AWS Service Catalog

Developer Guide

AWS Service Catalog: Developer Guide

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What Is AWS Service Catalog?

AWS Service Catalog allows organizations to create and manage catalogs of IT services that are approved for use on AWS. This documentation provides reference material for the AWS Service Catalog end user API, which is also available as part of the AWS Command Line Interface (AWS CLI).

If you are new to AWS Service Catalog, please refer to the following guides:

- AWS Service Catalog Administrator Guide
- AWS Service Catalog User Guide

To download and use the AWS Service Catalog API and CLI, go to Tools for Amazon Web Services and locate the language of your choice in the **SDKs** section, or the CLI of your choice in the **Command Line Tools** section.

Benefits of Using the AWS Service Catalog API

The AWS Service Catalog API provides programmatic control over all end-user actions as an alternative to using the AWS Management Console. When you use the API you are able to do the following tasks:

- Write your own custom interfaces and apps.
- Obtain fine-grained control of end user product provisioning operations.
- Leverage AWS CloudTrail logging support.

AWS Service Catalog API Overview

The following sections provide an overview of the AWS Service Catalog service API components and how they interact. Refer to the individual API operations to see how each one works.

Topics

AWS Service Catalog API List By Category

The AWS Service Catalog API can be logically divided into the following categories.

Operations by category

Product Discovery

These operations are used mostly to discover or inquire about products and what is needed to launch them. They do not create or modify any product resources.

SearchProducts (p. 27)

Lists all products the user has access to.

The input is a series of optional search filters to specify only products that match certain search terms, and optional sort specification.

The output is a paginated list of `ProductViewSummaries`. A `ProductViewSummary` contains metadata about each product the calling user has access to. If no search filters are specified in the input, the output will be all products to which the calling user has access. The output also contains the `SearchDomain`, which is an object containing the ways that you could further refine the returned list of products using search. For example, a `SearchDomain` could be `{"Owner": {"Steve", 1}, {"Rajiv", 3}}`. This means that if you specified the filter `{"Owner":"Rajiv"}` in a subsequent call to `SearchProducts`, the result would be a list of the three products that have the "`Owner`" field set to "`Rajiv`".

DescribeProduct (p. 9)
Provides detailed information about a single product.

The input is the `ProductView`, which is returned for each product in `SearchProducts`.

The output is metadata about the specified product and a list of `ProvisioningArtifacts` for the specified product. The `ProvisioningArtifacts` are all the ways the specified product can be provisioned. For example, with a product backed by an AWS CloudFormation template, each `ProvisioningArtifact` represents an individual template.

DescribeProductView (p. 11)
Functionally identical to `DescribeProduct`, except that it takes a `ProductViewId` instead of a `ProductView`.

ListLaunchPaths (p. 18)
Lists all of the ways the user has access to a specified product, referred to as *paths* to the product. A user must select one of these paths in order to provision the product. The paths also determine what constraints are put on the product.

The input is the `ProductId`.

The output is a paginated list of path information in the form of `LaunchPathSummaries`. Each `LaunchPathSummary` consists of an `Id`, a `Name` (which corresponds to the name of the user's portfolio), and a list of `ConstraintSummaries` (which corresponds to the list of constraints on that path).

DescribeProvisioningParameters (p. 13)
Retrieves the parameters needed to provision a specified product, and provides additional metadata about what will happen when the product is provisioned.

The input is the `ProductId`, `ProvisioningArtifactId`, and `PathId`.

The output is a list of `ProvisioningArtifactParameters`, a list of `ConstraintSummaries`, and a list of `UsageInstructions`. Each `ProvisioningArtifactParameter` is something the user must specify in order to successfully provision the product (for example, the size of an EC2 instance). The `ConstraintSummaries` contain the list of allowable values and additional metadata about the `ProvisioningArtifactParameters`. For example, a constraint could be the allowable values for the EC2 instance, such as **t1.micro** and **m1.small**, along with a description created by the administrator explaining these values. The `ProvisioningArtifactParameters` are determined by the product and the constraints placed on it by the administrator. The `UsageInstructions` can contain any additional metadata specifically related to the provisioning of the product. For example, the "Version" field of an AWS CloudFormation template.

Provisioning Requests

These operations all perform a request that either creates, modifies, or deletes provisioning for a product.

ProvisionProduct (p. 22)
Requests provisioning for a specified product. To provision a product is to launch the resources needed to bring that product online for actual use. For example, provisioning a product backed by an AWS CloudFormation template means launching an AWS CloudFormation stack and all of the underlying resources that come with it.

The input is the `ProductId`, `ProvisioningArtifactId`, `PathId`, any `ProvisioningArtifactParameters` that the administrator has determined are required for launch, and a user-friendly name to help identify the provisioned product later. You can optionally specify additional provisioning options such as an Amazon Simple Notification Service(Amazon SNS) topic and tags. This is an idempotent API; accordingly, an idempotency token that uniquely identifies the request is a required user input.

The output is a `RecordDetail`, which is the record of a request that contains the original inputs to the request, the current state of the request, a pointer to the provisioned product object that the request is modifying, and a list of any errors that the request may have generated. Use the `DescribeRecord` operation to get updated `RecordDetail` information.

UpdateProvisionedProduct (p. 33)
Updates the configuration of an existing provisioned product. For example, a product backed by AWS CloudFormation gets its underlying AWS CloudFormation stack updated.

The input is either `ProvisionedProductName` or `ProvisionedProductId` (these are mutually exclusive), the details of what's being updated, and an idempotency token.

The output is a `RecordDetail` that tracks the update request in the same way `RecordDetail` is used with `ProvisionProduct`. Use the `DescribeRecord` operation to get updated `RecordDetail` information.

TerminateProvisionedProduct (p. 31)
Requests termination of an existing provisioned product. For example, for a product backed by AWS CloudFormation, this deletes the underlying AWS CloudFormation stack.

The input can be either the provisioned product's `Name` or `Id`, an idempotency token, and an optional `IgnoreErrors` Boolean value. If `IgnoreErrors` is set to **true**, AWS Service Catalog will delete all records of this provisioned product even if it can't delete the underlying resources.

The output is a `RecordDetail` that tracks the terminate request in the same way `RecordDetail` is used with `ProvisionProduct`. Use the `DescribeRecord` operation to get updated `RecordDetail` information.

Provisioned Products Information

Similar to the Discovery category, these operations do not create or modify resources. Instead, they obtain information about provisioned products.

ListRecordHistory (p. 20)
Lists all of the requests performed, even for terminated provisioned products.

The input is an optional list of search filters.

The output is a paginated list of `RecordDetail` objects, sorted in reverse chronological order (latest first).

DescribeRecord (p. 15)
Retrieves up-to-date details of a specific request. Use this operation after the initial request operation if you want to obtain current `RecordDetail` information.

The input is the `RequestId`.

The output is the `RecordDetail` along with a paginated list of `RecordOutputs`. A `RecordOutput` is something that was created as a result of a request. For example, a product that is backed by AWS CloudFormation and creates an Amazon S3 bucket would have a `RecordOutput` containing the Amazon S3 bucket URL.

ScanProvisionedProducts (p. 25)
Obtains a current list of all the provisioned products that are currently not terminated.

The output is a paginated list of `ProvisionedProducts`. A `ProvisionedProduct` consists mainly of an `Id`, `Name`, `ARN` (for resource-based IAM policies), and a `LastRecordId` identifying the most recent request performed on that provisioned product.

AWS Service Catalog API Example Workflow

Note that this is not the only way to use the AWS Service Catalog API, it is just one example workflow.

1. Prior to any API use, the AWS Service Catalog administrator creates some **Portfolios**, **ProductViews**, **Products**, **ProvisioningArtifacts**, **Constraints**, and the relationships between them. She then assigns some AWS Identity and Access Management(IAM) users to the products, giving them access. In this example, this is "step zero" because it must be performed before the API can be used.
2. A non-administrator user comes to the AWS Service Catalog API and wants to know what products he has access to.
3. He calls SearchProducts (p. 27) with no arguments. This returns a list of all products he has access to, as well as a "SearchDomain" that allows him to refine that list further.
4. He continues calling SearchProducts (p. 27), this time with additional search filters, until he sees a product he is interested in.
5. He calls DescribeProductView (p. 11) to find the list of provisioning artifacts for this product. This will determine what he actually provisions.
6. He also calls ListLaunchPaths (p. 18) to find out the list of paths for this product, along with the constraints along each path. This will determine what set of constraints is applied on what he provisions.
7. Having chosen a provisioning artifact and a path, he calls DescribeProvisioningParameters (p. 13). This returns the list of parameters he needs to provide before he can provision a product with the given provisioning artifact and path, along with whatever additional usage instructions the administrator has decided to provide.
8. He now calls ProvisionProduct (p. 22), specifying his chosen product, provisioning artifact, path, and input parameters. The input parameters are a list of key-value pairs where the keys are obtained from the DescribeProvisioningParameters (p. 13) operation and the values are user-provided (for example: `{ParameterKey:"dbpassword", ParameterValue:"mycoolpassword"}`). This starts a workflow to create the specified cloud resources. It also creates a record detail that tracks the `ProvisionProduct` request, and a provisioned product object that represents the set of underlying cloud resources.
9. He then polls DescribeRecord (p. 15) to see when his `RecordDetail.Status` goes from the "IN_PROGRESS" state to a completed state (either "SUCCEEDED" or "ERROR").
10. When the record detail for the request is in a completed state, he calls DescribeRecord (p. 15) once more to find out the outputs, which identify the created cloud resources.
11. He can then call UpdateProvisionedProduct (p. 33) to update the underlying resources in place. Depending on the specific updates requested, this operation may update with no interruption, with some interruption, or replace the provisioned product entirely.
12. Finally, he can call TerminateProvisionedProduct (p. 31) to request termination of the specified provisioned product.

Logging AWS Service Catalog API Calls with AWS CloudTrail

AWS Service Catalog is integrated with CloudTrail, a service that captures all of the AWS Service Catalog API calls and delivers the log files to an Amazon S3 bucket that you specify. CloudTrail captures API calls from the AWS Service Catalog console or from your code to the AWS Service Catalog APIs. Using the information collected by CloudTrail, you can determine the request that was made to AWS Service Catalog, the source IP address from which the request was made, who made the request, when it was made, and so on.

To learn more about CloudTrail, including how to configure and enable it, see the AWS CloudTrail User Guide.

AWS Service Catalog Information in CloudTrail

When CloudTrail logging is enabled in your AWS account, API calls made to AWS Service Catalog actions are tracked in CloudTrail log files, where they are written with other AWS service records. CloudTrail determines when to create and write to a new file based on a time period and file size.

All AWS Service Catalog actions are logged by CloudTrail and are documented in the AWS Service Catalog API Operations Reference. For example, calls to the **SearchProducts**, **ListLaunchPaths**, and **ProvisionProduct** operations generate entries in the CloudTrail log files.

Every log entry contains information about who generated the request. The user identity information in the log entry helps you determine the following:

- Whether the request was made with root or IAM user credentials
- Whether the request was made with temporary security credentials for a role or federated user
- Whether the request was made by another AWS service

For more information, see the CloudTrail userIdentity Element.

You can store your log files in your Amazon S3 bucket for as long as you want, but you can also define Amazon S3 lifecycle rules to archive or delete log files automatically. By default, your log files are encrypted with Amazon S3 server-side encryption (SSE).

If you want to be notified upon log file delivery, you can configure CloudTrail to publish Amazon SNS notifications when new log files are delivered. For more information, see Configuring Amazon SNS Notifications for CloudTrail.

You can also aggregate AWS Service Catalog log files from multiple AWS regions and multiple AWS accounts into a single Amazon S3 bucket.

For more information, see Receiving CloudTrail Log Files from Multiple Regions and Receiving CloudTrail Log Files from Multiple Accounts.

API Reference

This section contains the AWS Service Catalog API Reference documentation.

For an overview of the service, see What Is AWS Service Catalog? (p. 1).

Actions

The following actions are supported:

DescribeProduct

Retrieves information about a specified product.

This operation is functionally identical to DescribeProductView (p. 11) except that it takes as input `ProductId` instead of `ProductViewId`.

Request Syntax

```
{
   "AcceptLanguage (p. 9)": "string",
   "Id (p. 9)": "string"
}
```

Request Parameters

The request requires the following data in JSON format.

AcceptLanguage (p. 9)

Optional language code. Supported language codes are as follows:

"en" (English)

"jp" (Japanese)

"zh" (Chinese)

If no code is specified, "en" is used as the default.

Type: String

Required: No

Id (p. 9)

The `ProductId` of the product to describe.

Type: String

Required: Yes

Response Syntax

```
{
   "ProductViewSummary (p. 10)": {
      "Distributor (p. 41)": "string",
      "HasDefaultPath (p. 41)": boolean,
      "Id (p. 41)": "string",
      "Name (p. 41)": "string",
      "Owner (p. 41)": "string",
      "ProductId (p. 41)": "string",
      "ShortDescription (p. 41)": "string",
      "SupportDescription (p. 41)": "string",
      "SupportEmail (p. 41)": "string",
      "SupportUrl (p. 41)": "string",
      "Type (p. 42)": "string"
   },
   "ProvisioningArtifacts (p. 10)": [
      {
         "CreatedTime (p. 45)": number,
         "Description (p. 45)": "string",
         "Id (p. 45)": "string",
         "Name (p. 45)": "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.

ProductViewSummary (p. 9)

The summary metadata about the specified product.

Type: ProductViewSummary (p. 41) object

ProvisioningArtifacts (p. 9)

A list of provisioning artifact objects for the specified product. The `ProvisioningArtifacts` parameter represent the ways the specified product can be provisioned.

Type: array of ProvisioningArtifact (p. 45) objects

Errors

InvalidParametersException

One or more parameters provided to the operation are invalid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 400

DescribeProductView

Retrieves information about a specified product.

This operation is functionally identical to DescribeProduct (p. 9) except that it takes as input `ProductViewId` instead of `ProductId`.

Request Syntax

```
{
   "AcceptLanguage (p. 11)": "string",
   "Id (p. 11)": "string"
}
```

Request Parameters

The request requires the following data in JSON format.

AcceptLanguage (p. 11)

Optional language code. Supported language codes are as follows:

"en" (English)

"jp" (Japanese)

"zh" (Chinese)

If no code is specified, "en" is used as the default.

Type: String

Required: No

Id (p. 11)

The `ProductViewId` of the product to describe.

Type: String

Required: Yes

Response Syntax

```
{
   "ProductViewSummary (p. 12)": {
      "Distributor (p. 41)": "string",
      "HasDefaultPath (p. 41)": boolean,
      "Id (p. 41)": "string",
      "Name (p. 41)": "string",
      "Owner (p. 41)": "string",
      "ProductId (p. 41)": "string",
      "ShortDescription (p. 41)": "string",
      "SupportDescription (p. 41)": "string",
      "SupportEmail (p. 41)": "string",
      "SupportUrl (p. 41)": "string",
      "Type (p. 42)": "string"
   },
   "ProvisioningArtifacts (p. 12)": [
      {
         "CreatedTime (p. 45)": number,
         "Description (p. 45)": "string",
         "Id (p. 45)": "string",
         "Name (p. 45)": "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.

ProductViewSummary (p. 11)

The summary metadata about the specified product.

Type: ProductViewSummary (p. 41) object

ProvisioningArtifacts (p. 11)

A list of provisioning artifact objects for the specified product. The `ProvisioningArtifacts` represent the ways in which the specified product can be provisioned.

Type: array of ProvisioningArtifact (p. 45) objects

Errors

InvalidParametersException

One or more parameters provided to the operation are invalid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 400

DescribeProvisioningParameters

Provides information about parameters required to provision a specified product in a specified manner. Use this operation to obtain the list of `ProvisioningArtifactParameters` parameters available to call the ProvisionProduct (p. 22) operation for the specified product.

Request Syntax

```
{
   "AcceptLanguage (p. 13)": "string",
   "PathId (p. 13)": "string",
   "ProductId (p. 13)": "string",
   "ProvisioningArtifactId (p. 13)": "string"
}
```

Request Parameters

The request requires the following data in JSON format.

AcceptLanguage (p. 13)
Optional language code. Supported language codes are as follows:
"en" (English)
"jp" (Japanese)
"zh" (Chinese)
If no code is specified, "en" is used as the default.
Type: String
Required: No

PathId (p. 13)
The identifier of the path for this product's provisioning. This value is optional if the product has a default path, and is required if there is more than one path for the specified product.
Type: String
Required: No

ProductId (p. 13)
The identifier of the product.
Type: String
Required: Yes

ProvisioningArtifactId (p. 13)
The provisioning artifact identifier for this product.
Type: String
Required: Yes

Response Syntax

```
{
   "ConstraintSummaries (p. 14)": [
      {
         "Description (p. 36)": "string",
         "Type (p. 36)": "string"
      }
   ],
   "ProvisioningArtifactParameters (p. 14)": [
```

```
      {
         "DefaultValue (p. 46)": "string",
         "Description (p. 46)": "string",
         "IsNoEcho (p. 46)": boolean,
         "ParameterConstraints (p. 46)": {
            "AllowedValues (p. 39)": [ "string" ]
         },
         "ParameterKey (p. 46)": "string",
         "ParameterType (p. 46)": "string"
      }
   ],
   "UsageInstructions (p. 14)": [
      {
         "Type (p. 55)": "string",
         "Value (p. 55)": "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.

ConstraintSummaries (p. 13)

The list of constraint summaries that apply to provisioning this product.

Type: array of ConstraintSummary (p. 36) objects

ProvisioningArtifactParameters (p. 13)

The list of parameters used to successfully provision the product. Each parameter includes a list of allowable values and additional metadata about each parameter.

Type: array of ProvisioningArtifactParameter (p. 46) objects

UsageInstructions (p. 13)

Any additional metadata specifically related to the provisioning of the product. For example, see the `Version` field of the CloudFormation template.

Type: array of UsageInstruction (p. 55) objects

Errors

InvalidParametersException

One or more parameters provided to the operation are invalid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 400

DescribeRecord

Retrieves a paginated list of the full details of a specific request. Use this operation after calling a request operation (ProvisionProduct (p. 22), TerminateProvisionedProduct (p. 31), or UpdateProvisionedProduct (p. 33)).

Request Syntax

```
{
   "AcceptLanguage (p. 15)": "string",
   "Id (p. 15)": "string",
   "PageSize (p. 15)": number,
   "PageToken (p. 15)": "string"
}
```

Request Parameters

The request requires the following data in JSON format.

AcceptLanguage (p. 15)

Optional language code. Supported language codes are as follows:

"en" (English)

"jp" (Japanese)

"zh" (Chinese)

If no code is specified, "en" is used as the default.

Type: String

Required: No

Id (p. 15)

The record identifier of the ProvisionedProduct object for which to retrieve output information. This is the `RecordDetail.RecordId` obtained from the request operation's response.

Type: String

Required: Yes

PageSize (p. 15)

The maximum number of items to return in the results. If more results exist than fit in the specified `PageSize`, the value of `NextPageToken` in the response is non-null.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 20.

Required: No

PageToken (p. 15)

The page token of the first page retrieve. If null, this retrieves the first page of size `PageSize`.

Type: String

Pattern: `[\u0009\u000a\u000d\u0020-\uD7FF\uE000-\uFFFD]*`

Required: No

Response Syntax

```
{
   "NextPageToken (p. 16)": "string",
   "RecordDetail (p. 16)": {
      "CreatedTime (p. 48)": number,
```

```
      "PathId (p. 48)": "string",
      "ProductId (p. 48)": "string",
      "ProvisionedProductId (p. 48)": "string",
      "ProvisionedProductName (p. 48)": "string",
      "ProvisionedProductType (p. 48)": "string",
      "ProvisioningArtifactId (p. 48)": "string",
      "RecordErrors (p. 48)": [
         {
            "Code (p. 50)": "string",
            "Description (p. 50)": "string"
         }
      ],
      "RecordId (p. 48)": "string",
      "RecordTags (p. 48)": [
         {
            "Key (p. 52)": "string",
            "Value (p. 52)": "string"
         }
      ],
      "RecordType (p. 48)": "string",
      "Status (p. 49)": "string",
      "UpdatedTime (p. 49)": number
   },
   "RecordOutputs (p. 16)": [
      {
         "Description (p. 51)": "string",
         "OutputKey (p. 51)": "string",
         "OutputValue (p. 51)": "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.

NextPageToken (p. 15)

The page token to use to retrieve the next page of results for this operation. If there are no more pages, this value is null.

Type: String

Pattern: `[\u0009\u000a\u000d\u0020-\uD7FF\uE000-\uFFFD]*`

RecordDetail (p. 15)

Detailed record information for the specified product.

Type: RecordDetail (p. 48) object

RecordOutputs (p. 15)

A list of outputs for the specified Product object created as the result of a request. For example, a CloudFormation-backed product that creates an S3 bucket would have an output for the S3 bucket URL.

Type: array of RecordOutput (p. 51) objects

Errors

ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 400

ListLaunchPaths

Returns a paginated list of all paths to a specified product. A path is how the user has access to a specified product, and is necessary when provisioning a product. A path also determines the constraints put on the product.

Request Syntax

```
{
   "AcceptLanguage (p. 18)": "string",
   "PageSize (p. 18)": number,
   "PageToken (p. 18)": "string",
   "ProductId (p. 18)": "string"
}
```

Request Parameters

The request requires the following data in JSON format.

AcceptLanguage (p. 18)

Optional language code. Supported language codes are as follows:

"en" (English)

"jp" (Japanese)

"zh" (Chinese)

If no code is specified, "en" is used as the default.

Type: String

Required: No

PageSize (p. 18)

The maximum number of items to return in the results. If more results exist than fit in the specified `PageSize`, the value of `NextPageToken` in the response is non-null.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 20.

Required: No

PageToken (p. 18)

The page token of the first page retrieve. If null, this retrieves the first page of size `PageSize`.

Type: String

Pattern: `[\u0009\u000a\u000d\u0020-\uD7FF\uE000-\uFFFD]*`

Required: No

ProductId (p. 18)

Identifies the product for which to retrieve `LaunchPathSummaries` information.

Type: String

Required: Yes

Response Syntax

```
{
   "LaunchPathSummaries (p. 19)": [
      {
         "ConstraintSummaries (p. 37)": [
            {
```

```
                "Description (p. 36)": "string",
                "Type (p. 36)": "string"
            }
         ],
         "Id (p. 37)": "string",
         "Name (p. 37)": "string",
         "Tags (p. 37)": [
            {
               "Key (p. 53)": "string",
               "Value (p. 53)": "string"
            }
         ]
      }
   ],
   "NextPageToken (p. 19)": "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.

LaunchPathSummaries (p. 18)

List of launch path information summaries for the specified `PageToken`.

Type: array of LaunchPathSummary (p. 37) objects

NextPageToken (p. 18)

The page token to use to retrieve the next page of results for this operation. If there are no more pages, this value is null.

Type: String

Pattern: `[\u0009\u000a\u000d\u0020-\uD7FF\uE000-\uFFFD]*`

Errors

InvalidParametersException

One or more parameters provided to the operation are invalid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 400

ListRecordHistory

Returns a paginated list of all performed requests, in the form of RecordDetails objects that are filtered as specified.

Request Syntax

```
{
   "AcceptLanguage (p. 20)": "string",
   "PageSize (p. 20)": number,
   "PageToken (p. 20)": "string",
   "SearchFilter (p. 20)": {
      "Key (p. 38)": "string",
      "Value (p. 38)": "string"
   }
}
```

Request Parameters

The request requires the following data in JSON format.

AcceptLanguage (p. 20)

Optional language code. Supported language codes are as follows:

"en" (English)

"jp" (Japanese)

"zh" (Chinese)

If no code is specified, "en" is used as the default.

Type: String

Required: No

PageSize (p. 20)

The maximum number of items to return in the results. If more results exist than fit in the specified `PageSize`, the value of `NextPageToken` in the response is non-null.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 20.

Required: No

PageToken (p. 20)

The page token of the first page retrieve. If null, this retrieves the first page of size `PageSize`.

Type: String

Pattern: `[\u0009\u000a\u000d\u0020-\uD7FF\uE000-\uFFFD]*`

Required: No

SearchFilter (p. 20)

(Optional) The filter to limit search results.

Type: ListRecordHistorySearchFilter (p. 38) object

Required: No

Response Syntax

```
{
   "NextPageToken (p. 21)": "string",
   "RecordDetails (p. 21)": [
```

```
      {
         "CreatedTime (p. 48)": number,
         "PathId (p. 48)": "string",
         "ProductId (p. 48)": "string",
         "ProvisionedProductId (p. 48)": "string",
         "ProvisionedProductName (p. 48)": "string",
         "ProvisionedProductType (p. 48)": "string",
         "ProvisioningArtifactId (p. 48)": "string",
         "RecordErrors (p. 48)": [
            {
               "Code (p. 50)": "string",
               "Description (p. 50)": "string"
            }
         ],
         "RecordId (p. 48)": "string",
         "RecordTags (p. 48)": [
            {
               "Key (p. 52)": "string",
               "Value (p. 52)": "string"
            }
         ],
         "RecordType (p. 48)": "string",
         "Status (p. 49)": "string",
         "UpdatedTime (p. 49)": number
      }
   ]
}
```

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.

NextPageToken (p. 20)

The page token to use to retrieve the next page of results for this operation. If there are no more pages, this value is null.

Type: String

Pattern: `[\u0009\u000a\u000d\u0020-\uD7FF\uE000-\uFFFD]*`

RecordDetails (p. 20)

A list of record detail objects, listed in reverse chronological order.

Type: array of RecordDetail (p. 48) objects

Errors

InvalidParametersException

One or more parameters provided to the operation are invalid.

HTTP Status Code: 400

ProvisionProduct

Requests a *Provision* of a specified product. A *ProvisionedProduct* is a resourced instance for a product. For example, provisioning a CloudFormation-template-backed product results in launching a CloudFormation stack and all the underlying resources that come with it.

You can check the status of this request using the DescribeRecord (p. 15) operation.

Request Syntax

```
{
   "AcceptLanguage (p. 22)": "string",
   "NotificationArns (p. 22)": [ "string" ],
   "PathId (p. 23)": "string",
   "ProductId (p. 23)": "string",
   "ProvisionedProductName (p. 23)": "string",
   "ProvisioningArtifactId (p. 23)": "string",
   "ProvisioningParameters (p. 23)": [
      {
         "Key (p. 47)": "string",
         "Value (p. 47)": "string"
      }
   ],
   "ProvisionToken (p. 23)": "string",
   "Tags (p. 23)": [
      {
         "Key (p. 53)": "string",
         "Value (p. 53)": "string"
      }
   ]
}
```

Request Parameters

The request requires the following data in JSON format.

AcceptLanguage (p. 22)

Optional language code. Supported language codes are as follows:

"en" (English)

"jp" (Japanese)

"zh" (Chinese)

If no code is specified, "en" is used as the default.

Type: String

Required: No

NotificationArns (p. 22)

Passed to CloudFormation. The SNS topic ARNs to which to publish stack-related events.

Type: array of Strings

Array Members: Maximum number of 5 items.

Length Constraints: Minimum length of 1. Maximum length of 1224.

Pattern:
`arn:[a-z0-9-\.]{1,63}:[a-z0-9-\.]{0,63}:[a-z0-9-\.]{0,63}:[a-z0-9-\.]{0,63}:[^/].{0,1023}`

Required: No

PathId (p. 22)
The identifier of the path for this product's provisioning. This value is optional if the product has a default path, and is required if there is more than one path for the specified product.
Type: String
Required: No

ProductId (p. 22)
The identifier of the product.
Type: String
Required: Yes

ProvisionedProductName (p. 22)
A user-friendly name to identify the ProvisionedProduct object. This value must be unique for the AWS account and cannot be updated after the product is provisioned.
Type: String
Required: Yes

ProvisioningArtifactId (p. 22)
The provisioning artifact identifier for this product.
Type: String
Required: Yes

ProvisioningParameters (p. 22)
Parameters specified by the administrator that are required for provisioning the product.
Type: array of ProvisioningParameter (p. 47) objects
Required: No

ProvisionToken (p. 22)
An idempotency token that uniquely identifies the provisioning request.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 128.
Pattern: `[a-zA-Z0-9][a-zA-Z0-9_-]*`
Required: Yes

Tags (p. 22)
(Optional) A list of tags to use as provisioning options.
Type: array of Tag (p. 53) objects
Array Members: Maximum number of 10 items.
Required: No

Response Syntax

```
{
   "RecordDetail (p. 24)": {
      "CreatedTime (p. 48)": number,
      "PathId (p. 48)": "string",
      "ProductId (p. 48)": "string",
      "ProvisionedProductId (p. 48)": "string",
      "ProvisionedProductName (p. 48)": "string",
      "ProvisionedProductType (p. 48)": "string",
      "ProvisioningArtifactId (p. 48)": "string",
      "RecordErrors (p. 48)": [
         {
            "Code (p. 50)": "string",
            "Description (p. 50)": "string"
         }
```

```
      ],
      "RecordId (p. 48)": "string",
      "RecordTags (p. 48)": [
         {
            "Key (p. 52)": "string",
            "Value (p. 52)": "string"
         }
      ],
      "RecordType (p. 48)": "string",
      "Status (p. 49)": "string",
      "UpdatedTime (p. 49)": number
   }
}
```

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.

RecordDetail (p. 23)

The detailed result of the ProvisionProduct (p. 22) request, containing the inputs made to that request, the current state of the request, a pointer to the ProvisionedProduct object of the request, and a list of any errors that the request encountered.

Type: RecordDetail (p. 48) object

Errors

DuplicateResourceException

The specified resource is a duplicate.

HTTP Status Code: 400

InvalidParametersException

One or more parameters provided to the operation are invalid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 400

ScanProvisionedProducts

Returns a paginated list of all the ProvisionedProduct objects that are currently available (not terminated).

Request Syntax

```
{
   "AcceptLanguage (p. 25)": "string",
   "PageSize (p. 25)": number,
   "PageToken (p. 25)": "string"
}
```

Request Parameters

The request requires the following data in JSON format.

AcceptLanguage (p. 25)

Optional language code. Supported language codes are as follows:

"en" (English)

"jp" (Japanese)

"zh" (Chinese)

If no code is specified, "en" is used as the default.

Type: String

Required: No

PageSize (p. 25)

The maximum number of items to return in the results. If more results exist than fit in the specified `PageSize`, the value of `NextPageToken` in the response is non-null.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 20.

Required: No

PageToken (p. 25)

The page token of the first page retrieve. If null, this retrieves the first page of size `PageSize`.

Type: String

Pattern: `[\u0009\u000a\u000d\u0020-\uD7FF\uE000-\uFFFD]*`

Required: No

Response Syntax

```
{
   "NextPageToken (p. 26)": "string",
   "ProvisionedProducts (p. 26)": [
      {
         "Arn (p. 43)": "string",
         "CreatedTime (p. 43)": number,
         "Id (p. 43)": "string",
         "IdempotencyToken (p. 43)": "string",
         "LastRecordId (p. 43)": "string",
         "Name (p. 43)": "string",
         "Status (p. 43)": "string",
         "StatusMessage (p. 43)": "string",
         "Type (p. 43)": "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.

NextPageToken (p. 25)

The page token to use to retrieve the next page of results for this operation. If there are no more pages, this value is null.

Type: String

Pattern: `[\u0009\u000a\u000d\u0020-\uD7FF\uE000-\uFFFD]*`

ProvisionedProducts (p. 25)

A list of ProvisionedProduct detail objects.

Type: array of ProvisionedProductDetail (p. 43) objects

Errors

InvalidParametersException

One or more parameters provided to the operation are invalid.

HTTP Status Code: 400

SearchProducts

Returns a paginated list all of the `Products` objects to which the caller has access.

The output of this operation can be used as input for other operations, such as DescribeProductView (p. 11).

Request Syntax

```
{
   "AcceptLanguage (p. 27)": "string",
   "Filters (p. 27)": {
      "string" : [ "string" ]
   },
   "PageSize (p. 27)": number,
   "PageToken (p. 27)": "string",
   "SortBy (p. 27)": "string",
   "SortOrder (p. 28)": "string"
}
```

Request Parameters

The request requires the following data in JSON format.

AcceptLanguage (p. 27)

Optional language code. Supported language codes are as follows:

"en" (English)

"jp" (Japanese)

"zh" (Chinese)

If no code is specified, "en" is used as the default.

Type: String

Required: No

Filters (p. 27)

(Optional) The list of filters with which to limit search results. If no search filters are specified, the output is all the products to which the calling user has access.

Type: String to array of Strings map

Valid Map Keys: `FullTextSearch | Owner | ProductType`

Required: No

PageSize (p. 27)

The maximum number of items to return in the results. If more results exist than fit in the specified `PageSize`, the value of `NextPageToken` in the response is non-null.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 20.

Required: No

PageToken (p. 27)

The page token of the first page retrieve. If null, this retrieves the first page of size `PageSize`.

Type: String

Pattern: `[\u0009\u000a\u000d\u0020-\uD7FF\uE000-\uFFFD]*`

Required: No

SortBy (p. 27)

(Optional) The sort field specifier. If no value is specified, results are not sorted.

Type: String

Valid Values: `Title | VersionCount | CreationDate`

Required: No

SortOrder (p. 27)

(Optional) The sort order specifier. If no value is specified, results are not sorted.

Type: String

Valid Values: `ASCENDING | DESCENDING`

Required: No

Response Syntax

```
{
   "NextPageToken (p. 28)": "string",
   "ProductViewAggregations (p. 28)": {
      "string" : [
         {
            "ApproximateCount (p. 40)": number,
            "Value (p. 40)": "string"
         }
      ]
   },
   "ProductViewSummaries (p. 28)": [
      {
         "Distributor (p. 41)": "string",
         "HasDefaultPath (p. 41)": boolean,
         "Id (p. 41)": "string",
         "Name (p. 41)": "string",
         "Owner (p. 41)": "string",
         "ProductId (p. 41)": "string",
         "ShortDescription (p. 41)": "string",
         "SupportDescription (p. 41)": "string",
         "SupportEmail (p. 41)": "string",
         "SupportUrl (p. 41)": "string",
         "Type (p. 42)": "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.

NextPageToken (p. 28)

The page token to use to retrieve the next page of results for this operation. If there are no more pages, this value is null.

Type: String

Pattern: `[\u0009\u000a\u000d\u0020-\uD7FF\uE000-\uFFFD]*`

ProductViewAggregations (p. 28)

A list of the product view aggregation value objects.

Type: String to array of ProductViewAggregationValue (p. 40) objects map

ProductViewSummaries (p. 28)

A list of the product view summary objects.

Type: array of ProductViewSummary (p. 41) objects

Errors

InvalidParametersException
One or more parameters provided to the operation are invalid.
HTTP Status Code: 400

Example

Search for all available products

The following JSON example retrieves all products available to the current user.

Sample Request

```
POST
/
content-type:application/x-amz-json-1.1
host:servicecatalog.us-west-2.amazonaws.com
user-agent:aws-cli/1.10.19 Python/2.7.10 Darwin/15.5.0 botocore/1.4.10
x-amz-date:20160607T224008Z
x-amz-target:AWS242ServiceCatalogService.SearchProducts
```

Sample Response

```
{
   "ProductViewAggregations":
   {
      "Owner":
      [
         {
            "ApproximateCount":4,
            "Value":"387896429941"
         }
      ],
      "ProductType":
      [
         {
            "ApproximateCount":4,
            "Value":"ServiceCatalog"
         }
      ],
      "Vendor":
      [
         {
            "ApproximateCount":1,
            "Value":""
         },
         {
            "ApproximateCount":1,
            "Value":"me"
         }
      ]
   },
   "ProductViewSummaries":
   [
```

```
      {
         "HasDefaultPath":false,
         "Id":"prodview-w35uhtf6nrqqy",
         "Name":"RDS template",
         "Owner":"AWS",
         "ProductId":"prod-3tsertlc2g7pw",
         "ShortDescription":"Test 2",
         "Type":"Base"
      },
      {
         "HasDefaultPath":false,
         "Id":"prodview-r2tzjgsao7mc4",
         "Name":"Devo enviro 2",
         "Owner":"asda",
         "ProductId":"prod-enx2jvf33gi52",
         "ShortDescription":"asd",
         "Type":"Base"
      },
      {
         "Distributor":"",
         "HasDefaultPath":false,
         "Id":"prodview-e64tf73gp3gl4",
         "Name":"Devo environment",
         "Owner":"test",
         "ProductId":"prod-3p2k2ejvcsdvi",
         "ShortDescription":"test",
         "Type":"Base"
      },
      {
         "Distributor":"Me",
         "HasDefaultPath":false,
         "Id":"prodview-3fmrw464floam",
         "Name":"Testtemplate",
         "Owner":"MSP XYZ",
         "ProductId":"prod-eqeqzgemstiea",
         "ShortDescription":"asdas",
         "Type":"Base"
      }
   ]
}
```

TerminateProvisionedProduct

Requests termination of an existing ProvisionedProduct object. If there are `Tags` associated with the object, they are terminated when the ProvisionedProduct object is terminated.

This operation does not delete any records associated with the ProvisionedProduct object.

You can check the status of this request using the DescribeRecord (p. 15) operation.

Request Syntax

```
{
   "AcceptLanguage (p. 31)": "string",
   "IgnoreErrors (p. 31)": boolean,
   "ProvisionedProductId (p. 31)": "string",
   "ProvisionedProductName (p. 31)": "string",
   "TerminateToken (p. 31)": "string"
}
```

Request Parameters

The request requires the following data in JSON format.

AcceptLanguage (p. 31)

Optional language code. Supported language codes are as follows:

"en" (English)

"jp" (Japanese)

"zh" (Chinese)

If no code is specified, "en" is used as the default.

Type: String

Required: No

IgnoreErrors (p. 31)

Optional Boolean parameter. If set to true, AWS Service Catalog stops managing the specified ProvisionedProduct object even if it cannot delete the underlying resources.

Type: Boolean

Required: No

ProvisionedProductId (p. 31)

The identifier of the ProvisionedProduct object to terminate. You must specify either `ProvisionedProductName` or `ProvisionedProductId`, but not both.

Type: String

Required: No

ProvisionedProductName (p. 31)

The name of the ProvisionedProduct object to terminate. You must specify either `ProvisionedProductName` or `ProvisionedProductId`, but not both.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1224.

Pattern: `[a-zA-Z0-9][a-zA-Z0-9_-]{0,127}|arn:[a-z0-9-\.]{1,63}:[a-z0-9-\.]{0,63}:[a-z0-9-\.]{0,63}:[a-z0-9-\.]{0,63}:[^/].{0,1023}`

Required: No

TerminateToken (p. 31)

An idempotency token that uniquely identifies the termination request. This token is only valid during the termination process. After the ProvisionedProduct object is terminated, further requests to terminate the same ProvisionedProduct object always return **ResourceNotFound** regardless of the value of `TerminateToken`.

Type: String

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

Pattern: `[a-zA-Z0-9][a-zA-Z0-9_-]*`

Required: Yes

Response Syntax

```
{
   "RecordDetail (p. 32)": {
      "CreatedTime (p. 48)": number,
      "PathId (p. 48)": "string",
      "ProductId (p. 48)": "string",
      "ProvisionedProductId (p. 48)": "string",
      "ProvisionedProductName (p. 48)": "string",
      "ProvisionedProductType (p. 48)": "string",
      "ProvisioningArtifactId (p. 48)": "string",
      "RecordErrors (p. 48)": [
         {
            "Code (p. 50)": "string",
            "Description (p. 50)": "string"
         }
      ],
      "RecordId (p. 48)": "string",
      "RecordTags (p. 48)": [
         {
            "Key (p. 52)": "string",
            "Value (p. 52)": "string"
         }
      ],
      "RecordType (p. 48)": "string",
      "Status (p. 49)": "string",
      "UpdatedTime (p. 49)": number
   }
}
```

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.

RecordDetail (p. 32)

The detailed result of the TerminateProvisionedProduct (p. 31) request, containing the inputs made to that request, the current state of the request, a pointer to the ProvisionedProduct object that the request is modifying, and a list of any errors that the request encountered.

Type: RecordDetail (p. 48) object

Errors

ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 400

UpdateProvisionedProduct

Requests updates to the configuration of an existing ProvisionedProduct object. If there are tags associated with the object, they cannot be updated or added with this operation. Depending on the specific updates requested, this operation may update with no interruption, with some interruption, or replace the ProvisionedProduct object entirely.

You can check the status of this request using the DescribeRecord (p. 15) operation.

Request Syntax

```
{
   "AcceptLanguage (p. 33)": "string",
   "PathId (p. 33)": "string",
   "ProductId (p. 33)": "string",
   "ProvisionedProductId (p. 33)": "string",
   "ProvisionedProductName (p. 34)": "string",
   "ProvisioningArtifactId (p. 34)": "string",
   "ProvisioningParameters (p. 34)": [
      {
         "Key (p. 54)": "string",
         "UsePreviousValue (p. 54)": boolean,
         "Value (p. 54)": "string"
      }
   ],
   "UpdateToken (p. 34)": "string"
}
```

Request Parameters

The request requires the following data in JSON format.

AcceptLanguage (p. 33)

Optional language code. Supported language codes are as follows:

"en" (English)

"jp" (Japanese)

"zh" (Chinese)

If no code is specified, "en" is used as the default.

Type: String

Required: No

PathId (p. 33)

The identifier of the path to use in the updated ProvisionedProduct object. This value is optional if the product has a default path, and is required if there is more than one path for the specified product.

Type: String

Required: No

ProductId (p. 33)

The identifier of the ProvisionedProduct object.

Type: String

Required: No

ProvisionedProductId (p. 33)

The identifier of the ProvisionedProduct object to update. You must specify either `ProvisionedProductName` or `ProvisionedProductId`, but not both.

Type: String

Required: No

ProvisionedProductName (p. 33)
The updated name of the ProvisionedProduct object . You must specify either `ProvisionedProductName` or `ProvisionedProductId`, but not both.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 1224.
Pattern: `[a-zA-Z0-9][a-zA-Z0-9_-]{0,127}|arn:[a-z0-9-\.]{1,63}:[a-z0-9-\.]{0,63}:[a-z0-9-\.]{0,63}:[a-z0-9-\.]{0,63}:[^/].{0,1023}`
Required: No

ProvisioningArtifactId (p. 33)
The provisioning artifact identifier for this product.
Type: String
Required: No

ProvisioningParameters (p. 33)
A list of `ProvisioningParameter` objects used to update the ProvisionedProduct object.
Type: array of UpdateProvisioningParameter (p. 54) objects
Required: No

UpdateToken (p. 33)
The idempotency token that uniquely identifies the provisioning update request.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 128.
Pattern: `[a-zA-Z0-9][a-zA-Z0-9_-]*`
Required: Yes

Response Syntax

```
{
   "RecordDetail (p. 35)": {
      "CreatedTime (p. 48)": number,
      "PathId (p. 48)": "string",
      "ProductId (p. 48)": "string",
      "ProvisionedProductId (p. 48)": "string",
      "ProvisionedProductName (p. 48)": "string",
      "ProvisionedProductType (p. 48)": "string",
      "ProvisioningArtifactId (p. 48)": "string",
      "RecordErrors (p. 48)": [
         {
            "Code (p. 50)": "string",
            "Description (p. 50)": "string"
         }
      ],
      "RecordId (p. 48)": "string",
      "RecordTags (p. 48)": [
         {
            "Key (p. 52)": "string",
            "Value (p. 52)": "string"
         }
      ],
      "RecordType (p. 48)": "string",
      "Status (p. 49)": "string",
      "UpdatedTime (p. 49)": number
   }
}
```

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.

RecordDetail (p. 34)

The detailed result of the UpdateProvisionedProduct (p. 33) request, containing the inputs made to that request, the current state of the request, a pointer to the ProvisionedProduct object that the request is modifying, and a list of any errors that the request encountered.

Type: RecordDetail (p. 48) object

Errors

InvalidParametersException

One or more parameters provided to the operation are invalid.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource was not found.

HTTP Status Code: 400

Data Types

The following data types are supported:

- ConstraintSummary (p. 36)
- LaunchPathSummary (p. 37)
- ListRecordHistorySearchFilter (p. 38)
- ParameterConstraints (p. 39)
- ProductViewAggregationValue (p. 40)
- ProductViewSummary (p. 41)
- ProvisionedProductDetail (p. 43)
- ProvisioningArtifact (p. 45)
- ProvisioningArtifactParameter (p. 46)
- ProvisioningParameter (p. 47)
- RecordDetail (p. 48)
- RecordError (p. 50)
- RecordOutput (p. 51)
- RecordTag (p. 52)
- Tag (p. 53)
- UpdateProvisioningParameter (p. 54)
- UsageInstruction (p. 55)

ConstraintSummary

An administrator-specified constraint to apply when provisioning a product.

Contents

Description

The text description of the constraint.

Type: String

Required: No

Type

The type of the constraint.

Type: String

Required: No

LaunchPathSummary

Summary information about a path for a user to have access to a specified product.

Contents

ConstraintSummaries

List of constraints on the portfolio-product relationship.

Type: array of ConstraintSummary (p. 36) objects

Required: No

Id

The unique identifier of the product path.

Type: String

Required: No

Name

Corresponds to the name of the portfolio to which the user was assigned.

Type: String

Required: No

Tags

List of tags used by this launch path.

Type: array of Tag (p. 53) objects

Array Members: Maximum number of 10 items.

Required: No

ListRecordHistorySearchFilter

The search filter to limit results when listing request history records.

Contents

Key

The filter key.

Type: String

Required: No

Value

The filter value for `Key`.

Type: String

Required: No

ParameterConstraints

The constraints that the administrator has put on the parameter.

Contents

AllowedValues

The values that the administrator has allowed for the parameter.

Type: array of Strings

Required: No

ProductViewAggregationValue

A single product view aggregation value/count pair, containing metadata about each product to which the calling user has access.

Contents

ApproximateCount

An approximate count of the products that match the value.

Type: Integer

Required: No

Value

The value of the product view aggregation.

Type: String

Required: No

ProductViewSummary

The summary metadata about the specified product.

Contents

Distributor
The distributor of the product. Contact the product administrator for the significance of this value.
Type: String
Required: No

HasDefaultPath
A value of `false` indicates that the product does not have a default path, while a value of `true` indicates that it does. If it's false, call ListLaunchPaths (p. 18) to disambiguate between paths. If true, ListLaunchPaths (p. 18) is not required, and the output of the ProductViewSummary (p. 41) operation can be used directly with DescribeProvisioningParameters (p. 13).
Type: Boolean
Required: No

Id
The product view identifier.
Type: String
Required: No

Name
The name of the product.
Type: String
Required: No

Owner
The owner of the product. Contact the product administrator for the significance of this value.
Type: String
Required: No

ProductId
The product identifier.
Type: String
Required: No

ShortDescription
Short description of the product.
Type: String
Required: No

SupportDescription
The description of the support for this Product.
Type: String
Required: No

SupportEmail
The email contact information to obtain support for this Product.
Type: String
Required: No

SupportUrl
The URL information to obtain support for this Product.
Type: String
Required: No

Type

The product type. Contact the product administrator for the significance of this value.

Type: String

Required: No

ProvisionedProductDetail

Detailed information about a ProvisionedProduct object.

Contents

Arn
The ARN associated with the ProvisionedProduct object.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 1224.
Pattern: `[a-zA-Z0-9][a-zA-Z0-9_-]{0,127}|arn:[a-z0-9-\.]{1,63}:[a-z0-9-\.]{0,63}:[a-z0-9-\.]{0,63}:[a-z0-9-\.]{0,63}:[^/].{0,1023}`
Required: No

CreatedTime
The time the ProvisionedProduct was created.
Type: Timestamp
Required: No

Id
The identifier of the ProvisionedProduct object.
Type: String
Required: No

IdempotencyToken
An idempotency token that uniquely identifies this ProvisionedProduct.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 128.
Pattern: `[a-zA-Z0-9][a-zA-Z0-9_-]*`
Required: No

LastRecordId
The record identifier of the last request performed on this ProvisionedProduct object.
Type: String
Required: No

Name
The user-friendly name of the ProvisionedProduct object.
Type: String
Length Constraints: Minimum length of 1. Maximum length of 1224.
Pattern: `[a-zA-Z0-9][a-zA-Z0-9_-]{0,127}|arn:[a-z0-9-\.]{1,63}:[a-z0-9-\.]{0,63}:[a-z0-9-\.]{0,63}:[a-z0-9-\.]{0,63}:[^/].{0,1023}`
Required: No

Status
The current status of the ProvisionedProduct.
Type: String
Valid Values: `IN_PROGRESS | SUCCEEDED | ERROR`
Required: No

StatusMessage
The current status message of the ProvisionedProduct.
Type: String
Required: No

Type
The type of the ProvisionedProduct object.
Type: String

Required: No

ProvisioningArtifact

Contains information indicating the ways in which a product can be provisioned.

Contents

CreatedTime

The time that the artifact was created by the Administrator.

Type: Timestamp

Required: No

Description

The text description of the artifact.

Type: String

Required: No

Id

The identifier for the artifact.

Type: String

Required: No

Name

The name of the artifact.

Type: String

Required: No

ProvisioningArtifactParameter

A parameter used to successfully provision the product. This value includes a list of allowable values and additional metadata.

Contents

DefaultValue

The default value for this parameter.

Type: String

Required: No

Description

The text description of the parameter.

Type: String

Required: No

IsNoEcho

If this value is true, the value for this parameter is obfuscated from view when the parameter is retrieved. This parameter is used to hide sensitive information.

Type: Boolean

Required: No

ParameterConstraints

The list of constraints that the administrator has put on the parameter.

Type: ParameterConstraints (p. 39) object

Required: No

ParameterKey

The parameter key.

Type: String

Required: No

ParameterType

The parameter type.

Type: String

Required: No

ProvisioningParameter

The arameter key/value pairs used to provision a product.

Contents

Key

The `ProvisioningArtifactParameter.ParameterKey` parameter from DescribeProvisioningParameters (p. 13).

Type: String

Required: No

Value

The value to use for provisioning. Any constraints on this value can be found in `ProvisioningArtifactParameter` for `Key`.

Type: String

Required: No

RecordDetail

The full details of a specific ProvisionedProduct object.

Contents

CreatedTime
The time when the record for the ProvisionedProduct object was created.
Type: Timestamp
Required: No

PathId
The identifier of the path for this product's provisioning.
Type: String
Required: No

ProductId
The identifier of the product.
Type: String
Required: No

ProvisionedProductId
The identifier of the ProvisionedProduct object.
Type: String
Required: No

ProvisionedProductName
The user-friendly name of the ProvisionedProduct object.
Type: String
Required: No

ProvisionedProductType
The type of the ProvisionedProduct object.
Type: String
Required: No

ProvisioningArtifactId
The provisioning artifact identifier for this product.
Type: String
Required: No

RecordErrors
A list of errors that occurred while processing the request.
Type: array of RecordError (p. 50) objects
Required: No

RecordId
The identifier of the ProvisionedProduct object record.
Type: String
Required: No

RecordTags
List of tags associated with this record.
Type: array of RecordTag (p. 52) objects
Array Members: Maximum number of 10 items.
Required: No

RecordType
The record type for this record.
Type: String

Required: No

Status

The status of the ProvisionedProduct object.

Type: String

Valid Values: `IN_PROGRESS | SUCCEEDED | ERROR`

Required: No

UpdatedTime

The time when the record for the ProvisionedProduct object was last updated.

Type: Timestamp

Required: No

RecordError

The error code and description resulting from an operation.

Contents

Code

The numeric value of the error.

Type: String

Required: No

Description

The text description of the error.

Type: String

Required: No

RecordOutput

An output for the specified Product object created as the result of a request. For example, a CloudFormation-backed product that creates an S3 bucket would have an output for the S3 bucket URL.

Contents

Description

The text description of the output.

Type: String

Required: No

OutputKey

The output key.

Type: String

Required: No

OutputValue

The output value.

Type: String

Required: No

RecordTag

A tag associated with the record, stored as a key-value pair.

Contents

Key

The key for this tag.

Type: String

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

Pattern: `^([\p{L}\p{Z}\p{N}_.:/=+\-%@]*)$`

Required: No

Value

The value for this tag.

Type: String

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

Pattern: `^([\p{L}\p{Z}\p{N}_.:/=+\-%@]*)$`

Required: No

Tag

Optional key/value pairs to associate with this provisioning. These tags are propagated to the resources created in the provisioning.

Contents

Key

The `ProvisioningArtifactParameter.TagKey` parameter from DescribeProvisioningParameters (p. 13).

Type: String

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

Pattern: `^([\p{L}\p{Z}\p{N}_.:/=+\-%@]*)$`

Required: No

Value

The esired value for this key.

Type: String

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

Pattern: `^([\p{L}\p{Z}\p{N}_.:/=+\-%@]*)$`

Required: No

UpdateProvisioningParameter

The parameter key/value pair used to update a ProvisionedProduct object. If `UsePreviousValue` is set to true, `Value` is ignored and the value for `Key` is kept as previously set (current value).

Contents

Key

The `ProvisioningArtifactParameter.ParameterKey` parameter from DescribeProvisioningParameters (p. 13).

Type: String

Required: No

UsePreviousValue

If true, uses the currently set value for `Key`, ignoring `UpdateProvisioningParameter.Value`.

Type: Boolean

Required: No

Value

The value to use for updating the product provisioning. Any constraints on this value can be found in the `ProvisioningArtifactParameter` parameter for `Key`.

Type: String

Required: No

UsageInstruction

Additional information provided by the administrator.

Contents

Type

The usage instruction type for the value.

Type: String

Required: No

Value

The usage instruction value for this type.

Type: String

Required: No

Document History

The following table describes the important changes to the *AWS Service Catalog Developer Guide*.

- **Current product version**: 2016-05-06
- **Latest documentation update**: May 24, 2016

Change	Description	Date
Preview release	Preview release of the *AWS Service Catalog Developer Guide*.	May 24, 2016

AWS Glossary

For the latest AWS terminology, see the AWS Glossary in the *AWS General Reference*.