

Cloud File Storage

Purchase Guide

Product Documentation



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Purchase Guide

Billing Overview

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Overview

Cloud File Storage (CFS) is billed according to the amount of storage used. A file system will occupy 32 MB of storage after it is created, which will not be billed.

Billing description

CFS can be billed using the pay-as-you-go mode or a resource package, as described below:

Billable Item	Billing Method	Billing Cycle	Description	Supported Product Type and Region
Storage usage	Pay-As-You-Go (Postpaid)	Hourly	General file systems are charged according to the maximum hourly usage. Turbo file systems are charged according to the storage capacity purchased, rather than the actual usage.	All available regions
Storage usage	Resource Package (Prepaid)	Monthly subscription	A valid resource package can be used to offset your hourly storage usage calculated by the pay-as-you-go standards.	Only Standard and High-Performance file systems in all available regions

Pricing Overview

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Pay-as-you-go (postpaid) pricing of general series

Overview

Billable Item	Billing Method	Billing Cycle	Description
Storage usage	Pay-as-you-go (postpaid)	Hourly	Billed every hour based on the maximum (peak) storage usage in an hour

Pricing details

Storage Class	Region	Range of Maximum (Peak) Storage Capacity	Unit Price
Standard	Chinese mainland	0-10 TiB	0.05 USD/GiB/month (0.00006944 USD/GiB/hour)
		Over 10 TiB	0.047 USD/GiB/month (0.00045833 USD/GiB/hour)
	Finance zones in the Chinese mainland	0-160 TiB	0.08 USD/GiB/month (0.00011111 USD/GiB/hour)
	Hong Kong (China)	Up to 1 TiB	0.09 USD/GiB/month (0.000125 USD/GiB/hour)
		1 TiB ≤ x < 10 TiB	0.083 USD/GiB/month (0.00011508 USD/GiB/hour)
		10 TiB ≤ x < 50 TiB	0.074 USD/GiB/month (0.00010317 USD/GiB/hour)
		Over 50 TiB	0.066 USD/GiB/month (0.00009167 USD/GiB/hour)
	United States	0-160 TiB	0.074 USD/GiB/month (0.00010278 USD/GiB/hour)
	Europe, Southeast Asia, and	0-160 TiB	0.083 USD/GiB/month (0.00011508 USD/GiB/hour)

	Hong Kong/Macao/Taiwan (China)		USD/GiB/hour)
High-Performance	Chinese mainland	0-32 TiB	0.229 USD/GiB/month (0.00031746 USD/GiB/hour)
	Finance zones in the Chinese mainland	0-32 TiB	0.366 USD/GiB/month (0.00050793 USD/GiB/hour)
	United States	0-32 TiB	0.34 USD/GiB/month (0.00047222 USD/GiB/hour)
	Europe, Southeast Asia, and Hong Kong/Macao/Taiwan (China)	0-32 TiB	0.377 USD/GiB/month (0.00052381 USD/GiB/hour)

Pay-as-you-go (postpaid) pricing of Turbo series

Overview

Billable Item	Billing Method	Billing Cycle	Description
Storage usage	Pay-as-you-go (postpaid)	Hourly	Billed every hour based on the maximum (peak) configured/purchased storage in an hour

Pricing details

Storage Class	Region	Range of Maximum (Peak) Storage Capacity	Unit Price
Standard Turbo	Chinese mainland	Over 40 TiB	0.086 USD/GiB/month (0.00011904 USD/GiB/hour)
	Finance zones in the Chinese mainland		0.137 USD/GiB/month (0.00019047 USD/GiB/hour)
	United States		0.127 USD/GiB/month (0.00017658 USD/GiB/hour)
	Europe, Southeast Asia, and Hong		0.141 USD/GiB/month (0.00019642 USD/GiB/hour)

	Kong/Macao/Taiwan (China)		
High-Performance Turbo	Chinese mainland	Over 20 TiB	0.2 USD/GiB/month (0.00027777 USD/GiB/hour)
	Finance zones in the Chinese mainland		0.32 USD/GiB/month (0.00044444 USD/GiB/hour)
	United States		0.297 USD/GiB/month (0.00041263 USD/GiB/hour)
	Europe, Southeast Asia, and Hong Kong/Macao/Taiwan (China)		0.33 USD/GiB/month (0.00045833 USD/GiB/hour)

Pay-as-you-go (postpaid) pricing of High-Throughput CFS

Overview

Billable Item	Billing Method	Billing Cycle	Description
Storage usage	Pay-as-you-go (postpaid)	Hourly	Billed every hour based on the maximum (peak) storage usage in an hour
Bandwidth	Pay-as-you-go (postpaid)	Hourly	Billed every hour based on the bandwidth actually deployed

Pricing details

Billable Item	Region	Range of Maximum (Peak) Value	Unit Price
Storage usage	Chinese mainland	0-1 PiB	0.143 USD/GiB/month (0.00019841 USD/GiB/hour)
	Finance zones in the Chinese mainland	0-1 PiB	0.229 USD/GiB/month (0.00031746 USD/GiB/hour)
	United States	0-1 PiB	0.212 USD/GiB/month (0.0002946 USD/GiB/hour)

	Europe, Southeast Asia, and Hong Kong/Macao/Taiwan (China)	0-1 PiB	0.236 USD/GiB/month (0.00032738 USD/GiB/hour)
Bandwidth	Chinese mainland	0-200 GiB/s	428.571 USD/GiB/s/month (0.59523809 USD/GiB/s/hour)
	Finance zones in the Chinese mainland	0-200 GiB/s	685.714 USD/GiB/s/month (0.95238095 USD/GiB/s/hour)
	United States	0-200 GiB/s	636.428 USD/GiB/s/month (0.88392857 USD/GiB/s/hour)
	Europe, Southeast Asia, and Hong Kong/Macao/Taiwan (China)	0-200 GiB/s	707.143 USD/GiB/s/month (0.98214285 USD/GiB/s/hour)

Pay-as-you-go (postpaid) pricing of IA storage

Overview

Billable Item	Billing Method	Billing Cycle	Description
Storage usage	Pay-as-you-go (postpaid)	Hourly	Billed every hour based on the maximum (peak) storage usage in an hour
Bandwidth	Pay-as-you-go (postpaid)	Hourly	Billed every hour based on the bandwidth actually deployed

Pricing details

Billable Item	Region	Range of Maximum (Peak) Value	Unit Price
Storage usage	Chinese mainland	0-100 PiB	0.017 USD/GiB/month (0.00002381 USD/GiB/hour)
	Finance zones in the Chinese mainland	0-100 PiB	0.028 USD/GiB/month (0.00003929 USD/GiB/hour)
	United States	0-100 PiB	0.025 USD/GiB/month (0.00003532 USD/GiB/hour)

	Europe, Southeast Asia, and Hong Kong/Macao/Taiwan (China)	0-100 PiB	0.027 USD/GiB/month (0.00003809 USD/GiB/hour)
Accessed data	Chinese mainland	0-100 PiB	0.0086 USD/GiB
	Finance zones in the Chinese mainland	0-100 PiB	0.0141 USD/GiB
	United States	0-100 PiB	0.0127 USD/GiB
	Europe, Southeast Asia, and Hong Kong/Macao/Taiwan (China)	0-100 PiB	0.0137 USD/GiB

Pay-as-you-go (postpaid) pricing of snapshots

Overview

Billable Item	Billing Method	Billing Cycle	Description
Snapshot size	Pay-as-you-go (postpaid)	Hourly	Billed every hour based on the maximum (peak) size of snapshots generated in an hour

Pricing details

Product Type	Region	Unit Price
Snapshots (for Standard/High-Performance CFS)	Chinese mainland	0.017 USD/GiB/month (0.00002381 USD/GiB/hour)
	Finance zones in the Chinese mainland	0.027 USD/GiB/month (0.00003809 USD/GiB/hour)
	United States	0.025 USD/GiB/month (0.00003532 USD/GiB/hour)
	Europe, Southeast Asia, and Hong Kong/Macao/Taiwan (China)	0.028 USD/GiB/month (0.00003929 USD/GiB/hour)

Storage resource unit pricing

Overview

The price of a storage resource unit (U for short) is 1 USD/month. Compared with the pay-as-you-go mode, storage resource units provide larger discounts for larger specs and longer validity periods. For use cases with a fixed storage usage per month, we recommend you choose storage resource units to get more benefits.

Storage resource units are different for the Chinese mainland and for regions outside the Chinese mainland. Please purchase as needed.

Storage resource units are available for the Tencent Cloud Chinese site only.

After storage resource units expire or the quotas are used up, the pay-as-you-go billing will automatically apply.

Pricing details

Prices for 5 U - 50,000 U

Spec/Period	1 month (10% off)	3 months (10% off)	6 months (15% off)	12 months (20% off)
5 U	4.5 USD	13.5 USD	25.5 USD	48 USD
10 U	9 USD	27 USD	51 USD	96 USD
20 U	18 USD	54 USD	102 USD	192 USD
50 U	45 USD	135 USD	255 USD	480 USD
100 U	90 USD	270 USD	510 USD	960 USD
200 U	180 USD	540 USD	1,020 USD	1,920 USD
500 U	450 USD	1350 USD	2550 USD	4800 USD
1,000 U	900 USD	2700 USD	5100 USD	9600 USD
2,000 U	1,800 USD	5,400 USD	10,200 USD	19,200 USD
5,000 U	4,500 USD	13,500 USD	25,500 USD	48,000 USD
10,000 U	9,000 USD	27,000 USD	51,000 USD	96,000 USD
20,000 U	18,000 USD	54,000 USD	102,000 USD	192,000 USD
50,000 U	45,000 USD	135,000 USD	255,000 USD	480,000 USD

Prices for 100,000 U - 500,000 U

Spec/Period	1 month (15% off)	3 months (15% off)	6 months (20% off)	12 months (25% off)

100,000 U	85,000 USD	255,000 USD	480,000 USD	900,000 USD
200,000 U	170,000 USD	510,000 USD	960,000 USD	1800,000 USD
500,000 U	425,000 USD	1,275,000 USD	2,400,000 USD	4,500,000 USD

General Series Billing

Pay-As-You-Go (Postpaid)

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Cloud File Storage (CFS) (general series) can be billed using the pay-as-you-go (postpaid) mode or a resource package (prepaid). This document describes billing with the first method. This method applies to all regions where CFS services are available. CFS charges you based on your storage usage and bills you on an hourly basis.

If your usage can be estimated or if you have additional throughput requirements, we recommend you use a [resource package](#) for a larger discount. You can purchase a resource package on the [resource package purchase page](#). For more information, see [Resource Purchase](#).

Billing overview

Billable Item	Billing Method	Billing Cycle	Description
Storage usage	Pay-as-you-go (postpaid)	Hourly	Billed every hour based on the maximum (peak) storage usage in an hour

Billing details

Note:

We recommend you use the [CFS price calculator](#) to estimate fees.

The unit prices for the NFS and CIFS/SMB file systems are the same.

Storage Class	Region	Range of Maximum (Peak) Value	Unit Price
Standard	Chinese mainland	0-10 TiB	0.05 USD/GiB/month (0.00006944 USD/GiB/hour)
		Over 10 TiB	0.047 USD/GiB/month (0.00045833 USD/GiB/hour)
	Finance zones in the Chinese mainland	0-160 TiB	0.08 USD/GiB/month (0.00011111 USD/GiB/hour)

	Hong Kong (China)	Up to 1 TiB	0.09 USD/GiB/month (0.000125 USD/GiB/hour)
		1 TiB \leq x < 10 TiB	0.083 USD/GiB/month (0.00011508 USD/GiB/hour)
		10 TiB \leq x < 50 TiB	0.074 USD/GiB/month (0.00010317 USD/GiB/hour)
		Over 50 TiB	0.066 USD/GiB/month (0.00009167 USD/GiB/hour)
	United States	0-160 TiB	0.074 USD/GiB/month (0.00010278 USD/GiB/hour)
	Europe, Southeast Asia, and Hong Kong/Macao/Taiwan (China)	0-160 TiB	0.083 USD/GiB/month (0.00011508 USD/GiB/hour)
High-Performance	Chinese mainland	0-32 TiB	0.229 USD/GiB/month (0.00031746 USD/GiB/hour)
	Finance zones in the Chinese mainland	0-32 TiB	0.366 USD/GiB/month (0.00050793 USD/GiB/hour)
	United States	0-32 TiB	0.34 USD/GiB/month (0.00047222 USD/GiB/hour)
	Europe, Southeast Asia, and Hong Kong/Macao/Taiwan (China)	0-32 TiB	0.377 USD/GiB/month (0.00052381 USD/GiB/hour)

Resource Pack (Prepaid)

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CFS can be billed using the pay-as-you-go mode (postpaid) or a resource pack (prepaid). This document introduces billing via a resource pack, which has a fixed storage capacity and duration.

Billing Description

Billable Item	Billing Method	Billing Cycle	Description
Storage usage	Resource pack (prepaid)	Monthly subscription	A valid resource pack can be used to offset the corresponding pay-as-you-go fees.

Purchase Notes

Currently, only the Standard and High-Performance storage classes support resource packs, and only CNY accounts can purchase them. For more information, please see [Available Regions](#).

A resource pack takes effect once it's bound to a file system and can only offset fees incurred by this single file system, which cannot be unbound while the resource pack is valid. In addition, using resource packs across availability zones (AZs) is not supported yet. Therefore, before you purchase a resource pack, double check the file system you want to bind to as well as the AZ of the resource pack.

Once bound to a file system, a resource pack will take effect (no refunds allowed) and its effective period will be calculated by month. If needed, you can delete the file system bound, changing the status of the resource pack to "Unused" and suspending its effective period. After you bind the resource pack to another file system, it will take effect again using its remaining effective period.

You can purchase multiple CFS resource packs, although each file system can only be bound to one resource pack of the same type at a time. If needed, you can upgrade or renew the resource pack.

A file system redeemed with a storage pack will have the corresponding throughput performance. If you have a low data volume but require high throughput, you can purchase a resource pack to increase the upper threshold of the throughput for your file system. For more information, please see [Storage Class and Performance Specification](#).

While the resource pack is effective, bills will be settled in the following sequence: free tier > resource pack > pay-as-you-go. Usage beyond the free tier and the resource pack's capacity will be billed using the pay-as-you-go mode.

If an account has overdue payments (the account's balance is below 0), the CFS service will be suspended after 24 hours, regardless of whether the resource pack is effective or not.

Resource Pack Pricing

Note:

The unit prices for the NFS and the CIFS/SMB file systems are the same.

Storage Class	Region	Specification	1-Month	6-Month	12-Month
			Price (USD)	Price (USD)	Price (USD)
High-Performance	The Chinese mainland				
		50 GB	12	62.4	117
		200 GB	48	249.6	468
		500 GB	118	624	1,170
		2 TB	485	2,396.20	4,153
		5 TB	1,185	5,990.40	10,383
		20 TB	4,739	23,961.60	41,533
		50 TB	11,182	55,910.40	95,846
Standard	The Chinese mainland	50 GB	3	15	26
		200 GB	10	52	90
		500 GB	23	115	205
		2 TB	93	470	848
		5 TB	232	1,167	2,110
		20 TB	862	4,347	7,868
		50 TB	2,156	10,869	19,635
		100 TB	4,205	20,953	37,916

Note:

Currently, High-Performance file systems are still in beta testing and are not available to the general public.

Currently, the Turbo series cannot be billed using a resource pack (prepaid).

Examples

The effective period and the file system performance of resource packs

Suppose that you purchased two High-Performance storage packs (Guangzhou Zone 3, 200 GB, **3-month effective period**) at 14:30 on July 15, 2020 and bound them to file system A and file system B, respectively.

The two storage packs will be used to offset 200 GB of usage for file systems A and B, respectively, with the effective period of 14:30 on July 15, 2020 to 13:29 on October 15, 2020.

If file system A has used 500 GB of storage and file system B has used 100 GB, the throughput upper threshold of A will be $500 \times 0.2 + 200 = 300$ MB/s and the throughput upper threshold of B will be $200 \times 0.2 + 200 = 240$ MB/s.

Resource pack effective period

Suppose that you purchased a **High-Performance storage pack (Guangzhou Zone 3, 200 GB, 3-month effective period)** at 14:30 on July 15, 2020 and bound it to a 300 GB High-Performance file system. From 14:00 to 15:00 on July 15, 2020, a total of **800 GB of High-Performance storage usage** and **3,000 GB of Standard storage usage** was used.

The **200 GB of High-Performance storage usage** will be offset by your resource pack.

The remaining **600 GB of High-Performance storage usage** and **3,000 GB of Standard storage usage** will be billed using the pay-as-you-go billing mode.

Billing Examples

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Example

Assume that an organization's 20 CVMs access two file systems in the Chinese mainland. File system A (storage usage: 11 TB; storage class: Standard) is used to store a fixed amount of cold data.

Total cost of CFS for the hour = $10 \times 1024 \times 0.00006944 + (1 \times 1024) \times 0.00006528 = 0.778$ USD

Note

Standard storage class: File system A uses a total of 11 TB, which will be billed according to tiered pricing rules. 10 TB is charged at 0.00006944 USD/GB/hour, and the remaining 1 TB at 0.00006528 USD/GB/hour. The fees are calculated as follows:

Fees for 10 TB = $10 \times 1024 \times 0.00006944 = 0.711$ USD

Fees for remaining 1 TB = $1 \times 1024 \times 0.00006528 = 0.067$ USD

Turbo Series Billing

Pay-As-You-Go (Postpaid)

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Cloud File Storage (CFS) (Turbo series) is billed using the pay-as-you-go (postpaid) mode. This document describes details of this billing mode. This method applies to all regions where CFS (Turbo series) services are available. CFS charges you based on your configured/purchased storage and bills you on an **hourly** basis.

Billing overview

Billable Item	Billing Method	Billing Cycle	Description
Storage usage	Pay-as-you-go (postpaid)	Hourly	Billed every hour based on the maximum (peak) configured/purchased storage in an hour

Billing details

Note:

We recommend you use the [CFS price calculator](#) to estimate fees.

Storage Class	Region	Range of Maximum (Peak) Value	Unit Price
Standard Turbo	Chinese mainland	Over 40 TiB	0.086 USD/GiB/month (0.00011904 USD/GiB/hour)
	Finance zones in the Chinese mainland		0.137 USD/GiB/month (0.00019047 USD/GiB/hour)
	United States		0.127 USD/GiB/month (0.00017658 USD/GiB/hour)
	Europe, Southeast Asia, and Hong Kong/Macao/Taiwan (China)		0.141 USD/GiB/month (0.00019642 USD/GiB/hour)
High-Performance	Chinese mainland	Over 20 TiB	0.2 USD/GiB/month (0.00027777 USD/GiB/hour)

Turbo	Finance zones in the Chinese mainland	0.32 USD/GiB/month (0.00044444 USD/GiB/hour)
	United States	0.297 USD/GiB/month (0.00041263 USD/GiB/hour)
	Europe, Southeast Asia, and Hong Kong/Macao/Taiwan (China)	0.33 USD/GiB/month (0.00045833 USD/GiB/hour)

Billing Examples

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Example

Assume that an organization has 100 CVMs and has purchased two Standard Turbo instances (A and B). The purchased capacities of A and B are 40 TiB and 80 TiB, respectively. 30 TiB and 80 TiB have been used respectively.

Total cost of CFS for the hour = $40 \times 1024 \times 0.00011904 + 80 \times 1024 \times 0.00011904 = 14.628$ USD

Note:

A Turbo file system is a private cluster for which resources are fully allocated to the user at the time of creation.

Therefore, its billing is only related to the purchased capacity, not the actual usage.

High-Throughput CFS Billing

Pay-As-You-Go (Postpaid)

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High-Throughput Cloud File Storage (CFS) billing covers two parts: storage and throughput, both of which can be billed only in pay-as-you-go mode. This billing mode applies to all regions where High-Throughput CFS services are available. High-Throughput CFS charges you based on your storage usage and bandwidth and bills you on an hourly basis.

Billing overview

Billing Item	Billing Method	Billing Cycle	Description
Storage usage	Pay-as-you-go (postpaid)	Hourly	Billed every hour based on the maximum (peak) storage usage in an hour
Bandwidth	Pay-as-you-go (postpaid)	Hourly	Billed every hour based on the bandwidth actually deployed

Billing details

Note:

We recommend you use the [CFS price calculator](#) to estimate fees.

The unit prices for the NFS and CIFS/SMB file systems are the same.

Billing Item	Region	Range of Maximum (Peak) Value	Unit Price
Storage usage	Chinese mainland	0–1 PiB	0.143 USD/GiB/month (0.00019841 USD/GiB/hour)
	Finance zones in the Chinese mainland	0–1 PiB	0.229 USD/GiB/month (0.00031746 USD/GiB/hour)
	United States	0–1 PiB	0.212 USD/GiB/month (0.0002946 USD/GiB/hour)

	Europe, Southeast Asia, and Hong Kong/Macao/Taiwan (China)	0–1 PiB	0.236 USD/GiB/month (0.00032738 USD/GiB/hour)
Bandwidth	Chinese mainland	0–200 GiB/s	428.571 USD/GiB/s/month (0.59523809 USD/GiB/s/hour)
	Finance zones in the Chinese mainland	0–200 GiB/s	685.714 USD/GiB/s/month (0.95238095 USD/GiB/s/hour)
	United States	0–200 GiB/s	636.428 USD/GiB/s/month (0.88392857 USD/GiB/s/hour)
	Europe, Southeast Asia, and Hong Kong/Macao/Taiwan (China)	0–200 GiB/s	707.143 USD/GiB/s/month (0.98214285 USD/GiB/s/hour)

Billing Examples

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Example

An organization has 300 CVMs that need to access High-Throughput file systems in the Chinese mainland. Currently, its storage usage is 5 TiB, and deployed bandwidth capacity is 10 GiB/s (9 GiB/s used).

Total cost of CFS per hour = $5 \times 1024 \times 0.00019841 + 10 \times 0.59523809 = 6.97$ USD.

Note:

The High-Throughput CFS storage is measured based on the peak storage used in an hour and billed hourly.

The High-Throughput CFS bandwidth is measured based on the bandwidth capacity actually deployed (independent of the bandwidth quota used) and billed hourly. To scale the existing bandwidth capacity, [submit a ticket](#).

Billing Mode

Pay-As-You-Go (Postpaid)

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Cloud File Storage (CFS) snapshots are billed using the pay-as-you-go (postpaid) mode. This document describes this billing mode in detail. This method applies to all regions where CFS snapshots are available. CFS charges you based on the size of snapshots generated and bills you on an hourly basis.

Billing overview

Billable Item	Billing Mode	Billing Cycle	Description
Snapshot size	Pay-as-you-go (postpaid)	Hourly	Billed every hour based on the maximum (peak) size of snapshots generated in an hour

Billing details

Note:

We recommend you use the [CFS price calculator](#) to estimate fees.

Product Type	Region	Unit Price
Snapshot (for Standard/High-Performance CFS)	Chinese mainland	0.017 USD/GiB/month (0.00002381 USD/GiB/hour)
	Finance zones in the Chinese mainland	0.027 USD/GiB/month (0.00003809 USD/GiB/hour)
	United States	0.025 USD/GiB/month (0.00003532 USD/GiB/hour)
	Europe, Southeast Asia, and Hong Kong/Macao/Taiwan (China)	0.028 USD/GiB/month (0.00003929 USD/GiB/hour)

Billing Examples

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Example

Assume that an organization has two Cloud File Storage (CFS) instances (A and B) in the Beijing region. A is a standard CFS file system used for cold data storage (storage usage: 11 TB). B is a High-Performance CFS file system used for the organization's DevOps platform, with 15 TB storage. For file system A, a snapshot is manually created (size: 11 TB). For file system B, an automatic snapshot policy is executed once a day. So far, five automatic snapshots have been generated with snapshot sizes of 15 TB, 0.5 TB, 0.5 TB, 1 TB, and 2 TB, totaling 19 TB.

Total cost of CFS snapshots per hour = $(11 + 15 + 0.5 + 0.5 + 1 + 2) \times 1024 \times 0.00002381 = 0.73$ USD

Note:

The CFS snapshot feature only captures the changes made to the data since the last snapshot. The specific amount of data captured depends on the changes made at the block level between the current snapshot and the previous one. If the initial full snapshot in a snapshot chain is deleted, the system will automatically merge the data from the deleted snapshot with the subsequent snapshots and update the snapshot size statistics accordingly.

IA Storage Billing

Pay-As-You-Go (Postpaid)

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Cloud File Storage (CFS) IA storage is billed using the pay-as-you-go (postpaid) mode. This document describes this billing mode in detail. This method applies to all regions where CFS IA storage services are available. CFS charges you based on your IA storage usage and access and bills you on an **hourly** basis.

Billing overview

Billable Item	Billing Method	Billing Cycle	Description
Storage usage	Pay-as-you-go (postpaid)	Hourly	Billed every hour based on the maximum (peak) storage usage in an hour
Accessed data	Pay-as-you-go (postpaid)	Hourly	Billed every hour based on the actual data accessed, including from Turbo to IA storage and the reverse

Billing details

Note:

We recommend you use the [CFS price calculator](#) to estimate fees.

Billable Item	Region	Range of Maximum (Peak) Value	Unit Price
IA storage - storage usage	Chinese mainland	0-100 PiB	0.017 USD/GiB/month (0.00002381 USD/GiB/hour)
	Finance zones in the Chinese mainland	0-100 PiB	0.028 USD/GiB/month (0.00003929 USD/GiB/hour)
	United States	0-100 PiB	0.025 USD/GiB/month (0.00003532 USD/GiB/hour)
	Europe, Southeast Asia, and Hong Kong/Macao/Taiwan	0-100 PiB	0.027 USD/GiB/month (0.00003809 USD/GiB/hour)

	(China)		
IA storage - accessed data	Chinese mainland	0-100 PiB	0.0086 USD/GiB
	Finance zones in the Chinese mainland	0-100 PiB	0.0141 USD/GiB
	United States	0-100 PiB	0.0127 USD/GiB
	Europe, Southeast Asia, and Hong Kong/Macao/Taiwan (China)	0-100 PiB	0.0137 USD/GiB

Billing Case

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Examples

An organization has 20 CVMs in the Chinese mainland, and uses a solution of 40 TiB Standard Turbo file system and IA storage to store AI training sample/model data. At 10:00 AM on July 1, data in the Standard Turbo system and in the IA storage is 25 TiB and 250 TiB, respectively. During this hour, 50 GiB of data is pulled from IA storage and 20 GiB transitioned to IA storage.

The CFS costs for this hour are as follows:

Cost of **Standard Turbo**: $40 \times 1024 \times 0.000080555 = 4.875 \text{ USD}$

Cost of **IA storage usage**: $250 \times 1024 \times 0.00002381 = 6.096 \text{ USD}$

Cost of **IA storage access**: $(50 + 20) \times 0.00857 = 0.6 \text{ USD}$

Total cost: Cost of Standard Turbo + Cost of IA storage usage + Cost of IA storage access = $4.875 + 6.096 + 0.6 = 11.571 \text{ USD}$

Note:

Standard Turbo file systems are charged according to the storage capacity deployed, rather than the **actual usage**. Both upstream and downstream access involved in IA storage will be billed.

Storage Resource Units

Overview

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Storage resource units are prepaid (monthly subscription) discount packages for different sub-products and billable items in Cloud File Storage (CFS). They cover all billable items of all CFS sub-projects (Standard, High-Performance, Standard Turbo, High-Performance Turbo, High-Throughput, and CFS snapshots).

Strengths

Applicable to all CFS billable items for easier management

Compared with a traditional resource package for a single product/billable item, a storage resource unit applies to a wider scope. It allows you to purchase and manage resource packages in an easier way if multiple CFS sub-products and billable items are involved.

Cumulative and flexible

Storage resource units are cumulative, making them more flexible.

Automatic deduction for multiple instances for more flexible use

Storage resources units can be deducted for all file system instances, reducing the complexity of managing them.

Purchase notes

Storage resource units can be deducted for all billable items involved in all regions where CFS services are available.

They apply to the Tencent Cloud Chinese site only.

Storage resource units are prepaid and take effect immediately upon purchase.

The portion of a storage resource unit not used in a cycle cannot be carried forward to the next cycle.

Storage resource units are cumulative. If you purchase multiple storage resource units at a time, their specs will be accumulated, but the validity periods will not.

After storage resource units expire or are used up, your CFS-related usage will be automatically billed in pay-as-you-go mode.

While storage resource units are valid, bills will be settled in the sequence of "storage resource unit > pay-as-you-go mode". Usage exceeding the capacities of storage resource units will be billed using the pay-as-you-go mode.

If an account has overdue payments (with an account balance less than 0), CFS services will be suspended immediately, regardless of whether there are valid storage resource units.

Storage resource units and Standard resource packages do not conflict. They can be used cumulatively. We recommend you choose storage resource units. Standard resource packages will be gradually phased out.

Deduction description

Rules

The usages of all CFS billable items will be pushed based on their peak values in an hour, and available storage resource units will be deducted accordingly. The usages exceeding the capacities of storage resource units will be billed in pay-as-you-go mode. Each billable item will consume the corresponding quota of the storage resource unit based on the unit price of the billable item in pay-as-you-go mode.

For example, the pay-as-you-go unit price of the storage usage of High-Performance CFS in the Chinese mainland is 0.23 USD/GB/month (0.00031944 USD/GB/hour), and 23 U storage resource units can fully cover a 100 GB High-Performance instance. You can choose the validity period of the units as needed.

Deduction details

After storage resource units are purchased, there is a quota for the number of storage resource units available for deduction each hour, and the deduction will be at the same rate as the one-month price for that type of product in pay-as-you-go mode.

The table below shows the number of storage resource units required to deduct 1 GB usage in different storage classes.

Product Type/Region	Chinese mainland	Finance zones in the Chinese mainland	United States	Europe, Southeast Asia, and Hong Kong/Macao/Taiwan (China)
Standard	0.058 U	0.0928 U	0.08613 U	0.0957 U
High-Performance	0.23 U	0.368 U	0.34155 U	0.3795 U
Standard Turbo	0.09 U	0.144 U	0.13365 U	0.1485 U
High-Performance Turbo	0.2 U	0.32 U	0.297 U	0.33 U
Snapshot	0.01714 U	0.02743 U	0.02546 U	0.02829 U

Example:

The table below shows how 16 U storage resource units can be used to deduct at different points of time the usage in High-Performance CFS in the Chinese mainland.

Billing Time	Usage of High-Performance CFS (GB)	Available Quota of Storage Resource Unit (U)	Usage Billed Pay-As-You-Go	Pay-As-You-Go Cost (Hour)
14:00 on December 10, 2022	5	23	$\text{MAX}[0.5 - 23 / 0.23] = 0$	0 USD
15:00 on December 10, 2022	100	23	$100 - 23 / 0.23 = 0$	0 USD
16:00 on December 10, 2022	110	16	$110 - 23 / 0.23 = 10$	$10 \times 0.23 / 24 / 30 = 0.003 \text{ USD}$

Deduction priority

The deduction priority for different product types is as follows:

Standard > High-Performance > Standard Turbo > High-Performance Turbo > High-Throughput >> Snapshots

Note:

The priority is based only on sub-product types. It does not apply to billable items or regions.

Accumulation

CFS storage resource units are cumulative. The validity of multiple storage resource units purchased at a time is as follows:

Assume that you purchase two storage resource units on August 15, 2022, in the following specs, respectively: 300 U, 3-month validity, and immediate effect; 100 U, 6-month validity, and immediate effect:

Validity	Deduction Description	Available Quota of Storage Resource Unit
August 15, 2022 - November 15, 2022	During the validity, the storage resource units can be used to deduct the costs of all CFS billable items (pay-as-you-go) in the Tencent Cloud Chinese site to the extent of the quota available each month.	300 U + 100 U
November 15, 2022 - February 15, 2023	During the validity, the storage resource units can be used to deduct the costs of all CFS billable items (pay-as-you-go) in the Tencent Cloud Chinese site to the extent of the quota available each month.	100 U

Note:

For price details of storage resource units, see [Storage Resource Unit Pricing](#).

Purchase

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Cloud File Storage (CFS) provides various prepaid storage resource units. Purchase them according to your business needs.

Note:

For more information on the purchase, validity period, and effective scope of storage resource units, see [Storage Resource Unit Overview](#).

Directions

1. Log in to the [CFS console](#).
2. On the left sidebar, click **Resource Pack > Storage resource units** to enter the storage resource unit management page.
3. Click [Purchase storage resource unit](#).
4. Select the specification, quantity, and period of the storage resource unit according to your business requirements (the higher the specification and the longer the period, the larger the discount).
5. Click **Buy Now**.
6. Make the payment as prompted. The storage resource unit takes effect in the month you purchase it.

Resource Purchase

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CFS uses the pay-as-you-go billing mode.

CFS bills you at pay-as-you-go rates when you start to use it, saving you from a separate purchase of resources.

Viewing Bills

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This document describes how to view Cloud File Storage (CFS) bills using the console, including bills by instance and bill details.

Directions

1. Log in to the Tencent Cloud console and go to the [Billing Center](#).
2. On the left sidebar, select **Cost Management > Consumption Bill** to enter the bill management page.
3. Select a target month above. Select the **Bill by Instance** tab and select **CFS** as the product type.

Note:

Bill by Instance summarizes the billable items by instance ID on a monthly basis. Select this tab to quickly learn about the consumption of resources.

Bill Details 2023-07

Bill by Instance Bill Details

*The current month's final bill for resource consumption will be generated on the 3rd day of the upcoming month. Prior to this date, deductions are not final and are for reference purp
Expense figures in Bill Details are accurate up to 8 decimal places. Expense figures in Bill by Instance are rounded off to 2 decimal places. Actual deduction amount will be in 2 decima*

All products Please choose one product All Projects All Regions All AZs

☐ Do not display \$0 transactions

Total Cost (Including Tax) 0.00 USD = Total Amount After Discount (Excluding Tax) 0.00 USD - Voucher Deduction 0.00 USD + Tax Amount 0.00 USD

Instance ID	Instance Name	Product Name	Subproduct Name	Billing Mode	Instance Type ?
No data yet					

Total items: 0

4. Select the **Bill Details** tab and select **CFS** as the product type.

Note:

Bill Details include the charge records for each hour, so the data volume is large in most cases. You need to download the bill details to view them. Select this tab to view the bill data at a higher level of statistical granularity.

Bill Details

2023-07



Bill by Instance

Bill Details

i The current month's final bill for resource consumption will be generated on the 3rd day of the upcoming month. Prior to this date, deductions are not final and are for reference purposes only. Expense figures in Bill Details are accurate up to 8 decimal places. Expense figures in Bill by Instance are rounded off to 2 decimal places. Actual deduction amount will be in 2 decimal places.

All products ▾Please choose one product ▾Please choose one subproduct ▾All Projects ▾All Regions ▾

All transaction types ▾☐ Do not display \$0 transactions

Total Cost (Including Tax) 0.00000000 USD = Total Amount After Discount (Excluding Tax) 0.00000000 USD - Voucher Deduction 0.00000000 USD + Amount 0.00000000 USD

Instance ID	Instance Name	Product Name	Billing Mode	Instance Type ?	Project Name	Region
No data yet						

Total Items: 0

Arrears Reminder

Last updated : 2024-01-22 21:58:08

Note:

If you are a customer of a Tencent Cloud partner, the rules regarding resources when there are overdue payments are subject to the agreement between you and the partner.

Overdue payment alerts for pay-as-you-go resources

Alert for insufficient balance

We will estimate the number of days it takes your account balance to become negative based on the usage in the last 24 hours and current balance. If it is less than 5 days, we will send a reminder to your Tencent Cloud root account and all the sub-accounts via email, SMS, and phone call.

Overdue payment alert

For pay-as-you-go resources, fees are deducted on the hour. When your account balance is below zero, we will notify your Tencent Cloud root account and all the sub-accounts via email, SMS, and Message Center.

Processing for overdue payments

1. The Cloud File Storage (CFS) file system can be used normally within 24 hours after your account has overdue payment (as shown in the orange segment in the figure above), but there will be an alert informing you of upcoming service suspension in the console.
2. If your account is not topped up to a positive value between 24 hours and 168 hours (as shown in the red segment in the figure above) after your account has overdue payment, CFS will suspend the service, the file system will not be available for reads/writes but will still be billed, and only the top-up operation can be performed in the console. After your account balance becomes positive, the service will be automatically resumed and available for reads/writes.
3. If your account balance remains negative for 7 days (as shown in the black segment in the figure above), the pay-as-you-go CFS file system will be repossessed. At this point, all data will be cleared and cannot be recovered.
4. Your Tencent Cloud root account and all the sub-accounts will be notified of the CFS repossession via email, SMS, and Message Center.

Note:

After you stop using pay-as-you-go resources, **terminate them as soon as possible** to avoid fee deduction.

After a resource is terminated or repossessed, its data will be cleared and cannot be recovered.

Since your actual resource consumption is constantly changing, some slight discrepancies may exist for your stated balance.