

Service Quotas



Service Quotas: User Guide

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What is Service Quotas?

With Service Quotas, you can view and manage your quotas for Amazon Web Services from a central location. Quotas, also referred to as limits in Amazon Web Services, are the maximum values for the resources, actions, and items in your Amazon Web Services account. Each Amazon Web Service defines its quotas and establishes default values for those quotas. If your business needs aren't met by the default limit of service resources or operations that apply to an Amazon Web Services account, resource, or an Amazon Web Services Region, you might need to increase your service quota values. Service Quotas enables you to look up your service quotas and to request increases. Amazon Web Services Support might approve, deny, or partially approve your requests.

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- [Terminology in Service Quotas](#)
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Features of Service Quotas

Service Quotas provides the following features:

View your service quotas

The Service Quotas console provides quick access to the Amazon default quota values for your account, across all Amazon Web Services Regions. When you select a service in the Service Quotas console, you see the service's quotas and if that quota is adjustable at the Amazon Web Services account level. *Applied quotas* are overrides, or increases for a specific quota, over the Amazon default value.

Request a service quota increase

To see if a quota is adjustable, go into the console, navigate to Amazon Web Services, and select the service from the list. From the service's details page, view the **Adjustable** column.

Each adjustable quota says at which level the quota can be increased. For service quotas that are adjustable at the *account* level, you can use Service Quotas to request a quota increase.

You can also increase certain quotas at the *resource* level.

To request a quota increase in the Service Quotas console, select the service and the specific quota, and then choose **Request quota increase**. Increases do take some time to review, process, and approve. You can also use Service Quotas API operations or the Amazon CLI tools to request service quota increases.

View current utilization of resources

After your account becomes active for a period of time, you can view a graph of your resource utilization.

Terminology in Service Quotas

The following terms are important for understanding Service Quotas and how it works.

service quota

The maximum number of service resources or operations that apply to an Amazon Web Services account or an Amazon Web Services Region. The number of Amazon Identity and Access Management (IAM) roles per account is an example of an account-based quota. The number of virtual private clouds (VPCs) per Region is an example of a Region-based quota. To determine whether a service quota is Region-specific, check the description of the service quota.

adjustable value

A quota value that can be increased.

applied quota

The updated quota value after a quota increase.

default value

The initial quota value established by Amazon.

global quota

A service quota applied at an account level. Global quotas are available in all Amazon Web Services Regions. You can request an increase to a global quota only from US East (N. Virginia) for Public Amazon partition, Amazon GovCloud (US-West) for Amazon GovCloud (US) Regions, and China (Beijing) for Amazon China Regions.

usage

The number of resources or operations in use for a service quota.

utilization

The percentage of a service quota in use. For example, if the quota value is 200 resources and 150 resources are in use, then the utilization is 75 percent.

quota context info

A structure that describes the context for a resource-level quota. For resource-level quotas, such as `Instances per OpenSearch Service Domain`, you can apply the quota value at the resource-level for each OpenSearch Service Domain in your Amazon Web Services account. Together the attributes of this structure help you understand how the quota is implemented by Amazon and how you can manage it.

context ID

Specifies the resource, or resources, to which the quota applies. The value for this field is either an Amazon Resource Name (ARN) or `*`. If the value is an ARN, the quota value applies to that resource. If the value is `*`, then the quota value applies to all resources of that specific type.

context scope

Specifies the scope to which the quota value is applied.

context scope type

Specifies the resource type to which the quota can be applied.

quota applied at level

Filters an API response to return applied quota values at either the account level, resource level, or all levels.

quota requested at level

Filters an API response to return quota requests at either the account level, resource level, or all levels.

Accessing Service Quotas

You can work with Service Quotas in the following ways:

Amazon Web Services Management Console

[The Service Quotas console](#) is a browser-based interface that you can use to view and manage your service quotas. You can perform almost any task that's related to your service quotas by

using the console. You can access Service Quotas from any Amazon Web Services Management Console page by choosing it on the top navigation bar, or by searching for Service Quotas in the Amazon Web Services Management Console.

Amazon Command Line Interface tools

By using the Amazon Command Line Interface tools, you can issue commands at your system's command line to perform Service Quotas and other Amazon tasks. This can be a faster and more convenient approach than using the console. The command line tools also are useful if you want to build scripts that perform Amazon tasks.

Amazon provides two sets of command line tools: the [Amazon Command Line Interface](#) and the [Amazon Tools for Windows PowerShell](#). For information about installing and using the Amazon CLI, see the [Amazon Command Line Interface User Guide](#). For information about installing and using the Tools for Windows PowerShell, see the [Amazon Tools for Windows PowerShell User Guide](#).

You need Amazon CLI version 2.13.20 or higher to view and manage resource-level quotas such as `Instances per domain` for Amazon OpenSearch Service.

Amazon SDKs

The Amazon SDKs consist of libraries and sample code for various programming languages and platforms (for example, [Java](#), [Python](#), [Ruby](#), [.NET](#), [iOS and Android](#), and [others](#)). The SDKs include tasks such as cryptographically signing requests, managing errors, and retrying requests automatically. For more information about the Amazon SDKs, including how to download and install them, see [Tools for Amazon Web Services](#).

Getting started with Service Quotas

When you open the Service Quotas console, the dashboard displays cards for up to nine services. Each card lists the number of service quotas for the Amazon Web Service. Choosing a card opens a page that displays the quotas for the service. You can choose which services appear on the dashboard.

To modify the dashboard service cards

1. Sign in to the Amazon Web Services Management Console and open the Service Quotas console at <https://console.amazonaws.cn/servicequotas/home>.
2. On the dashboard, choose **Modify dashboard cards**.
3. The services that are currently selected appear on the right. If you have selected nine services, you must remove a service before you can add a different service. For each service that you don't need on the dashboard, choose **Remove**.
4. To add a service to the dashboard, select it from **Choose services**.
5. When you have finished adding and removing services, choose **Save**.

Next steps

- [Viewing service quotas](#)
- [Requesting a quota increase](#)

Viewing service quotas

Service Quotas enables you to look up the Amazon default value and applied values of a particular *quota*, also referred to as a *limit*. For certain resource-level quotas, such as Instances per domain for Amazon OpenSearch Service, you can also view the applied quota values per resource.

Your account's actual quota value may be less than the Amazon default quota value if the account was recently created or if you use the account minimally.

Amazon Management Console

To view the quotas for a service

1. Sign in to the Amazon Web Services Management Console and open the Service Quotas console at <https://console.amazonaws.cn/servicequotas/home>.
2. In the navigation pane, choose **Amazon services**.
3. Select an Amazon Web Service from the list, or type the name of the service in the search field. For each quota, the console displays the quota name, applied quota value, Amazon default quota value, utilization, and if the quota is adjustable, whether it's adjustable at the account or resource level. If the applied quota value or utilization is not available, the console displays **Not available**. You can request your applied quota value through the Support Center Console.
4. Choose the quota name to see the quota's details page. The console provides the quota's **Description, Quota code, Quota ARN, Utilization, Applied quota value, Amazon default quota value**, and if it's **Adjustable**.

If applicable, the console also displays the **Resource level quotas, Alarms, Request history, and Tags** for the quota.

Amazon CLI

Viewing default quota values

View the default values for the quotas for a specific Amazon Web Service.

- Call the [ListDefaultServiceQuotas](#) operation with a service code. If you don't have the service code, get the list of services supported by Service Quotas with the [ListServices](#) operation. The response includes the ServiceCode and ServiceName for each service.

The ServiceCode for Amazon OpenSearch Service is es. The following CLI example retrieves default values for Amazon OpenSearch Service quotas.

```
$ aws service-quotas list-aws-default-service-quotas \
  --service-code es \
{
  "Quotas": [
    {
      "QuotaName": "Domains per Region",
      "Adjustable": true,
      "QuotaArn": "arn:aws-cn:servicequotas:us-east-1::123456789012:es/
L-076D529E",
      "Value": 100.0,
      "ServiceName": "Amazon OpenSearch Service",
      "GlobalQuota": false,
      "ServiceCode": "es",
      "QuotaCode": "L-076D529E",
      "Unit": "None",
    },
    {
      "QuotaName": "Dedicated master instances per domain",
      "Adjustable": false,
      "QuotaArn": "arn:aws-cn:servicequotas:us-east-1::123456789012:es/L-
AE676A72",
      "Value": 5.0,
      "ServiceName": "Amazon OpenSearch Service",
      "GlobalQuota": false,
      "ServiceCode": "es",
      "QuotaCode": "L-AE676A72",
      "Unit": "None",
    },
    {
      "QuotaName": "Warm instances per domain",
      "Adjustable": false,
      "QuotaArn": "arn:aws-cn:servicequotas:us-east-1::123456789012:es/
L-1F053E6F",
      "Value": 150.0,
      "ServiceName": "Amazon OpenSearch Service",
      "GlobalQuota": false,
      "ServiceCode": "es",
      "QuotaCode": "L-1F053E6F",
      "Unit": "None",
    },
  ],
}
```

```

    {
      "QuotaName": "Instances per domain",
      "Adjustable": true,
      "QuotaArn": "arn:aws-cn:servicequotas:us-east-1::123456789012:es/
L-6408ABDE",
      "Value": 80.0,
      "ServiceName": "Amazon OpenSearch Service",
      "GlobalQuota": false,
      "ServiceCode": "es",
      "QuotaCode": "L-6408ABDE",
      "Unit": "None",
      "QuotaContext": {
        "ContextScope": "RESOURCE",
        "ContextScopeType":
"AWS::OpenSearchService::Domain",
      }
    }
  ]
}

```

Viewing applied quota values

View the applied quota values for a specified Amazon Web Service. For some quotas, only the default values are available. If the applied quota value isn't available for a quota, the quota is not returned in the response. If this happens, contact Amazon Web Services Support for the applied quota value.

- Call the [ListServiceQuotas](#) operation with a service code. You can choose to retrieve all applied quota values either at the account-level, resource-level, or all levels by passing ACCOUNT, RESOURCE, or ALL respectively as the value for the parameter `QuotaAppliedAtLevel`.

The following CLI example retrieves all quota values applied at the account-level for OpenSearch Service.

```

$ aws service-quotas list-service-quotas \
  --service-code es \
  --quota-applied-at-level ACCOUNT
{
  "Quotas": [
    {

```

```
    "QuotaName": "Domains per Region",
    "Adjustable": true,
    "QuotaArn": "arn:aws-cn:servicequotas:us-east-1::123456789012:es/
L-076D529E",
    "Value": 100.0,
    "QuotaAppliedAtLevel": "ACCOUNT",
    "ServiceName": "Amazon OpenSearch Service",
    "GlobalQuota": false,
    "ServiceCode": "es",
    "QuotaCode": "L-076D529E",
    "Unit": "None",
  },
  {
    "QuotaName": "Dedicated master instances per domain",
    "Adjustable": false,
    "QuotaArn": "arn:aws-cn:servicequotas:us-east-1::123456789012:es/L-
AE676A72",
    "Value": 5.0,
    "QuotaAppliedAtLevel": "ACCOUNT",
    "ServiceName": "Amazon OpenSearch Service",
    "GlobalQuota": false,
    "ServiceCode": "es",
    "QuotaCode": "L-AE676A72",
    "Unit": "None",
  },
  {
    "QuotaName": "Warm instances per domain",
    "Adjustable": false,
    "QuotaArn": "arn:aws-cn:servicequotas:us-east-1::123456789012:es/
L-1F053E6F",
    "Value": 150.0,
    "QuotaAppliedAtLevel": "ACCOUNT",
    "ServiceName": "Amazon OpenSearch Service",
    "GlobalQuota": false,
    "ServiceCode": "es",
    "QuotaCode": "L-1F053E6F",
    "Unit": "None",
  },
  {
    "QuotaName": "Instances per domain",
    "Adjustable": true,
    "QuotaArn": "arn:aws-cn:servicequotas:us-east-1::123456789012:es/
L-6408ABDE",
    "Value": 80.0,
```

```
    "QuotaAppliedAtLevel": "ACCOUNT",
    "ServiceName": "Amazon OpenSearch Service",
    "GlobalQuota": false,
    "ServiceCode": "es",
    "QuotaCode": "L-6408ABDE",
    "Unit": "None",
    "QuotaContext": {
        "ContextScope": "RESOURCE",
        "ContextScopeType":
"AWS::OpenSearchService::Domain",
        "ContextId": "*"
    }
}
]
```

Requesting a quota increase

For adjustable quotas, you can request a quota increase. You adjust applicable quotas at the *account* level or the *resource* level. Smaller increases are automatically approved, and larger requests are submitted to Amazon Web Services Support. Larger increase requests will take time to review, process, approve, and deploy. You can track your request case in the Amazon Web Services Support console. Requests to increase service quotas don't receive priority support. If you have an urgent request, contact Amazon Web Services Support.

Amazon Web Services Support can approve, deny, or partially approve your requests. If your quota increase request is denied, contact Amazon Web Services Support for assistance.

Note

You cannot use the Service Quotas console to request a quota decrease. Instead, use the Support Center Console to create a case. Some quotas, if you previously requested an increase, cannot be decreased.

Using the Amazon Management Console to request an increase

Increase your quotas at the account or resource level in the [Getting Started with the Amazon Web Services Management Console](#).

To request a service quota increase

1. Sign in to the Amazon Web Services Management Console and open the Service Quotas console at <https://console.amazonaws.cn/servicequotas/home>.
2. In the navigation pane, choose **Amazon services**.
3. Choose an Amazon Web Service from the list, or type the name of the service in the search box.
4. If the quota is adjustable, you can request a quota increase at either the account-level or resource-level based on the value listed in the **Adjustability** column.
 - **Account-level** – Request a quota increase at the account-level for an account-level quota such as `Domains per Region` for Amazon OpenSearch Service. To do so, choose the quota from the list and click **Request increase at account-level**.

- **Resource-level** – Request a quota increase for a specific resource for a resource-level quota such as Instances per domain for Amazon OpenSearch Service. To do so, click on the quota name to view additional information about the quota. Under the **Resource-level quotas** section, select the resource for which you want to increase the quota value, and choose the **Request increase at resource-level** button.
5. For **Increase quota value**, enter the new value. The new value must be greater than the current value.
 6. Choose **Request**.
 7. To view any pending or recently resolved requests in the console, navigate to the **Request history** tab from the service's details page, or choose **Dashboard** from the navigation pane. For pending requests, choose the status of the request to open the request receipt. The initial status of a request is **Pending**. After the status changes to **Quota requested**, you'll see the case number with Amazon Web Services Support. Choose the case number to open the ticket for your request.

Using the Amazon CLI to request a quota increase

Requesting a quota increase using the Amazon CLI requires you to provide Service Quotas with the necessary permission to create a support case on your behalf. You can provide this permission by attaching the [Amazon managed policy](#) `ServiceQuotasFullAccess` to your IAM principal or adding `iam:CreateServiceLinkedRole` [to your existing IAM policy](#).

Account-level increase request Amazon CLI

To request a quota increase at the account-level

The `RequestServiceQuotaIncrease` operation, which submits the request, requires the quota code for the quota. So begin by getting the quota code.

The following example commands show how to request a quota increase at the account-level for the Amazon OpenSearch Service.

1. Get the list of services supported by Service Quotas with the [ListServices](#) operation. The response includes the `ServiceCode` and `ServiceName` for each service. The `ServiceCode` for Amazon OpenSearch Service is `es`.
2. Get the list of Amazon OpenSearch Service quotas and their corresponding applied quota values at the account-level by calling the [ListServiceQuotas](#) operation with request

parameters `ServiceCode` as `es`, and `QuotaAppliedAtLevel` as `ACCOUNT`. The response includes the `QuotaName`, `QuotaCode`, `Value`, and `QuotaAppliedAtLevel` for each quota of the Amazon OpenSearch Service that is applied at the account-level. If the value in the `QuotaAppliedAtLevel` field is `ACCOUNT`, then the `Value` represents the Applied quota value at the account-level. The following CLI example retrieves the quota code for a OpenSearch Service quota.

```
$ aws service-quotas list-service-quotas \
  --service-code es \
  --quota-applied-at-level ACCOUNT
{
  "Quotas": [
    {
      "QuotaName": "Domains per Region",
      "Adjustable": true,
      "QuotaArn": "arn:aws-cn:servicequotas:us-east-1::123456789012:es/L-076D529E",
      "Value": 100.0,
      "QuotaAppliedAtLevel": "ACCOUNT",
      "ServiceName": "Amazon OpenSearch Service",
      "GlobalQuota": false,
      "ServiceCode": "es",
      "QuotaCode": "L-076D529E",
      "Unit": "None",
    },
    {
      "QuotaName": "Dedicated master instances per domain",
      "Adjustable": false,
      "QuotaArn": "arn:aws-cn:servicequotas:us-east-1::123456789012:es/L-AE676A72",
      "Value": 5.0,
      "QuotaAppliedAtLevel": "ACCOUNT",
      "ServiceName": "Amazon OpenSearch Service",
      "GlobalQuota": false,
      "ServiceCode": "es",
      "QuotaCode": "L-AE676A72",
      "Unit": "None",
    },
    {
      "QuotaName": "Warm instances per domain",
      "Adjustable": false,
```

```

        "QuotaArn": "arn:aws-cn:servicequotas:us-east-1::123456789012:es/
L-1F053E6F",
        "Value": 150.0,
        "QuotaAppliedAtLevel": "ACCOUNT",
        "ServiceName": "Amazon OpenSearch Service",
        "GlobalQuota": false,
        "ServiceCode": "es",
        "QuotaCode": "L-1F053E6F",
        "Unit": "None",
    },
    {
        "QuotaName": "Instances per domain",
        "Adjustable": true,
        "QuotaArn": "arn:aws-cn:servicequotas:us-east-1::123456789012:es/
L-6408ABDE",
        "Value": 80.0,
        "QuotaAppliedAtLevel": "ACCOUNT",
        "ServiceName": "Amazon OpenSearch Service",
        "GlobalQuota": false,
        "ServiceCode": "es",
        "QuotaCode": "L-6408ABDE",
        "Unit": "None",
        "QuotaContext": {
            "ContextScope": "RESOURCE",
            "ContextScopeType":
"AWS::OpenSearchService::Domain",
            "ContextId": "*"
        }
    }
]
}

```

3. Next, call the [RequestServiceQuotaIncrease](#) operation and specify the QuotaCode in the request parameter.

The following example requests an increase at the account-level in the Instances per domain quota to 100. It uses the required quota code, L-6408ABDE, to identify the quota. If the command completes successfully, the Status field in the response displays the current status of the request. The QuotaRequestedAtLevel field in the response specifies that this request applies to the account-level.

Note

You can't request a quota increase at the account-level for a resource-level quota through the Amazon CLI. This operation results in the creation of a support case where you can provide the ARN to specify the resource on which the new quota value should apply. However, the `Instances per domain` quota for Amazon OpenSearch Service is an exception.

```
$ aws service-quotas request-service-quota-increase \
  --service-code es \
  --quota-code L-6408ABDE \
  --desired-value 100
{
  "RequestedQuota": {
    "QuotaName": "Instances per domain",
    "Status": "PENDING",
    "DesiredValue": 100,
    "Created": 1580446904.067,
    "QuotaArn": "arn:aws-cn:servicequotas:us-east-1::123456789012:es/
L-6408ABDE",
    "ServiceName": "Amazon OpenSearch Service",
    "GlobalQuota": false,
    "ServiceCode": "es",
    "QuotaCode": "L-6408ABDE",
    "Requester": "{\"accountId\":\"123456789012\",\"callerArn\":\"arn:aws-
cn:iam::123456789012:root\"}",
    "QuotaRequestedAtLevel": "ACCOUNT"
    "Id": "a12345",
    "Unit": "None"
    "QuotaContext": {
      "ContextId": "*"
      "ContextScopeType": "AWS::OpenSearchService::Domain",
      "ContextScope": "RESOURCE",
    }
  }
}
```

4. To get the updated status of the request, use the [GetRequestedServiceQuotaChange](#), [ListRequestedServiceQuotaChangeHistory](#) or [ListRequestedServiceQuotaChangeHistoryByQuota](#) operations.

Resource-level quota increase request Amazon CLI

To request a quota increase at the resource-level

The `RequestServiceQuotaIncrease` operation, which submits the request, requires the quota code for the quota. So begin by getting the quota code. To request a quota increase for a specific resource, use the Amazon Resource Name (ARN) `ResourceARN` as the value for the `ContextId` parameter when you make your request.

The following example commands show how to request a resource-level quota increase for the OpenSearch Service.

1. Get the list of services supported by Service Quotas with the [ListServices](#) operation. The response includes the `ServiceCode` and `ServiceName` for each service. The `ServiceCode` for Amazon OpenSearch Service is `es`.
2. Get the list of Amazon OpenSearch Service quotas and their corresponding applied quota values at the resource-level by calling the [ListServiceQuotas](#) operation with request parameters `ServiceCode` as `es`, and `QuotaAppliedAtLevel` as `RESOURCE`. The response includes the `QuotaName`, `QuotaCode`, `Value`, and `QuotaAppliedAtLevel` for each quota of the Amazon OpenSearch Service that is applied at the resource-level. If the value in the `QuotaAppliedAtLevel` field is `RESOURCE`, then the `Value` represents the Applied quota value at the resource-level. In this case, the response for this quota will also contain the `QuotaContext` structure which further specifies the `ContextId` or the ARN to which the quota value is applied. The following CLI example retrieves the quota code for a OpenSearch Service quota.

```
$ aws service-quotas list-service-quotas \
  --service-code es \
  --quota-applied-at-level RESOURCE
{
  "Quotas": [
    {
      "QuotaName": "Instances per domain",
      "Adjustable": true,
```

```

        "QuotaArn": "arn:aws-cn:servicequotas:us-east-1::123456789012:es/
L-6408ABDE",
        "Value": 100.0,
        "QuotaAppliedAtLevel": "RESOURCE",
        "ServiceName": "Amazon OpenSearch Service",
        "GlobalQuota": false,
        "ServiceCode": "es",
        "QuotaCode": "L-6408ABDE",
        "Unit": "None",
        "QuotaContext": {
            "ContextScope": "RESOURCE",
            "ContextScopeType":
"AWS::OpenSearchService::Domain",
            "ContextId": "arn:aws-cn:esus-
east-1:123456789012:domain/opensearch-domain-1",
        }
    },
    {
        "QuotaName": "Instances per domain",
        "Adjustable": true,
        "QuotaArn": "arn:aws-cn:servicequotas:us-east-1::123456789012:es/
L-6408ABDE",
        "Value": 100.0,
        "QuotaAppliedAtLevel": "RESOURCE",
        "ServiceName": "Amazon OpenSearch Service",
        "GlobalQuota": false,
        "ServiceCode": "es",
        "QuotaCode": "L-6408ABDE",
        "Unit": "None",
        "QuotaContext": {
            "ContextScope": "RESOURCE",
            "ContextScopeType":
"AWS::OpenSearchService::Domain",
            "ContextId": "arn:aws-cn:esus-
east-1:123456789012:domain/opensearch-domain-2",
        }
    }
]
}

```

- Next, call the [RequestServiceQuotaIncrease](#) operation and specify the ServiceCode, QuotaCode, ContextId, and DesiredValue request parameters.

The following example requests an increase in the Instances per domain quota to 100 for a specific Amazon OpenSearch Service domain with the ARN as `arn:aws-cn:es:us-east-1:123456789012:domain/opensearch-domain-1`. If the command completes successfully, the Status field in the response displays the current status of the request. QuotaRequestedAtLevel field in the response contains the value RESOURCE which specifies that this request is for a specific resource.

```
$ aws service-quotas request-service-quota-increase \
  --service-code es \
  --quota-code L-6408ABDE \
  --desired-value 200 \
  --context-id arn:aws-cn:es:us-east-1:123456789012:domain/opensearch-
domain-1
{
  "RequestedQuota": {
    "QuotaName": "Instances per domain",
    "Status": "PENDING",
    "DesiredValue": 200.0,
    "Created": 1580446904.067,
    "QuotaArn": "arn:aws-cn:servicequotas:us-east-1:123456789012:es/
L-6408ABDE",
    "ServiceName": "Amazon OpenSearch Service",
    "GlobalQuota": false,
    "ServiceCode": "es",
    "QuotaCode": "L-6408ABDE",
    "Requester": "{\"accountId\":\"123456789012\",\"callerArn\":\"arn:aws-
cn:iam:123456789012:root\"}",
    "QuotaRequestedAtLevel": "RESOURCE",
    "Id": "a12345",
    "Unit": "None"
    "QuotaContext": {
      "ContextId": "arn:aws-cn:es:us-
east-1:123456789012:domain/opensearch-domain-1"
      "ContextScopeType": "AWS::OpenSearchService::Domain",
      "ContextScope": "RESOURCE",
    }
  }
}
```

- To get the updated status of the request, use the [GetRequestedServiceQuotaChange](#), [ListRequestedServiceQuotaChangeHistory](#) or [ListRequestedServiceQuotaChangeHistoryByQuota](#) operations.

After the request is resolved, the **Applied quota value** for the quota is set to the new value.

View quota request history

View your quota request history in the Service Quotas console. The console displays all open quota increase requests as well as quota requests closed in the last 90 days.

Note

Some Amazon Web Services might be available only in certain Regions. If you have quota increase requests in different Regions, be sure to select the appropriate Region first.

Using the Amazon Management Console

To view the quota request history

- Sign in to the Amazon Web Services Management Console and open the Service Quotas console at <https://console.amazonaws.cn/servicequotas/home>.
- To view any pending or recently resolved requests, choose **Quota request history** from the navigation pane.

The **Recent quota increase requests** panel displays information about your open recent quota increase requests and any requests closed within 90 days.

Service	Quota name	Status	Requested quota value	Request date	Last updated date
Amazon Elastic Compute Cloud (Amazon EC2)	EC2-Classical Elastic IPs	Closed	10	Jan 24, 2022	Jan 24, 2022

- Service** – Displays the service name selected for the request.
- Quota name** – Displays the quota name selected for the quota increase.

- **Status** – Displays the status of a request for a quota increase.

You may see the following types of status:

- **Requested** — Amazon received your quota increase request.
- **Pending** – Quota increase request is under review by Amazon.
- **Case_Opened** – Service Quotas has opened a support case to process the request. Please follow-up on the support case for more information.
- **Approved** – Quota increase request is approved.
- **Denied** – Quota increase request can't be approved by Service Quotas. Please contact Amazon Web Services Support for more details.
- **Not_Approved** – Quota increase request can't be approved by Service Quotas. Please contact Amazon Web Services Support for more details.
- **Case_Closed** – The support case associated with this request was closed. Check the support case correspondence for more information.
- **Invalid_Request** – Service Quotas can't process your resource-level quota increase request because the ResourceARN specified as part of the ContextId attribute is invalid.
- **Requested quota value** – The increased quota value you requested for the quota.
- **Request date** – The date you requested the quota increase.
- **Last updated date** – The last date the request received an update.

View details about a service, quota name, and status in the **Quota request history** table by choosing one of the entries.

Using Amazon CLI

To view the quota request history

- The `ListRequestedServiceQuotaChangeHistory` operation, which submits the request, requires a `QuotaRequestedAtLevel` parameter. The following CLI example is for all resource and account level requests.

```
$ aws servicequotas list-requested-service-quota-change-history \
  --quota-applied-at-level ALL
{
  "RequestedQuotas": [
    {
      "QuotaName": "Instances per domain",
```



```

    "Status": "PENDING",
    "DesiredValue": 200.0,
    "Created": 1580446904.067,
    "QuotaArn": "arn:aws-cn:servicequotas:us-east-1:123456789012:es/
L-6408ABDE",
    "ServiceName": "Amazon OpenSearch Service",
    "GlobalQuota": false,
    "ServiceCode": "es",
    "QuotaCode": "L-6408ABDE",
    "Requester": "{\"accountId\":\"123456789012\",\"callerArn\":\"arn:aws-
cn:iam::123456789012:root\"}",
    "QuotaRequestedAtLevel": "RESOURCE",
    "Id": "a12345",
    "Unit": "None"
    "QuotaContext": {
        "ContextId": "arn:aws-cn:es:us-
east-1:123456789012:domain/opensearch-domain-1"
        "ContextScopeType": "AWS::OpenSearchService::Domain",
        "ContextScope": "RESOURCE"
    }
},
{
    "QuotaName": "Instances per domain",
    "Status": "PENDING",
    "DesiredValue": 200.0,
    "Created": 1580446904.067,
    "QuotaArn": "arn:aws-cn:servicequotas:us-east-1:123456789012:es/
L-6408ABDE",
    "ServiceName": "Amazon OpenSearch Service",
    "GlobalQuota": false,
    "ServiceCode": "es",
    "QuotaCode": "L-6408ABDE",
    "Requester": "{\"accountId\":\"123456789012\",\"callerArn\":\"arn:aws-
cn:iam::123456789012:root\"}",
    "QuotaRequestedAtLevel": "RESOURCE",
    "Id": "a12345",
    "Unit": "None"
    "QuotaContext": {
        "ContextId": "arn:aws-cn:es:us-
east-1:123456789012:domain/opensearch-domain-2",
        "ContextScopeType": "AWS::OpenSearchService::Domain",
        "ContextScope": "RESOURCE"
    }
},

```

```

    {
      "QuotaName": "Domains per Region",
      "Status": "PENDING",
      "DesiredValue": 120.0,
      "Created": 1580446904.067,
      "Adjustable": true,
      "QuotaArn": "arn:aws:servicequotas:us-east-1::123456789012:es/
L-076D529E",
      "ServiceName": "Amazon OpenSearch Service",
      "GlobalQuota": false,
      "ServiceCode": "es",
      "QuotaCode": "L-076D529E",
      "Requester": "{\"accountId\":\"123456789012\",\"callerArn\":
\\\"arn:aws-cn:iam::123456789012:root\\\"}"
      "QuotaRequestedAtLevel": "ACCOUNT",
      "Id": "a123456",
      "Unit": "None",
    },
    {
      "QuotaName": "Instances per domain",
      "Status": "PENDING"
      "DesiredValue": 300.0,
      "Created": 1580446904.067,
      "QuotaArn": "arn:aws:servicequotas:us-east-1::123456789012:es/
L-6408ABDE",
      "ServiceName": "Amazon OpenSearch Service",
      "GlobalQuota": false,
      "ServiceCode": "es",
      "QuotaCode": "L-6408ABDE",
      "Requester": "{\"accountId\":\"123456789012\",\"callerArn\":
\\\"arn:aws-cn:iam::123456789012:root\\\"}"
      "QuotaRequestedAtLevel": "ACCOUNT",
      "Id": "a1234567",
      "Unit": "None",
      "QuotaContext": {
        "ContextId": "*",
        "ContextScopeType":
"AWS::OpenSearchService::Domain",
        "ContextScope": "RESOURCE"
      }
    }
  ]
}

```

Tagging resources in Service Quotas

A *tag* is a custom attribute label that you add to an Amazon resource to make it easier to identify, organize, and search for resources. Each tag has two parts:

- A *tag key*, such as `CostCenter`, `Environment`, or `Project`. Tag keys are case sensitive.
- A *tag value*, such as `111122223333` or `Production`. You can set the value of a tag to an empty string, but you can't set the value of a tag to null. Omitting the tag value is the same as using an empty string. Like tag keys, tag values are case sensitive.

You can use tags to categorize resources by purpose, owner, environment, or other criteria.

Tags help you do the following:

- Identify and organize your Amazon resources. Many Amazon Web Services support tagging, so you can assign the same tag to resources from different services to indicate that the resources are related.
- Track your Amazon costs. You activate these tags on the Amazon Billing and Cost Management dashboard. Amazon uses the tags to categorize your costs and deliver a monthly cost allocation report to you. For more information, see [Use cost allocation tags](#) in the [Amazon Billing User Guide](#).
- Control access to your Amazon resources. For more information, see [Controlling access using tags](#) in the [IAM User Guide](#).

Topics

- [Resources that support tagging in Service Quotas](#)
- [Tag restrictions](#)
- [Permissions required for tagging Service Quotas resources](#)
- [Managing Service Quotas tags \(console\)](#)
- [Managing Service Quotas tags \(Amazon CLI\)](#)
- [Managing Service Quotas tags \(Amazon API\)](#)
- [Controlling access using Service Quotas tags](#)

Resources that support tagging in Service Quotas

Service Quotas supports tagging **Applied quotas**. Applied quotas are previously requested quota increases approved by Amazon Web Services Support.

Important

You can tag quotas only if they have an applied quota value. Quotas with default quota values can't be tagged.

Don't store personally identifiable information (PII) or other confidential or sensitive information in tags. Tags aren't intended to be used for private or sensitive data.

Tag restrictions

The following restrictions apply to tags on Service Quotas resources:

- Maximum number of tags that you can assign to a resource – 50
- Maximum key length – 128 Unicode characters
- Maximum value length – 256 Unicode characters
- Valid characters for key and value – a-z, A-Z, 0-9, space, and the following characters: `_ . : / = + -` and `@`
- Tag keys and values are case sensitive.
- Don't use `aws :` as a prefix for tag keys. It is reserved for Amazon use.

Permissions required for tagging Service Quotas resources

You must configure permissions to allow your users or roles to manage tags in Service Quotas. The permissions that are required to administer tags usually correspond to the API operations for the task.

To allow IAM principles, such as roles or users, to use Service Quotas for tagging operations, attach the [ServiceQuotasReadOnlyAccessAmazon managed policy](#) to the principals.

- To add tags to applied quotas, you must have the following permissions:

`servicequotas:ListTagsForResource`

`servicequotas:TagResource`

- To view tags for an applied quota, you must have the following permissions:

`servicequotas:ListTagsForResource`

- To remove existing tags from an applied quota, you must have the following permissions:

`servicequotas:UntagResource`

- To edit existing tag values for applied quotas, you must have the following permissions:

`servicequotas:ListTagsForResource`

`servicequotas:TagResource`

`servicequotas:UntagResource`

Managing Service Quotas tags (console)

You can manage Service Quotas tags by using the Amazon Web Services Management Console.

1. Sign in to the Amazon Web Services Management Console and open the Service Quotas console at <https://console.amazonaws.cn/servicequotas/home>.
2. In the navigation page, choose **Amazon services**.
3. Choose an Amazon Web Service from the list, or type the name of the service in the search box.
4. Choose a service that has a value in the **Applied quota value** column.
5. In the **Tags** section, choose **Manage tags**. This option is not available for quotas that don't have an applied quota value.
6. You can add or remove tags, or you can edit tag values for existing tags. Enter a name for the tag in **Key**. You can add an optional value for the tag in **Value**.
7. After making all of your changes to tags, choose **Save changes**.

If the operation is successful, you return to the quota details page where you can verify your changes. If the operation fails, please follow the instructions in the error message to resolve it.

Managing Service Quotas tags (Amazon CLI)

You can manage Service Quotas tags by using the Amazon Command Line Interface (Amazon CLI).

- To add tags to applied quotas

```
aws service-quotas tag-resource
```

- To view tags for an applied quota

```
aws service-quotas list-tags-for-resource
```

- To delete existing tag values for applied quotas

```
aws service-quotas untag-resource
```

Managing Service Quotas tags (Amazon API)

You can manage Service Quotas tags by using the Service Quotas API.

- To add tags to applied quotas

[TagResource](#)

- To view tags for an applied quota

[ListTagsForResource](#)

- To delete existing tag values for applied quotas

[UntagResource](#)

Controlling access using Service Quotas tags

To control access to Service Quotas resources based on tags, you provide tag information in the [condition element](#) of a policy using the `aws:ResourceTag/key-name`, `aws:RequestTag/key-name`, or `aws:TagKeys` condition keys. For more information about these condition keys, see [Controlling access to Amazon resources using resource tags](#) in the *IAM User Guide*.

For example, when you attach the following policy to an Amazon Identity and Access Management (IAM) role or user, that principal can request an increase to Amazon Athena applied quotas that are tagged with the tag key **Owner** and tag value **admin**.

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": ["servicequotas:RequestServiceQuotaIncrease"],
      "Resource": "arn:aws:servicequotas:*:*:athena/*",
      "Condition": {
        "StringEquals": {"aws:ResourceTag/Owner": "admin"}
      }
    }
  ]
}
```

You can also attach tags to IAM principals to use attribute-based access control (ABAC). ABAC is an authorization strategy that defines permissions based on attributes. Tagging entities and resources is the first step of ABAC. Then you design ABAC policies to allow operations when the principal's tag matches the tag on the resource that they're trying to access. ABAC is helpful in environments that are growing rapidly and helps with situations where policy management becomes cumbersome.

For more information about ABAC, see [What is ABAC?](#) in the *IAM User Guide*. To view a tutorial with steps for setting up ABAC, see [IAM tutorial: Define permissions to access Amazon resources based on tags](#) in the *IAM User Guide*.

Using Service Quotas request templates

Note

You can use quota request templates only with Amazon Web Services accounts that are members of an organization managed by Amazon Organizations.

A *quota request template* helps you save time when customizing quotas for new Amazon Web Services accounts in your organization. To use a template, configure the desired service quota increases for new accounts. Then, enable template association. This associates the template with your organization in Amazon Organizations. Whenever new accounts are created in your organization, the template automatically requests quota increases for you.

To use a request template, you must use Amazon Organizations and the new accounts must be created in the same organization. Your organization must have all features enabled, [all features](#). If you use consolidated billing features only, you can't use quota request templates.

You can update the request template by adding or removing service quotas. You can also increase the values for adjustable quotas. As soon as you adjust the template, those service quota values are requested for new accounts. Updating a request template doesn't update quota values for existing accounts.

To enable template association

1. Sign in to the Amazon Web Services Management Console and open the Service Quotas console at <https://console.amazonaws.cn/servicequotas/home>.
2. In the navigation pane, expand **Organization**, and then choose **Quota request template**.
3. In the **Template association** section, choose **Enable**.

To add a quota to your request template

1. Sign in to the Amazon Web Services Management Console and open the Service Quotas console at <https://console.amazonaws.cn/servicequotas/home>.
2. In the navigation pane, expand **Organization**, and then choose **Quota request template**.
3. In the **Added quotas** section, choose **Add quota**.

Note

You add up to 10 quotas to your request template.

4. On the **Add quota** page, choose a **Region, Service, Quota**, and **Desired quota value**, and then choose **Add**.

To remove a quota from your request template

You can remove service quota requests from the template regardless of whether the template is associated with an organization. If you reach the maximum number of service quota requests, you might need to remove some quotas from your request template.

1. Sign in to the Amazon Web Services Management Console and open the Service Quotas console at <https://console.amazonaws.cn/servicequotas/home>.
2. In the navigation pane, expand **Organization**, and then choose **Quota request template**.
3. In the **Added quotas** section, select the option button for the quota that you want to remove.
4. Choose **Remove**.

To disable the template association

If you disable the automatic template association, new accounts receive the Amazon default quota values for all quotas. Disabling the template association from the organization doesn't delete the service quota requests from the template. You can continue to edit the service quotas in the template.

1. Sign in to the Amazon Web Services Management Console and open the Service Quotas console at <https://console.amazonaws.cn/servicequotas/home>.
2. In the navigation pane, expand **Organization**, and then choose **Quota request template**.
3. In the **Template association** section, choose **Disable**.

Security in Service Quotas

Cloud security at Amazon is the highest priority. As an Amazon customer, you benefit from data centers and network architectures that are built to meet the requirements of the most security-sensitive organizations.

Security is a shared responsibility between Amazon and you. The [shared responsibility model](#) describes this as security *of* the cloud and security *in* the cloud:

- **Security of the cloud** – Amazon is responsible for protecting the infrastructure that runs Amazon Web Services in the Amazon Web Services Cloud. Amazon also provides you with services that you can use securely. Third-party auditors regularly test and verify the effectiveness of our security as part of the [Amazon Compliance Programs](#). To learn about the compliance programs that apply to Service Quotas, see [Amazon Services in Scope by Compliance Program](#).
- **Security in the cloud** – Your responsibility is determined by the Amazon Web Service that you use. You are also responsible for other factors including the sensitivity of your data, your company's requirements, and applicable laws and regulations.

This documentation helps you understand how to apply the shared responsibility model when using Service Quotas. The following topics show you how to configure Service Quotas to meet your security and compliance objectives. You also learn how to use other Amazon Web Services that help you to monitor and secure your Service Quotas resources.

Contents

- [Data protection in Service Quotas](#)
- [Logging and monitoring Service Quotas](#)
- [Identity and access management in Service Quotas](#)
- [Compliance validation for Service Quotas](#)
- [Resilience in Service Quotas](#)
- [Infrastructure security in Service Quotas](#)

Data protection in Service Quotas

The Amazon [shared responsibility model](#) applies to data protection in Service Quotas. As described in this model, Amazon is responsible for protecting the global infrastructure that runs all of

the Amazon Web Services Cloud. You are responsible for maintaining control over your content that is hosted on this infrastructure. You are also responsible for the security configuration and management tasks for the Amazon Web Services that you use. For more information about data privacy, see the [Data Privacy FAQ](#).

For data protection purposes, we recommend that you protect Amazon Web Services account credentials and set up individual users with Amazon IAM Identity Center or Amazon Identity and Access Management (IAM). That way, each user is given only the permissions necessary to fulfill their job duties. We also recommend that you secure your data in the following ways:

- Use multi-factor authentication (MFA) with each account.
- Use SSL/TLS to communicate with Amazon resources. We require TLS 1.2 and recommend TLS 1.3.
- Set up API and user activity logging with Amazon CloudTrail.
- Use Amazon encryption solutions, along with all default security controls within Amazon Web Services.
- Use advanced managed security services such as Amazon Macie, which assists in discovering and securing sensitive data that is stored in Amazon S3.
- If you require FIPS 140-2 validated cryptographic modules when accessing Amazon through a command line interface or an API, use a FIPS endpoint. For more information about the available FIPS endpoints, see [Federal Information Processing Standard \(FIPS\) 140-2](#).

We strongly recommend that you never put confidential or sensitive information, such as your customers' email addresses, into tags or free-form text fields such as a **Name** field. This includes when you work with Service Quotas or other Amazon Web Services using the console, API, Amazon CLI, or Amazon SDKs. Any data that you enter into tags or free-form text fields used for names may be used for billing or diagnostic logs. If you provide a URL to an external server, we strongly recommend that you do not include credentials information in the URL to validate your request to that server.

Logging and monitoring Service Quotas

Overview

Monitoring is an important part of maintaining the reliability, availability, and performance of Service Quotas and your other Amazon solutions. Amazon provides the following monitoring

tools to watch Service Quotas, report when something is wrong, and take automatic actions when appropriate:

- *Amazon CloudTrail* captures API calls and related events made by or on behalf of your Amazon Web Services account and delivers the log files to an Amazon S3 bucket that you specify. You can identify which users and accounts called Amazon, the source IP address from which the calls were made, and when the calls occurred. For more information, see the [Amazon CloudTrail User Guide](#).
- *Amazon CloudWatch* monitors your Amazon resources and the applications you run on Amazon in real time. You can collect and track metrics, create customized dashboards, and set alarms that notify you or take actions when a specified metric reaches a threshold that you specify. For example, you can have CloudWatch track CPU usage or other metrics of your Amazon EC2 instances and automatically launch new instances when needed. For more information, see the [Amazon CloudWatch User Guide](#).

Logging Service Quotas API calls using Amazon CloudTrail

Service Quotas is integrated with Amazon CloudTrail, a service that provides a record of actions taken by a user, role, or an Amazon Web Service in Service Quotas. CloudTrail captures all API calls for Service Quotas as events. The calls captured include calls from the Service Quotas console and code calls to the Service Quotas API operations. If you create a trail, you can enable continuous delivery of CloudTrail events to an Amazon S3 bucket, including events for Service Quotas. If you don't configure a trail, you can still view the most recent events in the CloudTrail console in **Event history**. Using the information collected by CloudTrail, you can determine the request that was made to Service Quotas, the IP address from which the request was made, who made the request, when it was made, and additional details.

To learn more about CloudTrail, see the [Amazon CloudTrail User Guide](#).

Service Quotas information in CloudTrail

CloudTrail is enabled on your Amazon Web Services account when you create the account. When activity occurs in Service Quotas, that activity is recorded in a CloudTrail event along with other Amazon Web Service events in **Event history**. You can view, search, and download recent events in your Amazon Web Services account. For more information, see [Viewing events with CloudTrail Event history](#).

For an ongoing record of events in your Amazon Web Services account, including events for Service Quotas, create a trail. A *trail* enables CloudTrail to deliver log files to an Amazon S3 bucket. By default, when you create a trail in the console, the trail applies to all Amazon Web Services Regions. The trail logs events from all Regions in the Amazon partition and delivers the log files to the Amazon S3 bucket that you specify. Additionally, you can configure other Amazon Web Services to further analyze and act upon the event data collected in CloudTrail logs. For more information, see the following:

- [Overview for creating a trail](#)
- [CloudTrail supported services and integrations](#)
- [Configuring Amazon SNS notifications for CloudTrail](#)
- [Receiving CloudTrail log files from multiple regions](#) and [Receiving CloudTrail log files from multiple accounts](#)

All Service Quotas actions are logged by CloudTrail and are documented in the [Service Quotas API Reference](#). For example, calls to the `GetServiceQuota`, `RequestServiceQuotaIncrease` and `ListAWSDefaultServiceQuotas` actions generate entries in the CloudTrail log files.

Every event or log entry contains information that helps you determine who made the request.

- Amazon account root credentials.
- Temporary security credentials from an Amazon Identity and Access Management role or federated user.
- Long-term security credentials from an IAM user.
- Another Amazon Web Service.

For more information, see the [CloudTrail userIdentity element](#).

Understanding Service Quotas log file entries

A trail is a configuration that enables delivery of events as log files to an Amazon S3 bucket that you specify. CloudTrail log files contain one or more log entries. An event represents a single request from any source and includes information about the requested action, the date and time of the action, request parameters, and so on. CloudTrail log files aren't an ordered stack trace of the public API calls, so they don't appear in any specific order.

The following example shows a CloudTrail log entry that demonstrates the RequestQuotaIncrease action.

```
{
  "eventVersion": "1.08",
  "userIdentity": {
    "type": "IAMUser",
    "principalId": "AIDA123456789012Example",
    "arn": "arn:aws:iam::123456789012:user/admin",
    "accountId": "123456789012",
    "accessKeyId": "AKIAIOSFODNN7EXAMPLE",
    "userName": " admin",
    "sessionContext": {
      "sessionIssuer": {},
      "webIdFederationData": {},
      "attributes": {
        "creationDate": "2022-01-24T16:57:04Z",
        "mfaAuthenticated": "true"
      }
    }
  },
  "eventTime": "2022-01-24T17:00:15Z",
  "eventSource": "servicequotas.amazonaws.com",
  "eventName": "RequestServiceQuotaIncrease",
  "awsRegion": "us-east-1",
  "sourceIPAddress": "172.21.16.1",
  "userAgent": "aws-internal/3 aws-sdk-java/1.12.127
Linux/5.4.147-83.259.amzn2int.x86_64 OpenJDK_64-Bit_Server_VM/25.312-b07
java/1.8.0_312 vendor/Oracle_Corporation cfg/retry-mode/standard",
  "requestParameters": {
    "serviceCode": "ec2",
    "quotaCode": "L-CEED54BB",
    "desiredValue": 10
  },
  "responseElements": {
    "requestedQuota": {
      "id": "cd3ad3d9-2776-4ef1-a904-4c229d1642ee",
      "serviceCode": "ec2",
      "serviceName": "Amazon Elastic Compute Cloud (Amazon EC2)",
      "quotaCode": "L-CEED54BB",
      "quotaName": "EC2-Classic Elastic IPs",
      "desiredValue": 10,
      "status": "PENDING",
```

```

        "created": "Jan 24, 2022 5:00:15 PM",
        "requester": "{\"accountId\":\"123456789012\", \"callerArn\": \"arn:aws-cn:iam::123456789012:user/admin\"}",
        "quotaArn": "arn:aws-cn:servicequotas:us-east-1:123456789012:ec2/L-CEED54BB",
        "globalQuota": false,
        "unit": "None"
    }
},
"requestID": "3d3f5cdc-af30-4121-b69a-84b2f5c33be5",
"eventID": "0cb51588-e460-4e00-bc48-a9d4820cad83",
"readOnly": false,
"eventType": "AwsApiCall",
"managementEvent": true,
"recipientAccountId": "123456789012",
"eventCategory": "Management"
}

```

This example shows that the user named `admin` generated a request for additional Amazon Elastic Compute Cloud Elastic IP addresses on January 24, 2022. The requested increase was 10, an increase of 5 from the default quota of 5.

The following is an example of an approved quota increase in Service Quotas:

```

{
  "eventVersion": "1.08",
  "userIdentity": {
    "accountId": "123456789012",
    "invokedBy": "servicequotas.amazonaws.com"
  },
  "eventTime": "2022-01-24T17:02:17Z",
  "eventSource": "servicequotas.amazonaws.com",
  "eventName": "UpdateServiceQuotaIncreaseRequestStatus",
  "awsRegion": "us-east-1",
  "sourceIPAddress": "servicequotas.amazonaws.com",
  "userAgent": "servicequotas.amazonaws.com",
  "requestParameters": null,
  "responseElements": null,
  "eventID": "e331b0a0-9395-4895-aeba-73cbab9ebcb0",
  "readOnly": false,
  "eventType": "AwsServiceEvent",
  "managementEvent": true,
  "recipientAccountId": "123456789012",

```

```
"serviceEventDetails": {
  "requestId": "cdc5f1f78739459e6642407bb2bZK08GKUM",
  "newStatus": "CASE_CLOSED",
  "createTime": "2022-01-24T17:00:15.363Z",
  "newQuotaValue": "10.0",
  "serviceName": "Amazon Elastic Compute Cloud (Amazon EC2)",
  "quotaName": "EC2-Classic Elastic IPs",
  "unit": "None"
},
"eventCategory": "Management"
}
```

From the `serviceEventDetails` section, you can determine that Amazon Web Services Support approved the request for a quota increase to 10 Elastic IP addresses, and closed the request. The `newQuotaValue` displays 10 as the new quota.

Service Quotas and Amazon CloudWatch alarms

You can create Amazon CloudWatch alarms to notify you when you're close to a quota value threshold. Setting an alarm can help alert you if you need to request a quota increase.

To create a CloudWatch alarm for a quota

1. Sign in to the Amazon Web Services Management Console and open the Service Quotas console at <https://console.amazonaws.cn/servicequotas/home>.
2. In the navigation pane, choose **Amazon services** and then select a service.
3. Select a quota that supports CloudWatch alarms.

If you actively use the quota, utilization appears beneath the quota description. If CloudWatch alarms are supported, the CloudWatch alarms section appears at the bottom of the page.

4. In **Amazon CloudWatch alarms**, choose **Create**.
5. For **Alarm threshold**, choose a threshold.
6. For **Alarm name**, enter a name for the alarm. This name must be unique within the Amazon Web Services account.
7. Choose **Create**.

Note

To add a notification to the CloudWatch alarm, see [Creating a CloudWatch alarm based on a static threshold](#) in the *Amazon CloudWatch User Guide*.

To delete a CloudWatch alarm

1. Choose the service quota with the alarm.
2. Select the alarm.
3. Choose **Delete**.

Identity and access management in Service Quotas

Amazon uses security credentials to identify you and to grant you access to your Amazon resources. You can use features of Amazon Identity and Access Management (IAM) to allow other users, services, and applications to use your Amazon resources fully or in a limited way. You can do this without sharing your security credentials.

By default, principals, such as IAM roles or users, don't have permission to create, view, or modify Amazon resources. To allow a principal to access resources such as a load balancer, and to perform tasks, perform the following steps:

1. Create an IAM policy that grants the principal permission to use the specific resources and API actions they need.
2. Attach the policy to the IAM principal or the group that the principal belongs to.

When you attach a policy to a user or group of users, it allows or denies the users permission to perform the specified tasks on the specified resources.

For example, you can use IAM to create roles or users as the principals in your Amazon Web Services account. A principal can represent a person, a system, or an application. Then you grant permissions to the principals to perform specific actions on the specified resources using an IAM policy.

Grant permissions using IAM policies

When you attach a policy to a principal or a group of principals, it allows or denies those principals permission to perform the specified tasks on the specified resources.

An IAM policy is a JSON document that consists of one or more statements. Each statement is structured as shown in the following example.

```
{
  "Version": "2012-10-17",
  "Statement": [{
    "Effect": "effect",
    "Action": "action",
    "Resource": "resource-arn",
    "Condition": {
      "condition": {
        "key": "value"
      }
    }
  }]
}
```

- **Effect** – The value for **effect** can be either Allow or Deny. By default, IAM principals don't have permission to use resources and API actions, so all requests are denied. An explicit allow overrides the default. An explicit deny overrides any allows.
- **Action** – The value for **action** is the specific API action for which you are granting or denying permission. For more information about specifying Action, see [API actions for Service Quotas](#).
- **Resource** – The resource that's affected by the action. With some Service Quotas API actions, you can restrict the permissions granted or denied to a specific quota. To do so, specify its Amazon Resource Name (ARN) in this statement. Otherwise, you can use the wildcard character (*) to specify all Service Quotas resources. For more information, see [Service Quotas resources](#).
- **Condition** – You can optionally use conditions to control when your policy is in effect. For more information, see [Condition keys for Service Quotas](#).

For more information, see the [IAM User Guide](#).

Amazon managed policies for Service Quotas

An Amazon managed policy is a standalone policy that is created and administered by Amazon. Amazon managed policies are designed to provide permissions for many common use cases so that you can start assigning permissions to users, groups, and roles.

Keep in mind that Amazon managed policies might not grant least-privilege permissions for your specific use cases because they're available for all Amazon customers to use. We recommend that you reduce permissions further by defining [customer managed policies](#) that are specific to your use cases.

You cannot change the permissions defined in Amazon managed policies. If Amazon updates the permissions defined in an Amazon managed policy, the update affects all principal identities (users, groups, and roles) that the policy is attached to. Amazon is most likely to update an Amazon managed policy when a new Amazon Web Service is launched or new API operations become available for existing services.

For more information, see [Amazon managed policies](#) in the *IAM User Guide*.

Amazon managed policy: ServiceQuotasFullAccess

You can attach `ServiceQuotasFullAccess` to your users, groups, and roles.

This policy grants permissions that allow full administrative control of the Service Quotas service. You can perform all tasks involved in viewing and managing your quotas for Amazon services in Service Quotas in the Amazon Regions in your account.

Permissions details

This policy includes permissions that allow all actions for Service Quotas, including viewing Amazon default values and applied values, requesting a service quota increase, and viewing current utilization of resources. This policy also includes 18 permissions that are not part of Service Quotas and can be broadly split into **non-mutating** and **mutating** operations. Non-mutating operations include permissions from trusted advisors to retrieve applied quota value and view current utilization of resources. Mutating operations include permission to create and delete alarms on utilization of resources, and permissions to create the service-linked role necessary to create a support case on your behalf while requesting a quota increase.

This policy includes the following non-mutating and mutating operations that are *not* part of Service Quotas:

Non-mutating operations

- `autoscaling:DescribeAccountLimits` – Allows Service Quotas to retrieve applied quota value for Amazon Auto Scaling quotas.
- `cloudformation:DescribeAccountLimits` – Allows Service Quotas to retrieve applied quota value for Amazon CloudFormation quotas.
- `cloudwatch:DescribeAlarmsForMetric` – Allows you to retrieve alarms for specified metrics from Service Quotas that were created for notifying automatically whenever a specified quota reaches a percentage of the maximum or reaches the maximum level.
- `cloudwatch:DescribeAlarms` – Allows you to retrieve alarms from Service Quotas that were created for notifying automatically whenever a specified quota reaches a percentage of the maximum or reaches the maximum level.
- `cloudwatch:GetMetricData` – Allows Service Quotas to view current utilization of resources.
- `cloudwatch:GetMetricStatistics` – Allows Service Quotas to view current utilization of resources.
- `dynamodb:DescribeLimits` – Allows Service Quotas to retrieve applied quota value for DynamoDB quotas.
- `elasticloadbalancing:DescribeAccountLimits` – Allows Service Quotas to retrieve applied quota value for Elastic Load Balancing quotas.
- `iam:GetAccountSummary` – Allows Service Quotas to retrieve applied quota value for IAM.
- `kinesis:DescribeLimits` – Allows Service Quotas to retrieve applied quota value for Amazon Kinesis quotas.
- `organizations:DescribeAccount` and `organizations:DescribeOrganization` – Allows Service Quotas to create and execute quota templates.
- `rds:DescribeAccountAttributes` – Allows Service Quotas to retrieve applied quota value for Amazon RDS quotas.
- `route53:GetAccountLimit` – Allows Service Quotas to retrieve applied quota value for Amazon Route 53 quotas.
- `tag:GetTagKeys` – Allows Service Quotas to get tag keys currently in use in the specified Amazon Web Services Region for the calling account.
- `tag:GetTagValues` – Allows Service Quotas to get tag values for the specified key that are used in the specified Amazon Web Services Region for the calling account.

Mutating operations

- `cloudwatch:PutMetricAlarm` – Allows Service Quotas to create an alarm for notifying you automatically whenever a specified quota reaches a percentage of the maximum or the maximum level.
- `cloudwatch:DeleteAlarms` – Allows Service Quotas to delete the specified alarm.
- `organizations:EnableAWSServiceAccess` – Allows Service Quotas to create a [service-linked role](#) in all the accounts in your organization. This allows Service Quotas to perform operations on your behalf in your organization and its accounts.
- `iam:CreateServiceLinkedRole` – Allows Service Quotas to create an IAM role that allows Service Quotas to create a support case on your behalf when you request a quota increase.

To see the latest version of this Amazon managed policy, see `ServiceQuotasFullAccess` in the *Amazon Managed Policy Reference Guide*.

Amazon managed policy: `ServiceQuotasReadOnlyAccess`

You can attach `ServiceQuotasReadOnlyAccess` to your users, groups, and roles.

This policy grants permissions that allow users to view their Amazon default quotas, applied quotas, and view current utilization of resources.

Permissions details

This policy includes permissions that allow your to perform the Service Quotas `Get*`, and `List*` operations to view your Amazon default quotas and applied quotas. You can also view current utilization of resources.

Note

This policy does not allow you to request a service quota increase.

This policy includes the following non-mutating operations that are *not* part of Service Quotas:

Non-mutating operations

- `autoscaling:DescribeAccountLimits` – Allows Service Quotas to retrieve applied quota value for Amazon Auto Scaling quotas.

- `cloudformation:DescribeAccountLimits` – Allows Service Quotas to retrieve applied quota value for Amazon CloudFormation quotas.
- `cloudwatch:DescribeAlarmsForMetric` – Allows you to retrieve alarms for specified metrics from Service Quotas that were created for notifying automatically whenever a specified quota reaches a percentage of the maximum or reaches the maximum level.
- `cloudwatch:DescribeAlarms` – Allows you to retrieve alarms from Service Quotas that were created for notifying automatically whenever a specified quota reaches a percentage of the maximum or reaches the maximum level.
- `cloudwatch:GetMetricData` – Allows Service Quotas to view current utilization of resources.
- `cloudwatch:GetMetricStatistics` – Allows Service Quotas to view current utilization of resources.
- `dynamodb:DescribeLimits` – Allows Service Quotas to retrieve applied quota value for DynamoDB quotas.
- `elasticloadbalancing:DescribeAccountLimits` – Allows Service Quotas to retrieve applied quota value for Elastic Load Balancing quotas.
- `iam:GetAccountSummary` – Allows Service Quotas to retrieve applied quota value for IAM.
- `kinesis:DescribeLimits` – Allows Service Quotas to retrieve applied quota value for Amazon Kinesis quotas.
- `organizations:DescribeAccount` and `organizations:DescribeOrganization` – Allows Service Quotas to create and execute quota templates.
- `rds:DescribeAccountAttributes` – Allows Service Quotas to retrieve applied quota value for Amazon RDS quotas.
- `route53:GetAccountLimit` – Allows Service Quotas to retrieve applied quota value for Amazon Route 53 quotas.
- `tag:GetTagKeys` – Allows Service Quotas to get tag keys currently in use in the specified Amazon Web Services Region for the calling account.
- `tag:GetTagValues` – Allows Service Quotas to get tag values for the specified key that are used in the specified Amazon Web Services Region for the calling account.

To see the latest version of this Amazon managed policy, see `ServiceQuotasReadOnlyAccess` in the *Amazon Managed Policy Reference Guide*.

Amazon managed policy: `ServiceQuotasServiceRolePolicy`

This policy is attached to a service-linked role that allows the service to perform actions on your behalf. You cannot attach this policy to your users, groups, or roles.

This policy grants permissions that allows Service Quotas to create support cases on your behalf.

Permissions details

This policy includes the following operations:

- `support:CreateCase` – Allows Service Quotas to create support cases on your behalf when you request a quota increase.
- `support:DescribeCases` – Allows Service Quotas to retrieve the details and status of your support case for the quota increase request.
- `support:ResolveCase` – Allows Service Quotas to resolve support cases on your behalf.

To see the latest version of this Amazon managed policy, see `ServiceQuotasServiceRolePolicy` in the *Amazon Managed Policy Reference Guide*.

Service Quotas updates to Amazon managed policies

View details about updates to Amazon managed policies for Service Quotas since this service began tracking these changes. For automatic alerts about changes to this page, subscribe to the RSS feed on the Service Quotas Document history page.

Change	Description	Date
ServiceQuotasFullAccess – New policy	Added a new Amazon managed policy that allows full administrative control of the Service Quotas service. You can perform all tasks involved in viewing and managing your quotas for Amazon services in Service	May 30, 2024

Change	Description	Date
	Quotas in the Amazon Regions in your account.	
ServiceQuotasReadOnlyAccess – New policy	Added a new Amazon managed policy that allows users to view their Amazon default quotas, applied quotas, and view current utilization of resources.	May 30, 2024
ServiceQuotasServiceRolePolicy – New policy	Added a new Amazon managed policy that allows Service Quotas to create support cases on your behalf.	May 30, 2024
Service Quotas started tracking changes	Service Quotas started tracking changes for its Amazon managed policies.	May 30, 2024

API actions for Service Quotas

In the `Action` element of your IAM policy statement, you can specify any API action that Service Quotas offers. You must prefix the action name with the lowercase string `servicequotas:`, as shown in the following example.

```
"Action": "servicequotas:GetServiceQuota"
```

To specify multiple actions in a single statement, enclose them in square brackets and separate them with a comma, as shown in the following example.

```
"Action": [
  "servicequotas:ListRequestedServiceQuotaChangeHistory",
  "servicequotas:ListRequestedServiceQuotaChangeHistoryByQuota"
]
```


You can also specify multiple actions using the wildcard character (*). The following example specifies all API action names for Service Quotas that start with Get.

```
"Action": "servicequotas:Get*"
```

To specify all API actions for Service Quotas, use the wildcard character (*), as shown in the following example.

```
"Action": "servicequotas:*"
```

For the list of API actions for Service Quotas, see [Service Quotas Actions](#).

Service Quotas resources

Resource-level permissions refers to the ability to specify which resources users are allowed to perform actions on. For API actions that support resource-level permissions, you can control the resources that users are allowed to use with the action. To specify a resource in a policy statement, you must use its Amazon Resource Name (ARN).

The ARN for a quota has the format shown in the following example.

```
arn:aws-cn:servicequotas:region-code:account-id:service-code/quota-code
```

For API actions that don't support resource-level permissions, you must specify the resource statement shown in the following example.

```
"Resource": "*"
```

Resource-level permissions for Service Quotas

The following Service Quotas actions support resource-level permissions:

- [PutServiceQuotaIncreaseRequestIntoTemplate](#)
- [RequestServiceQuotaIncrease](#)

For more information, see [Actions defined by Service Quotas](#) in the *Service Authorization Reference*.

Condition keys for Service Quotas

When you create a policy, you can specify the conditions that control when the policy is in effect. Each condition contains one or more key-value pairs. There are global condition keys and service-specific condition keys.

The `servicequotas:service` key is specific to Service Quotas. The following Service Quotas API actions support this key:

- [PutServiceQuotaIncreaseRequestIntoTemplate](#)
- [RequestServiceQuotaIncrease](#)

For more information about global condition keys, see [Amazon Global Condition Context Keys](#) in the *IAM User Guide*.

Predefined Amazon managed policies for Service Quotas

The managed policies created by Amazon grant the required permissions for common use cases. You can attach these policies to your IAM principals, based on the access to Service Quotas that they require:

- `ServiceQuotasFullAccess` – Grants full access required to use Service Quotas features.
- `ServiceQuotasReadOnlyAccess` – Grants read-only access to Service Quotas features.

Compliance validation for Service Quotas

Third-party auditors assess the security and compliance of Service Quotas as part of multiple Amazon compliance programs. These include SOC, PCI, FedRAMP, HIPAA, and others.

To learn whether an Amazon Web Service is within the scope of specific compliance programs, see [Amazon Web Services in Scope by Compliance Program](#) and choose the compliance program that you are interested in. For general information, see [Amazon Web Services Compliance Programs](#).

You can download third-party audit reports using Amazon Artifact. For more information, see [Downloading Reports in Amazon Artifact](#).

Your compliance responsibility when using Amazon Web Services is determined by the sensitivity of your data, your company's compliance objectives, and applicable laws and regulations. Amazon provides the following resources to help with compliance:

- [Security and Compliance Quick Start Guides](#) – These deployment guides discuss architectural considerations and provide steps for deploying baseline environments on Amazon that are security and compliance focused.
- [Amazon Compliance Resources](#) – This collection of workbooks and guides might apply to your industry and location.
- [Evaluating Resources with Rules](#) in the *Amazon Config Developer Guide* – The Amazon Config service assesses how well your resource configurations comply with internal practices, industry guidelines, and regulations.
- [Amazon Security Hub](#) – This Amazon Web Service provides a comprehensive view of your security state within Amazon. Security Hub uses security controls to evaluate your Amazon resources and to check your compliance against security industry standards and best practices. For a list of supported services and controls, see [Security Hub controls reference](#).
- [Amazon GuardDuty](#) – This Amazon Web Service detects potential threats to your Amazon Web Services accounts, workloads, containers, and data by monitoring your environment for suspicious and malicious activities. GuardDuty can help you address various compliance requirements, like PCI DSS, by meeting intrusion detection requirements mandated by certain compliance frameworks.

Resilience in Service Quotas

The Amazon global infrastructure is built around Amazon Web Services Regions and Availability Zones. Amazon Web Services Regions provide multiple physically separated and isolated Availability Zones, which are connected with low-latency, high-throughput, and highly redundant networking. With Availability Zones, you can design and operate applications and databases that automatically fail over between zones without interruption. Availability Zones are more highly available, fault tolerant, and scalable than traditional single or multiple data center infrastructures.

For more information about Amazon Web Services Regions and Availability Zones, see [Amazon Global Infrastructure](#).

Infrastructure security in Service Quotas

As a managed service, Service Quotas is protected by Amazon global network security. For information about Amazon security services and how Amazon protects infrastructure, see [Amazon Cloud Security](#). To design your Amazon environment using the best practices for infrastructure security, see [Infrastructure Protection](#) in *Security Pillar Amazon Well-Architected Framework*.

You use Amazon published API calls to access Service Quotas through the network. Clients must support the following:

- Transport Layer Security (TLS). We require TLS 1.2 and recommend TLS 1.3.
- Cipher suites with perfect forward secrecy (PFS) such as DHE (Ephemeral Diffie-Hellman) or ECDHE (Elliptic Curve Ephemeral Diffie-Hellman). Most modern systems such as Java 7 and later support these modes.

Additionally, requests must be signed by using an access key ID and a secret access key that is associated with an IAM principal. Or you can use the [Amazon Security Token Service](#) (Amazon STS) to generate temporary security credentials to sign requests.

Service quotas for Service Quotas

The following tables list the maximum values for Service Quotas resources for your Amazon Web Services account.

All of these quota values are per Amazon Web Services Region, unless noted otherwise.

You can't adjust these quota values.

Increase requests

Quota	Default
Active service quota increase requests per account	20
Active service quota increase requests per Region	2
Active service quota increase requests per quota	1
Active service quota increase requests per resource	1

API request rates

Quota	Default
GetAWSDefaultServiceQuota requests per second	5
Additional GetAWSDefaultServiceQuota requests per second sent in one burst	5
GetRequestedServiceQuotaChange requests per second	5
Additional GetRequestedServiceQuotaChange requests per second sent in one burst	5
GetServiceQuota requests per second	5
Additional GetServiceQuota requests per second sent in one burst	5
ListAWSDefaultServiceQuotas requests per second	10

Quota	Default
Additional ListAWSDefaultServiceQuotas requests per second sent in one burst	10
ListRequestedServiceQuotaChangeHistory requests per second	5
Additional ListRequestedServiceQuotaChangeHistory requests per second sent in one burst	5
ListRequestedServiceQuotaChangeHistoryByQuota requests per second	5
Additional ListRequestedServiceQuotaChangeHistoryByQuota requests per second sent in one burst	5
ListServiceQuotas requests per second	10
Additional ListServiceQuotas requests per second sent in one burst	10
ListServices requests per second	10
Additional ListServices requests per second sent in one burst	10
ListTagsForResource requests per second	10
ListTagsForResource requests per second sent in one burst	10
RequestServiceQuotaIncrease requests per second	3
Additional RequestServiceQuotaIncrease requests per second sent in one burst	3
TagResource requests per second	10
TagResource requests per second sent in one burst	10
UntagResource requests per second	10

Quota	Default
UntagResource requests per second sent in one burst	10

Quota request template API request rates

Quota	Default
AssociateQuotaTemplate requests per second	1
Additional AssociateQuotaTemplate requests per second sent in one burst	1
DeleteServiceQuotaIncreaseRequestFromTemplate requests per second	2
Additional DeleteServiceQuotaIncreaseRequestFromTemplate requests per second sent in one burst	1
DisassociateQuotaTemplate requests per second	1
Additional DisassociateQuotaTemplate requests per second sent in one burst	1
GetAssociationForQuotaTemplate requests per second	2
Additional GetAssociationForQuotaTemplate requests per second sent in one burst	2
GetServiceQuotaIncreaseRequestFromTemplate requests per second	2
Additional GetServiceQuotaIncreaseRequestFromTemplate requests per second sent in one burst	1
ListServiceQuotaIncreaseRequestsInTemplate requests per second	2

Quota	Default
Additional ListServiceQuotaIncreaseRequestsInTemplate requests per second sent in one burst	1
PutServiceQuotaIncreaseRequestIntoTemplate requests per second	1
Additional PutServiceQuotaIncreaseRequestIntoTemplate per second sent in one burst	1

Overall API request rate

Quota	Default
API requests per Amazon Web Services account (requests per second)	50
API requests per Amazon Organization (requests per second)	100

Service Quotas Document history

The following table describes the important changes to the documentation since the last release of Service Quotas. For notification about updates to this documentation, you can subscribe to an RSS feed.

Change	Description	Date
Adding new Amazon managed policies	You can now attach <code>ServiceQuotasFullAccess</code> and <code>ServiceQuotasReadOnlyAccess</code> policies to your users, groups, and roles.	May 30, 2024
Adding support for context based quota management	You now have greater visibility and control over your service quotas. View applied values, monitor usage, and programmatically request increases for quotas that not only apply at the Amazon Web Services account level, but at the resource level.	August 30, 2023
IAM best practices update	Updated guide to align with the IAM best practices . For more information, see Security best practices in IAM .	January 3, 2023
Tagging Service Quotas resources	You can now attach tags to applied quotas and write policies to control access to those quotas.	December 21, 2020
Initial release	This release introduces Service Quotas.	June 24, 2019