



API Reference

# AWS Panorama



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# AWS Panorama: API Reference

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# Table of Contents

<b>Welcome</b> .....	<b>1</b>
<b>Actions</b> .....	<b>2</b>
CreateApplicationInstance .....	4
Request Syntax .....	4
URI Request Parameters .....	4
Request Body .....	4
Response Syntax .....	7
Response Elements .....	7
Errors .....	7
See Also .....	9
CreateJobForDevices .....	10
Request Syntax .....	10
URI Request Parameters .....	10
Request Body .....	10
Response Syntax .....	11
Response Elements .....	11
Errors .....	12
See Also .....	13
CreateNodeFromTemplateJob .....	15
Request Syntax .....	15
URI Request Parameters .....	15
Request Body .....	16
Response Syntax .....	17
Response Elements .....	18
Errors .....	18
See Also .....	19
CreatePackage .....	21
Request Syntax .....	21
URI Request Parameters .....	21
Request Body .....	21
Response Syntax .....	22
Response Elements .....	22
Errors .....	23
See Also .....	24

CreatePackageImportJob .....	26
Request Syntax .....	26
URI Request Parameters .....	27
Request Body .....	27
Response Syntax .....	28
Response Elements .....	28
Errors .....	28
See Also .....	30
DeleteDevice .....	31
Request Syntax .....	31
URI Request Parameters .....	31
Request Body .....	31
Response Syntax .....	31
Response Elements .....	32
Errors .....	32
See Also .....	34
DeletePackage .....	35
Request Syntax .....	35
URI Request Parameters .....	35
Request Body .....	36
Response Syntax .....	36
Response Elements .....	36
Errors .....	36
See Also .....	37
DeregisterPackageVersion .....	39
Request Syntax .....	39
URI Request Parameters .....	39
Request Body .....	40
Response Syntax .....	40
Response Elements .....	40
Errors .....	40
See Also .....	42
DescribeApplicationInstance .....	43
Request Syntax .....	43
URI Request Parameters .....	43
Request Body .....	43

Response Syntax .....	43
Response Elements .....	44
Errors .....	47
See Also .....	49
<b>DescribeApplicationInstanceDetails .....</b>	<b>50</b>
Request Syntax .....	50
URI Request Parameters .....	50
Request Body .....	50
Response Syntax .....	50
Response Elements .....	51
Errors .....	52
See Also .....	54
<b>DescribeDevice .....</b>	<b>55</b>
Request Syntax .....	55
URI Request Parameters .....	55
Request Body .....	55
Response Syntax .....	55
Response Elements .....	57
Errors .....	61
See Also .....	62
<b>DescribeDeviceJob .....</b>	<b>63</b>
Request Syntax .....	63
URI Request Parameters .....	63
Request Body .....	63
Response Syntax .....	63
Response Elements .....	64
Errors .....	66
See Also .....	67
<b>DescribeNode .....</b>	<b>69</b>
Request Syntax .....	69
URI Request Parameters .....	69
Request Body .....	69
Response Syntax .....	70
Response Elements .....	70
Errors .....	73
See Also .....	75

DescribeNodeFromTemplateJob .....	76
Request Syntax .....	76
URI Request Parameters .....	76
Request Body .....	76
Response Syntax .....	76
Response Elements .....	77
Errors .....	79
See Also .....	81
DescribePackage .....	82
Request Syntax .....	82
URI Request Parameters .....	82
Request Body .....	82
Response Syntax .....	82
Response Elements .....	83
Errors .....	85
See Also .....	86
DescribePackageImportJob .....	88
Request Syntax .....	88
URI Request Parameters .....	88
Request Body .....	88
Response Syntax .....	88
Response Elements .....	90
Errors .....	91
See Also .....	93
DescribePackageVersion .....	94
Request Syntax .....	94
URI Request Parameters .....	94
Request Body .....	95
Response Syntax .....	95
Response Elements .....	95
Errors .....	97
See Also .....	99
ListApplicationInstanceDependencies .....	100
Request Syntax .....	100
URI Request Parameters .....	100
Request Body .....	101

Response Syntax .....	101
Response Elements .....	101
Errors .....	102
See Also .....	102
ListApplicationInstanceNodeInstances .....	103
Request Syntax .....	103
URI Request Parameters .....	103
Request Body .....	104
Response Syntax .....	104
Response Elements .....	104
Errors .....	105
See Also .....	105
ListApplicationInstances .....	107
Request Syntax .....	107
URI Request Parameters .....	107
Request Body .....	108
Response Syntax .....	108
Response Elements .....	109
Errors .....	109
See Also .....	110
ListDevices .....	111
Request Syntax .....	111
URI Request Parameters .....	111
Request Body .....	112
Response Syntax .....	112
Response Elements .....	113
Errors .....	113
See Also .....	115
ListDevicesJobs .....	116
Request Syntax .....	116
URI Request Parameters .....	116
Request Body .....	117
Response Syntax .....	117
Response Elements .....	117
Errors .....	118
See Also .....	119

ListNodeFromTemplateJobs .....	121
Request Syntax .....	121
URI Request Parameters .....	121
Request Body .....	121
Response Syntax .....	121
Response Elements .....	122
Errors .....	122
See Also .....	124
ListNodes .....	125
Request Syntax .....	125
URI Request Parameters .....	125
Request Body .....	126
Response Syntax .....	126
Response Elements .....	127
Errors .....	127
See Also .....	129
ListPackageImportJobs .....	130
Request Syntax .....	130
URI Request Parameters .....	130
Request Body .....	130
Response Syntax .....	130
Response Elements .....	131
Errors .....	131
See Also .....	133
ListPackages .....	134
Request Syntax .....	134
URI Request Parameters .....	134
Request Body .....	134
Response Syntax .....	134
Response Elements .....	135
Errors .....	135
See Also .....	137
ListTagsForResource .....	138
Request Syntax .....	138
URI Request Parameters .....	138
Request Body .....	138

Response Syntax .....	138
Response Elements .....	139
Errors .....	139
See Also .....	140
ProvisionDevice .....	142
Request Syntax .....	142
URI Request Parameters .....	143
Request Body .....	143
Response Syntax .....	144
Response Elements .....	144
Errors .....	145
See Also .....	147
RegisterPackageVersion .....	149
Request Syntax .....	149
URI Request Parameters .....	149
Request Body .....	150
Response Syntax .....	150
Response Elements .....	150
Errors .....	151
See Also .....	152
RemoveApplicationInstance .....	153
Request Syntax .....	153
URI Request Parameters .....	153
Request Body .....	153
Response Syntax .....	153
Response Elements .....	153
Errors .....	154
See Also .....	155
SignalApplicationInstanceNodeInstances .....	157
Request Syntax .....	157
URI Request Parameters .....	157
Request Body .....	158
Response Syntax .....	158
Response Elements .....	158
Errors .....	158
See Also .....	160

TagResource .....	161
Request Syntax .....	161
URI Request Parameters .....	161
Request Body .....	161
Response Syntax .....	162
Response Elements .....	162
Errors .....	162
See Also .....	163
UntagResource .....	165
Request Syntax .....	165
URI Request Parameters .....	165
Request Body .....	166
Response Syntax .....	166
Response Elements .....	166
Errors .....	166
See Also .....	167
UpdateDeviceMetadata .....	168
Request Syntax .....	168
URI Request Parameters .....	168
Request Body .....	168
Response Syntax .....	169
Response Elements .....	169
Errors .....	169
See Also .....	171
<b>Data Types .....</b>	<b>172</b>
AlternateSoftwareMetadata .....	174
Contents .....	174
See Also .....	174
ApplicationInstance .....	175
Contents .....	175
See Also .....	178
ConflictExceptionErrorArgument .....	179
Contents .....	179
See Also .....	179
Device .....	180
Contents .....	180

See Also .....	183
DeviceJob .....	184
Contents .....	184
See Also .....	185
DeviceJobConfig .....	186
Contents .....	186
See Also .....	186
EthernetPayload .....	187
Contents .....	187
See Also .....	187
EthernetStatus .....	188
Contents .....	188
See Also .....	189
Job .....	190
Contents .....	190
See Also .....	190
JobResourceTags .....	191
Contents .....	191
See Also .....	191
LatestDeviceJob .....	193
Contents .....	193
See Also .....	193
ManifestOverridesPayload .....	195
Contents .....	195
See Also .....	195
ManifestPayload .....	196
Contents .....	196
See Also .....	196
NetworkPayload .....	197
Contents .....	197
See Also .....	197
NetworkStatus .....	198
Contents .....	198
See Also .....	198
Node .....	200
Contents .....	200

---

See Also .....	202
NodeFromTemplateJob .....	204
Contents .....	204
See Also .....	205
NodeInputPort .....	206
Contents .....	206
See Also .....	207
NodeInstance .....	208
Contents .....	208
See Also .....	209
NodeInterface .....	211
Contents .....	211
See Also .....	211
NodeOutputPort .....	212
Contents .....	212
See Also .....	212
NodeSignal .....	214
Contents .....	214
See Also .....	214
NtpPayload .....	215
Contents .....	215
See Also .....	215
NtpStatus .....	216
Contents .....	216
See Also .....	217
OTAJobConfig .....	218
Contents .....	218
See Also .....	218
OutPutS3Location .....	219
Contents .....	219
See Also .....	219
PackagelImportJob .....	220
Contents .....	220
See Also .....	221
PackagelImportJobInputConfig .....	222
Contents .....	222

See Also .....	222
PackageImportJobOutput .....	223
Contents .....	223
See Also .....	224
PackageImportJobOutputConfig .....	225
Contents .....	225
See Also .....	225
PackageListItem .....	226
Contents .....	226
See Also .....	227
PackageObject .....	228
Contents .....	228
See Also .....	229
PackageVersionInputConfig .....	230
Contents .....	230
See Also .....	230
PackageVersionOutputConfig .....	231
Contents .....	231
See Also .....	231
ReportedRuntimeContextState .....	233
Contents .....	233
See Also .....	234
S3Location .....	235
Contents .....	235
See Also .....	236
StaticIpConnectionInfo .....	237
Contents .....	237
See Also .....	238
StorageLocation .....	239
Contents .....	239
See Also .....	240
ValidationExceptionErrorArgument .....	241
Contents .....	241
See Also .....	241
ValidationExceptionField .....	242
Contents .....	242

---

See Also .....	242
<b>Common Parameters .....</b>	<b>243</b>
<b>Common Errors .....</b>	<b>246</b>

# 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 March 11, 2026.

# Actions

The following actions are supported:

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

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

# CreateApplicationInstance

## 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 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.

## **RetryAfterSeconds**

The number of seconds a client should wait before retrying the call.

HTTP Status Code: 500

## **ServiceQuotaExceededException**

The request would cause a limit to be exceeded.

### **QuotaCode**

The name of the limit.

### **ResourceId**

The target resource's ID.

### **ResourceType**

The target resource's type.

### **ServiceCode**

The name of the service.

HTTP Status Code: 402

## **ValidationException**

The request contains an invalid parameter value.

### **ErrorArguments**

A list of attributes that led to the exception and their values.

### **ErrorId**

A unique ID for the error.

### **Fields**

A list of request parameters that failed validation.

### **Reason**

The reason that validation failed.

HTTP Status Code: 400

## See Also

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

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

# CreateJobForDevices

## Important

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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.

#### **ErrorArguments**

A list of attributes that led to the exception and their values.

#### **ErrorId**

A unique ID for the error.

#### **ResourceId**

The resource's ID.

#### **ResourceType**

The resource's type.

HTTP Status Code: 409

### **InternalServerError**

An internal error occurred.

#### **RetryAfterSeconds**

The number of seconds a client should wait before retrying the call.

HTTP Status Code: 500

### **ResourceNotFoundException**

The target resource was not found.

#### **ResourceId**

The resource's ID.

#### **ResourceType**

The resource's type.

HTTP Status Code: 404

### **ValidationException**

The request contains an invalid parameter value.

#### **ErrorArguments**

A list of attributes that led to the exception and their values.

#### **ErrorId**

A unique ID for the error.

#### **Fields**

A list of request parameters that failed validation.

#### **Reason**

The reason that validation failed.

HTTP Status Code: 400

## **See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)

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

# CreateNodeFromTemplateJob

## Important

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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.

#### **ErrorArguments**

A list of attributes that led to the exception and their values.

#### **ErrorId**

A unique ID for the error.

#### **ResourceId**

The resource's ID.

## ResourceType

The resource's type.

HTTP Status Code: 409

## InternalServerError

An internal error occurred.

### RetryAfterSeconds

The number of seconds a client should wait before retrying the call.

HTTP Status Code: 500

## ValidationException

The request contains an invalid parameter value.

### ErrorArguments

A list of attributes that led to the exception and their values.

### ErrorId

A unique ID for the error.

### Fields

A list of request parameters that failed validation.

### Reason

The reason that validation failed.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
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# 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.

## PackageId

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.

#### **ErrorArguments**

A list of attributes that led to the exception and their values.

#### **ErrorId**

A unique ID for the error.

**ResourceId**

The resource's ID.

**ResourceType**

The resource's type.

HTTP Status Code: 409

**InternalServerError**

An internal error occurred.

**RetryAfterSeconds**

The number of seconds a client should wait before retrying the call.

HTTP Status Code: 500

**ValidationException**

The request contains an invalid parameter value.

**ErrorArguments**

A list of attributes that led to the exception and their values.

**ErrorId**

A unique ID for the error.

**Fields**

A list of request parameters that failed validation.

**Reason**

The reason that validation failed.

HTTP Status Code: 400

**See Also**

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

- [AWS Command Line Interface V2](#)

- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# CreatePackageImportJob

## 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](#).

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.

### **ErrorArguments**

A list of attributes that led to the exception and their values.

### **ErrorId**

A unique ID for the error.

### **ResourceId**

The resource's ID.

### **ResourceType**

The resource's type.

HTTP Status Code: 409

## **InternalServerError**

An internal error occurred.

### **RetryAfterSeconds**

The number of seconds a client should wait before retrying the call.

HTTP Status Code: 500

## **ValidationException**

The request contains an invalid parameter value.

### **ErrorArguments**

A list of attributes that led to the exception and their values.

### **ErrorId**

A unique ID for the error.

## Fields

A list of request parameters that failed validation.

## Reason

The reason that validation failed.

HTTP Status Code: 400

## See Also

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

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

# DeleteDevice

## 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 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.

#### **ErrorArguments**

A list of attributes that led to the exception and their values.

#### **ErrorId**

A unique ID for the error.

#### **ResourceId**

The resource's ID.

**ResourceType**

The resource's type.

HTTP Status Code: 409

**InternalServerError**

An internal error occurred.

**RetryAfterSeconds**

The number of seconds a client should wait before retrying the call.

HTTP Status Code: 500

**ResourceNotFoundException**

The target resource was not found.

**ResourceId**

The resource's ID.

**ResourceType**

The resource's type.

HTTP Status Code: 404

**ValidationException**

The request contains an invalid parameter value.

**ErrorArguments**

A list of attributes that led to the exception and their values.

**ErrorId**

A unique ID for the error.

**Fields**

A list of request parameters that failed validation.

**Reason**

The reason that validation failed.

HTTP Status Code: 400

## See Also

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

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

# 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.

#### ErrorArguments

A list of attributes that led to the exception and their values.

#### ErrorId

A unique ID for the error.

#### ResourceId

The resource's ID.

#### ResourceType

The resource's type.

HTTP Status Code: 409

### InternalServerError

An internal error occurred.

### **RetryAfterSeconds**

The number of seconds a client should wait before retrying the call.

HTTP Status Code: 500

### **ResourceNotFoundException**

The target resource was not found.

#### **ResourceId**

The resource's ID.

#### **ResourceType**

The resource's type.

HTTP Status Code: 404

### **ValidationException**

The request contains an invalid parameter value.

#### **ErrorArguments**

A list of attributes that led to the exception and their values.

#### **ErrorId**

A unique ID for the error.

#### **Fields**

A list of request parameters that failed validation.

#### **Reason**

The reason that validation failed.

HTTP Status Code: 400

## **See Also**

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

- [AWS Command Line Interface V2](#)

- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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.

#### **ErrorArguments**

A list of attributes that led to the exception and their values.

#### **ErrorId**

A unique ID for the error.

#### **ResourceId**

The resource's ID.

#### **ResourceType**

The resource's type.

HTTP Status Code: 409

### **InternalServerError**

An internal error occurred.

#### **RetryAfterSeconds**

The number of seconds a client should wait before retrying the call.

HTTP Status Code: 500

### **ResourceNotFoundException**

The target resource was not found.

#### **ResourceId**

The resource's ID.

#### **ResourceType**

The resource's type.

HTTP Status Code: 404

### **ValidationException**

The request contains an invalid parameter value.

## ErrorArguments

A list of attributes that led to the exception and their values.

## ErrorId

A unique ID for the error.

## Fields

A list of request parameters that failed validation.

## Reason

The reason that validation failed.

HTTP Status Code: 400

## See Also

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

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

# 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.

**ErrorArguments**

A list of attributes that led to the exception and their values.

**ErrorId**

A unique ID for the error.

**ResourceId**

The resource's ID.

**ResourceType**

The resource's type.

HTTP Status Code: 409

**InternalServerErrorException**

An internal error occurred.

**RetryAfterSeconds**

The number of seconds a client should wait before retrying the call.

HTTP Status Code: 500

**ResourceNotFoundException**

The target resource was not found.

**ResourceId**

The resource's ID.

**ResourceType**

The resource's type.

HTTP Status Code: 404

**ValidationException**

The request contains an invalid parameter value.

**ErrorArguments**

A list of attributes that led to the exception and their values.

**ErrorId**

A unique ID for the error.

**Fields**

A list of request parameters that failed validation.

**Reason**

The reason that validation failed.

HTTP Status Code: 400

**See Also**

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

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

# 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.

### **ErrorArguments**

A list of attributes that led to the exception and their values.

### **ErrorId**

A unique ID for the error.

### **ResourceId**

The resource's ID.

### **ResourceType**

The resource's type.

HTTP Status Code: 409

## **InternalServerError**

An internal error occurred.

### **RetryAfterSeconds**

The number of seconds a client should wait before retrying the call.

HTTP Status Code: 500

## **ResourceNotFoundException**

The target resource was not found.

### **ResourceId**

The resource's ID.

### **ResourceType**

The resource's type.

HTTP Status Code: 404

## ValidationException

The request contains an invalid parameter value.

### ErrorArguments

A list of attributes that led to the exception and their values.

### ErrorId

A unique ID for the error.

### Fields

A list of request parameters that failed validation.

### Reason

The reason that validation failed.

HTTP Status Code: 400

## See Also

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

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

# 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.

### **RetryAfterSeconds**

The number of seconds a client should wait before retrying the call.

HTTP Status Code: 500

### **ResourceNotFoundException**

The target resource was not found.

### **ResourceId**

The resource's ID.

### **ResourceType**

The resource's type.

HTTP Status Code: 404

## ValidationException

The request contains an invalid parameter value.

### ErrorArguments

A list of attributes that led to the exception and their values.

### ErrorId

A unique ID for the error.

### Fields

A list of request parameters that failed validation.

### Reason

The reason that validation failed.

HTTP Status Code: 400

## See Also

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

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

# 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.

#### ErrorArguments

A list of attributes that led to the exception and their values.

#### ErrorId

A unique ID for the error.

#### ResourceId

The resource's ID.

#### ResourceType

The resource's type.

HTTP Status Code: 409

### InternalServerError

An internal error occurred.

#### RetryAfterSeconds

The number of seconds a client should wait before retrying the call.

HTTP Status Code: 500

### ResourceNotFoundException

The target resource was not found.

**ResourceId**

The resource's ID.

**ResourceType**

The resource's type.

HTTP Status Code: 404

**ValidationException**

The request contains an invalid parameter value.

**ErrorArguments**

A list of attributes that led to the exception and their values.

**ErrorId**

A unique ID for the error.

**Fields**

A list of request parameters that failed validation.

**Reason**

The reason that validation failed.

HTTP Status Code: 400

**See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

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

# 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.

### PackageId

The node's package ID.

Type: String

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

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

## 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.

**ErrorArguments**

A list of attributes that led to the exception and their values.

**ErrorId**

A unique ID for the error.

**ResourceId**

The resource's ID.

**ResourceType**

The resource's type.

HTTP Status Code: 409

**InternalServerErrorException**

An internal error occurred.

**RetryAfterSeconds**

The number of seconds a client should wait before retrying the call.

HTTP Status Code: 500

**ResourceNotFoundException**

The target resource was not found.

**ResourceId**

The resource's ID.

**ResourceType**

The resource's type.

HTTP Status Code: 404

**ValidationException**

The request contains an invalid parameter value.

**ErrorArguments**

A list of attributes that led to the exception and their values.

**ErrorId**

A unique ID for the error.

**Fields**

A list of request parameters that failed validation.

**Reason**

The reason that validation failed.

HTTP Status Code: 400

**See Also**

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

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

# 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.

### **ErrorArguments**

A list of attributes that led to the exception and their values.

### **ErrorId**

A unique ID for the error.

### **ResourceId**

The resource's ID.

### **ResourceType**

The resource's type.

HTTP Status Code: 409

## **InternalServerError**

An internal error occurred.

### **RetryAfterSeconds**

The number of seconds a client should wait before retrying the call.

HTTP Status Code: 500

## **ValidationException**

The request contains an invalid parameter value.

### **ErrorArguments**

A list of attributes that led to the exception and their values.

### **ErrorId**

A unique ID for the error.

## Fields

A list of request parameters that failed validation.

## Reason

The reason that validation failed.

HTTP Status Code: 400

## See Also

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

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

# 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.

#### ErrorArguments

A list of attributes that led to the exception and their values.

#### ErrorId

A unique ID for the error.

#### ResourceId

The resource's ID.

#### ResourceType

The resource's type.

HTTP Status Code: 409

### InternalServerError

An internal error occurred.

#### RetryAfterSeconds

The number of seconds a client should wait before retrying the call.

HTTP Status Code: 500

## ResourceNotFoundException

The target resource was not found.

### ResourceId

The resource's ID.

### ResourceType

The resource's type.

HTTP Status Code: 404

## ValidationException

The request contains an invalid parameter value.

### ErrorArguments

A list of attributes that led to the exception and their values.

### ErrorId

A unique ID for the error.

### Fields

A list of request parameters that failed validation.

### Reason

The reason that validation failed.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

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

# 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.

### **ErrorArguments**

A list of attributes that led to the exception and their values.

### **ErrorId**

A unique ID for the error.

### **ResourceId**

The resource's ID.

### **ResourceType**

The resource's type.

HTTP Status Code: 409

## **InternalServerError**

An internal error occurred.

### **RetryAfterSeconds**

The number of seconds a client should wait before retrying the call.

HTTP Status Code: 500

## **ValidationException**

The request contains an invalid parameter value.

### **ErrorArguments**

A list of attributes that led to the exception and their values.

### **ErrorId**

A unique ID for the error.

### **Fields**

A list of request parameters that failed validation.

### **Reason**

The reason that validation failed.

HTTP Status Code: 400

## See Also

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

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

# 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: ( $[\text{0-9}]^+$ )\. $[\text{0-9}]^+$

Required: Yes

### PatchVersion

The version's patch version.

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

Pattern:  $[\text{a-z0-9}]^+$

## 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.

#### **ErrorArguments**

A list of attributes that led to the exception and their values.

#### **ErrorId**

A unique ID for the error.

#### **ResourceId**

The resource's ID.

#### **ResourceType**

The resource's type.

HTTP Status Code: 409

### **InternalServerError**

An internal error occurred.

#### **RetryAfterSeconds**

The number of seconds a client should wait before retrying the call.

HTTP Status Code: 500

### **ResourceNotFoundException**

The target resource was not found.

#### **ResourceId**

The resource's ID.

#### **ResourceType**

The resource's type.

HTTP Status Code: 404

### **ValidationException**

The request contains an invalid parameter value.

## ErrorArguments

A list of attributes that led to the exception and their values.

## ErrorId

A unique ID for the error.

## Fields

A list of request parameters that failed validation.

## Reason

The reason that validation failed.

HTTP Status Code: 400

## See Also

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

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

# 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

### InternalServerError

An internal error occurred.

### RetryAfterSeconds

The number of seconds a client should wait before retrying the call.

HTTP Status Code: 500

## See Also

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

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

# 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.

### RetryAfterSeconds

The number of seconds a client should wait before retrying the call.

HTTP Status Code: 500

## See Also

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

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

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

# 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.

### **RetryAfterSeconds**

The number of seconds a client should wait before retrying the call.

HTTP Status Code: 500

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
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- [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",
      "CreatedTime": number,
      "CurrentSoftware": "string",
      "Description": "string",
      "DeviceAggregatedStatus": "string",
      "DeviceId": "string",
      "LastUpdatedTime": 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.

**ErrorArguments**

A list of attributes that led to the exception and their values.

**ErrorId**

A unique ID for the error.

**ResourceId**

The resource's ID.

**ResourceType**

The resource's type.

HTTP Status Code: 409

**InternalServerError**

An internal error occurred.

**RetryAfterSeconds**

The number of seconds a client should wait before retrying the call.

HTTP Status Code: 500

**ValidationException**

The request contains an invalid parameter value.

**ErrorArguments**

A list of attributes that led to the exception and their values.

**ErrorId**

A unique ID for the error.

**Fields**

A list of request parameters that failed validation.

**Reason**

The reason that validation failed.

HTTP Status Code: 400

## See Also

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

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

# 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.

#### **ErrorArguments**

A list of attributes that led to the exception and their values.

#### **ErrorId**

A unique ID for the error.

#### **ResourceId**

The resource's ID.

#### **ResourceType**

The resource's type.

HTTP Status Code: 409

### **InternalServerError**

An internal error occurred.

#### **RetryAfterSeconds**

The number of seconds a client should wait before retrying the call.

HTTP Status Code: 500

### **ResourceNotFoundException**

The target resource was not found.

#### **ResourceId**

The resource's ID.

## ResourceType

The resource's type.

HTTP Status Code: 404

## ValidationException

The request contains an invalid parameter value.

### ErrorArguments

A list of attributes that led to the exception and their values.

### ErrorId

A unique ID for the error.

### Fields

A list of request parameters that failed validation.

### Reason

The reason that validation failed.

HTTP Status Code: 400

## See Also

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

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

- [AWS SDK for Ruby V3](#)

# 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.

#### **ErrorArguments**

A list of attributes that led to the exception and their values.

#### **ErrorId**

A unique ID for the error.

#### **ResourceId**

The resource's ID.

#### **ResourceType**

The resource's type.

HTTP Status Code: 409

### **InternalServerError**

An internal error occurred.

#### **RetryAfterSeconds**

The number of seconds a client should wait before retrying the call.

HTTP Status Code: 500

### **ValidationException**

The request contains an invalid parameter value.

#### **ErrorArguments**

A list of attributes that led to the exception and their values.

#### **ErrorId**

A unique ID for the error.

#### **Fields**

A list of request parameters that failed validation.

## Reason

The reason that validation failed.

HTTP Status Code: 400

## See Also

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

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

# 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.

### **ErrorArguments**

A list of attributes that led to the exception and their values.

### **ErrorId**

A unique ID for the error.

### **ResourceId**

The resource's ID.

### **ResourceType**

The resource's type.

HTTP Status Code: 409

## **InternalServerError**

An internal error occurred.

### **RetryAfterSeconds**

The number of seconds a client should wait before retrying the call.

HTTP Status Code: 500

## **ValidationException**

The request contains an invalid parameter value.

### **ErrorArguments**

A list of attributes that led to the exception and their values.

### **ErrorId**

A unique ID for the error.

### **Fields**

A list of request parameters that failed validation.

### **Reason**

The reason that validation failed.

HTTP Status Code: 400

## See Also

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

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

# 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.

#### **ErrorArguments**

A list of attributes that led to the exception and their values.

#### **ErrorId**

A unique ID for the error.

#### **ResourceId**

The resource's ID.

#### **ResourceType**

The resource's type.

HTTP Status Code: 409

### **InternalServerError**

An internal error occurred.

#### **RetryAfterSeconds**

The number of seconds a client should wait before retrying the call.

HTTP Status Code: 500

### **ValidationException**

The request contains an invalid parameter value.

#### **ErrorArguments**

A list of attributes that led to the exception and their values.

#### **ErrorId**

A unique ID for the error.

#### **Fields**

A list of request parameters that failed validation.

## Reason

The reason that validation failed.

HTTP Status Code: 400

## See Also

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

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

# 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.

### **ErrorArguments**

A list of attributes that led to the exception and their values.

### **ErrorId**

A unique ID for the error.

### **ResourceId**

The resource's ID.

### **ResourceType**

The resource's type.

HTTP Status Code: 409

## **InternalServerError**

An internal error occurred.

### **RetryAfterSeconds**

The number of seconds a client should wait before retrying the call.

HTTP Status Code: 500

## **ResourceNotFoundException**

The target resource was not found.

### **ResourceId**

The resource's ID.

### **ResourceType**

The resource's type.

HTTP Status Code: 404

## ValidationException

The request contains an invalid parameter value.

### ErrorArguments

A list of attributes that led to the exception and their values.

### ErrorId

A unique ID for the error.

### Fields

A list of request parameters that failed validation.

### Reason

The reason that validation failed.

HTTP Status Code: 400

## See Also

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

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

# 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](#).

### **InternalServerError**

An internal error occurred.

#### **RetryAfterSeconds**

The number of seconds a client should wait before retrying the call.

HTTP Status Code: 500

### **ResourceNotFoundException**

The target resource was not found.

**ResourceId**

The resource's ID.

**ResourceType**

The resource's type.

HTTP Status Code: 404

**ValidationException**

The request contains an invalid parameter value.

**ErrorArguments**

A list of attributes that led to the exception and their values.

**ErrorId**

A unique ID for the error.

**Fields**

A list of request parameters that failed validation.

**Reason**

The reason that validation failed.

HTTP Status Code: 400

**See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

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

# 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.

#### **ErrorArguments**

A list of attributes that led to the exception and their values.

#### **ErrorId**

A unique ID for the error.

#### **ResourceId**

The resource's ID.

#### **ResourceType**

The resource's type.

HTTP Status Code: 409

### **InternalServerErrorException**

An internal error occurred.

#### **RetryAfterSeconds**

The number of seconds a client should wait before retrying the call.

HTTP Status Code: 500

### **ServiceQuotaExceededException**

The request would cause a limit to be exceeded.

#### **QuotaCode**

The name of the limit.

#### **ResourceId**

The target resource's ID.

#### **ResourceType**

The target resource's type.

**ServiceCode**

The name of the service.

HTTP Status Code: 402

**ValidationException**

The request contains an invalid parameter value.

**ErrorArguments**

A list of attributes that led to the exception and their values.

**ErrorId**

A unique ID for the error.

**Fields**

A list of request parameters that failed validation.

**Reason**

The reason that validation failed.

HTTP Status Code: 400

**See Also**

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

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

- [AWS SDK for Ruby V3](#)

# 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.

#### ErrorArguments

A list of attributes that led to the exception and their values.

#### ErrorId

A unique ID for the error.

#### ResourceId

The resource's ID.

#### ResourceType

The resource's type.

HTTP Status Code: 409

### InternalServerError

An internal error occurred.

#### RetryAfterSeconds

The number of seconds a client should wait before retrying the call.

HTTP Status Code: 500

### ValidationException

The request contains an invalid parameter value.

#### ErrorArguments

A list of attributes that led to the exception and their values.

**ErrorId**

A unique ID for the error.

**Fields**

A list of request parameters that failed validation.

**Reason**

The reason that validation failed.

HTTP Status Code: 400

**See Also**

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

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

# 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.

#### **ErrorArguments**

A list of attributes that led to the exception and their values.

#### **ErrorId**

A unique ID for the error.

#### **ResourceId**

The resource's ID.

#### **ResourceType**

The resource's type.

HTTP Status Code: 409

### **InternalServerError**

An internal error occurred.

#### **RetryAfterSeconds**

The number of seconds a client should wait before retrying the call.

HTTP Status Code: 500

### **ResourceNotFoundException**

The target resource was not found.

#### **ResourceId**

The resource's ID.

## ResourceType

The resource's type.

HTTP Status Code: 404

## ValidationException

The request contains an invalid parameter value.

### ErrorArguments

A list of attributes that led to the exception and their values.

### ErrorId

A unique ID for the error.

### Fields

A list of request parameters that failed validation.

### Reason

The reason that validation failed.

HTTP Status Code: 400

## See Also

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

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

- [AWS SDK for Ruby V3](#)

# 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.

### 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 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.

### **RetryAfterSeconds**

The number of seconds a client should wait before retrying the call.

HTTP Status Code: 500

## **ServiceQuotaExceededException**

The request would cause a limit to be exceeded.

### **QuotaCode**

The name of the limit.

### **ResourceId**

The target resource's ID.

### **ResourceType**

The target resource's type.

### **ServiceCode**

The name of the service.

HTTP Status Code: 402

## **ValidationException**

The request contains an invalid parameter value.

### **ErrorArguments**

A list of attributes that led to the exception and their values.

### **ErrorId**

A unique ID for the error.

## Fields

A list of request parameters that failed validation.

## Reason

The reason that validation failed.

HTTP Status Code: 400

## See Also

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

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

# 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.

#### RetryAfterSeconds

The number of seconds a client should wait before retrying the call.

HTTP Status Code: 500

### ResourceNotFoundException

The target resource was not found.

**ResourceId**

The resource's ID.

**ResourceType**

The resource's type.

HTTP Status Code: 404

**ValidationException**

The request contains an invalid parameter value.

**ErrorArguments**

A list of attributes that led to the exception and their values.

**ErrorId**

A unique ID for the error.

**Fields**

A list of request parameters that failed validation.

**Reason**

The reason that validation failed.

HTTP Status Code: 400

**See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

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

# UntagResource

## 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.

#### RetryAfterSeconds

The number of seconds a client should wait before retrying the call.

HTTP Status Code: 500

### ResourceNotFoundException

The target resource was not found.

#### ResourceId

The resource's ID.

#### ResourceType

The resource's type.

HTTP Status Code: 404

### ValidationException

The request contains an invalid parameter value.

## ErrorArguments

A list of attributes that led to the exception and their values.

## ErrorId

A unique ID for the error.

## Fields

A list of request parameters that failed validation.

## Reason

The reason that validation failed.

HTTP Status Code: 400

## See Also

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

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

# 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.

#### **ErrorArguments**

A list of attributes that led to the exception and their values.

#### **ErrorId**

A unique ID for the error.

#### **ResourceId**

The resource's ID.

#### **ResourceType**

The resource's type.

HTTP Status Code: 409

### **InternalServerError**

An internal error occurred.

#### **RetryAfterSeconds**

The number of seconds a client should wait before retrying the call.

HTTP Status Code: 500

### **ResourceNotFoundException**

The target resource was not found.

#### **ResourceId**

The resource's ID.

#### **ResourceType**

The resource's type.

HTTP Status Code: 404

### **ValidationException**

The request contains an invalid parameter value.

## ErrorArguments

A list of attributes that led to the exception and their values.

## ErrorId

A unique ID for the error.

## Fields

A list of request parameters that failed validation.

## Reason

The reason that validation failed.

HTTP Status Code: 400

## See Also

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

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

# Data Types

The 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

## LastUpdatedTime

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

### Deviceld

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

### LastUpdatedTime

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\-\_\✓]+`

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