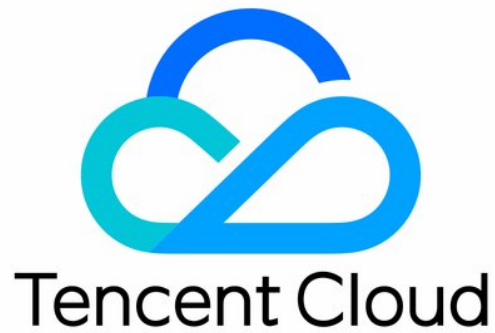


Tag

Product Introduction Product Documentation



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Product Introduction

Overview

Last updated : 2021-08-24 14:49:28

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
---------	-------------

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

Last updated : 2021-08-24 14:49:28

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

Last updated : 2021-08-24 14:49:28

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

Last updated : 2024-03-26 19:28:19

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.

Tag keys cannot be created separately, they must be created simultaneously with tag values (up to 10).

The upper limit for tag keys is 1,000, and each tag key supports 1,000 tag values.

Naming

Tag Key	Tag Value
Tag keys starting with <code>qcs:</code> or <code>project:</code> 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.
Characters, spaces, digits, and special characters represented in UTF-8 format are supported. Starting or ending with spaces is not supported: In English mode, the following characters are supported: + - = . _ : / @ () [] , ; > < in Chinese mode, the following characters are supported: + - = / @ () 【 】 :	
Tag keys and values are case sensitive.	

Tagging-enabled Services

Last updated : 2021-08-19 16:17:32

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 packageAliasGame server fleetGame server session queue
Game Player Matchmaking	<ul style="list-style-type: none">Match codeRule code

Monitoring and OPS

Service	Resource
Cloud Monitor	Prometheus service

Resource Types Supporting Tag APIs

Last updated : 2024-08-13 18:22:38

This document intends to list products that support tags. You can learn about the scope of supported products through this document. When using the Tag API, you need to use fields such as Business Type (`ServiceType`), Resource Prefix (`ResourcePrefix`), and Resource Identification (`ResourceId` , `ResourceIds.N`). Refer to the table below. For all Tag interfaces, see [API Overview](#).

Products and Resource Types

The regions supported by the resource types of each product are different. Refer to the regions supported by the specific product. In the resource description section below, only ap-beijing is used as an example.

Product	Business Type	Resource Chinese Name	Resource Prefix	Resource Identification
TencentDB for MySQL	cdb	TencentDB for MySQL instance	instanceId	qcs::cdb:ap-beijing:uin/10000057****:instanceId/****
Tencent Kubernetes Engine	ccs	Container cluster	cluster	qcs::ccs:ap-beijing:uin/10000057****:cluster/****
Cloud Physical Machine	bm	CPM instance	instance	qcs::bm:ap-beijing:uin/10000057****:instance/****
Content Delivery Network	cdn	Domain	domain	qcs::cdn::uin/10000057****:domain/****
Web Application Firewall	waf	Web Application Firewall	waf	qcs::waf::uin/10000057****:waf/****
Elasticsearch Service	es	Logstash instance	logstash	qcs::es:ap-beijing:uin/10000057****:logstash/****
		Elasticsearch Cluster	instance	qcs::es:ap-beijing:uin/10000057****:instance/****
Elastic	emr	EMR node	emr-vm	qcs::emr:ap-beijing:uin/10000057****:emr

MapReduce				vm/****
		EMR instance	emr-instance	qcs::emr:ap-beijing:uin/10000057****:emr-instance/****
Cloud File Storage	cfs	CFS snapshot	snap	qcs::cfs:ap-beijing:uin/10000057****:snap
		Cloud File Storage	filesystem	qcs::cfs:ap-beijing:uin/10000057****:filesystem/****
TencentDB for CTSDB	ctsdbs	CTSD InfluxDB instance	instance	qcs::ctsdbs:ap-beijing:uin/10000057****:instance/****
TencentDB for MariaDB	mariadb	TencentDB for MariaDB instance	instance	qcs::mariadb:ap-beijing:uin/10000057****:instance/****
TDSQL for MySQL	dcdb	TDSQL for MySQL instance	instance	qcs::dcdb:ap-beijing:uin/10000057****:instance/****
Short Message Service	sms	SMS application	app	qcs::sms::uin/10000057****:app/****
Chat	im	Chat application	sdkappid	qcs::im::uin/10000057****:sdkappid/****
Data Transfer Service	dts	Migration task	task	qcs::dts:ap-beijing:uin/10000057****:task
		Subscription instance	subscribeld	qcs::dts:ap-beijing:uin/10000057****:subscribeld/****
		Sync Task	syncTask	qcs::dts:ap-beijing:uin/10000057****:syncTask/****
Internet of Things Hub	iotcloud	Devices	ProductId	qcs::iotcloud:ap-beijing:uin/10000057****:ProductId/****
TDMQ for CKafka	ckafka	CKafka instance	ckafkald	qcs::ckafka:ap-beijing:uin/10000057****:ckafkald/****
Tencent Cloud Observability Platform	monitor	Prometheus Service	prom-instance	qcs::monitor:ap-beijing:uin/10000057****:prom-instance/****
		Grafana	grafana-instance	qcs::monitor:ap-

		instance		beijing:uin/10000057****:grafana-instance
		Alarm policy	cm-policy	qcs::monitor::uin/10000057****:cm-policy/
		Alarm notification	cm-notice	qcs::monitor::uin/10000057****:cm-notice
TencentDB for PostgreSQL	postgres	PostgreSQL instance	DBInstanceid	qcs::postgres:ap-beijing:uin/10000057****:DBInstanceid/**
Tencent Push Notification Service	tpns	TPNS application	app	qcs::tpns:ap-beijing:uin/10000057****:app
TencentDB for MongoDB	mongodb	MongoDB instance	instance	qcs::mongodb:ap-beijing:uin/10000057****:instance/****
Game Multimedia Engine	gme	GME application	bizid	qcs::gme::uin/10000057****:bizid/****
Batch Compute	batch	Compute environment	computeenv	qcs::batch:ap-beijing:uin/10000057****:computeenv/****
		Job	job	qcs::batch:ap-beijing:uin/10000057****:jo
		Task template	tasktemplate	qcs::batch:ap-beijing:uin/10000057****:tasktemplate/**
Cloud HDFS	chdfs	Cloud File Storage	filesystem	qcs::chdfs:ap-beijing:uin/10000057****:filesystem/****
Video on Demand	vod	Subapplication	subAppld	qcs::vod::uin/10000057****:subAppld/****
API Gateway	apigw	Service	service	qcs::apigw:ap-beijing:uin/10000057****:service/****
		Instance	instance	qcs::apigw:ap-beijing:uin/10000057****:instance/****
		Plugins	plugin	qcs::apigw:ap-beijing:uin/10000057****:plugin/****
		VPC upstream	upstream	qcs::apigw:ap-

				beijing:uin/10000057****:upstream/****
		Application	apiApp	qcs::apigw:ap-beijing:uin/10000057****:apiApp/****
		Key	secret	qcs::apigw:ap-beijing:uin/10000057****:secret/****
		API documentation	apiDoc	qcs::apigw:ap-beijing:uin/10000057****:apiDoc/****
		Usage plan	usagePlan	qcs::apigw:ap-beijing:uin/10000057****:usagePlan/****
Secrets Manager	ssm	Secrets	secret	qcs::ssm:ap-beijing:uin/10000057****:secret/****
Stream Compute Service	oceanus	SCS cluster	cluster	qcs::oceanus:ap-beijing:uin/10000057****:cluster/****
		SCS job	job	qcs::oceanus:ap-beijing:uin/10000057****:job/****
TencentDB for SQL Server	sqlserver	TencentDB for SQL Server instance	instance	qcs::sqlserver:ap-beijing:uin/10000057****:instance/****
Serverless Cloud Function	scf	Function	namespace	qcs::scf:ap-beijing:uin/10000057****:namespace/****
SSL Certificates	ssl	SSL Certificates	certificate	qcs::ssl:uin/10000057****:certificate/****
Real User Monitoring	rum	RUM instance	Instance	qcs::rum::uin/10000057****:Instance/****
TencentDB for Redis	redis	TencentDB for Redis instance	instance	qcs::redis:ap-beijing:uin/10000057****:instance/****
Cloud Data Warehouse for PostgreSQL	cdwpg	CDWPG instance	cdwpg-instance	qcs::cdwpg:ap-beijing:uin/10000057****:cdwpg-instance/****
Cloud Load Balancer	clb	CLB instance	clb	qcs::clb:ap-beijing:uin/10000057****:clb/*
		Gateway CLB	gwlb	qcs::clb:ap-beijing:uin/10000057****:gwlb

		instance		
Tencent Distributed Message Queue	tdmq	CMQ queue	cmqueue	qcs::tdmq:ap-beijing:uin/10000057****:cmqueue/****
		CMQ topic	cmqtopic	qcs::tdmq:ap-beijing:uin/10000057****:cmqtopic/****
		Cluster	cluster	qcs::tdmq:ap-beijing:uin/10000057****:cluster/****
Direct Connect	dc	Physical Connection	dc	qcs::dc::uin/10000057****:dc/****
		Dedicated tunnels	dcx	qcs::dc::uin/10000057****:dcx/****
		Dedicated tunnel for Internet access	dcx	qcs::dc::uin/10000057****:dcx/****
TDSQL for MySQL TDSore Self-developed Engine	tdmysql	Database instance	instance	qcs::tdmysql:ap-beijing:uin/10000057****:instance/****
Tencent Kubernetes Engine Distributed Cloud Center	tdcc	Distributed cloud cluster	cluster	qcs::tdcc::uin/10000057****:cluster/****
		Distributed cloud management cluster	hub	qcs::tdcc::uin/10000057****:hub/****
TencentDB for TcaplusDB	tcplusdb	Cluster	cluster	qcs::tcplusdb:ap-beijing:uin/10000057****:cluster/****
		Table	table	qcs::tcplusdb:ap-beijing:uin/10000057****:table/****
Virtual Private Cloud	vpc	Network ACL	acl	qcs::vpc:ap-beijing:uin/10000057****:acl/
		Security group	sg	qcs::vpc:ap-beijing:uin/10000057****:sg/*
		VPC instance	vpc	qcs::vpc:ap-beijing:uin/10000057****:vpc/

		Subnet	subnet	qcs::vpc:ap-beijing:uin/10000057****:subnet/****
		Route table	rtb	qcs::vpc:ap-beijing:uin/10000057****:rtb/*
		VPN Gateway	vpngw	qcs::vpc:ap-beijing:uin/10000057****:vpngw/****
		ENI resource	eni	qcs::vpc:ap-beijing:uin/10000057****:eni/
		Elastic IP	eip	qcs::vpc:ap-beijing:uin/10000057****:eip/
		Bandwidth Package	bwp	qcs::vpc:ap-beijing:uin/10000057****:bwp
		NAT Gateway	nat	qcs::vpc:ap-beijing:uin/10000057****:nat/
		Flow Logs	fl	qcs::vpc:ap-beijing:uin/10000057****:fl/**
		Traffic mirroring	mirror	qcs::vpc:ap-beijing:uin/10000057****:mirror/****
Cloud Access Management	cam	User	uin	qcs::cam::uin/10000057****:uin/****
		Roles	role	qcs::cam::uin/10000057****:role/****
Cloud Workload Protection Platform	cwp	Protection license	order	qcs::cwp::uin/10000057****:order/****
Tencent Container Registry	tcr	TCR instance	instance	qcs::tcr:ap-beijing:uin/10000057****:instance/****
		TCR namespace	repository	qcs::tcr:ap-beijing:uin/10000057****:repository/****
Global Application Acceleration Platform	gaap	Channel instance	proxy	qcs::gaap::uin/10000057****:proxy/****
		Origin server instance	realServer	qcs::gaap::uin/10000057****:realServer/**
		Channel group instance	proxyGroup	qcs::gaap::uin/10000057****:proxyGroup/
Anti-DDoS	antiddos	Anti-DDoS	antiddos	qcs::antiddos::uin/10000057****:antiddos

		instance		
EventBridge	eb	EventBridge instance	eventbusid	qcs::eb:ap-beijing:uin/10000057****:eventbusid/****
		Event rule instance	ruleid	qcs::eb:ap-beijing:uin/10000057****:ruleid
Tencent Cloud EdgeOne	teo	Site instance	zone	qcs::teo::uin/10000057****:zone/****
Cloud Infinite	ci	Bucket	bucket	qcs::ci:ap-beijing:uin/10000057****:bucket
Tencent Cloud Warehouse-D	cdwdoris	Doris	cdwdorisInstance	qcs::cdwdoris:ap-beijing:uin/10000057****:cdwdorisInstance
Tencent Cloud Elastic Microservice	tem	Application	application	qcs::tem::uin/10000057****:application/**
		Environment	environment	qcs::tem::uin/10000057****:environment/*
HTTPDNS	httpdns	HTTPDNS authorization code	httpdnsId	qcs::httpdns::uin/10000057****:httpdnsId/
TDMQ for RocketMQ	trocket	RocketMQ instance	instance	qcs::trocket:ap-beijing:uin/10000057****:instance/****
Tencent Cloud VectorDB	vdb	Tencent Cloud VectorDB instance	instance	qcs::vdb:ap-beijing:uin/10000057****:instance/****
Cloud Log Service	cls	Log topic	topic	qcs::cls:ap-beijing:uin/10000057****:topic
		Logset	logset	qcs::cls:ap-beijing:uin/10000057****:logset
		Machine group	machinegroup	qcs::cls:ap-beijing:uin/10000057****:machinegroup/**
		Dashboard	dashboard	qcs::cls::uin/10000057****:dashboard/****
		Alarm policy	alarm	qcs::cls:ap-beijing:uin/10000057****:alarm
		Notification channel group	alarmNotice	qcs::cls:ap-beijing:uin/10000057****:alarmNotice/****

		DataSight independent console instance	datasight	qcs::cls::uin/10000057****:datasight/****
Cloud Firewall	cfw	CFW resource	Resource	qcs::cfw::uin/10000057****:Resource/****
Media Processing Service	mps	Media Processing Service	vts	qcs::mps::uin/10000057****:vts/****
Cloud Virtual Machine	cvm	Image	image	qcs::cvm:ap-beijing:uin/10000057****:image/****
		Cloud Block Storage	volume	qcs::cvm:ap-beijing:uin/10000057****:volume/****
		CVM instance	instance	qcs::cvm:ap-beijing:uin/10000057****:instance/****
		Snapshot	snapshot	qcs::cvm:ap-beijing:uin/10000057****:snapshot/****
Data Development and Governance Platform	wedata	Scheduling resource package	schedule	qcs::wedata:ap-beijing:uin/10000057****:schedule/****
		Offline resource package	offline	qcs::wedata:ap-beijing:uin/10000057****:offline/****
		Real-time resource package	realtime	qcs::wedata:ap-beijing:uin/10000057****:realtime/****
		Product version	platform	qcs::wedata:ap-beijing:uin/10000057****:platform/****
		Data service resource package	dataservice	qcs::wedata:ap-beijing:uin/10000057****:dataservice/****
StreamLive	mdl	StreamLive channel	channel	qcs::mdl:ap-beijing:uin/10000057****:channel/****
Basic map services	lbs	Commercial license	lbs-license	qcs::lbs::uin/10000057****:lbs-license/****

	Basic API traffic package	base-package	qcs::lbs::uin/10000057****:base-package,
	Basic API monthly traffic package	base-monthly	qcs::lbs::uin/10000057****:base-monthly/'
	Advanced API traffic package	senior-package	qcs::lbs::uin/10000057****:senior-packag
	Advanced API monthly traffic package	senior-monthly	qcs::lbs::uin/10000057****:senior-monthly
	Universal QPS	universal-qps	qcs::lbs::uin/10000057****:universal-qps/'
	Address QPS	search-qps	qcs::lbs::uin/10000057****:search-qps/**
	Matrix QPS	matrix-qps	qcs::lbs::uin/10000057****:matrix-qps/**

Special Resource Type

Business Name	Business Type	Resource Chinese Name	Resource Prefix	Resource Identification
Cloud Object Storage	cos	COS bucket	prefix	<p>First: account's appid form</p> <p>qcs::cos:\$region:uid/\$appid:prefix/\$bucketname</p> <p>Example: qcs::cos:ap-shanghai:uid/1301112223:prefix/exan</p> <p>The uid is fixed, and the actual value is <code>\$appid</code> : which is Identifier you have when accessing Tencent cloud virtual n on the account center - account Information page.</p> <div data-bbox="858 1630 1528 1854" data-label="Image"> <p>The screenshot shows the 'Account Information' page. It is divided into two columns: 'Basic Information' and 'Account Permissions'. Under 'Basic Information', there are fields for 'Account ID' (value: 2000) and 'APPID' (value: 13). Under 'Account Permissions', there are fields for 'Account Identity' (value: Sub-user) and 'Root Account' (value: 2000, name: [redacted]).</p> </div> <p>The <code>\$prefix</code> : refers to the resource type of the COS pr value</p> <p>The <code>\$bucketname</code> : refers to the bucket name, defined the bucket (when using Six-Segment Resource Description,</p>

user's defined bucket name, like examplebucket, without ad
 For example, if a user defines the bucket as examplebucket
 1301112223, as shown below:

A screenshot of a form field labeled 'Name*' with an information icon. The input field contains 'examplebucket' and a suffix '-1301112223' with a green checkmark. Below the input, a note states: 'You can also enter 8 characters, Lowercase letters, digits, and hyphen. The bucket name cannot be modified after it is created.'

Second: project's AppID form

qcs::cos:\$region:uid/\$project's AppID:prefix/\$bucketname

Example: qcs::cos:ap-shanghai:uid/project's AppID:prefix/ex

The uid is fixed, and the actual value is \$project's AppID

The \$prefix : refers to the resource type of the COS pr
 value.

The \$bucketname : \$bucketname is the name del
 creating the bucket. \$project's AppID is different

appid . It signifies the unique identifier of the project general
 accessing COS services to create space, which can be four
[COS console](#) by clicking the corresponding bucket name. Th
 number of very early COS customers, and is usually an 8-di

