

Tag

Product Introduction

Product Documentation



Tencent Cloud

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Contents

Product Introduction

Overview

Features

Application Scenarios

Use Limits

Tagging-enabled Services

Product Introduction

Overview

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What Is Tencent Cloud Tag?

Tencent Cloud Tag is a cloud resource management tool that allows you to use different standards to categorize, search for, and aggregate cloud resources having the same attributes.

A tag consists of a tag key and tag value. You can create a tag and bind it to your cloud resources. A tag key can have multiple tag values, and a key-value pair can be bound to multiple resources.

Strengths

Tag is Tencent Cloud's main tool for cloud resource management. Its strengths include:

- Tencent Cloud offers a unified and straightforward console through which you can query and manage all tagged cloud resources.
- You can tag resources and delete, modify and query tags via the Tag console, the consoles of other Tencent Cloud services, or tag APIs.
- You can categorize your resources by different standards using tags. You can also grant access to resources and distribute cost by tag.

How to Use Tags?

Tencent Cloud offers the following methods for you to configure and manage tags:

- **Console:** You can configure and manage tags and resources in the [Tag console](#).
- **API:** You can also use APIs to configure and manage tags and resources. For details, please see [API Category](#).

Concepts

Before you get started with Tencent Cloud Tag, it is necessary to familiarize yourself with the following concepts.

Concept	Description
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Concept	Description
Tag	A tag is a key-value pair, which consists of a tag key and tag value.
Tencent Cloud service	Tagging-enabled Tencent Cloud services, including CVM, COS, CLB, etc.
Resource type	Tagging-enabled Tencent Cloud resources. For example, under CVM, there are three types of resources: CVM instances, cloud disks, and SSH keys.
Region	The region where a physical data center is located. Different regions use networks independent of each other.
Total tag count	The total number of tags bound to a resource, i.e., the number of times a resource is tagged
Resource count	The total number of resources a tag is bound to

Features

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You can manage tags and resources in the Tag console or using tag APIs.

Tag Console - Resource Tag

On the [Resource Tag](#) page, you can view the tags bound to a resource as well as bind tags to and unbind tags from resources. Specifically, you can:

- Query resources by region, resource type, tag, and project
- Perform fuzzy searches by tag key or value
- View the total number of tags bound to a resource
- Edit resources in batches
- Export resource data as needed

Tag Console - Tag List

On the [Tag List](#) page, you can view the resources a tag is bound to as well as bind tags to and unbind tags from resources. Specifically, you can:

- Create and delete tags in batches
- View the number of resources a tag is bound to
- View the resources a tag is bound to
- Bind tags to and unbind tags from resources

Tag APIs

In addition to the visible console, you can also use [tag APIs](#) to perform CRUD operations on tags as well as bind tags to and unbind tags from resources.

- You can search for tag APIs in [API Category](#) and use them in your application.
- You can also use API Explorer to call tag APIs online and generate SDKs in multiple languages.

Application Scenarios

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Below are the main applications for Tencent Cloud Tag.

Managing Tencent Cloud resources

You can use tags to mark and categorize your existing Tencent Cloud resources. For detailed instructions, please see [Creating Tags and Binding Resources](#). You can query resources by region, resource type, or tag via the console or using tag APIs. The results will be displayed in a list. For details, please see [Viewing Tagged Resources](#).

Managing Access to Resources

By using the tagging service together with CAM, you can grant CAM users different access to cloud resources.

Cost Allocation

You can tag resources based on the business department, project, region, etc., a resource belongs to and use Tencent Cloud's [Cost Allocation Tags](#) and [Bills](#) features to distribute your cost.

Use Limits

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Quantity

- A tag consists of 1 tag key and 1 tag value (tagKey:tagValue).
- Each resource can have 50 tags at most.
- For each resource, each tag key can have only 1 value.

Naming

Tag Key	Tag Value
Tag keys starting with `qcs:` or `project:` are reserved for Tencent Cloud use. Do not use the prefixes when you create a tag key.	-
In UTF-8, a tag key must be 1 to 127 Unicode characters.	In UTF-8, a tag value must be 1 to 255 Unicode characters.
Supports UTF-8-encoded characters, digits, spaces, and special characters (+-=_./@()[] () [])	
Tag keys and values are case sensitive.	

Tagging-enabled Services

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This document lists services and resources that support tagging. You can click a service to view its details.

Computing

Service	Resource
CVM	<ul style="list-style-type: none">CVM instanceSSH key
Batch Compute	<ul style="list-style-type: none">Compute environmentTask templateJob

Note :

¹With CVM, Both [GPU Cloud Computing](#) and [CVM Dedicated Host](#) support tagging.

Container

Service	Resource
Tencent Kubernetes Engine (TKE)	TKE cluster

Storage

Service	Resource
Cloud Object Storage (COS)	Bucket
Cloud File Storage (CFS)	File system
Cloud Block Storage (CBS)	Cloud disk instance

Networking

Service	Resource
Cloud Load Balancer (CLB)	CLB instance
Virtual Private Cloud (VPC) ¹	<ul style="list-style-type: none"> • VPC instance • Subnet • Route table • VPN gateway • Elastic Network Interface (ENI) • Customer gateway • Elastic IP (EIP) • Bandwidth Package (BWP) • Security group • Cloud Connect Network (CCN) • NAT Gateway • Flow Logs • Traffic mirror • Direct Connect gateway
Direct Connect (DC)	<ul style="list-style-type: none"> • Connection • Dedicated tunnel • Dedicated internet tunnel • Direct Connect gateway

Note :

¹ With [VPC](#), [ENI](#), [NAT Gateway](#), [Peering Connection](#), [VPN Connections](#), [Flow Logs](#), [Anycast Internet Acceleration](#), [CCN](#), and [BWP](#) all support tagging.

CDN & Acceleration

Service	Resource
Content Delivery Network (CDN)	Domain name
Global Application Acceleration Platform (GAAP)	<ul style="list-style-type: none"> • Connection • Connection group • Origin server

[Enterprise Content Delivery Network \(ECDN\)](#)

ECDN

Relational Database

Service	Resource
TencentDB for MySQL	MySQL instance
TencentDB for MariaDB	MariaDB instance
TencentDB for SQL Server	SQLServer instance
TencentDB for PostgreSQL	PostgreSQL instance

Enterprise-Grade Distributed Database

Service	Resource
Cloud Native Database TDSQL-C	TDSQL-C cluster
TDSQL for MySQL	TDSQL instance

NoSQL Database

Service	Resource
TencentDB for MongoDB	MongoDB instance
TencentDB for TcaplusDB	<ul style="list-style-type: none">• Cluster• Table

SaaS Database Tool

Service	Resource
Data Transmission Service	<ul style="list-style-type: none">• Migration task• Subscription instance

Serverless

Service	Resource
Serverless Cloud Function (SCF)	Function

Cloud Communications

Service	Resource
Instant Messaging (IM)	IM application
Short Message Service (SMS)	SMS application

Video Services

Service	Resource
Cloud Streaming Service ¹	<ul style="list-style-type: none"> Domain name Live director
Video on Demand	Supapplication
Tencent Real-Time Communication	TRTC application

Note :

¹ With VOD, you can associate tags with resources and manage resources by tag, but you cannot authorize access to resources by tag.

Middleware

Service	Resource
Message Queue CKafka	CKafka instance
Cloud Message Queue (CMQ)	<ul style="list-style-type: none"> Queue

	<ul style="list-style-type: none"> Topic
API Gateway	Service

Network Security

Service	Resource
Anti-DDoS Basic	<ul style="list-style-type: none"> Multi-IP instance Anti-DDoS Advanced

Application Security

Service	Resource
Web Application Firewall (WAF)	WAF

Data Security

Service	Resource
Key Management Service	Customer managed CMK
Secrets Manager	Secret

Big Data Platform

Service	Resource
Elasticsearch Service (ES)	ES cluster
Elastic MapReduce (EMR)	<ul style="list-style-type: none"> EMR instance EMR node

Mobile Services

Service	Resource
Tencent Push Notification Service (TPNS)	TPNS application

Game Services

Service	Resource
Game Multimedia Engine	Application
Game Server Elastic-scaling	<ul style="list-style-type: none">• Asset package• Alias• Game server fleet• Game server session queue
Game Player Matchmaking	<ul style="list-style-type: none">• Match code• Rule code

Monitoring and OPS

Service	Resource
Cloud Monitor	Prometheus service