Cloud Dedicated Zone

Product Introduction

Product Documentation
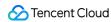
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Product Introduction

Overview

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Cloud Dedicated Zone (CDZ) is a dedicated availability zone that deployed on the customer's on-premise infrastructure. Customers can purchase Tencent Cloud resources, such as compute, storage and database, and use them similarly as in Tencent Cloud public AZs. CDZ provides a full set of services with integrated hardware and software to help customers build up their dedicated cloud in a secure and reliable manner.

Strengths

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Standardized and quick delivery

Adopt the same procurement and delivery standards as Tencent Cloud's own data centers, featuring fast delivery, high cost performance and high reliability of software and hardware.

Exclusive cloud resources

All resources of the dedicated zone are exclusive to the customer, and isolated from resources of other customers.

Customized location

A CDZ can be built on customer premises, which can make full use of the existing OPS capabilities and ensure the smooth operation of services.

Consistent experience as public cloud

The structure and user experience of CDZs are exactly the same as public AZs, including but not limited to the console, API, SDK and monitoring services. With CDZ, customers can build up a hybrid cloud featuring consistent management and scheduling manners, as well as Tencent Cloud's latest technologies and features.

Efficient managed operations service

Tencent Cloud provides a full set of worry-free operations services for CDZs, including operations, upgrades, and performance management for both software and hardware.

Scenarios

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Dedicated industrial cloud or local cloud

Applicable to customers who need to build industrial clouds or local clouds replying to Tencent's construction and operation capabilities. With a CDZ, customers can quickly set up industrial or local clouds, with less human effort, and enjoy the same monitoring and operation capabilities of Tencent Cloud products.

PaaS or SaaS platforms

Application software manufacturers can set up their own PaaS or SaaS platforms (such as AI platform, ERP platform, CRM platform) based on Tencent Cloud public services and capabilities efficiently.

Edge computing

For customers who have strict requirements for low latency, deploying cloud services on CDZs can further extend the edge coverage to provide nearby computing capability. This can improve the experience of AR/VR/MR applications.

Object Storage

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Product overview

Cloud Storage Private (CSP) is an object storage service provided by Tencent Cloud Enterprise. CSP on CDZ is dedicated for CDZ users.

The infrastructure resources that CSP on CDZ relies on are deployed in the CDZ, and connected to the nearest Tencent Cloud public region via Direct Connect. All data is stored in the CDZ, which can meet data compliance requirements, and also greatly reduce access latency and improve data read/write performance. Users can manage CSP on CDZ in the console, create and delete storage buckets, and perform other configuration management. The user experience is the same as on the public cloud.

Use limits

CSP on CDZ runs in users' CDZs, while COS runs on Tencent Cloud public infrastructures. Due to the difference in operating environments, some COS features are not available on CSP on CDZ.

Uploading and downloading objects in the console is not supported.

Only STANDARD storage is supported. STANDARD_IA and ARCHIVE storage are not supported

Static website hosting is not supported.

It cannot be set as the origin for origin-pull.

Temporary link access is not supported.

Server encryption is not supported.

Object tagging is not supported.

Anti-hotlinking and CORS are not supported.

Bucket replication is not supported.

Domain name transfer and management are not supported.

Most of the features related with other Tencent Cloud products are not supported:

Log management is not supported.

Chinese characters are not supported.`

Data processing is not supported.

Data workflow is not supported.

Function computing is not supported.

File system gateway is not supported.

The performance of CSP on CDZ is also relatively lower than COS on the public cloud. The performance of CSP on CDZ is affected by the scale of the local cluster. In addition, CAM authentication is required for all object storage-related operations. This brings additional network latency. For example, in a typical CSP on CDZ cluster with 3 storage nodes, the expected performance of CSP on CDZ is 1,000 QPS (in small file scenarios) or 500 MB/s (in large file scenarios), which is lower than 30,000 QPS or 15 Gbit/s for a single barrel on the public cloud.

Product billing

The default specification of CSP on CDZ is 120 TB, with a default increment of 40 TB. It can also be configured on demand. This is a prepaid service. Tencent Cloud will underwrite the order based on the demanded storage capacity. After that, we will start deploying services according to your order.

Item	Cycle	Mode	Calculation
Storage	Monthly	Pay-as-you-go	- Monthly - Storage usage fee =Avg. daily storage usage of the month * Storage unit price - Avg. daily storage usage of the month = Sum of Daily storage usage in the month / Number of days in the month- Daily storage usage = Average of the 288 samples collected every 5 minutes
Read/write requests	Monthly	Pay-as-you-go	- Number of total requests sent in the month.- Both succeeded and failed requests are billed.- Number of requests is counted in 10K.
Traffic (Public)	Monthly	Pay-as-you-go	- Data transferred from COS to the user's local device or client over the internet.- Pay-as-you-go: Downstream traffic from the internet (in GB) x Unit price per GB

Purchase guide

CDZs are not open for purchase online. To set up a CDZ, please contact your sales representative.

Usage guide

Configuration: The console of CSP on CDZ is integrated into the OS console. You can select a dedicated cluster in the CDZ in the COS console, and create, delete or configure storage buckets. The usage is exactly the same as that of COS.

Data read/write: Accessing data on CSP on CDZ is consistent with that on COS. CSP on CDZ is fully compatible with the APIs and SDKs of COS. Note that when accessing CSP on CDZ, you need to specify the CDZ name where the CSP on CDZ is located, and splice it into the Region field. For example, the access address of a COS bucket is

generally `<BucketName-APPID>.cos.<Region>.myqcloud.com` , and if you access the CSP on CDZ, the bucket address will be

`<BucketName-APPID>.<CDZ-Zone-name>.cos-cdz.<Region>.myqcloud.com` , where cdz-zone-name is the unique identifier of a CDZ.