Scalable File Service

Billing

 Issue
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Contents

1 Billing Overview	1
2 Billing Modes	3
2.1 Overview	3
2.2 Yearly/Monthly Billing	4
2.3 Pay-per-Use Billing	7
2.4 Resource Packages	9
3 Billed Items	12
4 Billing Examples	15
5 Billing Mode Changes	17
5.1 Overview	17
5.2 Pay-per-Use to Yearly/Monthly	17
5.3 Yearly/Monthly to Pay-per-Use	18
6 Renewing Subscriptions	21
6.1 Overview	21
6.2 Manually Renewing a File System	22
6.3 Auto-renewing a File System	26
7 Bills	29
8 Arrears	31
9 Billing Termination	33
10 Cost Management	35
11 Billing FAQ	40
11.1 How Do I Purchase SFS?	40
11.2 How Do I Renew the Service?	42
11.3 How Do I Check Whether the Subscriber Is in Arrears?	43
11.4 Can I Purchase SFS Capacity-Oriented Resource Packages When I Still Have Valid Ones in Use?	43
11.5 How Do I Check the Usage of an SFS Capacity-Oriented Resource Package?	44
11.6 How Do I Adjust the Size of an SFS Capacity-Oriented Resource Package?	45
11.7 Do SFS Capacity-Oriented and SFS Turbo Share One Resource Package?	45

Billing Overview

In this document, you will learn about how SFS file systems are billed, how you can renew subscriptions and manage costs, and what happens if your account goes into arrears. For details, see **Product Pricing Details**.

• Billing Modes

There are yearly/monthly and pay-per-use billing modes. Each one has different advantages and disadvantages.

Yearly/Monthly: You pay upfront for the amount of time you expect to use the SFS file system for. You will need to make sure you have a top-up account with a sufficient balance or have a valid payment method configured first.

Pay-per-use: You can start using the SFS file system first and then pay as you go.

For details about the two billing modes, see **Overview**.

You can also change the billing mode later if it no longer meets your needs. For details, see **Overview**.

Billed Items

SFS includes SFS Capacity-Oriented, General Purpose File System, and SFS Turbo. They all support pay-per-use billing. You will only be billed for the storage capacity of a general purpose file system, an SFS Capacity-Oriented file system, or an SFS Turbo file system.

For details about the billing factors and formulas for each billed item, see **Billed Items**.

For details about the billing samples and the billing for each item, see **Billing Examples**.

• Renewing Subscriptions

After a yearly/monthly SFS file system expires, it cannot be used properly. If you want to continue using an SFS file system after it expires, you need to renew the file system subscription within the specified period. Otherwise, the file system will be automatically released, and data may be lost. You can renew your subscriptions manually or automatically. For more details, see **Overview**.

• Viewing Bills

You can choose **Billing & Costs** > **Bills** to check the SFS transactions and bills. For details, see **Bills**.

• Arrears

If there is not a sufficient account balance to pay for your bill and there is no other payment method configured, your account will go into arrears. If you want to continue using your SFS file systems, you will need to top up your account in a timely manner. For details, see **Arrears**.

• Stopping Billing

If you no longer need to use your SFS file system, you can unsubscribe from or delete it to stop the billing. For details, see **Billing Termination**.

• Managing Costs

You can allocate, analyze, and optimize costs to save more money. For details, see **Cost Management**.

2 Billing Modes

2.1 Overview

There are yearly/monthly and pay-per-use billing modes. Each one has different advantages and disadvantages.

- Yearly/Monthly is a prepaid billing. You pay in advance for a subscription term, and in exchange, you get a discounted rate. The longer the subscription term, the bigger the discount. Yearly/Monthly billing is a good option for long-term, stable services.
- Pay-per-use is a postpaid billing mode. You pay as you go and just pay for what you use. There are no wasted resources.

 Table 2-1 lists the differences between the billing modes.

Billing Mode	Yearly/Monthly	Pay-per-Use
Payment	Prepaid	Postpaid
Billing Method	Billed by the subscription term you purchase	Billed by the hour
Billed Items	SFS Turbo (excluding HPC Cache file systems)	SFS Turbo
Changing the Billing ModeYearly/Monthly can be changed to pay-per-use.Pay-per-use billing takes effect only after the yearly/ monthly subscription ends.Yearly/Monthly to Pay-per-		Pay-per-use can be changed to yearly/monthly. Pay-per-Use to Yearly/ Monthly
	Use	

Table 2-1	Differences	between	billing	modes
-----------	-------------	---------	---------	-------

Changing the File System Type	Not supported	Not supported
Changing the File System Capacity	 Supported File system capacity cannot be reduced. File system capacity can be expanded, and you need to pay for the price difference. The file system expiration time remains unchanged after an expansion. 	 Supported File system capacity cannot be reduced. File system capacity can be expanded. Additional capacities are billed on a pay-per-use basis.
Applicatio n Scenarios	Recommended for resources expected to be in use long- term. A cost-effective option for scenarios where the resource usage duration is predictable.	Recommended when the resource demands are likely to fluctuate and you want more flexibility.

2.2 Yearly/Monthly Billing

Application Scenarios

If you want to ensure resource stability over a certain period of time, yearly/ monthly billing is a good choice for the following types of workloads:

- Long-term workloads with stable resource requirements, such as official websites, online malls, and blogs.
- Long-term projects, such as scientific research projects and large-scale events.
- Workloads with predictable traffic bursts, for example, e-commerce promotions or festivals.
- Workloads with high data security requirements

Billed Items

Table 2-2 SFS Capacity-Oriented billing model

Billed Item	Description
Storage space	Billed based on the used capacity and usage period of the file system

Billed Item	Billing Factor	Description	
Standard storage	Storage space	Billed based on the used capacity and usage period of the general purpose file system	
Infrequent access storage	Storage space	Billed based on the used capacity and usage period of the general purpose file system	
	Write traffic	Billed based on the volume of the write traffic	
	Read traffic	Billed based on the volume of the read traffic	

 Table 2-3
 General Purpose File System billing model

 Table 2-4 SFS Turbo billing model

Billed Item	Billing Factor
SFS Turbo file system	Purchased capacity

Billed Usage Period

A yearly/monthly SFS file system is billed for the purchased duration. The billing starts from when you activated or renewed the subscription, and ends at 23:59:59 of the expiry date.

For example, if you purchased a one-month SFS file system on March 8, 2023, 15:50:04, the billed usage period was from March 8, 2023, 15:50:04 to April 8, 2023, 23:59:59.

Billing Examples

Suppose you purchased a one-month subscription of an SFS Turbo General file system (Standard, 500 GiB) on March 8, 2023, 15:50:04, and renewed the subscription for one more month before the initial subscription expired. The following usage periods would be billed:

- March 8, 2023, 15:50:04 to April 8, 2023, 23:59:59
- April 8, 2023, 23:59:59 to May 8, 2023, 23:59:59

You would be billed for both usage periods. In each period, the file system would be billed as follows:

File system price = File system unit price x Capacity x Purchased duration

Price Change After Specification Change

If the specifications of a yearly/monthly SFS file system no longer meet your needs, you can change the specifications, such as **resize the file system** on the SFS console. The system will recalculate the price and either bill or refund you the difference.

If you upgrade your file system specifications, you need to pay the difference in price.

Price difference for the specification upgrade = Price for the new specifications × Remaining period - Price for the original specifications × Remaining period

The remaining period is the remaining days of each calendar month divided by the maximum number of days in each calendar month.

For more information, see **Pricing of a Changed Specification**.

Impact of Expiration

Figure 2-1 shows the statuses a yearly/monthly SFS file system can go through throughout its lifecycle. After an SFS file system is purchased, it enters the valid period and works normally during this period. If the file system is not renewed after it expires, before being deleted, it first enters a grace period and then a retention period.

Figure 2-1 Lifecycle of a yearly/monthly SFS file system



Expiration Reminder

The system will send you a reminder (by email, SMS, or in-app message) 7 days before a yearly/monthly SFS file system expires to remind you to renew the subscription.

Impact of Expiration

If your yearly/monthly SFS file system is not renewed after it expires, it changes to the **Expired** state and enters a grace period. During the grace period, you can access the file system, but cannot perform certain operations.

If the yearly/monthly SFS file system is not renewed after the grace period ends, its status turns to **Frozen** and it enters a retention period. You cannot perform any operations on the file system while it is in the retention period.

If the yearly/monthly SFS file system is not renewed by the time the retention period ends, the file system will be released and data cannot be restored.

NOTE

- For details about the grace period and retention period, see What Is a Grace Period of Huawei Cloud? How Long Is It? and What Is a Retention Period of Huawei Cloud? How Long Is It?
- For details about renewal, see **Overview**.

2.3 Pay-per-Use Billing

Pay-per-use billing means you pay nothing up front and are not tied into any contract or commitment. This section describes the billing rules for pay-per-use SFS file systems.

Application Scenarios

Pay-per-use billing is good for short-term, bursty, or unpredictable workloads that cannot tolerate any interruptions, such as applications for e-commerce flash sales, temporary testing, and scientific computing.

Billed Items

• SFS Capacity-Oriented

Pay-per-use billing is preset by default. You can create an SFS Capacity-Oriented file system for free and pay only for the used storage space based on for how long you use the file system. You will be billed for the file system by the hour, and there is no minimum cost. Any usage period of less than an hour is rounded up to an hour.

Table 2-5 SFS Capacity-Oriented billing mod

Billed Item	Description
Storage space	Billed based on the used capacity and usage period of the file system

• General Purpose File System

Pay-per-use billing is preset by default. You can create a file system for free and pay only for the used storage space based on for how long you use the file system. You will be billed for the file system by the hour, and there is no minimum cost. Any usage period of less than an hour is rounded up to an hour. The read/write traffic is billed based on the actual reads/writes.

Table 2-6 Ge	neral Purpose	File System	billing mod	el
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Billed Item	Billing Factor	Description
Standard storage	Storage space	Billed based on the used capacity and usage period of the file system
Infrequent access storage	Storage space	Billed based on the used capacity and usage period of the file system
	Write traffic	Billed based on the volume of the write traffic
	Read traffic	Billed based on the volume of the read traffic

• SFS Turbo

Pay-per-use billing is preset by default. You will be billed for the storage capacity based on for how long you use the SFS Turbo file system. The billing starts right after you create a file system. The file system usage is billed by the hour, and any usage period of less than an hour is rounded up to an hour.

Table	2-7	SFS	Turbo	billing	model
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Billed Item	Billing Factor
SFS Turbo file system	Purchased capacity

Billed Usage Period

The minimum billed usage period of a file system is an hour regardless of when you purchase it. For example, if you purchased a pay-per-use file system at sometime between 18:00:00 to 19:00:00, the usage period of an hour would be billed (18:00:00 to 19:00:00).

Billing Formula

Storage price = Unit price per GB x Storage capacity x Usage period

Write traffic price = Unit price per GB x Write traffic volume

Read traffic price = Unit price per GB x Read traffic volume

NOTE

- In a lifecycle rule of a general purpose file system, the system presets **Transition to Infrequent Access After** to **14 days**. In this case, you will be billed for 14 days based on the standard storage billing. For the usage after 14 days, you will be billed based on the infrequent access storage billing.
- To obtain the unit price per GB, see the pay-per-use prices on the SFS Pricing Details page.

Billing Examples

Suppose you purchased a 40 MB/s/TiB SFS Turbo file system (500 GB capacity). In a region that charges 0.45 USD/GB-month, you would be billed 225 USD (0.45 USD/GB-month x 500 GB x 1 month).

Price Change After Specification Change

If you change the specifications of a pay-per-use SFS file system, the original order will become invalid and a new order will be placed. You will be billed based on the new specifications.

If you change file system specifications within a given hour, multiple records will be generated. Different records record the billing for different specifications. For example, if you purchased a pay-per-use, 40 MB/s/TiB SFS Turbo file system (500 GB capacity) at 09:00:00 and expanded the file system capacity to 600 GB at 09:30:00, the following items would be billed:

- 500 GB file system from 09:00:00 to 09:30:00
- 600 GB file system from 09:30:00 to 10:00:00

Impact of Arrears

Figure 2-2 shows the statuses a pay-per-use SFS file system can have throughout its lifecycle. After an SFS file system is created, it enters the valid period and works normally during this period. If your account goes into arrears, the file system enters a grace period and then a retention period.

Figure 2-2 Life cycle of a pay-per-use SFS file system



Arrears Reminder

The system will bill you for pay-per-use resources after each billing cycle ends. If your Huawei account goes into arrears, we will notify you by email, SMS, or in-app message.

Arrears Impact

If your account is insufficient to pay your amount due, your account goes into arrears, and your pay-per-use file systems enter a grace period. You are still responsible for expenditures generated during the grace period. You can view the charges on the **Billing & Costs** > **Overview** page and pay any past due balance as needed.

If you do not bring your account balance current before the grace period expires, the file systems turn to **Frozen** and enter a retention period. You cannot perform any operations on pay-per-use file systems in the **Frozen** status.

If you do not bring your account balance current before the retention period ends, the file systems will be released and the data cannot be restored.

NOTE

- For details about the grace period and retention period, see What Is a Grace Period of Huawei Cloud? How Long Is It? and What Is a Retention Period of Huawei Cloud? How Long Is It?
- For details about top-up, see Making Repayments (Postpaid Direct Customers).

2.4 Resource Packages

SFS offers yearly/monthly resource packages for you to save money. You can purchase resource packages based on your data volume and for how long you

want to store data in your file system. Any usage beyond your package will be billed on a pay-per-use basis. For how to purchase resource packages, see Yearly/ Monthly Subscription.

SFS resource packages cannot be unsubscribed from, so it is recommended that you purchase resource packages based on the data volume and validity period you require.

Resource packages cannot be used across regions. Check your region before purchasing resource packages.

For an SFS Turbo file system, in addition to purchasing a resource package when creating the file system, you can also change to yearly/monthly billing after the file system is created.

SFS Capacity-Oriented file systems and general purpose file systems can share a resource package.

Purchasing a Resource Package

Procedure for SFS Capacity-Oriented and General Purpose File System

- **Step 1** Purchase a resource package.
 - 1. Log in to the SFS console, go to the resource management page, and click **Buy Storage Package** in the upper right corner.
 - 2. On the displayed page, configure the parameters.

You can view the pricing standards on Product Pricing Details.

- 3. Click Next.
- 4. Confirm the order information and click **Submit**.

To modify the order information, click **Previous** and then continue with your purchase.

- 5. Pay for the order.
- 6. Return to the SFS console to use SFS.

Resource packages cannot be viewed on the SFS console. To view resource packages, see **How Do I Check the Usage of an SFS Capacity-Oriented Resource Package?**.

D NOTE

- An SFS Capacity-Oriented or a General Purpose File System resource package can be used immediately after payment. If the package capacity is greater than the used capacity of the file system, pay-per-use billing stops immediately. The package capacity is preferentially used when you use file systems.
- SFS Capacity-Oriented and General Purpose File System resource packages cannot be expanded, but can be purchased multiple times. For details, see Can I Purchase SFS Capacity-Oriented Resource Packages When I Still Have Valid Ones in Use?

For example, if a user purchased a 1 TB SFS Capacity-Oriented or General Purpose File System resource package for a year and created a 500 GB SFS Capacity-Oriented file system and used all 500 GB, the used capacity of the resource package is 500 GB. For how to view the resource package usage, see **How Do I Check the Usage of an SFS Capacity-Oriented Resource Package?** One month later, the user created another 600 GB SFS Capacity-Oriented file system (file system B). Now the purchased 1 TB capacity is used up, and the usage exceeding the package quota (76 GB) is billed on a pay-per-use basis. If you do not want to be billed pay per use, you can purchase more resource packages. For details, see **Purchasing a Resource Package**.

Step 2 Use SFS.

- 1. Choose **Storage** > **Scalable File Service** to go to the SFS console.
- 2. Click **Create File System**. The package capacity is automatically used without any additional configuration. If you have multiple file systems, they can share the same resource package.

----End

Procedure for SFS Turbo

Method 1: Purchase a yearly/monthly file system. Create a file system and set the billing mode to **Yearly/Monthly**. For details, see **Create a File System**.

Method 2: In the file system list, find the pay-per-use file system you want to change their billing mode, and click **Change to Yearly/Monthly** in the **Operation** column.

Follow-Up Operations

When a yearly/monthly resource package expires or is used up, the additional usage will be billed on a pay-per-use basis. To ensure the proper use of your file system, check your account balance regularly. To continue using the yearly/ monthly resource package, renew the resource package. For details, see **Overview**.

For resource package usage FAQs, see **Billing FAQ**.

3 Billed Items

SFS includes SFS Capacity-Oriented, General Purpose File System, and SFS Turbo. They all support pay-per-use billing. You will only be billed for the storage capacity of a general purpose file system, an SFS Capacity-Oriented file system, or an SFS Turbo file system.

Table 3-1 SFS Capacity-Oriented billing model

Categor y	Billed Item	Description	Billing Formula	Billing Mode
Storage	Storage space	Billed based on the used capacity and usage period of the file system	Storage price = Unit price per GB x Used capacity x Usage period	Pay-per-use Yearly/ Monthly

Table 3-2 General	Purpose	File System	billing model
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Categ ory	Billed Item	Billing Factor	Description	Billing Formula	Billing Mode
Storag e	Standard storage	Storage space	Billed based on the used capacity and usage period of the file system	Storage price = Unit price per GB x Used capacity x Usage period	Pay-per- use Yearly/ Monthly

Categ ory	Billed Item	Billing Factor	Description	Billing Formula	Billing Mode
	Infrequent access storage	Storage space	Billed based on the used capacity and usage period of the file system	Storage price = Unit price per GB x Used capacity x Usage period NOTE In a lifecycle rule of a general purpose file system, the system presets Transition to Infrequent Access After to 14 days . In this case, you will be billed for 14 days based on the standard storage billing. For the usage after 14 days, you will be billed based on the infrequent access storage billing.	Pay-per- use
Traffic	Infrequent access storage	Write traffic	Billed based on the volume of the write traffic	Write traffic price = Unit price per GB x Write traffic volume	Pay-per- use
		Read traffic	Billed based on the volume of the read traffic	Read traffic price = Unit price per GB x Read traffic volume	Pay-per- use

Catego ry	Billed Item	Billin g Factor	Description	Billing Formula	Billing Mode
Storage	Standard, Standard- Enhanced, Performance, Performance- Enhanced, 20 MB/s/TiB, 40 MB/s/TiB, 125 MB/s/TiB, 125 MB/s/TiB, 500 MB/s/TiB, 1,000 MB/s/TiB	Purch ased capaci ty	Billed based on the purchased capacity and usage period of the file system	Storage price = Unit price per GB x Purchased capacity x Usage period	Pay-per- use Yearly/ Monthly

Table 3-3 SFS Turbo billing model

4Billing Examples

Billing Scenario

A user purchased a pay-per-use file system at 15:00:00 on March 18, 2023. The file system specifications are as follows:

- Type: SFS Turbo, 40 MB/s/TiB
- Capacity: 100 GB

After a period of time, the user found that the current file system specifications no longer met service requirements and expanded the file system capacity to 200 GB at 15:00:00 on March 20, 2023. Since the user wanted to use the file system long term, the user then changed the file system to yearly/monthly billing with a one-month duration at 16:00:00 on March 20, 2023. So how much will the user be billed for this file system in March and April?

Billing Analysis

The total price of this file system involves both pay-per-use and yearly/monthly usage:

- Pay-per-use usage: March 18, 2023, 15:00:00 to March 20, 2023, 16:00:00
- Yearly/monthly usage: March 20, 2023, 16:00:00 to April 20, 2023, 23:59:59

Pay-per-use

- From March 18, 2023, 15:00:00 to March 20, 2023, 15:00:00, the file system capacity was 100 GB and the file system was used for 48 hours, so the price would be \$3.02 USD (\$0.45 USD/GB-month x 100 GB x 48 hours).
- From March 20, 2023, 15:00:00 to March 20, 2023, 16:00:00, the file system capacity was 200 GB and the file system was used for an hour, so the price would be \$0.13 USD (\$0.45 USD/GB-month x 200 GB x 1 hour).

Yearly/Monthly

From March 20, 2023, 16:00:00 to April 20, 2023, 23:59:59, the file system was used with yearly/monthly billing for a month, so the price would be calculated as follows:

\$0.45 USD/GB-month x 200 GB x 1 month = \$90 USD

From March to April, the total price of this file system would be 93.15 USD (3.02 + 0.13 + 90).

5 Billing Mode Changes

5.1 Overview

SFS supports both pay-per-use and yearly/monthly billing as well as resource packages. You can change to yearly/monthly billing if pay-per-use billing no longer meets your needs. For the changeable billed items, see **Billed Items**.

5.2 Pay-per-Use to Yearly/Monthly

If you have a pay-per-use file system that you expect to use for a long time, you can change it to yearly/monthly billing to reduce costs. Doing so will create an order. After you pay for the order, yearly/monthly billing will be applied immediately.

Suppose a user bought a pay-per-use file system at 15:29:16 on April 18, 2023 and changed it to yearly/monthly billing at 16:30:30 on the same day. After the user paid for the order, yearly/monthly billing was applied immediately. On the **Billing & Costs** > **Bills** page, three line items were generated, one for each of the hours the file system was used on a pay-per-use basis, and one for the yearly/monthly subscription:

- Pay-per-use expenditures for 15:29:16 to 16:00:00 on April 18, 2023
- Pay-per-use expenditures for 16:00:00 to 16:30:30 on April 18, 2023
- A single, yearly/monthly expenditure generated April 18, 2023, 16:30:30

Prerequisites

- The file system billing mode is pay-per-use
- The file system status is **Available**.

Procedure

Step 1 Log in to the SFS console.

1. Log in to the management console.

- 2. Click 💿 in the upper left corner and select a region.
- 3. Click \equiv in the navigation tree and choose **Storage** > **Scalable File Service**.
- **Step 2** In the file system list, find the file system you want to change the billing mode.
- **Step 3** In the **Operation** column, choose **More** > **Change to Yearly/Monthly**.
- **Step 4** On the **Change Subscription** page, select the usage duration, confirm the expected expiration time and price, and click **Pay**.

Figure 5-1 Changing to yearly/monthly

	Service Type	Current Configuration	Region	Provisioned On
sfs-tu	Scalable File Service			Jul 21, 2023 18:23:21 GMT+08:00
Choose how often you wo	ould like to renew:			
Renewal Duration 3 months	1			
month 2 months 3 months	4 months 5 months 6 months 7 months	8 months 9 months 10 months 11 r	months 1 year 😁 2 years _{3 y} .	ears 🛍
Superior Superior Date :	Dec 05, 0000 00:50:50 CMT: 00:00 @		_	
Expected Expiration Date .	Jec 25, 2025 25:59:59 GWT+08:00 (0			

Step 5 Select a payment method and make your payment. Once the order is paid, yearly/ monthly billing is applied.

----End

5.3 Yearly/Monthly to Pay-per-Use

After creating a yearly/monthly file system, you can change it to pay-per-use for more flexibility, and you can recoup part of what you paid for the subscription.

NOTE

Pay-per-use billing will be applied only after the yearly/monthly billing duration ends.

Limitations and Constraints

 The file system billing mode cannot be changed from yearly/monthly to payper-use on the SFS console. To do so, go to the Billing & Costs > Renewals page.

Prerequisites

The billing mode can only be changed from yearly/monthly to pay-per-use for file systems whose order status is **Provisioned**.

Procedure

- **Step 1** Log in to the management console.
- **Step 2** Hover over **Billing & Costs** in the upper part of the console and choose **Renewal** from the drop-down list.

The **Renewals** page is displayed.

Step 3 Set the search criteria.

- Under the **Pay-per-Use After Expiration** tab, you can view the resources that already have change to pay-per-use upon expiration configured.
- Under the **Manual Renewals**, **Auto Renewals**, and **Renewals Canceled** tabs, you can change the resources to pay-per-use billing upon expiration.

Figure 5-2 Renewals

Renewals	Quick Links Renew Domain	Set Renewal Date	Modify Message Recipient	Set Deduction Date for Auto-Renewal		
If you want to continue using any resources about to expres refer to How Do Homew Resources? Cannot Find the Resources to Bit Remember? and How Do I Otange the Billing Mode from YsaniyMonthly to Pay-per-Use? Remember? And How Do I Otange the Billing Mode from YsaniyMonthly to Pay-per-Use? If you want to content water pays and the State of th						
S Instances expiring soon: 2 ; Instances to be frozen: 0 ; Instances to be released; 2 . Please renew in time. View instances.						
Express Bopres h 30 days Expres in 15 days Expres in 7 days Coutom Stahus Provisioned Expred O on of show resources that have orders pending payment D on of show resource packages +	Frozen					
Service Type: Scalable File Service 🛛 🖉 Add filter				× Q		
Manual Renewals (20) Auto Renewals (4) Pay-per-Use After Expiration (0) Renewals Canceled (0)						
Batch Renew Enable Auto-Renew Change to Pay-per-Use After Expiration Cancel Renewal Batch Export				Export All: 20		
Instance Name/ID Product Type/Specifications Region Enterprise Project	Provisioned/Expires	Status	Validity Period	Operation		

Step 4 Change yearly/monthly resources to pay-per-use billing upon expiration.

• Single resource: Select the file system you want to change the billing mode and choose **More** > **Change to Pay-per-Use After Expiration** in the **Operation** column.

Figure 5-3 Changing to pay-per-use billing upon expiration for a single resource

Renewals	Duick Links	Renew Domain	Set Renewal Date	Modify Message Recipient	Set Deduction Date for Auto-Renewal	
f you want to contrue using any resources about to expire, refer to How Do I Rever Resources? Cannot Find the Resources to Be Reverse? and How Do I Change the Biting Mode from YearlyMonthly to Pay-per-Use? retenands or changes to pay-persues will be applied after the current absorption term ends. retypous want be and the Append after a terminer absorption term ends. retypous want be and the Append after a terminer absorption term ends. retypous want be and the Append after a terminer absorption term ends. retypous want be ender your subscriptions more easily, refer to Automatically Renewing a Resource and Setting a Renewal Date						
8 Instances expiring soon: 2; Instances to be frozen: 0; Instances to be released: 2. Please renew in time. View instances.						
Expires Diplies in 30 days Diplies in 15 days Diplies in 7 days Custom Status Provisioned D in ot show resources that have orders pending payment D on ot show resources packages + - - -	Expired Frozen					
Service Type: Scalable File Service 🕚 🖇 Add filter					× Q	
Manual Renewals (20) Auto Renewals (4) Pay-per-Use After Expiration (0) Renewals Canceled (0)					
Batch Renew Enable Auto-Renew Change to Pay-per-Use Alter Expiration Cancel Renewal Batch	ch Export				Export All: 20 C	
Instance Name/ID Product Type/Specifications Region Enterprise F	Project Provisioned/Expir	95	Status	Validity Period	Operation	
V C Schilde File Service default	Aug 28, 2023 10:2 Sep 28, 2023 23:5	0:43 GMT+08:00 9:59 GMT+08:00	Provisioned	3 days until expiration Delete after retention oc Enable Auto-Renew Change to Pay-per-Us	Renew More +	
		PAGE COMP AND COMP		Cancel Renewal Release ①	*	

 Multiple resources: Select the file systems you want to change their billing modes and click Change to Pay-per-Use After Expiration above the file system list.

Figure 5-4 Changing to pay-per-use billing upon expiration for multiple resources

Renewals	Quick Links Renew Domain	Set Renewal Date Mo	dify Message Recipient	Set Deduction Date for Auto-Renewal	
 If you want to continue using any resources about to expre. refer to How Do I Renew Resources? Cannot Find the Resources? and How Do I Change the Billing Mode from Yeany/Monthly to Pay get-Use? Renew Bill pay get about the pay and the second second					
8 Instances expiring soon: 2 ; Instances to be frozen: 0 ; Instances to be released: 2 . Please renew in time. View instances.					
Expires Expires in 30 days Expires in 15 days Expires in 7 days Custom Status Provisioned Expired	Frozen				
Do not show resources that have orders pending payment Do not show resource packages *					
$\overline{\mathcal{V}}$ instance ID/Resource ID is used to search by default.				٩	
Manual Renewals (2) Auto Renewals (0) Pay-per-Use Atter Expiration (0) Renewals Canceled (0)					
Batch Renew Enable Auto-Renew Change to Pay-per-Use After Expiration Cancel Renewal Batch Export				Export All: 2	
Instance Name/ID Product Type/Specifications Region Enterprise Project	Provisioned/Expires	Status	Validity Period	Operation	
✓ ♥ \$f5-1 Scalable File Service default 389 SFS turb ; default	Aug 28, 2023 10:20:43 GMT+08:00 Sep 28, 2023 23:59:59 GMT+08:00	Provisioned	3 days until expiration Delete after retention pe	Renew More 🕶	

Step 5 Confirm the change details and click **Change to Pay-per-Use**.

Figure 5-5 Changing to pay-per-use billing upon expiration

	Change to Pay-per-Use After Expiration					More	۶.	Q
<	Change to Pay-per-Use A							
C	The billing mode change to pay-per- After pay-per-use is enabled, the act Auto-renewal will not be applied any	use will be applied after the resource's current subscription term end ual cost incurred while changing the resources will be billed to your more after the resource' billing mode is changed to pay-per-use.	ls. account.					
	Instance Name/ID	Product Information	Auto-Renew (?)	Pay-per-Use Starts		Price		
	✓ sfs- 389	Service Type:Scalable File Service Current Region:C	(*) Disabled	Sep 28, 2023 23:59:59 GMT+08:00		r		
					Total			
					Change to Pay-p	per-Use		

----End

6 Renewing Subscriptions

6.1 Overview

When to Renew Subscriptions

If a yearly/monthly SFS file system is about to expire but you want to continue using it, you need to renew the SFS file system subscription within a specified period, or the file system will be automatically released, and data will be lost and cannot be restored.

Only yearly/monthly SFS file system subscriptions can be renewed. If you use payper-use file systems, just ensure that your account has a valid payment method configured or a top-up account with a sufficient balance.

If you renew the SFS file system before it expires, the file system will be retained and you can continue using it. For details about file system statuses after they have expired and the associated impacts, see **Impact of Expiration**.

How to Renew Subscriptions

You can renew a yearly/monthly SFS file system manually or automatically.

Method	Description
Manually Renewing a File System	You can renew a yearly/monthly SFS file system anytime on the console before it is automatically deleted.
Auto-renewing a File System	You can enable auto-renewal to automatically renew an SFS file system before it expires. This prevents resources from being deleted in case you forget to renew a subscription.

Table 6-1 Renewing a yearly/monthly SFS file system

You can select a method to renew a yearly/monthly SFS file system based on the phase the file system is currently in.

Figure 6-1 Selecting a renewal method based on file system's current phase



- A file system is in the **Available** status after it is provisioned.
- When a file system subscription expires, the file system status will change to **Expired**.
- If an expired file system is not renewed, it enters a grace period. If it is not renewed by the time the grace period expires, the file system will be frozen and enter a retention period.
- If you do not renew the subscription before the retention period expires, your resources will be automatically deleted.

NOTE

For details about the grace period and retention period, see **What Is a Grace Period of Huawei Cloud? How Long Is It?** and **What Is a Retention Period of Huawei Cloud? How Long Is It?**

You can enable auto-renewal any time before a file system expires. By default, the system will make the first attempt to charge your account for the renewal at 03:00 seven days before the expiry date. If this attempt fails, it will make another attempt at 03:00 every day until the subscription is renewed or expired. You can change the auto-payment date for renewal as required.

6.2 Manually Renewing a File System

You can renew a yearly/monthly SFS file system anytime on the console before it is automatically deleted.

Renewing a File System on the Console

Step 1 Log in to the SFS console.

- 1. Log in to the management console.
- 2. Click 🔍 in the upper left corner and select a region.
- 3. Click in the navigation page, choose **Storage** > **Scalable File Service**, and select SFS Capacity-Oriented or SFS Turbo.

- **Step 2** In the file system list, find the yearly/monthly file system to be renewed.
- **Step 3** Choose **More** > **Renew** in the **Operation** column.
- Step 4 Select a renewal duration and optionally select Renew on the standard renewal date. For details, see Setting the Same Renewal Day for Yearly/Monthly Resources. Confirm the price and click Pay.

Figure 6-2 Confirming renewal

If you change the resource specifi The renewal period in effect is not	cations before its renewal period takes effect, the renewa eligible for a 5-day unconditional unsubscription.	al period cannot be unsubscribed fro	om.		
Instance Name/ID	Product Information	Auto-Renew	Renewal Duration	Renewal Date	Fee
✓ sfs- ✓ 389	Current Configuration: Region:	Disabled	1 year	Current: Sep 28, 2023 23: Renewed: Sep 28, 2024 2	
Renewal Duration	ns 3 months 4 months 5 months 6 mont	hs 7 months 8 months	9 months 10 months	11 months 1 year 🖻	2 years 🖬 3 years 🖬
Renewal Date Renew on the	standard renewal date, the 1st of every month at 23:59:1 the expiration date to Renewal Date, the expenditures w	III be added. You can check the ren	ewal days in the Renewal	Duration column.	

Step 5 Select a payment method and make your payment. Once the order is paid for, the renewal is complete.

----End

Renewing a Subscription in the Billing Center

- **Step 1** Log in to the management console.
- **Step 2** Hover over **Billing & Costs** in the upper part of the console and choose **Renewal** from the drop-down list.

The **Renewals** page is displayed.

Step 3 Set the search criteria.

On the **Manual Renewals**, **Auto Renewals**, **Pay-per-Use After Expiration**, and **Renewals Canceled** tab pages, you can view the resources to be renewed.

Figure 6-3 Renewals

Renewals	Guick Links Renew Domain	Set Renewal Date	Modify Message Recipient	Set Deduction Date for Auto-Renewal					
 If you want to continue using any resources about to expire, refer to Hour Da I Retere Resources? Cannot Find the Resources to Be Renewed? and Hour Da I Change the Billing Mode than YaahyMonthly to Pay ser Use? Revewed or Change's to pay-per-vise with applied after resources represented that Minia a Cance Prived and a Reletance Pariod? If you want to retere your subscriptions more easily, refer to Hours and Setting a Resource and Setting a Relevant Data If you want to retere your subscriptions more easily, refer to Automatically Rememp a Resource and Setting a Relevant Data 									
S Instances expiring soon: 2 ; Instances to be frozen: 0 ; Instances to be released: 2 . Please renew in time. View instances.									
Expires Depres in 30 days Expires in 15 days Expires in 7 days Custom Status Provisioned Expired Do not show resource Such area orders pending payment. Do not show resource speciages +	Frozen								
Service Type: Scalable File Service 💿 🗸 Add filter				× Q					
Manual Renewals (20) Auto Renewals (4) Pay-per-Use After Expiration (0) Renewals Canceled (0)									
Batch Renew Enable Auto-Renew Change to Pey-per-Use After Expiration Canoel Renewal Batch Export				Export All: 20 C					
Instance Name/ID Product Type/Specifications Region Enterprise Project	Provisioned/Expires	Status	Validity Period	Operation					

You can move all resources that need to be manually renewed to the **Manual Renewals** tab page. For details, see **Restoring to Manual Renewal**.

Step 4 Manually renew resources.

• Individual renewal: Click **Renew** in the **Operation** column for the desired resource.

Figure 6-4 Individual renewal

Manual Renewals (7) Auto Renewals (4)	Pay-per-Use After Expiration (0)	Renewals Canceled (0)					
Bath Renew Ends Auto-Renew Charge to Pay-son-Use After Explandon Cancel Renewal Bath Expert							
Instance NamelID	Product Type/Specifications	Region	Enterprise Project	Provisioned/Expires	Status	Validity Period	Operation
✓ □ ^{sh} ₃₈	Scalable File Service SFS turb		default	Aug 28, 2023 10:20:43 GMT+08:00 Sep 28, 2023 23:59:59 GMT+08:00	Provisioned	3 days until expiration Delete after retention period	Renew More +

• Batch renewal: Check the boxes for the desired resources, and click **Batch Renew** in the upper left corner.

Figure 6-5 Batch renewal

initial Renewals (T) Auto Renewals (4) Pay-per-Use After Expiration (0) Renewals Canceled (0)								
Bitch Renew Charge to Payoer-Use After Expiration Cancel Renewal Batch Export								
Instance Name1D	Product Type/Specifications	Region	Enterprise Project	Provisioned/Expires	Status	Validity Period	Operation	
✓ ☑ sfs-1 3396	Scalable File Service SFS turb		default	Aug 28, 2023 10:20:43 GMT+05:00 Sep 28, 2023 23:59:59 GMT+05:00	Provisioned	3 days until expiration Delete after retention period	Renew More +	

Step 5 Select a renewal duration and optionally select Renew on the standard renewal date. For details, see Setting the Same Renewal Day for Yearly/Monthly Resources. Confirm the price and click Pay.

Instance Name/ID	Product Information		Auto-Re	new (?) Renew	val Duration	Renewal Dat	te	Fe
✓ sfs-tu 389et	Service Type:Scalable File Current Configuration:SFS Region	: Service tu	③ Dis	bled 1 year		Current: Sep Renewed: Se	28, 2023 23:. ep 28, 2024 2.	
Renewal Duration 1 month 2 mor	ths 3 months 4 months	5 months 6 month	s 7 months 8	months 9 months	10 months	11 months	1 year 🖬	2 years 🖬 3 years 🖬
Renewal Date Renew on the	e standard renewal date, the 1st	of every month at 23:59:59	9 GMT+08:00 🖉	and the resource dama	in the Densual	Duration column		
n you change	s the expiration date to Renewal	Date, the experiatores will	be added. Tod carre	lock are renewardays	in the renewa	Duration colum		

Figure 6-6 Confirming renewal

Step 6 Select a payment method and make your payment. Once the order is paid for, the renewal is complete.

----End

Setting the Same Renewal Day for Yearly/Monthly Resources

If the file systems have different expiry dates, you can set the same renewal day, for example, the first day of each month, to make it easier to manage renewals.

In **Figure 6-7**, a user sets the same renewal day for two resources that will expire at different dates.

Figure 6-7 Setting the same renewal day for resources with different expiry dates

Procedure	1. Configure a renewal date	e. 2. Select resources for operations.	3. Renew to the renewal date.
Rules	For example, the renewal date Resource A Expiration: April 17	e is the 1 day of each month. or 1 month Additional renewal for 14 days	Expiration: June 01
	Resource B Expiration: May 08	or 1 month Additional renewal for days	er 24 Expiration: July 01

For more details, see Setting a Renewal Date.

6.3 Auto-renewing a File System

Auto-renewal can prevent file systems from being automatically deleted if you forget to manually renew them. The auto-renewal rules are as follows:

- The first auto-renewal date is based on when the file system expires and the billing cycle.
- The auto-renewal period of a file system depends on the subscription term. For example, if you select a three-month renewal period, the file system subscription will be renewed for three months each time before expiry.
- You can enable auto-renewal any time before a file system expires. By default, the system will make the first attempt to charge your account for the renewal at 03:00 seven days before the expiry date. If this attempt fails, it will make another attempt at 03:00 every day until the subscription is renewed or expired.
- After auto-renewal is enabled, you can still renew the file system manually if you want to. After a manual renewal is complete, auto-renewal is still valid, and the renewal charge will be deducted from your account seven days before the new expiry date.
- By default, the renewal charge is deducted from your account seven days before the new expiry date. You can change this auto-renewal payment date as required.

For more information about auto-renewal rules, see Auto-Renewal Rules.

Prerequisites

The yearly/monthly file system is not expired.

Enabling Auto-Renewal During Purchase

You can enable auto-renewal on the file system creation page, as shown in **Figure 6-8**.

Figure 6-8 Enabling auto-renewal

* Quantity	1	2	3	4	5	6	7	8 months	1 year
	Auto	Renewal	?						

Enabling Auto-Renewal on the Renewals Page

- **Step 1** Log in to the management console.
- **Step 2** Hover over **Billing & Costs** in the upper part of the console and choose **Renewal** from the drop-down list.

The **Renewals** page is displayed.

- **Step 3** Set the search criteria.
 - You can view the resources for which auto-renewal has been enabled on the **Auto Renewals** page.

• You can enable auto-renewal for resources on the Manual Renewals, Payper-Use After Expiration, and Renewals Canceled pages.

Figure 6-9 Renewals

Renewals	G Quick Links Renew Domain	Set Renewal Date	Modify Message Recipient	Set Deduction Date for Auto-Renewal						
() If you want to continue using any resources about to explore, refer to how Do II Renew Resources 12 Cancel Find the Resources to Be Renewed? and How Do I Change the Billing Mode from Youth/Monthly to Pay get-Oue? I Renewal? And Madagen differ Resource application from ends. () Fyou want to some your aboutphoto more easily, refer to half and a Reletance Period? I Pyou want to some your aboutphoto more easily, refer to halfmatculy Resource and Setting Fileware Date () Fyou want to interve your aboutphoto more easily, refer to halfmatculy Resource and Setting Fileware Date										
C Indiances supering users 2 indiances 6 las fuziones 4 indiances 6 las relationes at 1000 . Vano indiances.										
Express h 30 days Express h 30 days Express h 15 days Express h 15 days Couter Source Express Express h 14 have advers preding payment C for nd show resource packages +										
$\overline{\mathcal{V}}$ Instance ID/Resource ID is used to search by default.				Q						
Manual Renewals (3140) Auto Renewals (1162) Pay-per-Use After Expiration (0) Renewals Canceled (0)										
Batch Renew Enable Auto-Renew Change to Pay-per-Use Atter Expiration Cancel Renewal Batch Export				Export Al: 3,140 C						
Instance Name1D Product Type/Specifications Region Enterprise Project Provisioned	/Expires St	atus	Validity Period	Operation						

Step 4 Enable auto-renewal for yearly/monthly resources.

• Enabling auto-renewal for a single resource: Select the file system for which you want to enable auto-renewal and choose **More** > **Enable Auto-Renew** in the **Operation** column.

Figure 6-10 Enabling auto-renewal for a single resource

Renewals				(9 Quick Links	enew Domain	Set Renewal Date	Modify Message Recipient	Set Deduction Date for Auto-Renewal	
9. For survey to contrast with a synchronic flast to paper, which is hown in however. 2 cannot find the however. Is donised: and two paper to the second and the second and the flast to contrast according to the second and the second according to the second and the second according to t									
O instances explining coort 2: Instances to be Incess 0: Instances to be Inleased. 2. Please ennew in time. Wew instances.									
Expires Expires in 30 days Expires in 15 da	ys Expires in 7 days Custom	Status Provisioned I	Expired Frozen						
Do not show resources that have orders pending	payment Do not show resource packages								
Service Type: Scalable File Service 🔹 🗸 Ad	ld filter							× Q	
Manual Renewals (20) Auto Renewals	4) Pay-per-Use After Expiration (0)	Renewals Canceled (0)							
Batch Renew Enable Auto-Renew	Change to Pay-per-Use After Expiration	Cancel Renewal Batch	Export					Export All: 20 C	
Instance NameID	Product Type/Specifications	Region	Enterprise Project	Provisioned/Expires	Stat	15	Validity Period	Operation	
✓ □ ^{sh} ₃₀₅	Scalable File Service SFS furbo p		default	Aug 28, 2023 10:20:43 GMT+08:00 Sep 28, 2023 23:59:59 GMT+08:00	•	rovisioned	3 days until expiration Dolote after referition period	Renew More .	

• Enabling auto-renewal for multiple resources at a time: Select the file systems for which you want to enable auto-renewal and click **Enable Auto-Renew** above the list.

Figure 6-11 Enabling auto-renewal for multiple resources

Renewals	D Quick Links Renew Domain	Set Renewal Date	Modify Message Recipient	Set Deduction Date for Auto-Renewal						
(D) - Figure action across any any any essence abult to acquir, and to hold Chi Reson Resonance Count of Test Resonance Resonance Test Resonance Resonanc										
Instances expering soon 2; Indiances In the feature 0; Instances In the relatence 4. Please releave in time. Vour indiances										
Expires in 30 days Expires in 15 days Expires in 7 days Custom Status Provisioned Expired Frozen										
Do not show resources that have orders pending payment Do not show resource packages +										
Francisco Trans Franklike Tele Francisco				× 10						
Service type account the service to a Add Inter				× 4						
Manual Renewals (20) Auto Renewals (4) Pay-per-Use After Expiration (0) Renewals Canceled (0)										
Batch Renew Enable Auto-Renew Change to Pay-per-Use After Expiration Cancel Renewal Batch Export				Export All: 20 C						
Instance NamelID Product Type/Specifications Region Enterprise Project Provisioned/E	xpires Sta	itus	Validity Period	Operation						
V Scatable File Service default Aug 28, 2023 1 309 SPS harb	0.20-43 GMT+08.00 3.59.59 GMT+08.00	Provisioned	3 days until expiration Delete after retention period	Renew More +						



Figure 6-12 Enabling auto-renewal



----End

7 Bills

You can view the resource usage and bills for different billing cycles on the **Bills** page in the Billing Center.

Bill Generation

Transaction records for yearly/monthly subscriptions are generated immediately after being paid for.

Pay-per-use resources are billed by the hour, day, or month, depending on their usage types. The file system usage is billed by the hour. For details, see **Bill Run** for Pay-per-Use Resources.

You are not charged immediately after a record is generated. For example, if a pay-per-use file system (which is billed on an hourly basis) is deleted at 08:30, you will still have expenditures for the 08:00 to 09:00 hour. However, you will not likely be billed for the 08:00 to 09:00 hour until about 10:00. On the **Bills** page of the Billing Center, select the **Bill Details** tab. **Expenditure Time** in the bill indicates the time when the pay-per-use resource is used.

Viewing Bills of a Specific Resource

Use the SFS file system ID to search for a bill.

Step 1 Log in to the management console and choose **Storage** > **Scalable File Service**.

The file system list is displayed.

Step 2 Click the name of a file system to go to its details page. Click the icon shown in the figure below to copy the file system ID.

Figure 7-1 Copying the file system ID

Name	sts-turbo-458 🖉	Shared Path	24 e lan len des devedendendendendendenden
ID	+ + + + + + or C ¹	Alternative Shared Path	9 + + + + + + + + + + + + + + + + + + +
Used Capacity (GB)	0.00	Status	Available
Total Capacity (GB) 🕥	1228.00	File System Type	40MB/s/TiB
Created	2023/09/11 10:40:04 GMT+08:00	Billing Mode	Pay-per-use
Region	1	AZ	AZ1
VPC	vpc-dajun	Subnet	submel-5f1d (10.0.0.0/24)
Security Group	SFSTurbo 🖉	Enterprise Project	default
Encryption	No	Command Line	Linux Command Line: mount -t nfs -o vers=
			Windows Command Line: 🍈 mount -o notock -o c+ + +, + + + + + + + + + + + + + + + +
Cold Data Eviction (h)	- 🖉		

Step 3 On the top menu bar, choose **Billing & Costs > Bills**.

The **Dashboard** page is displayed.

Step 4 Choose **Billing** > **Expenditure Details**, select **Resource ID** as the filter criteria, enter the copied file system ID, and click the ^Q icon.

Figure 7-2 Searching for a bill



By default, the bill details are displayed by usage and billing cycle. You can choose other display options as required. For details, see **Bills**.

----End

8 Arrears

If there is not a sufficient account balance to pay for your bill and there is no other payment method configured, your account will go into arrears. If you want to continue using your SFS file systems, you will need to top up your account in a timely manner.

Arrears Reason

You have pay-per-use SFS file systems running for some time, and your configured payment method or top-up account cannot pay for your bill.

Arrears Impact

Yearly/Monthly

This is a pre-paid billing mode, so you can continue using yearly/monthly SFS file systems even if your account is in arrears. However, you cannot perform operations such as purchasing new SFS file systems, expanding the file system capacity, or renewing file systems, because they will generate new expenditures.

• Pay-per-Use

If your account is insufficient to pay your amount due, your account goes into arrears, and your pay-per-use file systems enter a grace period. You are still responsible for expenditures generated during the grace period. You can view the charges on the **Billing & Costs** > **Overview** page and pay any past due balance as needed.

If you do not bring your account balance current before the grace period expires, the file systems turn to **Frozen** and enter a retention period. You cannot perform any operations on pay-per-use file systems in the **Frozen** status.

If you do not bring your account balance current before the retention period ends, the file systems will be released and the data cannot be restored.



Figure 8-1 Life cycle of a pay-per-use SFS file system

NOTE

For details about the grace period and retention period, see What Is a Grace Period of Huawei Cloud? How Long Is It? and What Is a Retention Period of Huawei Cloud? How Long Is It?

Avoiding and Handling Arrears

Make sure you have a valid payment method configured as soon as possible after your account is in arrears. For details, see **Topping Up an Account (Prepaid Direct Customers)**.

If data stored in SFS file systems is no longer used, you can delete them to avoid generating further expenditures.

9 Billing Termination

Yearly/Monthly Resources

When you purchase a yearly/monthly resource, such as a yearly/monthly SFS file system, you make a one-time up-front payment. By default, the billing automatically stops when the purchased subscription expires.

- If you no longer need a resource, but the subscription has not yet expired, you can unsubscribe from it. Depending on what coupons were used for the purchase and on if 5-day unconditional unsubscription rules apply, Huawei Cloud may issue you a refund. For details about unsubscription rules, see **Unsubscriptions**.
- If you have enabled auto-renewal but no longer wish to automatically renew the subscription, disable it before the auto-renewal date (7 days before the expiration date by default) to avoid unexpected expenditures.

Pay-per-Use Resources

If pay-per-use resources, such as pay-per-use SFS file systems, are no longer used, delete them in a timely manner.

Searching for Resources from Bills and Stopping Billing

To ensure that all related resources are deleted, you can search the billing records by resource ID, and then delete the resources you identify in this way.

Use the resource ID in the bill to search for the resource.

Step 1 On the top menu bar, choose **Billing & Costs > Bills**.

The page is displayed.

Step 2 On the **Expenditure Details** page, click the icon shown in the following figure to copy the resource ID.

Figure 9-1 Copying the resource ID

Expenditure Details	zenditure Details									
1.4 There is that are presented based on OAT-H3 00. 2. Expenditures the processes that if our down for reacting more second three, citables. 2. Expenditures the processes and the bit amount is equal to the used number of units multiplied by the unit price. Other pricing modes, such as terned pricing, do not provide unit prices. 3. Pay-service pricing procedule and prices.										
Billing Cryste Aud 2023 +										
Disage Resource Resource Type Service Type Account BJ Display Options Data Period @ By billing cycle By day V Search or filter by largeord. V	Details (2)				0 Ŧ	0				
Billing Enterpr 😨 Acc 😨 Service 😨 Resour 😨 Billing 😨 Bill Type 😨 Resource NameID	Resource Tag	Specificatio	Region 🍞	AZ	Usage Type Ur	1f				
Jul 2023 default	-			AZ1		Î				
Jul 2023 default 39 volume test 4001 4/202-auto-az 13/0706/07/	-			AZ1	-					
Jul 2023 default 10001 🗇	-	-		AZ1	-					

Step 3 Choose **Storage** > **Scalable File Service**.

The file system list is displayed.

Step 4 Select the region where the resource is located, select **ID** and enter the copied resource ID. Click the \bigcirc icon to search for the resource.

Figure 9-2 Searching for the resource

SFS Turbo file systems you can still create:	19Refresh the page to	update the SFS file a	stern status.								
Export											
ID: 2	01 O V Add	filter									× Q C ®
Name ©	Status 0	AZ 0	Туре о	Protocol Type 0	Used Capac 0	Maximum C 0	Shared Path ©	Encrypted ©	Enterprise 0	Billing Mode	Operation
afir-1	 Available 	AZ1	40MB/5/TiB	NFS	0	1.228		No	default	Pay-per-use Created on Sep	Expand Capacity View Metric More +

Step 5 Choose **More** > **Delete** in the **Operation** column to delete the file system and check that the file system no longer appears in the list.

NOTE

You are billed one hour after the resource usage is calculated, so a bill may still be generated after the pay-per-use resource is deleted. For example, if you delete a file system (which is billed on an hourly basis) at 08:30, the expenditures for the hour from 08:00 to 09:00 are usually not billed until about 10:00.

----End

10 Cost Management

As you migrate more of your services to the cloud, managing cloud costs becomes more important. For example, you may be more concerned with cost management when using SFS. The following describes how to manage costs in terms of cost composition, allocation, analysis, and optimization. Optimizing costs can help you maximize return on investment.

Cost Composition

SFS costs consist of two parts:

- Resource costs: cost of resources and resource packages, depending on the billed items of SFS. For details, see **Billed Items**.
- O&M costs: labor costs incurred during the use of SFS.

Huawei Cloud **Cost Center** helps you manage resource costs with ease. However, you need to identify, manage, and optimize O&M costs by yourself.

Cost Allocation

A good cost accountability system is a prerequisite for cost management. It ensures that departments, business teams, and owners are accountable for their respective cloud costs. An enterprise can allocate cloud costs to different teams or projects so as to have a clear picture of their respective costs.

Huawei Cloud **Cost Center** provides various tools for you to group costs in different ways. You can experiment with these tools and find a way that works best for you.

• By linked account

The enterprise master account can manage costs by grouping the costs of its member accounts by linked account. For details, see **Viewing Costs by Linked Account**.

• By enterprise project

Before allocating costs, enable Enterprise Project Management Service (EPS) and plan your enterprise projects based on your organizational structure or service needs. When purchasing cloud resources, select an enterprise project so that the costs of the resources will be allocated to the selected enterprise project. For details, see Viewing Costs by Enterprise Project.

Figure 10-1 Selecting an enterprise project for a file system

Enterprise Project (?)	Select an enterprise proj 🔻	Create Enterprise Project C

By cost tag

You can use tags to sort your Huawei Cloud resources in a variety of different ways, for example, by purpose, owner, or environment. The following is the process of managing costs by predefined tags (recommended).



Figure 10-2 Adding tags for a file system

Tags	It is recommended that you use TMS's	predefined tag function to add the san	ne tags to different cloud resources.View Predefined Tags	С
	Tag key	Tag value		
	You can add 10 more tags.			

For details, see Viewing Costs by Cost Tag.

• By cost category

You can use cost categories provided by **Cost Center** to split shared costs. Shared costs are the costs of resources (compute, network, storage, or resource packages) shared across multiple departments or the costs that cannot be directly split by cost tag or enterprise project. These costs are not directly attributable to a singular owner, and they cannot be categorized into a singular cost type. In this case, you can define cost splitting rules to fairly allocate these costs among teams or business units. For details, see **Viewing Cost By Cost Category**.

Cost Analysis

To precisely control and optimize your costs, you need a clear understanding of what parts of your enterprise incurred different costs. **Cost Center** visualizes your original costs and amortized costs using various dimensions and display filters for cost analysis so that you can analyze the trends and drivers of your service usage and costs from a variety of perspectives or within different defined scopes.

You can also use cost anomaly detection provided by **Cost Center** to detect unexpected expenses in a timely manner. In this way, costs can be monitored, analyzed, and traced.

For details, see **Performing Cost Analysis to Explore Costs and Usage** and **Enabling Cost Anomaly Detection to Identify Anomalies**.

Cost Optimization

• Cost control

You can create different types of budgets on the **Budgets** page of Cost Center to track your costs against the budgeted amount you specified. If the budget thresholds you defined are reached, Cost Center will send alerts to the recipients you configured. You can also create budget reports and specify recipients to receive budget alerts if any at a frequency you configured.

Suppose you want to create a monthly budget of \$2,000 USD for pay-per-use file systems and expect to receive an alert if the forecasted amount exceeds 80% of the budgeted amount. You can refer to the following budget information.

Figure 10-3 Basic budget information





Figure 10-4 Defining the budget scope

Figure 10-5 Setting a budget alert

(Optional) Alert	Thresholds 🔵	
Thresholds	Actual > • 80	(%) of budgeted amount 🔹 Alerts are sent when the actual cost is higher than 80% (),) of the forecasted cost.
	⊕ Add threshold	
Recipients	recipient	(\$1
	⊕ Select From Contacts	

For details, see **Enabling Forecasting and Creating Budgets to Track Costs and Usage**.

• Resource rightsizing

You can also identify resources with high costs based on the analyses on the **Cost Analysis** page and use Cloud Eye to monitor resource usage. By doing this, you can determine the causes of high costs and take optimization measures accordingly. You can:

- Monitor resource usage and evaluate whether the current configuration is more than you need.
- Identify idle resources.
- Billing mode selection

Different types of services have different requirements on resource usage periods, so the most economical billing mode for one resource may not be the best option for another resource.

- For mature services that tend to be stable for the long term, select the yearly/monthly billing.
- For short-term, unpredictable services that experience traffic bursts and cannot afford to be interrupted, select the pay-per-use billing.

11 Billing FAQ

11.1 How Do I Purchase SFS?

SFS uses pay-per-use billing by default, which means that you are billed by the storage capacity you select during purchase and the duration of use. You can also purchase a yearly or monthly package based on how much space you require and for how long you will use the resources. In case of arrears, you need to renew the service within 15 days, or data in your file systems will be cleared.

The size of a resource package is irrelevant to the compute throughput of the file system.

Pay-per-use

- **Step 1** Register an account.
 - 1. Visit the Huawei Cloud website at **www.huaweicloud.com/intl/en-us/**.
 - 2. In the upper right corner of the page, click **Register**.
 - 3. Complete the registration as instructed.
- Step 2 Top up your account.
 - 1. Log in to the management console.
 - 2. Click **Top Up** and the top-up page is displayed.
 - 3. Top up the account as prompted.
 - 4. After the top-up is complete, close the dialog box and go back to the management console homepage.
- Step 3 Use SFS.
 - 1. Choose **Storage** > **Scalable File Service** to go to the SFS console.
 - 2. Click **Create File System**. You do not need to select a billing mode for an SFS Capacity-Oriented file system. Use the file system after it is created.

NOTE

- The SFS Capacity-Oriented file system is billed by the used storage capacity and duration of use.
- The SFS Turbo file system is billed by the storage capacity you select during purchase and the duration of use.

----End

Yearly/Monthly Subscription

You can purchase an SFS Capacity-Oriented or General Purpose File System resource package by clicking **Buy Storage Package**. Resource packages cannot be used across regions. Check your region before purchasing resource packages.

For an SFS Turbo file system, in addition to purchasing a resource package when creating the file system, you can also change to yearly/monthly billing after the file system is created.

SFS Capacity-Oriented file systems and general purpose file systems can share a resource package.

Procedure for SFS Capacity-Oriented and General Purpose File System

- **Step 1** Purchase a resource package.
 - 1. In the upper right corner of the SFS console, click **Buy Storage Package**.
 - 2. On the displayed page, configure the parameters.

You can view the pricing standards on **Product Pricing Details**.

- 3. Click Next.
- 4. Confirm the order information and click **Submit**.

To modify the order information, click **Previous** and then continue with your purchase.

- 5. Pay for the order.
- 6. Return to the SFS console to use SFS.

Resource packages cannot be viewed on the SFS console. To view resource packages, see **How Do I Check the Usage of an SFS Capacity-Oriented Resource Package?**.

D NOTE

An SFS Capacity-Oriented or a General Purpose File System resource package can be used immediately after payment. If the package capacity is greater than the used capacity of the file system, pay-per-use billing stops immediately. The package capacity is preferentially used when you use file systems.

SFS Capacity-Oriented and General Purpose File System resource packages cannot be expanded, but can be purchased multiple times. For details, see Can I Purchase SFS Capacity-Oriented Resource Packages When I Still Have Valid Ones in Use?

For example, if a user purchased a 1 TB SFS Capacity-Oriented or General Purpose File System resource package for a year and created a 500 GB SFS Capacity-Oriented file system and used all 500 GB, the used capacity of the resource package is 500 GB. For how to view the resource package usage, see **How Do I Check the Usage of an SFS Capacity-Oriented Resource Package?** One month later, the user created another 600 GB SFS Capacity-Oriented file system (file system B). Now the purchased 1 TB capacity is used up, and the usage exceeding the package quota (76 GB) is billed on a pay-per-use basis. If you do not want to be billed pay per use, you can purchase more resource packages. For details, see **Yearly/Monthly Subscription**.

Step 2 Use SFS.

- 1. Choose Storage > Scalable File Service to go to the SFS console.
- 2. Click **Create File System**. The package capacity is automatically used without any additional configuration. If you have multiple file systems, they can share the same resource package.

----End

Procedure for SFS Turbo

Method 1: Purchase a yearly/monthly file system. Create a file system and set the billing mode to **Yearly/Monthly**. For details, see **Create a File System**.

Method 2: In the file system list, find the pay-per-use file system you want to change their billing mode, and click **Change to Yearly/Monthly** in the **Operation** column.

11.2 How Do I Renew the Service?

If the arrears are not paid in time, your account may be frozen and your order may be canceled.

Procedure

- **Step 1** Log in to the management console.
- **Step 2** In the upper right corner of the page, choose **Billing & Costs > Renewal**.
- **Step 3** On the **Renewals** page, click **Renew** in the **Operation** column for the desired resource.
- **Step 4** Pay for the order as prompted.

D NOTE

- After the payment, the system automatically pays the arrears.
- For more information about renewal, including auto-renewal, exporting the renewal list, and changing subscriptions, see **Renewal Management**.
- For more information about orders, unsubscription, coupons, and consumption details, see the **Billing Center User Guide**.

----End

11.3 How Do I Check Whether the Subscriber Is in Arrears?

You can view the outstanding amount on the **Billing Center** page. If your account is in arrears, the system processes resources and fees in SFS according to the retention period rules. For more information, see **Service Suspension and Resource Release**. To prevent service suspension and resource release, repay arrears or top up in time.

Procedure

- **Step 1** Log in to the management console.
- **Step 2** In the upper right corner of the page, click **Billing & Costs** to go to the Billing Center.
- **Step 3** On the **Overview** page, you can view the outstanding amount of the current account.
- **Step 4** Top up your account to pay arrears if any.

----End

NOTE

- For details about how to repay the outstanding amount, see Making Repayments.
- For more information about orders, unsubscription, coupons, and consumption details, see the **Billing Center User Guide**.

11.4 Can I Purchase SFS Capacity-Oriented Resource Packages When I Still Have Valid Ones in Use?

You can still purchase resource packages on top of the valid packages. The capacity of the resource package purchased first is used up first.

For example: A subscriber has file data of 1.2 TB. The subscriber purchases the resource package A with the capacity of 1 TB on August 15 and the resource package B with the capacity of 1 TB on August 20. Then, from August 20 to September 15, the capacity of the resource package A (1 TB) is used up, and the capacity used in the resource package B is 0.2 TB. The resource package A expires on September 15. If the resource package A is not renewed, the capacity of the resource package B (1 TB) is used up from September 15 to September 20.

11.5 How Do I Check the Usage of an SFS Capacity-Oriented Resource Package?

Procedure

- **Step 1** Log in to the SFS console.
- **Step 2** In the upper right corner of the page, choose **Billing & Costs > My Packages**.
- **Step 3** Information of the purchased resource packages is displayed in the list. Click the target resource package. Then click **View Details** in the **Operation** column to view the usage of the resource package. See **Figure 11-1**.

Figure 11-1 Viewing resource package usage

All packages 👻					
SFS package_40 GB_Monthly pa		SFS package_40 GB_Monthly package		New purchase	Renewal
Usage 🥑 1	Region: CN South-Guangzhou Order No.:	CS19082916592NLSQ			Go to Console
	Effective: Aug 29, 2019 17:00:00 GMT+08:00 -	Aug 29, 2019 18:00:00 GMT+08:00			
	Usage Name	Total	Remarks	Operation	
	SFS storage space (CN South-Guangzhou)	40 (GB)	Cleared every hour	View Details Export I	Details

Step 4 View the resource package usage. See **Figure 11-2**.

2019/08/30 × 🖾			Total
40			
30			
20			
10			
0	Aug 30, 2019 03:00:00 GMT+08:00	Aug 30, 2019 06:00:00 GMT+08:00	
	OK		

11.6 How Do I Adjust the Size of an SFS Capacity-Oriented Resource Package?

If your package capacity is not enough, purchase a new package. The capacity in the old package is preferentially used.

The capacity of a purchased resource package cannot be decreased, so if your package capacity is too much for you, unsubscribe from the package and then purchase a smaller one.

Alternatively, you can use the package until it expires and then purchase a smaller one.

11.7 Do SFS Capacity-Oriented and SFS Turbo Share One Resource Package?

No.

For an SFS Capacity-Oriented file system, you can purchase a resource package separately by clicking **Buy Storage Package**. Resource packages cannot be used across regions. Check your region before purchasing a resource package.

For an SFS Turbo file system, you can purchase a resource package when creating the file system and change the billing mode from pay-per-use to yearly/monthly as needed. Resource packages cannot be purchased separately.