

AccessDeniedException

The requestor does not have permission to access the target action or resource.

HTTP Status Code: 403

ConflictException

The target resource is in use.

HTTP Status Code: 409

InternalServerErrorException

An internal error occurred.

HTTP Status Code: 500

ResourceNotFoundException

The target resource was not found.

HTTP Status Code: 404

ValidationException

The request contains an invalid parameter value.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)

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

DescribeDevice

Important

End of support notice: On May 31, 2026, AWS will end support for AWS Panorama. After May 31, 2026, you will no longer be able to access the AWS Panorama console or AWS Panorama resources. For more information, see [AWS Panorama end of support](#).

Returns information about a device.

Request Syntax

```
GET /devices/DeviceId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

DeviceId

The device's ID.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9\-\_\+]`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "AlternateSoftwares": [
```

```
{
  "Version": "string"
},
"Arn": "string",
"Brand": "string",
"CreatedTime": number,
"CurrentNetworkingStatus": {
  "Ethernet0Status": {
    "ConnectionStatus": "string",
    "HwAddress": "string",
    "IpAddress": "string"
  },
  "Ethernet1Status": {
    "ConnectionStatus": "string",
    "HwAddress": "string",
    "IpAddress": "string"
  },
  "LastUpdatedTime": number,
  "NtpStatus": {
    "ConnectionStatus": "string",
    "IpAddress": "string",
    "NtpServerName": "string"
  }
},
"CurrentSoftware": "string",
"Description": "string",
"DeviceAggregatedStatus": "string",
"DeviceConnectionStatus": "string",
"DeviceId": "string",
"LatestAlternateSoftware": "string",
"LatestDeviceJob": {
  "ImageVersion": "string",
  "JobType": "string",
  "Status": "string"
},
"LatestSoftware": "string",
"LeaseExpirationTime": number,
"Name": "string",
"NetworkingConfiguration": {
  "Ethernet0": {
    "ConnectionType": "string",
    "StaticIpConnectionInfo": {
      "DefaultGateway": "string",
```

```
    "Dns": [ "string" ],
    "IpAddress": "string",
    "Mask": "string"
  }
},
"Ethernet1": {
  "ConnectionType": "string",
  "StaticIpConnectionInfo": {
    "DefaultGateway": "string",
    "Dns": [ "string" ],
    "IpAddress": "string",
    "Mask": "string"
  }
},
"Ntp": {
  "NtpServers": [ "string" ]
}
},
"ProvisioningStatus": "string",
"SerialNumber": "string",
"Tags": {
  "string" : "string"
},
"Type": "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.

AlternateSoftwares

Beta software releases available for the device.

Type: Array of [AlternateSoftwareMetadata](#) objects

Arn

The device's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Brand

The device's maker.

Type: String

Valid Values: AWS_PANORAMA | LENOVO

CreatedTime

When the device was created.

Type: Timestamp

CurrentNetworkingStatus

The device's networking status.

Type: [NetworkStatus](#) object

CurrentSoftware

The device's current software version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Description

The device's description.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: . *

DeviceAggregatedStatus

A device's aggregated status. Including the device's connection status, provisioning status, and lease status.

Type: String

Valid Values: ERROR | AWAITING_PROVISIONING | PENDING | FAILED | DELETING | ONLINE | OFFLINE | LEASE_EXPIRED | UPDATE_NEEDED | REBOOTING

DeviceConnectionStatus

The device's connection status.

Type: String

Valid Values: ONLINE | OFFLINE | AWAITING_CREDENTIALS | NOT_AVAILABLE | ERROR

DeviceId

The device's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-zA-Z0-9\-__]+

LatestAlternateSoftware

The most recent beta software release.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

LatestDeviceJob

A device's latest job. Includes the target image version, and the job status.

Type: [LatestDeviceJob](#) object

LatestSoftware

The latest software version available for the device.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

LeaseExpirationTime

The device's lease expiration time.

Type: Timestamp

Name

The device's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-zA-Z0-9\-__]+

NetworkingConfiguration

The device's networking configuration.

Type: [NetworkPayload](#) object

ProvisioningStatus

The device's provisioning status.

Type: String

Valid Values: AWAITING_PROVISIONING | PENDING | SUCCEEDED | FAILED | ERROR | DELETING

SerialNumber

The device's serial number.

Type: String

Pattern: [0-9]{1,20}

Tags

The device's tags.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: . +

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Value Pattern: . *

Type

The device's type.

Type: String

Valid Values: PANORAMA_APPLIANCE_DEVELOPER_KIT | PANORAMA_APPLIANCE

Errors

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

AccessDeniedException

The requestor does not have permission to access the target action or resource.

HTTP Status Code: 403

InternalServerError

An internal error occurred.

HTTP Status Code: 500

ResourceNotFoundException

The target resource was not found.

HTTP Status Code: 404

ValidationException

The request contains an invalid parameter value.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DescribeDeviceJob

Important

End of support notice: On May 31, 2026, AWS will end support for AWS Panorama. After May 31, 2026, you will no longer be able to access the AWS Panorama console or AWS Panorama resources. For more information, see [AWS Panorama end of support](#).

Returns information about a device job.

Request Syntax

```
GET /jobs/JobId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

JobId

The job's ID.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9\-\_\+]`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

```
{
  "CreatedTime": number,
  "DeviceArn": "string",
  "DeviceId": "string",
  "DeviceName": "string",
  "DeviceType": "string",
  "ImageVersion": "string",
  "JobId": "string",
  "JobType": "string",
  "Status": "string"
}
```

Response Elements

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

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

CreatedTime

When the job was created.

Type: Timestamp

DeviceArn

The device's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

DeviceId

The device's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-zA-Z0-9\-__]+

DeviceName

The device's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-zA-Z0-9\-__]+

DeviceType

The device's type.

Type: String

Valid Values: PANORAMA_APPLIANCE_DEVELOPER_KIT | PANORAMA_APPLIANCE

ImageVersion

For an OTA job, the target version of the device software.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: .+

JobId

The job's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-zA-Z0-9\-__]+

JobType

The job's type.

Type: String

Valid Values: OTA | REBOOT

Status

The job's status.

Type: String

Valid Values: PENDING | IN_PROGRESS | VERIFYING | REBOOTING | DOWNLOADING | COMPLETED | FAILED

Errors

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

AccessDeniedException

The requestor does not have permission to access the target action or resource.

HTTP Status Code: 403

ConflictException

The target resource is in use.

HTTP Status Code: 409

InternalServerErrorException

An internal error occurred.

HTTP Status Code: 500

ResourceNotFoundException

The target resource was not found.

HTTP Status Code: 404

ValidationException

The request contains an invalid parameter value.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)

- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DescribeNode

Important

End of support notice: On May 31, 2026, AWS will end support for AWS Panorama. After May 31, 2026, you will no longer be able to access the AWS Panorama console or AWS Panorama resources. For more information, see [AWS Panorama end of support](#).

Returns information about a node.

Request Syntax

```
GET /nodes/NodeId?OwnerAccount=OwnerAccount HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

NodeId

The node's ID.

Length Constraints: Minimum length of 1. Maximum length of 255.

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

Required: Yes

OwnerAccount

The account ID of the node's owner.

Length Constraints: Minimum length of 1. Maximum length of 12.

Pattern: `[0-9a-z\_ ]+`

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "AssetName": "string",
  "Category": "string",
  "CreatedTime": number,
  "Description": "string",
  "LastUpdatedTime": number,
  "Name": "string",
  "NodeId": "string",
  "NodeInterface": {
    "Inputs": [
      {
        "DefaultValue": "string",
        "Description": "string",
        "MaxConnections": number,
        "Name": "string",
        "Type": "string"
      }
    ],
    "Outputs": [
      {
        "Description": "string",
        "Name": "string",
        "Type": "string"
      }
    ]
  },
  "OwnerAccount": "string",
  "PackageArn": "string",
  "PackageId": "string",
  "PackageName": "string",
  "PackageVersion": "string",
  "PatchVersion": "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.

AssetName

The node's asset name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-zA-Z0-9\-__]+

Category

The node's category.

Type: String

Valid Values: BUSINESS_LOGIC | ML_MODEL | MEDIA_SOURCE | MEDIA_SINK

CreatedTime

When the node was created.

Type: Timestamp

Description

The node's description.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: .*

LastUpdatedTime

When the node was updated.

Type: Timestamp

Name

The node's name.

Type: String

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

Pattern: `[a-zA-Z0-9\-\_\+]`

NodeId

The node's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

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

NodeInterface

The node's interface.

Type: [NodeInterface](#) object

OwnerAccount

The account ID of the node's owner.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 12.

Pattern: `[0-9a-z\_\+]`

PackageArn

The node's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

PackagId

The node's package ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9\-\_\✓\+]`

PackageName

The node's package name.

Type: String

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

Pattern: [a-zA-Z0-9\-__]+

PackageVersion

The node's package version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: ([0-9]+\)\.([0-9]+)

PatchVersion

The node's patch version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-z0-9]+

Errors

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

AccessDeniedException

The requestor does not have permission to access the target action or resource.

HTTP Status Code: 403

ConflictException

The target resource is in use.

HTTP Status Code: 409

InternalServerErrorException

An internal error occurred.

HTTP Status Code: 500

ResourceNotFoundException

The target resource was not found.

HTTP Status Code: 404

ValidationException

The request contains an invalid parameter value.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DescribeNodeFromTemplateJob

Important

End of support notice: On May 31, 2026, AWS will end support for AWS Panorama. After May 31, 2026, you will no longer be able to access the AWS Panorama console or AWS Panorama resources. For more information, see [AWS Panorama end of support](#).

Returns information about a job to create a camera stream node.

Request Syntax

```
GET /packages/template-job/JobId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

JobId

The job's ID.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9\-\_\+]`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
```



```
"CreatedTime": number,
"JobId": "string",
"JobTags": [
  {
    "ResourceType": "string",
    "Tags": {
      "string" : "string"
    }
  }
],
"LastUpdatedTime": number,
"NodeDescription": "string",
"NodeName": "string",
"OutputPackageName": "string",
"OutputPackageVersion": "string",
"Status": "string",
"StatusMessage": "string",
"TemplateParameters": {
  "string" : "string"
},
"TemplateType": "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.

CreatedTime

When the job was created.

Type: Timestamp

JobId

The job's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-zA-Z0-9\-__]+

JobTags

The job's tags.

Type: Array of [JobResourceTags](#) objects

LastUpdatedTime

When the job was updated.

Type: Timestamp

NodeDescription

The node's description.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: .*

NodeName

The node's name.

Type: String

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

Pattern: [a-zA-Z0-9\-__]+

OutputPackageName

The job's output package name.

Type: String

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

Pattern: [a-zA-Z0-9\-__]+

OutputPackageVersion

The job's output package version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: ([0-9]+\.)\.[0-9]+\.

Status

The job's status.

Type: String

Valid Values: PENDING | SUCCEEDED | FAILED

StatusMessage

The job's status message.

Type: String

TemplateParameters

The job's template parameters.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 255.

Key Pattern: .+

Value Length Constraints: Minimum length of 1. Maximum length of 255.

Value Pattern: .+

TemplateType

The job's template type.

Type: String

Valid Values: RTSP_CAMERA_STREAM

Errors

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

AccessDeniedException

The requestor does not have permission to access the target action or resource.

HTTP Status Code: 403

ConflictException

The target resource is in use.

HTTP Status Code: 409

InternalServerError

An internal error occurred.

HTTP Status Code: 500

ValidationException

The request contains an invalid parameter value.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DescribePackage

Important

End of support notice: On May 31, 2026, AWS will end support for AWS Panorama. After May 31, 2026, you will no longer be able to access the AWS Panorama console or AWS Panorama resources. For more information, see [AWS Panorama end of support](#).

Returns information about a package.

Request Syntax

```
GET /packages/metadata/PackageId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

PackageId

The package's ID.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9\-\_\✓]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
```

```
"Arn": "string",
"CreatedTime": number,
"PackageId": "string",
"PackageName": "string",
"ReadAccessPrincipalArns": [ "string" ],
"StorageLocation": {
  "BinaryPrefixLocation": "string",
  "Bucket": "string",
  "GeneratedPrefixLocation": "string",
  "ManifestPrefixLocation": "string",
  "RepoPrefixLocation": "string"
},
"Tags": {
  "string" : "string"
},
"WriteAccessPrincipalArns": [ "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.

Arn

The package's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

CreatedTime

When the package was created.

Type: Timestamp

PackageId

The package's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9\-\_\//]+`

PackageName

The package's name.

Type: String

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

Pattern: `[a-zA-Z0-9\-\_] +`

ReadAccessPrincipalArns

ARNs of accounts that have read access to the package.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `arn:[a-z0-9][-.a-z0-9]{0,62}:iam::[0-9]{12}:[a-zA-Z0-9+=,.\@\_\/]+`

StorageLocation

The package's storage location.

Type: [StorageLocation](#) object

Tags

The package's tags.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: `. +`

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Value Pattern: `. *`

WriteAccessPrincipalArns

ARNs of accounts that have write access to the package.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `arn:[a-z0-9]([- .a-z0-9]{0,62}:iam:[0-9]{12}:[a-zA-Z0-9+=,.\@\_\/])+`

Errors

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

AccessDeniedException

The requestor does not have permission to access the target action or resource.

HTTP Status Code: 403

ConflictException

The target resource is in use.

HTTP Status Code: 409

InternalServerErrorException

An internal error occurred.

HTTP Status Code: 500

ResourceNotFoundException

The target resource was not found.

HTTP Status Code: 404

ValidationException

The request contains an invalid parameter value.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DescribePackageImportJob

Important

End of support notice: On May 31, 2026, AWS will end support for AWS Panorama. After May 31, 2026, you will no longer be able to access the AWS Panorama console or AWS Panorama resources. For more information, see [AWS Panorama end of support](#).

Returns information about a package import job.

Request Syntax

```
GET /packages/import-jobs/JobId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

JobId

The job's ID.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9\-\_\+]`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "ClientToken": "string",
```

```
"CreatedTime": number,
"InputConfig": {
  "PackageVersionInputConfig": {
    "S3Location": {
      "BucketName": "string",
      "ObjectKey": "string",
      "Region": "string"
    }
  }
},
"JobId": "string",
"JobTags": [
  {
    "ResourceType": "string",
    "Tags": {
      "string" : "string"
    }
  }
],
"JobType": "string",
"LastUpdatedTime": number,
"Output": {
  "OutputS3Location": {
    "BucketName": "string",
    "ObjectKey": "string"
  },
  "PackageId": "string",
  "PackageVersion": "string",
  "PatchVersion": "string"
},
"OutputConfig": {
  "PackageVersionOutputConfig": {
    "MarkLatest": boolean,
    "PackageName": "string",
    "PackageVersion": "string"
  }
},
"Status": "string",
"StatusMessage": "string"
}
```

Response Elements

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

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

ClientToken

The job's client token.

Type: String

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

Pattern: `[a-zA-Z0-9\-\_\+]`

CreatedTime

When the job was created.

Type: Timestamp

InputConfig

The job's input config.

Type: [PackageImportJobInputConfig](#) object

JobId

The job's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9\-\_\+]`

JobTags

The job's tags.

Type: Array of [JobResourceTags](#) objects

JobType

The job's type.

Type: String

Valid Values: NODE_PACKAGE_VERSION | MARKETPLACE_NODE_PACKAGE_VERSION

LastUpdatedTime

When the job was updated.

Type: Timestamp

Output

The job's output.

Type: [PackageImportJobOutput](#) object

OutputConfig

The job's output config.

Type: [PackageImportJobOutputConfig](#) object

Status

The job's status.

Type: String

Valid Values: PENDING | SUCCEEDED | FAILED

StatusMessage

The job's status message.

Type: String

Errors

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

AccessDeniedException

The requestor does not have permission to access the target action or resource.

HTTP Status Code: 403

ConflictException

The target resource is in use.

HTTP Status Code: 409

InternalServerErrorException

An internal error occurred.

HTTP Status Code: 500

ValidationException

The request contains an invalid parameter value.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DescribePackageVersion

Important

End of support notice: On May 31, 2026, AWS will end support for AWS Panorama. After May 31, 2026, you will no longer be able to access the AWS Panorama console or AWS Panorama resources. For more information, see [AWS Panorama end of support](#).

Returns information about a package version.

Request Syntax

```
GET /packages/metadata/PackageId/versions/PackageVersion?  
OwnerAccount=OwnerAccount&PatchVersion=PatchVersion HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

OwnerAccount

The version's owner account.

Length Constraints: Minimum length of 1. Maximum length of 12.

Pattern: `[0-9a-z\_]+`

PackageId

The version's ID.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9\-\_\✓]+`

Required: Yes

PackageVersion

The version's version.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: ([0-9]+\.)+([0-9]+)

Required: Yes

PatchVersion

The version's patch version.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-z0-9]+

Request Body

The request does not have a request body.

Response Syntax

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

{
  "IsLatestPatch": boolean,
  "OwnerAccount": "string",
  "PackageArn": "string",
  "PackageId": "string",
  "PackageName": "string",
  "PackageVersion": "string",
  "PatchVersion": "string",
  "RegisteredTime": number,
  "Status": "string",
  "StatusDescription": "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.

IsLatestPatch

Whether the version is the latest available.

Type: Boolean

OwnerAccount

The account ID of the version's owner.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 12.

Pattern: `[0-9a-z\_]+`

PackageArn

The ARN of the package.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

PackageId

The version's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9\-\_\✓]+`

PackageName

The version's name.

Type: String

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

Pattern: `[a-zA-Z0-9\-\_]+`

PackageVersion

The version's version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: ([0-9]+\.)\.[0-9]+\.

PatchVersion

The version's patch version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-z0-9]+\.

RegisteredTime

The version's registered time.

Type: Timestamp

Status

The version's status.

Type: String

Valid Values: REGISTER_PENDING | REGISTER_COMPLETED | FAILED | DELETING

StatusDescription

The version's status description.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Errors

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

AccessDeniedException

The requestor does not have permission to access the target action or resource.

HTTP Status Code: 403

ConflictException

The target resource is in use.

HTTP Status Code: 409

InternalServerErrorException

An internal error occurred.

HTTP Status Code: 500

ResourceNotFoundException

The target resource was not found.

HTTP Status Code: 404

ValidationException

The request contains an invalid parameter value.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListApplicationInstanceDependencies

Important

End of support notice: On May 31, 2026, AWS will end support for AWS Panorama. After May 31, 2026, you will no longer be able to access the AWS Panorama console or AWS Panorama resources. For more information, see [AWS Panorama end of support](#).

Returns a list of application instance dependencies.

Request Syntax

```
GET /application-instances/ApplicationInstanceId/package-dependencies?  
maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ApplicationInstanceId

The application instance's ID.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9\-\_\ ]+`

Required: Yes

MaxResults

The maximum number of application instance dependencies to return in one page of results.

Valid Range: Minimum value of 0. Maximum value of 25.

NextToken

Specify the pagination token from a previous request to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: . +

Request Body

The request does not have a request body.

Response Syntax

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

{
  "NextToken": "string",
  "PackageObjects": [
    {
      "Name": "string",
      "PackageVersion": "string",
      "PatchVersion": "string"
    }
  ]
}
```

Response Elements

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

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

NextToken

A pagination token that's included if more results are available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: . +

PackageObjects

A list of package objects.

Type: Array of [PackageObject](#) objects

Errors

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

AccessDeniedException

The requestor does not have permission to access the target action or resource.

HTTP Status Code: 403

InternalServerErrorException

An internal error occurred.

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListApplicationInstanceNodeInstances

Important

End of support notice: On May 31, 2026, AWS will end support for AWS Panorama. After May 31, 2026, you will no longer be able to access the AWS Panorama console or AWS Panorama resources. For more information, see [AWS Panorama end of support](#).

Returns a list of application node instances.

Request Syntax

```
GET /application-instances/ApplicationInstanceId/node-instances?  
maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ApplicationInstanceId

The node instances' application instance ID.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9\-\_\ ]+`

Required: Yes

MaxResults

The maximum number of node instances to return in one page of results.

Valid Range: Minimum value of 0. Maximum value of 25.

NextToken

Specify the pagination token from a previous request to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: . +

Request Body

The request does not have a request body.

Response Syntax

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

{
  "NextToken": "string",
  "NodeInstances": [
    {
      "CurrentStatus": "string",
      "NodeId": "string",
      "NodeInstanceId": "string",
      "NodeName": "string",
      "PackageName": "string",
      "PackagePatchVersion": "string",
      "PackageVersion": "string"
    }
  ]
}
```

Response Elements

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

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

NextToken

A pagination token that's included if more results are available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: . +

[NodeInstances](#)

A list of node instances.

Type: Array of [NodeInstance](#) objects

Errors

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

AccessDeniedException

The requestor does not have permission to access the target action or resource.

HTTP Status Code: 403

InternalServerError

An internal error occurred.

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListApplicationInstances

Important

End of support notice: On May 31, 2026, AWS will end support for AWS Panorama. After May 31, 2026, you will no longer be able to access the AWS Panorama console or AWS Panorama resources. For more information, see [AWS Panorama end of support](#).

Returns a list of application instances.

Request Syntax

```
GET /application-instances?  
deviceId=DeviceId&maxResults=MaxResults&nextToken=NextToken&statusFilter=StatusFilter  
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

DeviceId

The application instances' device ID.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9\-\_\+]`

MaxResults

The maximum number of application instances to return in one page of results.

Valid Range: Minimum value of 0. Maximum value of 25.

NextToken

Specify the pagination token from a previous request to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: . +

StatusFilter

Only include instances with a specific status.

Valid Values: DEPLOYMENT_SUCCEEDED | DEPLOYMENT_ERROR | REMOVAL_SUCCEEDED
| REMOVAL_FAILED | PROCESSING_DEPLOYMENT | PROCESSING_REMOVAL |
DEPLOYMENT_FAILED

Request Body

The request does not have a request body.

Response Syntax

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

{
  "ApplicationInstances": [
    {
      "ApplicationInstanceId": "string",
      "Arn": "string",
      "CreatedTime": number,
      "DefaultRuntimeContextDevice": "string",
      "DefaultRuntimeContextDeviceName": "string",
      "Description": "string",
      "HealthStatus": "string",
      "Name": "string",
      "RuntimeContextStates": [
        {
          "DesiredState": "string",
          "DeviceReportedStatus": "string",
          "DeviceReportedTime": number,
          "RuntimeContextName": "string"
        }
      ],
      "Status": "string",
      "StatusDescription": "string",
      "Tags": {
        "string" : "string"
      }
    }
  ]
}
```

```
    }  
  }  
],  
  "NextToken": "string"  
}
```

Response Elements

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

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

[ApplicationInstances](#)

A list of application instances.

Type: Array of [ApplicationInstance](#) objects

[NextToken](#)

A pagination token that's included if more results are available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: . +

Errors

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

AccessDeniedException

The requestor does not have permission to access the target action or resource.

HTTP Status Code: 403

InternalServerError

An internal error occurred.

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 v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListDevices

Important

End of support notice: On May 31, 2026, AWS will end support for AWS Panorama. After May 31, 2026, you will no longer be able to access the AWS Panorama console or AWS Panorama resources. For more information, see [AWS Panorama end of support](#).

Returns a list of devices.

Request Syntax

```
GET /devices?  
DeviceAggregatedStatusFilter=DeviceAggregatedStatusFilter&MaxResults=MaxResults&NameFilter=NameFilter  
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

DeviceAggregatedStatusFilter

Filter based on a device's status.

Valid Values: ERROR | AWAITING_PROVISIONING | PENDING | FAILED | DELETING | ONLINE | OFFLINE | LEASE_EXPIRED | UPDATE_NEEDED | REBOOTING

MaxResults

The maximum number of devices to return in one page of results.

Valid Range: Minimum value of 0. Maximum value of 25.

NameFilter

Filter based on device's name. Prefixes supported.

NextToken

Specify the pagination token from a previous request to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: . +

SortBy

The target column to be sorted on. Default column sort is CREATED_TIME.

Valid Values: DEVICE_ID | CREATED_TIME | NAME | DEVICE_AGGREGATED_STATUS

SortOrder

The sorting order for the returned list. SortOrder is DESCENDING by default based on CREATED_TIME. Otherwise, SortOrder is ASCENDING.

Valid Values: ASCENDING | DESCENDING

Request Body

The request does not have a request body.

Response Syntax

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

{
  "Devices": [
    {
      "Brand": "string",
      "CreateTime": number,
      "CurrentSoftware": "string",
      "Description": "string",
      "DeviceAggregatedStatus": "string",
      "DeviceId": "string",
      "LastUpdateTime": number,
      "LatestDeviceJob": {
        "ImageVersion": "string",
        "JobType": "string",
        "Status": "string"
      },
      "LeaseExpirationTime": number,
      "Name": "string",
      "ProvisioningStatus": "string",
      "Tags": {
```



```
        "string" : "string"
      },
      "Type": "string"
    }
  ],
  "NextToken": "string"
}
```

Response Elements

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

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

Devices

A list of devices.

Type: Array of [Device](#) objects

NextToken

A pagination token that's included if more results are available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: . +

Errors

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

AccessDeniedException

The requestor does not have permission to access the target action or resource.

HTTP Status Code: 403

ConflictException

The target resource is in use.

HTTP Status Code: 409

InternalServerErrorException

An internal error occurred.

HTTP Status Code: 500

ValidationException

The request contains an invalid parameter value.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListDevicesJobs

Important

End of support notice: On May 31, 2026, AWS will end support for AWS Panorama. After May 31, 2026, you will no longer be able to access the AWS Panorama console or AWS Panorama resources. For more information, see [AWS Panorama end of support](#).

Returns a list of jobs.

Request Syntax

```
GET /jobs?DeviceId=DeviceId&MaxResults=MaxResults&NextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

DeviceId

Filter results by the job's target device ID.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9\-\_\+]`

MaxResults

The maximum number of device jobs to return in one page of results.

Valid Range: Minimum value of 0. Maximum value of 25.

NextToken

Specify the pagination token from a previous request to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `.\+`

Request Body

The request does not have a request body.

Response Syntax

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

{
  "DeviceJobs": [
    {
      "CreatedTime": number,
      "DeviceId": "string",
      "DeviceName": "string",
      "JobId": "string",
      "JobType": "string"
    }
  ],
  "NextToken": "string"
}
```

Response Elements

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

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

DeviceJobs

A list of jobs.

Type: Array of [DeviceJob](#) objects

NextToken

A pagination token that's included if more results are available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: . +

Errors

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

AccessDeniedException

The requestor does not have permission to access the target action or resource.

HTTP Status Code: 403

ConflictException

The target resource is in use.

HTTP Status Code: 409

InternalServerError

An internal error occurred.

HTTP Status Code: 500

ResourceNotFoundException

The target resource was not found.

HTTP Status Code: 404

ValidationException

The request contains an invalid parameter value.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

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

ListNodeFromTemplateJobs

Important

End of support notice: On May 31, 2026, AWS will end support for AWS Panorama. After May 31, 2026, you will no longer be able to access the AWS Panorama console or AWS Panorama resources. For more information, see [AWS Panorama end of support](#).

Returns a list of camera stream node jobs.

Request Syntax

```
GET /packages/template-job?MaxResults=MaxResults&NextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

MaxResults

The maximum number of node from template jobs to return in one page of results.

Valid Range: Minimum value of 0. Maximum value of 25.

NextToken

Specify the pagination token from a previous request to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: . +

Request Body

The request does not have a request body.

Response Syntax

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

```
{
  "NextToken": "string",
  "NodeFromTemplateJobs": [
    {
      "CreatedTime": number,
      "JobId": "string",
      "NodeName": "string",
      "Status": "string",
      "StatusMessage": "string",
      "TemplateType": "string"
    }
  ]
}
```

Response Elements

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

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

NextToken

A pagination token that's included if more results are available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: .+

NodeFromTemplateJobs

A list of jobs.

Type: Array of [NodeFromTemplateJob](#) objects

Errors

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

AccessDeniedException

The requestor does not have permission to access the target action or resource.

HTTP Status Code: 403

ConflictException

The target resource is in use.

HTTP Status Code: 409

InternalServerErrorException

An internal error occurred.

HTTP Status Code: 500

ValidationException

The request contains an invalid parameter value.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListNodes

Important

End of support notice: On May 31, 2026, AWS will end support for AWS Panorama. After May 31, 2026, you will no longer be able to access the AWS Panorama console or AWS Panorama resources. For more information, see [AWS Panorama end of support](#).

Returns a list of nodes.

Request Syntax

```
GET /nodes?  
category=Category&maxResults=MaxResults&nextToken=NextToken&ownerAccount=OwnerAccount&packageName=PackageName  
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

Category

Search for nodes by category.

Valid Values: BUSINESS_LOGIC | ML_MODEL | MEDIA_SOURCE | MEDIA_SINK

MaxResults

The maximum number of nodes to return in one page of results.

Valid Range: Minimum value of 0. Maximum value of 25.

NextToken

Specify the pagination token from a previous request to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: . +

OwnerAccount

Search for nodes by the account ID of the nodes' owner.

Length Constraints: Minimum length of 1. Maximum length of 12.

Pattern: `[0-9a-z\_]+`

PackageName

Search for nodes by name.

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

Pattern: `[a-zA-Z0-9\-\_\_]+`

PackageVersion

Search for nodes by version.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `([0-9]+\)\.([0-9]+)`

PatchVersion

Search for nodes by patch version.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-z0-9]+`

Request Body

The request does not have a request body.

Response Syntax

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

{
  "NextToken": "string",
```

```
"Nodes": [  
  {  
    "Category": "string",  
    "CreatedTime": number,  
    "Description": "string",  
    "Name": "string",  
    "NodeId": "string",  
    "OwnerAccount": "string",  
    "PackageArn": "string",  
    "PackageId": "string",  
    "PackageName": "string",  
    "PackageVersion": "string",  
    "PatchVersion": "string"  
  }  
]
```

Response Elements

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

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

NextToken

A pagination token that's included if more results are available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: . +

Nodes

A list of nodes.

Type: Array of [Node](#) objects

Errors

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

ConflictException

The target resource is in use.

HTTP Status Code: 409

InternalServerErrorException

An internal error occurred.

HTTP Status Code: 500

ValidationException

The request contains an invalid parameter value.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListPackageImportJobs

Important

End of support notice: On May 31, 2026, AWS will end support for AWS Panorama. After May 31, 2026, you will no longer be able to access the AWS Panorama console or AWS Panorama resources. For more information, see [AWS Panorama end of support](#).

Returns a list of package import jobs.

Request Syntax

```
GET /packages/import-jobs?MaxResults=MaxResults&NextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

MaxResults

The maximum number of package import jobs to return in one page of results.

Valid Range: Minimum value of 0. Maximum value of 25.

NextToken

Specify the pagination token from a previous request to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: . +

Request Body

The request does not have a request body.

Response Syntax

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

```
{
  "NextToken": "string",
  "PackageImportJobs": [
    {
      "CreatedTime": number,
      "JobId": "string",
      "JobType": "string",
      "LastUpdatedTime": number,
      "Status": "string",
      "StatusMessage": "string"
    }
  ]
}
```

Response Elements

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

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

NextToken

A pagination token that's included if more results are available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: .+

PackageImportJobs

A list of package import jobs.

Type: Array of [PackageImportJob](#) objects

Errors

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

AccessDeniedException

The requestor does not have permission to access the target action or resource.

HTTP Status Code: 403

ConflictException

The target resource is in use.

HTTP Status Code: 409

InternalServerErrorException

An internal error occurred.

HTTP Status Code: 500

ValidationException

The request contains an invalid parameter value.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListPackages

Important

End of support notice: On May 31, 2026, AWS will end support for AWS Panorama. After May 31, 2026, you will no longer be able to access the AWS Panorama console or AWS Panorama resources. For more information, see [AWS Panorama end of support](#).

Returns a list of packages.

Request Syntax

```
GET /packages?maxResults=MaxResults&nextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

MaxResults

The maximum number of packages to return in one page of results.

Valid Range: Minimum value of 0. Maximum value of 25.

NextToken

Specify the pagination token from a previous request to retrieve the next page of results.

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: . +

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Content-type: application/json

```
{
  "NextToken": "string",
  "Packages": [
    {
      "Arn": "string",
      "CreatedTime": number,
      "PackageId": "string",
      "PackageName": "string",
      "Tags": {
        "string" : "string"
      }
    }
  ]
}
```

Response Elements

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

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

NextToken

A pagination token that's included if more results are available.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: . +

Packages

A list of packages.

Type: Array of [PackageListItem](#) objects

Errors

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

AccessDeniedException

The requestor does not have permission to access the target action or resource.

HTTP Status Code: 403

ConflictException

The target resource is in use.

HTTP Status Code: 409

InternalServerErrorException

An internal error occurred.

HTTP Status Code: 500

ResourceNotFoundException

The target resource was not found.

HTTP Status Code: 404

ValidationException

The request contains an invalid parameter value.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)

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

ListTagsForResource

Important

End of support notice: On May 31, 2026, AWS will end support for AWS Panorama. After May 31, 2026, you will no longer be able to access the AWS Panorama console or AWS Panorama resources. For more information, see [AWS Panorama end of support](#).

Returns a list of tags for a resource.

Request Syntax

```
GET /tags/ResourceArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ResourceArn

The resource's ARN.

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

Pattern: . +

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

A list of tags.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: . +

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Value Pattern: . *

Errors

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

InternalServerErrorException

An internal error occurred.

HTTP Status Code: 500

ResourceNotFoundException

The target resource was not found.

HTTP Status Code: 404

ValidationException

The request contains an invalid parameter value.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ProvisionDevice

Important

End of support notice: On May 31, 2026, AWS will end support for AWS Panorama. After May 31, 2026, you will no longer be able to access the AWS Panorama console or AWS Panorama resources. For more information, see [AWS Panorama end of support](#).

Creates a device and returns a configuration archive. The configuration archive is a ZIP file that contains a provisioning certificate that is valid for 5 minutes. Name the configuration archive `certificates-omni_device-name.zip` and transfer it to the device within 5 minutes. Use the included USB storage device and connect it to the USB 3.0 port next to the HDMI output.

Request Syntax

POST /devices HTTP/1.1

Content-type: application/json

```
{
  "Description": "string",
  "Name": "string",
  "NetworkingConfiguration": {
    "Ethernet0": {
      "ConnectionType": "string",
      "StaticIpConnectionInfo": {
        "DefaultGateway": "string",
        "Dns": [ "string" ],
        "IpAddress": "string",
        "Mask": "string"
      }
    },
    "Ethernet1": {
      "ConnectionType": "string",
      "StaticIpConnectionInfo": {
        "DefaultGateway": "string",
        "Dns": [ "string" ],
        "IpAddress": "string",
        "Mask": "string"
      }
    }
  },
}
```



```
  "Ntp": {
    "NtpServers": [ "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.

Description

A description for the device.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: . *

Required: No

Name

A name for the device.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-zA-Z0-9\-__]+

Required: Yes

NetworkingConfiguration

A networking configuration for the device.

Type: [NetworkPayload](#) object

Required: No

Tags

Tags for the device.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: . +

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Value Pattern: . *

Required: No

Response Syntax

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

```
{
  "Arn": "string",
  "Certificates": blob,
  "DeviceId": "string",
  "IoTThingName": "string",
  "Status": "string"
}
```

Response Elements

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

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

Arn

The device's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Certificates

The device's configuration bundle.

Type: Base64-encoded binary data object

DeviceId

The device's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-zA-Z0-9\-__]+

IoTThingName

The device's IoT thing name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Status

The device's status.

Type: String

Valid Values: AWAITING_PROVISIONING | PENDING | SUCCEEDED | FAILED | ERROR | DELETING

Errors

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

AccessDeniedException

The requestor does not have permission to access the target action or resource.

HTTP Status Code: 403

ConflictException

The target resource is in use.

HTTP Status Code: 409

InternalServerErrorException

An internal error occurred.

HTTP Status Code: 500

ServiceQuotaExceededException

The request would cause a limit to be exceeded.

HTTP Status Code: 402

ValidationException

The request contains an invalid parameter value.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

RegisterPackageVersion

Important

End of support notice: On May 31, 2026, AWS will end support for AWS Panorama. After May 31, 2026, you will no longer be able to access the AWS Panorama console or AWS Panorama resources. For more information, see [AWS Panorama end of support](#).

Registers a package version.

Request Syntax

```
PUT /packages/PackageId/versions/PackageVersion/patch/PatchVersion HTTP/1.1
Content-type: application/json

{
  "MarkLatest": boolean,
  "OwnerAccount": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

PackageId

A package ID.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9\-\_\✓]+`

Required: Yes

PackageVersion

A package version.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `([0-9]+)\.([0-9]+)`

Required: Yes

PatchVersion

A patch version.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-z0-9]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

MarkLatest

Whether to mark the new version as the latest version.

Type: Boolean

Required: No

OwnerAccount

An owner account.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 12.

Pattern: [0-9a-z_]+

Required: No

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](#).

AccessDeniedException

The requestor does not have permission to access the target action or resource.

HTTP Status Code: 403

ConflictException

The target resource is in use.

HTTP Status Code: 409

InternalServerErrorException

An internal error occurred.

HTTP Status Code: 500

ValidationException

The request contains an invalid parameter value.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)

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

RemoveApplicationInstance

Important

End of support notice: On May 31, 2026, AWS will end support for AWS Panorama. After May 31, 2026, you will no longer be able to access the AWS Panorama console or AWS Panorama resources. For more information, see [AWS Panorama end of support](#).

Removes an application instance.

Request Syntax

```
DELETE /application-instances/ApplicationInstanceId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ApplicationInstanceId

An application instance ID.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9\-\_\+]`

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](#).

AccessDeniedException

The requestor does not have permission to access the target action or resource.

HTTP Status Code: 403

ConflictException

The target resource is in use.

HTTP Status Code: 409

InternalServerErrorException

An internal error occurred.

HTTP Status Code: 500

ResourceNotFoundException

The target resource was not found.

HTTP Status Code: 404

ValidationException

The request contains an invalid parameter value.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

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

SignalApplicationInstanceNodeInstances

Important

End of support notice: On May 31, 2026, AWS will end support for AWS Panorama. After May 31, 2026, you will no longer be able to access the AWS Panorama console or AWS Panorama resources. For more information, see [AWS Panorama end of support](#).

Signal camera nodes to stop or resume.

Request Syntax

```
PUT /application-instances/ApplicationInstanceId/node-signals HTTP/1.1
```

Content-type: application/json

```
{
  "NodeSignals": [
    {
      "NodeInstanceId": "string",
      "Signal": "string"
    }
  ]
}
```

URI Request Parameters

The request uses the following URI parameters.

[ApplicationInstancelId](#)

An application instance ID.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9\-\_\_]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

NodeSignals

A list of signals.

Type: Array of [NodeSignal](#) objects

Array Members: Minimum number of 1 item.

Required: Yes

Response Syntax

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

{
  "ApplicationInstanceId": "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.

ApplicationInstanceId

An application instance ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9\-\_\+]`

Errors

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

AccessDeniedException

The requestor does not have permission to access the target action or resource.

HTTP Status Code: 403

InternalServerError

An internal error occurred.

HTTP Status Code: 500

ServiceQuotaExceededException

The request would cause a limit to be exceeded.

HTTP Status Code: 402

ValidationException

The request contains an invalid parameter value.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

TagResource

Important

End of support notice: On May 31, 2026, AWS will end support for AWS Panorama. After May 31, 2026, you will no longer be able to access the AWS Panorama console or AWS Panorama resources. For more information, see [AWS Panorama end of support](#).

Tags a resource.

Request Syntax

```
POST /tags/ResourceArn HTTP/1.1
Content-type: application/json
```

```
{
  "Tags": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

ResourceArn

The resource's ARN.

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

Pattern: . +

Required: Yes

Request Body

The request accepts the following data in JSON format.

Tags

Tags for the resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: . +

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Value Pattern: . *

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

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

InternalServerErrorException

An internal error occurred.

HTTP Status Code: 500

ResourceNotFoundException

The target resource was not found.

HTTP Status Code: 404

ValidationException

The request contains an invalid parameter value.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UntagResource

Important

End of support notice: On May 31, 2026, AWS will end support for AWS Panorama. After May 31, 2026, you will no longer be able to access the AWS Panorama console or AWS Panorama resources. For more information, see [AWS Panorama end of support](#).

Removes tags from a resource.

Request Syntax

```
DELETE /tags/ResourceArn?tagKeys=TagKeys HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ResourceArn

The resource's ARN.

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

Pattern: . +

Required: Yes

TagKeys

Tag keys to remove.

Array Members: Minimum number of 1 item. Maximum number of 50 items.

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

Pattern: . +

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](#).

InternalServerError

An internal error occurred.

HTTP Status Code: 500

ResourceNotFoundException

The target resource was not found.

HTTP Status Code: 404

ValidationException

The request contains an invalid parameter value.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateDeviceMetadata

Important

End of support notice: On May 31, 2026, AWS will end support for AWS Panorama. After May 31, 2026, you will no longer be able to access the AWS Panorama console or AWS Panorama resources. For more information, see [AWS Panorama end of support](#).

Updates a device's metadata.

Request Syntax

```
PUT /devices/DeviceId HTTP/1.1
Content-type: application/json
```

```
{
  "Description": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

DeviceId

The device's ID.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9\-\_\+]`

Required: Yes

Request Body

The request accepts the following data in JSON format.

Description

A description for the device.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: .*

Required: No

Response Syntax

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

{
  "DeviceId": "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.

DeviceId

The device's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-zA-Z0-9\-__]+

Errors

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

AccessDeniedException

The requestor does not have permission to access the target action or resource.

HTTP Status Code: 403

ConflictException

The target resource is in use.

HTTP Status Code: 409

InternalServerErrorException

An internal error occurred.

HTTP Status Code: 500

ResourceNotFoundException

The target resource was not found.

HTTP Status Code: 404

ValidationException

The request contains an invalid parameter value.

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

Data Types

The AWS Panorama 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:

- [AlternateSoftwareMetadata](#)
- [ApplicationInstance](#)
- [ConflictExceptionErrorArgument](#)
- [Device](#)
- [DeviceJob](#)
- [DeviceJobConfig](#)
- [EthernetPayload](#)
- [EthernetStatus](#)
- [Job](#)
- [JobResourceTags](#)
- [LatestDeviceJob](#)
- [ManifestOverridesPayload](#)
- [ManifestPayload](#)
- [NetworkPayload](#)
- [NetworkStatus](#)
- [Node](#)
- [NodeFromTemplateJob](#)
- [NodeInputPort](#)
- [NodeInstance](#)
- [NodeInterface](#)

- [NodeOutputPort](#)
- [NodeSignal](#)
- [NtpPayload](#)
- [NtpStatus](#)
- [OTAJobConfig](#)
- [OutPutS3Location](#)
- [PackageImportJob](#)
- [PackageImportJobInputConfig](#)
- [PackageImportJobOutput](#)
- [PackageImportJobOutputConfig](#)
- [PackageListItem](#)
- [PackageObject](#)
- [PackageVersionInputConfig](#)
- [PackageVersionOutputConfig](#)
- [ReportedRuntimeContextState](#)
- [S3Location](#)
- [StaticIpConnectionInfo](#)
- [StorageLocation](#)
- [ValidationExceptionErrorArgument](#)
- [ValidationExceptionField](#)

AlternateSoftwareMetadata

Details about a beta appliance software update.

Contents

Version

The appliance software version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

See Also

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

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

ApplicationInstance

An application instance on a device.

Contents

ApplicationInstanceId

The application instance's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9\-\_\_]+`

Required: No

Arn

The application instance's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

CreatedTime

When the application instance was created.

Type: Timestamp

Required: No

DefaultRuntimeContextDevice

The device's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9\-\_\_]+`

Required: No

DefaultRuntimeContextDeviceName

The device's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-zA-Z0-9\-__]+

Required: No

Description

The application instance's description.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: .*

Required: No

HealthStatus

The application instance's health status.

Type: String

Valid Values: RUNNING | ERROR | NOT_AVAILABLE

Required: No

Name

The application instance's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-zA-Z0-9\-__]+

Required: No

RuntimeContextStates

The application's state.

Type: Array of [ReportedRuntimeContextState](#) objects

Required: No

Status

The application instance's status.

Type: String

Valid Values: DEPLOYMENT_PENDING | DEPLOYMENT_REQUESTED |
DEPLOYMENT_IN_PROGRESS | DEPLOYMENT_ERROR | DEPLOYMENT_SUCCEEDED
| REMOVAL_PENDING | REMOVAL_REQUESTED | REMOVAL_IN_PROGRESS |
REMOVAL_FAILED | REMOVAL_SUCCEEDED | DEPLOYMENT_FAILED

Required: No

StatusDescription

The application instance's status description.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

Tags

The application instance's tags.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: . +

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Value Pattern: . *

Required: No

See Also

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

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

ConflictExceptionErrorArgument

A conflict exception error argument.

Contents

Name

The error argument's name.

Type: String

Required: Yes

Value

The error argument's value.

Type: String

Required: Yes

See Also

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

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

Device

A device.

Contents

Brand

The device's maker.

Type: String

Valid Values: AWS_PANORAMA | LENOVO

Required: No

CreatedTime

When the device was created.

Type: Timestamp

Required: No

CurrentSoftware

A device's current software.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

Description

A description for the device.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: . *

Required: No

DeviceAggregatedStatus

A device's aggregated status. Including the device's connection status, provisioning status, and lease status.

Type: String

Valid Values: ERROR | AWAITING_PROVISIONING | PENDING | FAILED | DELETING | ONLINE | OFFLINE | LEASE_EXPIRED | UPDATE_NEEDED | REBOOTING

Required: No

DeviceId

The device's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-zA-Z0-9\-__]+

Required: No

LastUpdateTime

When the device was updated.

Type: Timestamp

Required: No

LatestDeviceJob

A device's latest job. Includes the target image version, and the update job status.

Type: [LatestDeviceJob](#) object

Required: No

LeaseExpirationTime

The device's lease expiration time.

Type: Timestamp

Required: No

Name

The device's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9\-\_\+]`

Required: No

ProvisioningStatus

The device's provisioning status.

Type: String

Valid Values: `AWAITING_PROVISIONING` | `PENDING` | `SUCCEEDED` | `FAILED` | `ERROR` | `DELETING`

Required: No

Tags

The device's tags.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: `.+`

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Value Pattern: `.*`

Required: No

Type

The device's type.

Type: String

Valid Values: PANORAMA_APPLIANCE_DEVELOPER_KIT | PANORAMA_APPLIANCE

Required: No

See Also

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

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

DeviceJob

A job that runs on a device.

Contents

CreatedTime

When the job was created.

Type: Timestamp

Required: No

DeviceId

The ID of the target device.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-zA-Z0-9\-__]+

Required: No

DeviceName

The name of the target device

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-zA-Z0-9\-__]+

Required: No

JobId

The job's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-zA-Z0-9\-__]+

Required: No

JobType

The job's type.

Type: String

Valid Values: OTA | REBOOT

Required: No

See Also

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

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

DeviceJobConfig

A job's configuration.

Contents

OTAJobConfig

A configuration for an over-the-air (OTA) upgrade. Required for OTA jobs.

Type: [OTAJobConfig](#) object

Required: No

See Also

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

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

EthernetPayload

A device's network configuration.

Contents

ConnectionType

How the device gets an IP address.

Type: String

Valid Values: `STATIC_IP` | `DHCP`

Required: Yes

StaticIpConnectionInfo

Network configuration for a static IP connection.

Type: [StaticIpConnectionInfo](#) object

Required: No

See Also

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

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

EthernetStatus

A device's Ethernet status.

Contents

ConnectionStatus

The device's connection status.

Type: String

Valid Values: CONNECTED | NOT_CONNECTED | CONNECTING

Required: No

HwAddress

The device's physical address.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

IpAddress

The device's IP address.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: ((25[0-5]|2[0-4]\d|1\d\d|[1-9]?\d)\.(25[0-5]|2[0-4]\d|1\d\d|[1-9]?\d)\.(25[0-5]|2[0-4]\d|1\d\d|[1-9]?\d)\.(25[0-5]|2[0-4]\d|1\d\d|[1-9]?\d))(:((6553[0-5]|655[0-2]\d|65[0-4]\d{2}|6[0-4]\d{3}|[1-5]\d{4}|[1-9]\d{0,3})))?

Required: No

See Also

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

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

Job

A job for a device.

Contents

DeviceId

The target device's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9\-\_\_]+`

Required: No

JobId

The job's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9\-\_\_]+`

Required: No

See Also

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

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

JobResourceTags

Tags for a job.

Contents

ResourceType

The job's type.

Type: String

Valid Values: PACKAGE

Required: Yes

Tags

The job's tags.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: . +

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Value Pattern: . *

Required: Yes

See Also

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

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

LatestDeviceJob

Returns information about the latest device job.

Contents

ImageVersion

The target version of the device software.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: . +

Required: No

JobType

The job's type.

Type: String

Valid Values: OTA | REBOOT

Required: No

Status

Status of the latest device job.

Type: String

Valid Values: PENDING | IN_PROGRESS | VERIFYING | REBOOTING | DOWNLOADING | COMPLETED | FAILED

Required: No

See Also

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

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

ManifestOverridesPayload

Parameter overrides for an application instance. This is a JSON document that has a single key (PayloadData) where the value is an escaped string representation of the overrides document.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

PayloadData

The overrides document.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 51200.

Pattern: .*

Required: No

See Also

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

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

ManifestPayload

A application verion's manifest file. This is a JSON document that has a single key (PayloadData) where the value is an escaped string representation of the application manifest (graph.json). This file is located in the graphs folder in your application source.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

PayloadData

The application manifest.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 51200.

Pattern: . +

Required: No

See Also

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

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

NetworkPayload

The network configuration for a device.

Contents

Ethernet0

Settings for Ethernet port 0.

Type: [EthernetPayload](#) object

Required: No

Ethernet1

Settings for Ethernet port 1.

Type: [EthernetPayload](#) object

Required: No

Ntp

Network time protocol (NTP) server settings.

Type: [NtpPayload](#) object

Required: No

See Also

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

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

NetworkStatus

The network status of a device.

Contents

Ethernet0Status

The status of Ethernet port 0.

Type: [EthernetStatus](#) object

Required: No

Ethernet1Status

The status of Ethernet port 1.

Type: [EthernetStatus](#) object

Required: No

LastUpdatedTime

When the network status changed.

Type: Timestamp

Required: No

NtpStatus

Details about a network time protocol (NTP) server connection.

Type: [NtpStatus](#) object

Required: No

See Also

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

- [AWS SDK for C++](#)

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

Node

An application node that represents a camera stream, a model, code, or output.

Contents

Category

The node's category.

Type: String

Valid Values: BUSINESS_LOGIC | ML_MODEL | MEDIA_SOURCE | MEDIA_SINK

Required: Yes

CreatedTime

When the node was created.

Type: Timestamp

Required: Yes

Name

The node's name.

Type: String

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

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

Required: Yes

NodeId

The node's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

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

Required: Yes

PackageId

The node's package ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-zA-Z0-9\-_\//]+

Required: Yes

PackageName

The node's package name.

Type: String

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

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

Required: Yes

PackageVersion

The node's package version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: ([0-9]+)\.([0-9]+)

Required: Yes

PatchVersion

The node's patch version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-z0-9]+

Required: Yes

Description

The node's description.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: . *

Required: No

OwnerAccount

The account ID of the node's owner.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 12.

Pattern: [0-9a-z_]+

Required: No

PackageArn

The node's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

See Also

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

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

NodeFromTemplateJob

A job to create a camera stream node.

Contents

CreatedTime

When the job was created.

Type: Timestamp

Required: No

JobId

The job's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-zA-Z0-9\-__]+

Required: No

NodeName

The node's name.

Type: String

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

Pattern: [a-zA-Z0-9\-__]+

Required: No

Status

The job's status.

Type: String

Valid Values: PENDING | SUCCEEDED | FAILED

Required: No

StatusMessage

The job's status message.

Type: String

Required: No

TemplateType

The job's template type.

Type: String

Valid Values: RTSP_CAMERA_STREAM

Required: No

See Also

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

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

NodeInputPort

A node input port.

Contents

DefaultValue

The input port's default value.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

Description

The input port's description.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: . *

Required: No

MaxConnections

The input port's max connections.

Type: Integer

Required: No

Name

The input port's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 50.

Pattern: [a-zA-Z0-9_]+

Required: No

Type

The input port's type.

Type: String

Valid Values: BOOLEAN | STRING | INT32 | FLOAT32 | MEDIA

Required: No

See Also

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

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

NodeInstance

A node instance.

Contents

CurrentStatus

The instance's current status.

Type: String

Valid Values: RUNNING | ERROR | NOT_AVAILABLE | PAUSED

Required: Yes

NodeInstanceId

The instance's ID.

Type: String

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

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

Required: Yes

NodeId

The node's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

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

Required: No

NodeName

The instance's name.

Type: String

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

Pattern: `[a-zA-Z0-9\-\_\_]+`

Required: No

PackageName

The instance's package name.

Type: String

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

Pattern: `[a-zA-Z0-9\-\_\_]+`

Required: No

PackagePatchVersion

The instance's package patch version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-z0-9]+`

Required: No

PackageVersion

The instance's package version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `([0-9]+\)\.([0-9]+)`

Required: No

See Also

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

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

NodeInterface

A node interface.

Contents

Inputs

The node interface's inputs.

Type: Array of [NodeInputPort](#) objects

Required: Yes

Outputs

The node interface's outputs.

Type: Array of [NodeOutputPort](#) objects

Required: Yes

See Also

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

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

NodeOutputPort

A node output port.

Contents

Description

The output port's description.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: .*

Required: No

Name

The output port's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 50.

Pattern: [a-zA-Z0-9_]+

Required: No

Type

The output port's type.

Type: String

Valid Values: BOOLEAN | STRING | INT32 | FLOAT32 | MEDIA

Required: No

See Also

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

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

NodeSignal

A signal to a camera node to start or stop processing video.

Contents

NodeInstanceId

The camera node's name, from the application manifest.

Type: String

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

Pattern: `[a-zA-Z0-9\-\_\_]+`

Required: Yes

Signal

The signal value.

Type: String

Valid Values: PAUSE | RESUME

Required: Yes

See Also

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

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

NtpPayload

Network time protocol (NTP) server settings. Use this option to connect to local NTP servers instead of `pool.ntp.org`.

Contents

NtpServers

NTP servers to use, in order of preference.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `.*(^([a-z0-9]+(-[a-z0-9]+)*\.)+[a-z]{2,}$)|(^((25[0-5]|2[0-4]\d|1\d\d|[1-9]?\d)\.(25[0-5]|2[0-4]\d|1\d\d|[1-9]?\d)\.(25[0-5]|2[0-4]\d|1\d\d|[1-9]?\d)\.(25[0-5]|2[0-4]\d|1\d\d|[1-9]?\d))(: (6553[0-5]|655[0-2]\d|65[0-4]\d{2}|6[0-4]\d{3}|[1-5]\d{4}|[1-9]\d{0,3}))?$).*`

Required: Yes

See Also

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

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

NtpStatus

Details about an NTP server connection.

Contents

ConnectionStatus

The connection's status.

Type: String

Valid Values: CONNECTED | NOT_CONNECTED | CONNECTING

Required: No

IpAddress

The IP address of the server.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: ((25[0-5]|2[0-4]\d|1\d\d|[1-9]?\d)\.(25[0-5]|2[0-4]\d|1\d\d|[1-9]?\d)\.(25[0-5]|2[0-4]\d|1\d\d|[1-9]?\d)\.(25[0-5]|2[0-4]\d|1\d\d|[1-9]?\d))(: (6553[0-5]|655[0-2]\d|65[0-4]\d{2}|6[0-4]\d{3}|[1-5]\d{4}|[1-9]\d{0,3}))?

Required: No

NtpServerName

The domain name of the server.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

See Also

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

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

OTAJobConfig

An over-the-air update (OTA) job configuration.

Contents

ImageVersion

The target version of the device software.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: . +

Required: Yes

AllowMajorVersionUpdate

Whether to apply the update if it is a major version change.

Type: Boolean

Required: No

See Also

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

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

OutPutS3Location

The location of an output object in Amazon S3.

Contents

BucketName

The object's bucket.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: . +

Required: Yes

ObjectKey

The object's key.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: . +

Required: Yes

See Also

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

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

PackageImportJob

A job to import a package version.

Contents

CreatedTime

When the job was created.

Type: Timestamp

Required: No

JobId

The job's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: [a-zA-Z0-9\-__]+

Required: No

JobType

The job's type.

Type: String

Valid Values: NODE_PACKAGE_VERSION | MARKETPLACE_NODE_PACKAGE_VERSION

Required: No

LastUpdateTime

When the job was updated.

Type: Timestamp

Required: No

Status

The job's status.

Type: String

Valid Values: PENDING | SUCCEEDED | FAILED

Required: No

StatusMessage

The job's status message.

Type: String

Required: No

See Also

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

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

PackageImportJobInputConfig

A configuration for a package import job.

Contents

PackageVersionInputConfig

The package version's input configuration.

Type: [PackageVersionInputConfig](#) object

Required: No

See Also

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

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

PackageImportJobOutput

Results of a package import job.

Contents

OutputS3Location

The package's output location.

Type: [OutPutS3Location](#) object

Required: Yes

PackageId

The package's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9\-\_\V]+`

Required: Yes

PackageVersion

The package's version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `([0-9]+\)\.([0-9]+)`

Required: Yes

PatchVersion

The package's patch version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-z0-9]+`

Required: Yes

See Also

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

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

PackageImportJobOutputConfig

An output configuration for a package import job.

Contents

PackageVersionOutputConfig

The package version's output configuration.

Type: [PackageVersionOutputConfig](#) object

Required: No

See Also

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

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

PackageListItem

A package summary.

Contents

Arn

The package's ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Required: No

CreatedTime

When the package was created.

Type: Timestamp

Required: No

PackageId

The package's ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-zA-Z0-9\-\_\//]+`

Required: No

PackageName

The package's name.

Type: String

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

Pattern: `[a-zA-Z0-9\-\_]+`

Required: No

Tags

The package's tags.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

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

Key Pattern: . +

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Value Pattern: . *

Required: No

See Also

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

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

PackageObject

A package object.

Contents

Name

The object's name.

Type: String

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

Pattern: `[a-zA-Z0-9\-\_\+]`

Required: Yes

PackageVersion

The object's package version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `([0-9]+\)\.([0-9]+)`

Required: Yes

PatchVersion

The object's patch version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[a-z0-9\+]`

Required: Yes

See Also

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

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

PackageVersionInputConfig

A package version input configuration.

Contents

S3Location

A location in Amazon S3.

Type: [S3Location](#) 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 Java V2](#)
- [AWS SDK for Ruby V3](#)

PackageVersionOutputConfig

A package version output configuration.

Contents

PackageName

The output's package name.

Type: String

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

Pattern: `[a-zA-Z0-9\-\_\_]+`

Required: Yes

PackageVersion

The output's package version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `([0-9]+\)\.([0-9]+)`

Required: Yes

MarkLatest

Indicates that the version is recommended for all users.

Type: Boolean

Required: No

See Also

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

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

ReportedRuntimeContextState

An application instance's state.

Contents

DesiredState

The application's desired state.

Type: String

Valid Values: RUNNING | STOPPED | REMOVED

Required: Yes

DeviceReportedStatus

The application's reported status.

Type: String

Valid Values: STOPPING | STOPPED | STOP_ERROR | REMOVAL_FAILED |
REMOVAL_IN_PROGRESS | STARTING | RUNNING | INSTALL_ERROR | LAUNCHED |
LAUNCH_ERROR | INSTALL_IN_PROGRESS

Required: Yes

DeviceReportedTime

When the device reported the application's state.

Type: Timestamp

Required: Yes

RuntimeContextName

The device's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: . +

Required: Yes

See Also

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

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

S3Location

A location in Amazon S3.

Contents

BucketName

A bucket name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: . +

Required: Yes

ObjectKey

An object key.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: . +

Required: Yes

Region

The bucket's Region.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: . +

Required: No

See Also

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

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

StaticIpConnectionInfo

A static IP configuration.

Contents

DefaultGateway

The connection's default gateway.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: . +

Required: Yes

Dns

The connection's DNS address.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: . +

Required: Yes

IpAddress

The connection's IP address.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: ((25[0-5]|2[0-4]\d|1\d\d|[1-9]?\d)\.(25[0-5]|2[0-4]\d|1\d\d|[1-9]?\d)\.(25[0-5]|2[0-4]\d|1\d\d|[1-9]?\d)\.(25[0-5]|2[0-4]\d|1\d\d|[1-9]?\d))|(:6553[0-5]|655[0-2]\d|65[0-4]\d{2}|6[0-4]\d{3}|[1-5]\d{4}|[1-9]\d{0,3}))?

Required: Yes

Mask

The connection's DNS mask.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: . +

Required: Yes

See Also

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

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

StorageLocation

A storage location.

Contents

BinaryPrefixLocation

The location's binary prefix.

Type: String

Required: Yes

Bucket

The location's bucket.

Type: String

Required: Yes

GeneratedPrefixLocation

The location's generated prefix.

Type: String

Required: Yes

ManifestPrefixLocation

The location's manifest prefix.

Type: String

Required: Yes

RepoPrefixLocation

The location's repo prefix.

Type: String

Required: Yes

See Also

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

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

ValidationExceptionErrorArgument

A validation exception error argument.

Contents

Name

The argument's name.

Type: String

Required: Yes

Value

The argument's value.

Type: String

Required: Yes

See Also

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

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

ValidationExceptionField

A validation exception field.

Contents

Message

The field's message.

Type: String

Required: Yes

Name

The field's name.

Type: String

Required: Yes

See Also

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

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

Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see [Signing AWS API requests](#) in the *IAM User Guide*.

Action

The action to be performed.

Type: string

Required: Yes

Version

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

Type: string

Required: Yes

X-Amz-Algorithm

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

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

Type: string

Valid Values: AWS4-HMAC-SHA256

Required: Conditional

X-Amz-Credential

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

For more information, see [Create a signed AWS API request](#) in the *IAM User Guide*.

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

Type: string

Required: Conditional

X-Amz-Date

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

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see [Elements of an AWS API request signature](#) in the *IAM User Guide*.

Type: string

Required: Conditional

X-Amz-Security-Token

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

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

Type: string

Required: Conditional

X-Amz-Signature

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

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

Type: string

Required: Conditional

X-Amz-SignedHeaders

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see [Create a signed AWS API request](#) in the *IAM User Guide*.

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

Type: string

Required: Conditional

Common Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

ExpiredTokenException

The security token included in the request is expired

HTTP Status Code: 403

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 403

InternalFailure

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

HTTP Status Code: 500

MalformedHttpRequestException

Problems with the request at the HTTP level, e.g. we can't decompress the body according to the decompression algorithm specified by the content-encoding.

HTTP Status Code: 400

NotAuthorized

You do not have permission to perform this action.

HTTP Status Code: 401

OptInRequired

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

HTTP Status Code: 403

RequestAbortedException

Convenient exception that can be used when a request is aborted before a reply is sent back (e.g. client closed connection).

HTTP Status Code: 400

RequestEntityTooLargeException

Problems with the request at the HTTP level. The request entity is too large.

HTTP Status Code: 413

RequestExpired

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

HTTP Status Code: 400

RequestTimeoutException

Problems with the request at the HTTP level. Reading the Request timed out.

HTTP Status Code: 408

ServiceUnavailable

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

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

UnrecognizedClientException

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

HTTP Status Code: 403

UnknownOperationException

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

HTTP Status Code: 404

ValidationError

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

HTTP Status Code: 400