
AWS Outposts

API Reference

API Version 2019-12-03



AWS Outposts: API Reference

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Welcome

AWS Outposts is a fully-managed service that extends AWS infrastructure, APIs, and tools to customer premises. By providing local access to AWS-managed infrastructure, AWS Outposts enables customers to build and run applications on premises using the same programming interfaces as in AWS Regions, while using local compute and storage resources for lower latency and local data processing needs.

This document was last published on October 21, 2020.

Actions

The following actions are supported:

- [CreateOutpost](#) (p. 3)
- [DeleteOutpost](#) (p. 6)
- [DeleteSite](#) (p. 8)
- [GetOutpost](#) (p. 10)
- [GetOutpostInstanceTypes](#) (p. 12)
- [ListOutposts](#) (p. 15)
- [ListSites](#) (p. 17)

CreateOutpost

Creates an Outpost.

Request Syntax

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

{
  "AvailabilityZone": "string",
  "AvailabilityZoneId": "string",
  "Description": "string",
  "Name": "string",
  "SiteId": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

AvailabilityZone (p. 3)

The Availability Zone.

You must specify `AvailabilityZone` or `AvailabilityZoneId`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Pattern: `[a-z\d-]+`

Required: No

AvailabilityZoneId (p. 3)

The ID of the Availability Zone.

You must specify `AvailabilityZone` or `AvailabilityZoneId`.

Type: String

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

Pattern: `[a-z][0-9]+-az[0-9]+`

Required: No

Description (p. 3)

The Outpost description.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Pattern: `^[\S]+$`

Required: No

Name (p. 3)

The name of the Outpost.

Type: String

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

Pattern: `^[\S]+$`

Required: No

SiteId (p. 3)

The ID of the site.

Type: String

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

Pattern: `os-[a-f0-9]{17}`

Required: Yes

Response Syntax

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

{
  "Outpost": {
    "AvailabilityZone": "string",
    "AvailabilityZoneId": "string",
    "Description": "string",
    "LifecycleStatus": "string",
    "Name": "string",
    "OutpostArn": "string",
    "OutpostId": "string",
    "OwnerId": "string",
    "SiteId": "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.

Outpost (p. 4)

Information about an Outpost.

Type: [Outpost \(p. 21\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 27\)](#).

AccessDeniedException

You do not have permission to perform this operation.

HTTP Status Code: 403

InternalServerErrorException

An internal error has occurred.

HTTP Status Code: 500

NotFoundException

The specified request is not valid.

HTTP Status Code: 404

ServiceQuotaExceededException

You have exceeded a service quota.

HTTP Status Code: 402

ValidationException

A parameter is not valid.

HTTP Status Code: 400

See Also

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

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

DeleteOutpost

Deletes the Outpost.

Request Syntax

```
DELETE /outposts/OutpostId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

OutpostId (p. 6)

The ID of the Outpost.

Length Constraints: Minimum length of 1. Maximum length of 180.

Pattern: `^(arn:aws([a-z-]+)? :outposts:[a-z\d-]+ : \d{12} :outpost/)?op-[a-f0-9]{17}$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 27\)](#).

AccessDeniedException

You do not have permission to perform this operation.

HTTP Status Code: 403

InternalServerError

An internal error has occurred.

HTTP Status Code: 500

NotFoundException

The specified request is not valid.

HTTP Status Code: 404

ValidationException

A parameter is not valid.

HTTP Status Code: 400

See Also

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

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

DeleteSite

Deletes the site.

Request Syntax

```
DELETE /sites/SiteId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

SiteId (p. 8)

The ID of the site.

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

Pattern: `os-[a-f0-9]{17}`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 27\)](#).

AccessDeniedException

You do not have permission to perform this operation.

HTTP Status Code: 403

InternalServerErrorException

An internal error has occurred.

HTTP Status Code: 500

NotFoundException

The specified request is not valid.

HTTP Status Code: 404

ValidationException

A parameter is not valid.

HTTP Status Code: 400

See Also

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

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

GetOutpost

Gets information about the specified Outpost.

Request Syntax

```
GET /outposts/OutpostId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

OutpostId (p. 10)

The ID of the Outpost.

Length Constraints: Minimum length of 1. Maximum length of 180.

Pattern: `^(arn:aws([a-z-]+):outposts:[a-z\d-]+\:\d{12}:outpost/)?op-[a-f0-9]{17}$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "Outpost": {
    "AvailabilityZone": "string",
    "AvailabilityZoneId": "string",
    "Description": "string",
    "LifecycleStatus": "string",
    "Name": "string",
    "OutpostArn": "string",
    "OutpostId": "string",
    "OwnerId": "string",
    "SiteId": "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.

Outpost (p. 10)

Information about an Outpost.

Type: [Outpost \(p. 21\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 27\)](#).

AccessDeniedException

You do not have permission to perform this operation.

HTTP Status Code: 403

InternalServerErrorException

An internal error has occurred.

HTTP Status Code: 500

NotFoundException

The specified request is not valid.

HTTP Status Code: 404

ValidationException

A parameter is not valid.

HTTP Status Code: 400

See Also

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

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

GetOutpostInstanceTypes

Lists the instance types for the specified Outpost.

Request Syntax

```
GET /outposts/OutpostId/instanceTypes?MaxResults=MaxResults&NextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

MaxResults (p. 12)

The maximum page size.

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

NextToken (p. 12)

The pagination token.

Length Constraints: Minimum length of 1. Maximum length of 1005.

Pattern: `.*\S.*`

OutpostId (p. 12)

The ID of the Outpost.

Length Constraints: Minimum length of 1. Maximum length of 180.

Pattern: `^(arn:aws([a-z-]+)?outposts:[a-z\d-]+\:\d{12}:outpost/)?op-[a-f0-9]{17}$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
  "InstanceTypes": [
    {
      "InstanceType": "string"
    }
  ],
  "NextToken": "string",
  "OutpostArn": "string",
  "OutpostId": "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.

InstanceTypes (p. 12)

Information about the instance types.

Type: Array of [InstanceTypeItem](#) (p. 20) objects

NextToken (p. 12)

The pagination token.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1005.

Pattern: `.*\S.*`

OutpostArn (p. 12)

The Amazon Resource Name (ARN) of the Outpost.

Type: String

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

Pattern: `^arn:aws([a-z-]+)?:outposts:[a-z\d-]+\:\d{12}:outpost/op-[a-f0-9]{17}$`

OutpostId (p. 12)

The ID of the Outpost.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 180.

Pattern: `^(arn:aws([a-z-]+)?:outposts:[a-z\d-]+\:\d{12}:outpost/)?op-[a-f0-9]{17}$`

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 27).

AccessDeniedException

You do not have permission to perform this operation.

HTTP Status Code: 403

InternalServerError

An internal error has occurred.

HTTP Status Code: 500

NotFoundException

The specified request is not valid.

HTTP Status Code: 404

ValidationException

A parameter is not valid.

HTTP Status Code: 400

See Also

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

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

ListOutposts

List the Outposts for your AWS account.

Request Syntax

```
GET /outposts?MaxResults=MaxResults&NextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

MaxResults (p. 15)

The maximum page size.

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

NextToken (p. 15)

The pagination token.

Length Constraints: Minimum length of 1. Maximum length of 1005.

Pattern: `.*\S.*`

Request Body

The request does not have a request body.

Response Syntax

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

{
  "NextToken": "string",
  "Outposts": [
    {
      "AvailabilityZone": "string",
      "AvailabilityZoneId": "string",
      "Description": "string",
      "LifecycleStatus": "string",
      "Name": "string",
      "OutpostArn": "string",
      "OutpostId": "string",
      "OwnerId": "string",
      "SiteId": "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 (p. 15)

The pagination token.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1005.

Pattern: .*\S.*

Outposts (p. 15)

Information about the Outposts.

Type: Array of [Outpost \(p. 21\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 27\)](#).

AccessDeniedException

You do not have permission to perform this operation.

HTTP Status Code: 403

InternalServerErrorException

An internal error has occurred.

HTTP Status Code: 500

ValidationException

A parameter is not valid.

HTTP Status Code: 400

See Also

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

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

ListSites

Lists the sites for the specified AWS account.

Request Syntax

```
GET /sites?MaxResults=MaxResults&NextToken=NextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

MaxResults (p. 17)

The maximum page size.

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

NextToken (p. 17)

The pagination token.

Length Constraints: Minimum length of 1. Maximum length of 1005.

Pattern: `.*\S.*`

Request Body

The request does not have a request body.

Response Syntax

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

{
  "NextToken": "string",
  "Sites": [
    {
      "AccountId": "string",
      "Description": "string",
      "Name": "string",
      "SiteId": "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 (p. 17)

The pagination token.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1005.

Pattern: .*\\S.*

[Sites \(p. 17\)](#)

Information about the sites.

Type: Array of [Site \(p. 23\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 27\)](#).

AccessDeniedException

You do not have permission to perform this operation.

HTTP Status Code: 403

InternalServerErrorException

An internal error has occurred.

HTTP Status Code: 500

ValidationException

A parameter is not valid.

HTTP Status Code: 400

See Also

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

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

Data Types

The AWS Outposts 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:

- [InstanceTypeItem \(p. 20\)](#)
- [Outpost \(p. 21\)](#)
- [Site \(p. 23\)](#)

InstanceTypeItem

Information about an instance type.

Contents

InstanceType

The instance type.

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

Outpost

Information about an Outpost.

Contents

AvailabilityZone

The Availability Zone.

You must specify `AvailabilityZone` or `AvailabilityZoneId`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Pattern: `[a-z\d-]+`

Required: No

AvailabilityZoneId

The ID of the Availability Zone.

You must specify `AvailabilityZone` or `AvailabilityZoneId`.

Type: String

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

Pattern: `[a-z][0-9]+-az[0-9]+`

Required: No

Description

The Outpost description.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Pattern: `^[\S]+ $`

Required: No

LifeCycleStatus

The life cycle status.

Type: String

Required: No

Name

The name of the Outpost.

Type: String

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

Pattern: `^[\S]+ $`

Required: No

OutpostArn

The Amazon Resource Name (ARN) of the Outpost.

Type: String

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

Pattern: `^arn:aws([a-z-]+)? :outposts:[a-z\d-]+\:\d{12}:outpost/op-[a-f0-9]{17}$`

Required: No

OutpostId

The ID of the Outpost.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 180.

Pattern: `^(arn:aws([a-z-]+)? :outposts:[a-z\d-]+\:\d{12}:outpost/)?op-[a-f0-9]{17}$`

Required: No

OwnerId

The AWS account ID of the Outpost owner.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d{12}`

Required: No

Siteld

The ID of the site.

Type: String

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

Pattern: `os-[a-f0-9]{17}`

Required: No

See Also

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

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

Site

Information about a site.

Contents

AccountId

The ID of the AWS account.

Type: String

Length Constraints: Fixed length of 12.

Required: No

Description

The description of the site.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Pattern: ^[\S]+\$

Required: No

Name

The name of the site.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1000.

Pattern: ^[\S]+\$

Required: No

SiteId

The ID of the site.

Type: String

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

Pattern: os-[a-f0-9]{17}

Required: No

See Also

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

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

- [AWS SDK for Ruby V3](#)

Common Parameters

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

Action

The action to be performed.

Type: string

Required: Yes

Version

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

Type: string

Required: Yes

X-Amz-Algorithm

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

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

Type: string

Valid Values: `AWS4-HMAC-SHA256`

Required: Conditional

X-Amz-Credential

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

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

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

Type: string

Required: Conditional

X-Amz-Date

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

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

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

Type: string

Required: Conditional

X-Amz-Security-Token

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

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

Type: string

Required: Conditional

X-Amz-Signature

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

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

Type: string

Required: Conditional

X-Amz-SignedHeaders

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

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

Type: string

Required: Conditional

Common Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 400

InternalFailure

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

HTTP Status Code: 500

InvalidAction

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

HTTP Status Code: 400

InvalidClientTokenId

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

HTTP Status Code: 403

InvalidParameterCombination

Parameters that must not be used together were used together.

HTTP Status Code: 400

InvalidParameterValue

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

HTTP Status Code: 400

InvalidQueryParameter

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

HTTP Status Code: 400

MalformedQueryString

The query string contains a syntax error.

HTTP Status Code: 404

MissingAction

The request is missing an action or a required parameter.

HTTP Status Code: 400

MissingAuthenticationToken

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

HTTP Status Code: 403

MissingParameter

A required parameter for the specified action is not supplied.

HTTP Status Code: 400

OptInRequired

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

HTTP Status Code: 403

RequestExpired

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

HTTP Status Code: 400

ServiceUnavailable

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

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

ValidationError

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

HTTP Status Code: 400