### **Cost Center**

# **Best Practices**

 Issue
 01

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# Budget Management

# 1.1 Creating a Daily Budget to Monitor Pay-per-Use Expenditures

#### Background

Budget management is crucial to your use of the cloud. Effective budget management helps you control costs. You can configure cost and usage alert thresholds to gain visibility into your actual and predicted expenditures. With alerts configured, you can learn whether there are expenditure surprises in a timely manner.

#### **Scenarios**

It is easy to forget to shut down servers or delete pay-per-use resources that are no longer needed. This will result in unnecessary expenditures. To avoid this problem, you can enable budget management to configure a daily budget. This way, the specified recipients will receive alerts if any pay-per-use expenditures exceed the amount you have configured.

#### Prerequisites

Before you enable budget alerts, configure notification methods for **Cost Management** in Message Center.

SMS	SMS & Email Settings										
	Add Recipient Remove Rec	ipient									
	Message Type	Email	SMS	System Notifica	Group Chatbot	Recipient Name	Message Receiver Robot				
	Finance			<b>~</b>							
	Account balance 🖲										
	Account change 🖲					Contract of the Contract of th					
	Partner budget			<b>~</b>		THE R. L.					
_	Bill 👁					Self-reprint					
	Invoice 🖲			<b>×</b>		100000					
	Cost Management			<b>V</b>		The Rest Concerns					

#### Procedure

- **Step 1** Log in to Huawei Cloud management console.
- Step 2 Choose Billing & Costs > Cost Center.



- **Step 3** Choose **Budget Management > Budgets**.
- Step 4 Click Create Budget.
- **Step 5** Choose **Custom Budget** > **Cost budget**, and click **Next**.
- **Step 6** Configure budget details and click **Next**.
  - Basic budget information

Daily	Monthly	Quarterly	Yearly
Budget evaluation reset to zero at 00	begins at 00:00 GM 00 GMT+08:00 on e	Γ+08:00 on the start α ach day moving forwa	late and will be ard
The reset period E budgeted amount by cost category	Daily is currently not s t, forecasting-based b	supported for monthl budget alerts, or budg	y or quarterly jet scope filtering
*Budget Duration	Cost Center will mo	onitor your expenditu	res during the
budget duration y	ou select		
Recurring	Expiring		
*Start Time Cost	Center will begin to	monitor your budget	on the start date
you select	0	, ,	
2023/11/08			Ē
*Budgeted Amou	nt (USD)		
-			

- Reset Period: Set this parameter to Daily to monitor your pay-per-use expenditures on a daily basis.
- Budget Duration: Set this parameter to Recurring to start monitoring your pay-per-use expenditures on the day specified for Start Time.
- **Start Time**: Set this parameter to the current day (recommended).
- Budgeted Amount: Set this parameter to the estimated upper limit of daily costs. Suppose the unit price of an ECS with given specifications is \$1.23 USD, and 10 ECSs are required to work for about 8 hours a day. In this case, you can set the budgeted amount to \$100 USD or a bit more and set the alert threshold to a specific percent of this amount.
- **Cost Scope**: Set **Billing Mode** to **Pay-per-use**. Set other parameters as required. If they are left blank, all of your costs will be monitored.

#### 

Choose the exact budget type you want to monitor. The budget information is updated every hour for original costs and every 24 hours for amortized costs.

**Step 7** Set the alert threshold and specify the recipients, and click **Next**.

Budgeted Amount (USD)		
50.00		
(Optional) Alert Thresholds		
Thresholds		
Actual >	∨ 80	(%) of budgeted amount            Alerts are sent when the actual cost is higher than 80% (\$40.00 USD) of the forecasted cost.
+ Add threshold		
Recipients(1/10)		
recipient	Enail 109 40@cto.com	2h12+00001282040
+ Select From Contacts		

If you receive alerts while using the resources, you can ignore them. If you are not using the resources but are still billed and receive alerts, that means more resources are being used than were predicted. In this case, some devices may need to be shut down or the resources may have been accidentally not deleted. You are advised to immediately check the resource status or billing information.

**Step 8** Confirm the budget information and click **Save**.

----End

#### Follow-up Operations

If the costs for the current day have reached the configured threshold, Cost Center will notify you of the budget overrun.

#### 

There is a delay of one to two hours before a notification is sent out. By the time you receive an alert, the actual expenditure has already exceeded the alert threshold. You are advised to view the cost details in Cost Center as soon as possible.

# **2** Cost Allocation

## 2.1 Viewing Costs By Cost Category

You can use cost categories to group costs by linked account, service type, bill type, cost tag, or enterprise project, or other custom rules you defined.

#### **Example Scenarios**

You need to allocate costs among departments A, B, and C.

1. You can identify the responsible department for most of the costs by using the tags you attached to the specific resources. Suppose department A additionally deploys the CDN service, whose resources cannot be tagged, and all the departments share the Cloud Phone service.

As mentioned earlier, you can use the tag key **Group** and tag values **Department A**, **Department B**, and **Department C** to group most of your costs, as shown in the following figure.



- 2. You need to create cost categories for further cost allocation. Four hours after the creation, you can define cost splitting rules to split the shared cost across those departments.
  - Select Custom for Allocation Method to split the unallocated cost, with 50% allocated to Department A, 30% to Department B, and 20% to Department C.
  - Select Custom for Allocation Method to split the shared cost, with 30% allocated to Department A, 30% to Department B, and 40% to Department C.

#### Step 1: Creating Cost Categories

- **Step 1** Log in to Cost Center.
- **Step 2** Choose **Cost Organization** > **Cost Categories**.
- **Step 3** Create cost categories and configure their basic rules by referring to **Example Scenarios**.

Define Category Rules
You can define up to 20 rules for a cost category, and the rules will be applied in the sequence you set.
If you have used existing cost tags or enterprise projects for cost categorization, these existing rules are still recommended.Learn more
Rule 1 Inherited Value-Cost Tag
Inherited Dimension
Rule 2 DepartmentA
Rule Name DepartmentA
Only one logical operator can be used to associate a maximum of 5 conditions. If multiple operators are involved, use condition groups.
And V Condition 1 Service Type V Is V Content Delivery Network (CDN Selected 1/2V 🕤
Add Condition
Rule 3 SharedCosts
Rule Name SharedCosts
Only one logical operator can be used to associate a maximum of 5 conditions. If multiple operators are involved, use condition groups.
L 🕀 Add Condition

**Step 4** Define cost splitting rules four hours after the creation, by referring to **Example Scenarios**.

ptional) Defin ared costs will be	e spirtting Rules used as a source value you want to split. If you split	include flexy-purchase coupons 🕑 include stored value cards	Net Amortized Cost	
tule 1			^	e
ource Value	Uncategorized V MTD cost: \$	Source or target value not available. Learn more		
arget Value	Department A × Departmen Selected 3/3~			
llocation Method	Proportionally () Evenly ()	Custom ③		
ne following tabl	e displays how your costs of are split by cu	stom percentage. For details, access the cost category details page.		
Target Value	Percentage	Associated Cost (USD)		
Department A	50.00 %	10		
Department B	30.00 %	128		
Department C	20.00 %	14		
Total	100.00 %	43		
Rule 2			^	
Source Value	Shared Cost MTD cost \$11 31	Source or target value not available. Learn more		
Farget Value	Department A × Departmen Selected 3/3~			
Allocation Methor	d OProportionally () OEvenly ()	Custom		
The following tab	le displays how your costs of are split by cu	stom percentage. For details, access the cost category details page.		
Target Value	Percentage	Associated Cost (USD)		
Department A	30.00 %	456		
Department B	30.00 %	4.58		
Department C	40.00 %	10		
Tabal	100.00 %			

----End

#### **Step 2: Viewing Cost Details**

- **Step 1** Log in to Cost Center.
- Step 2 Choose Cost Analysis.
- **Step 3** Click the link to the name of a cost category to view the cost details.

Splitting Details You can click any am	ount link to explore further on the Cos	t Analysis page.	Include	flexi-purchase coupons 🔽 Include	e stored value cards Net Amortized Cost	- Expl	ort
Cost Distribution	Item	Net Amortized Cost (USD)	Split Amount (USD)	Amount Allocated (USD)	Propor	rtion	
	Total	2,453,674.20	0.00	2,453,674.20	1	100%	
	Department A	5.94	1,226,583,83	1,226,589.77	5	50 %	
	<ul> <li>30.00%</li> <li>Department B</li> </ul>	Department B	0.00	736,100.48	736,100.48	3	30%
	Department C	0.00	490,983.95	490,983.95	:	20%	
	Shared Cost Split source	1,251.51	-1,251.51	0.00		0%	
	Uncategorized Split source	2,452,416.75	-2,452,416.75	0.00		0%	

In this figure, the net amortized cost is displayed for each proportion.

- Net Amortized Cost: the net amortized cost after costs are split based on defined rules
- **Split Amount**: the amount split from the shared cost. If the amount is negative, the corresponding cost is the split source.
- **Amount Allocated**: the amount actually allocated to each tag value. Amount Allocated = Net Amortized Cost + Split Amount
- **Proportion**: the percentage of costs that are allocated

You can interpret the split amount for each department in the following way:

• Department A

Net cost amortized by cost tag: \$5.94 USD

Split amount for allocated shared cost and unallocated cost: 30% x 1251.51 + 50% x 2452416.75 = \$1,226,583.828 USD

Total amount allocated: 5.94 + 1,226,583.828 = \$1,226,589.768 USD

Department B

Net cost amortized by cost tag: \$0 USD

Split amount for allocated shared cost and unallocated cost: 30% x 1251.51 + 30% x 2452416.75 = \$736,100.478 USD

Total amount allocated: 0 + 736,100.478 = \$736,100.478 USD

Department C

Net cost amortized by cost tag: \$0 USD

Split amount for allocated shared cost and unallocated cost: 40% x 1251.51 + 20% x 2452416.75 = \$490,983.954 USD

Total amount allocated: 0 + 490,983.954 = \$490,983.954 USD

• Shared cost and unallocated cost

If they have all been split to Department A, Department B, and Department C, then the amount allocated is 0.

#### **Step 4** View cost details by cost category.

Choose **Cost Details Export**. On the **Export to Local Directory** page, export the original or amortized cost details file (for example, *file name: %Account name %\_AmortizedCostDetailByUsage\_YYYY-MM*), and then you can view the cost details by cost category.

AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR
Usage 1-	Usage 1 -	Usage I 🔻	Usage 💌	Package 🔻	Usage i⊤	List Pr 🔻	Origina 🔻	Coupons 🔻	EXPORT	EXPORT	Tag:Der -	Tag:Env 🔻	Tag:Gr -	Cost Unit:CBC 🖅
Traffic	size	Byte	2.31E+12	0	0	1.98	1.98	0	0	(	) mobile	alpha	yellowDuc	HWCloud
Duration	Duration	SECOND	1814400	0	0	317.52	317.52	0	0	(	) mobile	alpha	yellowDuc	HWCloud
Duration	Duration	SECOND	820800	0	0	287.28	287.28	0	0	(	) mobile	alpha	yellowDuc	HWCloud
Duration	Duration	SECOND	72000	0	0	320	320	0	0	(	) mobile	alpha	yellowDuc	HWCloud
Duration	Duration	SECOND	1900800	0	0	47.52	47.52	0	0	(	) mobile	alpha	yellowDuc	HWCloud

----End

## 2.2 Mapping Cost Allocation Methods to Cost Category Rules

#### **Example Scenarios**

Suppose you assign cloud services to specific enterprise projects and manage costs by enterprise project. In this case, the enterprise projects are business units that you allocate your costs to, and each of them maps to a cost category rule you defined. When you create a cost category, you can use an existing enterprise project as a category rule.

A VPC is generally shared by multiple enterprise projects and its costs are regarded as shared costs. You can allocate the shared costs to enterprise projects based on the rules you defined so each enterprise project is accountable for its own costs.

#### Creating a Cost Category

**Step 1** Log in to Cost Center.

#### **Step 2** Choose **Cost Organization** > **Cost Categories**.

#### Step 3 Click Create Cost Category.

1. Configure basic information.

You can enter a cost category name (**shared resources** as an example) and set a look-back period for applying the cost category rules.

Cost Categories / Crea	ate Cost Category		
1 Configure Categ	ory Details	2 Define Category Rules	— 3 (Optional) Split Shared Costs
Specify Categ Specify a unique Category Name	ory Name cost category name, such Shared Resources	as a department, project, or owner nan	ne. Once your cost category is created, its name cannot be changed.
Select Look-b By default, cost c Look-back Period	ack Period ategory rules start being ap	plied during the current month, but you	u can select any specified month from the previous 12 months.
Next	Cancel		

- 2. Define cost category rules.
  - a. You can use an existing cost allocation method (**Enterprise Project** as an example) to quickly create cost category rules. In this example, since you have enterprise projects A, B, and C, the following rules will be created:
    - Rule 1: Enterprise project A
    - Rule 2: Enterprise project B
    - Rule 3: Enterprise project C

Define Category Rules
You can define up to 20 rules for a cost category, and the rules will be applied in the sequence you set. If you have used existing cost tags or enterprise projects for cost categorization, these existing rules are still recommended.Learn more
Rule 1 Inherited Value-Enterprise Project
Inherited Dimension Enterprise Project

b. Define rules for shared costs.

In this example, the rule name is **shared cost** and the condition is that the service type is Virtual Private Cloud (VPC).

Rule 2 shared cost
Rule Name shared cost
Only one logical operator can be used to associate a maximum of 6 conditions. If multiple operators are involved, use condition groups.
And V Condition 1 Service Type V Is Virtual Private Cloud (VPC) × Selected 1/13V
Add Condition

c. Define uncategorized costs.

Costs that do not comply with any cost category rules are named **Uncategorized (default name)**.

Generally, if you have finished group costs by using cost category rules, you can treat uncategorized costs as shared costs.

Define Uncategorized Costs									
Any costs that do not comply with the cost category rules are considered uncategorized costs. You can specify a name for the uncategorized costs so you can easily split them later									
Name Uncategorized (default name)									

#### D NOTE

Your cost management maturity rating is based on how thoroughly your costs are allocated.

- 3. Split shared costs.
  - a. Select a split source. In this example, **Source Value** is set to **shared cost**, which you specified when creating the cost category.
  - b. Select split targets. In this example, **Target Value** is each of the enterprise projects you used when creating the cost category.

**NOTE** 

You need to set the splitting rules for shared costs 4 hours after you inherit the existing cost allocation methods.

c. Select an allocation method. In this example, the method **Evenly** is selected. You can also select **Custom** to allocate your costs based on a custom percentage for each target value. Then you will see how your costs of shared resources are split across your target values.

(Optional) Define Shared costs will be a	Splitting Rules used as a source value you want to split. If you split	original net costs (actual payme	Include feet-purchase coupons V Include stored value cards n() and amortized net costs (amortized payment), you can view and export the results in the cost category details.	Net Amortized Cost	~
Rule 1				^	Θ
Source Value	shared cost V MTD cost: \$	<ol> <li>Source or target value no</li> </ol>	t available. Learn more		
Target Value	Enterprise Project A × Selected 3/3~				
Allocation Method	O Proportionally ⑦	Custom ③			
The following table	displays how your costs of shared resources are sp	lit evenly. For details, access th	e cost category details page.		
Target Value	Percentage	Associated Cost (USD)			
Enterprise Projec	1 A 33.33 %	21.401.10			
Enterprise Projec	t B 33.33 %	81,401 M			
Enterprise Projec	t C 33.33 %	23,601.00			
Total	100.00 %	70,04,94			

d. You can create multiple splitting rules for your use case. In this example, your uncategorized costs can be treated as shared costs and split to each enterprise project. You can follow the preceding steps to define splitting rules for uncategorized costs.

#### Step 4 Click Create Cost Category.

----End

#### Viewing Cost Breakdowns by Cost Category

Before you start, you must have created a cost category.

**Step 1** Log in to Cost Center.

#### **Step 2** Choose **Cost Organization** > **Cost Categories**.

**Step 3** Click the cost category name to view the cost details.

shared resources						
Status Applied	Look-back P	eriod 2024/07	Created Jul 03, 2024 14:51:18 GMT+08:00	Updated Jul 0	5, 2024 10:33:34 GMT+08:00	
Splitting Rules						Edit
Source Value		Target Value		Allocation Method		
shared resources		Enterprise Project A;Enterprise P	roject B;Enterprise Project C	Evenly		
Splitting Details You can click any amoun	it link to explore further on the Cost /	Analysis page.	Include flexi	-purchase coupons 🗹 Include stored v	alue cards Net Amortized Cost	<ul> <li>Export</li> </ul>
		Item	Net Amortized Cost (USD)	Split Amount (USD)	Amount Allocated (USD)	Proportion
		Total	70,224.54	0.00	70,224.54	100%
	S3.33% Enterprise Project A	Enterprise Project A	0.00	23,405.84	23,405.84	33.33%
Cost Distribution	<ul> <li>33.33%</li> <li>Enterprise Project B</li> </ul>	Enterprise Project B	0.00	23,405.84	23,405.84	33.33%
	<ul> <li>33.33%</li> <li>Enterprise Project C</li> </ul>	Enterprise Project C	0.00	23,405.84	23,405.84	33.33%
	1	shared cost Split source	70,224.54	-70,224.54	0.00	0%

The cost category details page provides an overview of your costs for each category value.

1. Basic information:

Table 2-1 Fields for basic information

Field	Description
Status	Status of the cost category rule.
Look-back Period	Period during which a cost category rule is applied.
Created	Time when the cost category rule was created.
Updated	Time when the cost category rule was last updated.

2. Splitting rules for shared costs

Field	Description
Source Value	<ul> <li>The shared costs you want to split. There are two types:</li> <li>Costs that have been categorized but have not met the splitting requirements, for example, the costs of the default enterprise project</li> <li>Costs that are not captured by your cost category rules</li> </ul>
Target Value	The cost category values you want to split your costs across
Allocation Method	<ul> <li>How you want your shared costs split among your targets. You can choose from the following methods:</li> <li>Proportionally: Costs are allocated across your targets based on the proportional weighted cost of each target. For example, if the value of target B is \$800 USD and the value of target C is \$200 USD, the ratio of target B to target C is 4:1. In this case, 80% of the source value will be allocated to target B and 20% to target C.</li> <li>Evenly: Costs are allocated evenly across all targets. For example, if there are two targets (A and B), then 50% of the costs will be allocated to target A and 50% to target B.</li> <li>Custom: Costs are allocated across your targets based on a custom percentage for each target. The percentages must add up to 100%.</li> </ul>

#### 3. Splitting details

Table 2-3	Fields	for	splitting	details
-----------	--------	-----	-----------	---------

Field	Description				
ltem	Rules you defined for the cost category.				
Net Amortized Cost	Net amortized cost after the cost splitting rules are applied. You can change the cost type in the upper right corner. In this example, <b>Net Amortized Cost</b> is chosen.				
Split Amount	The amount of the split source. If the amount is negative, the costs will be allocated to the split targets. If an item is not a split source or a split target, <b>0</b> will be				
	displayed.				
Amount Allocated	The amount actually allocated to each cost category. Amount Allocated = Net Amortized Cost + Split Amount				
Proportion	The percentage of costs that are allocated. You can see your cost breakdowns by proportion.				

----End

# 2.3 Using Cost Anomaly Detection to Identify Cost Anomalies

Cloud costs are variable and cloud resources are scalable. After enterprises migrate their services to Huawei Cloud, one of the challenges they face is how to monitor unexpected expenditure spikes. Cost Center provides Cost Anomaly Detection to help you identify cost anomalies in a timely manner and analyze and track these anomalies when they occur.

#### **Introduction to Cost Anomaly Detection**

Cost Anomaly Detection uses machine learning to establish a specific expenditure model for you based on your historical pay-per-use and yearly/monthly expenditures. This function helps identify cases and root causes for cost surprises by comparing them to forecasted amounts. For details about cost anomaly detection rules, see **Detection Rules**.

After you create alert notifications for monitors of a specific type (such as all services, linked accounts, cost tags, cost categories, or enterprise projects), Cost Center will notify the designated recipients of the cost anomalies whose impact has exceeded the specified threshold at a scheduled time.

You can view all cost anomalies associated with a monitor and analyze the potential causes of anomalies. You are advised to provide feedback on cost anomaly detection to help improve your consumption model and identify possible anomalies more accurately.

#### **Example Scenarios**

After receiving an email about cost anomalies, you may want to identify possible causes and do further analysis.

#### **Step 1: Viewing Anomaly History**

Suppose you have received a cost anomaly notification and are redirected to the cost anomaly detection page.

#### **NOTE**

- 1. After a global monitor is automatically created, you will receive a notification from Cost Center. This notification is not a cost anomaly alert.
- 2. Cost Anomaly Detection is free of charge.
- Step 1 Check your email for cost anomaly notifications.
- **Step 2** In the email, click **View Details** in the **Operation** column. You will be redirected to the **Cost Anomaly Details** page in Cost Center.

Detection Date	Cost Anomalies	Severity	Cost Impacted (USD)	Max.Daily (USD)	Duration (Day)	Monitor Name	Cloud Service	Account	Notification Name	Notification Threshold (USD)	Next Step
2024-12- 03	Yearly/Monthly	Critical	8.16	8.16	30	Cost Tags	Elastic Volume Service	-	test	1.00	<u>View</u> Details
f you want to view all cost anomalies, access <u>Anomaly History</u> . For more information, go to Cost Center on the HUAWEI CLOUD website at www.huaweicloud.com/intl/zh-cn.											

Step 3 View cost anomaly details. As shown in the following figure, a cost anomaly in a yearly/monthly subscription was generated on December 03, 2024. The cost impact was \$8.16 USD over 30 days, and the service type involved is EVS.

On the **Cost Anomaly Details** page, you can see the basic information and potential causes of the cost anomaly.

Cost Anoma	aly Details							×
Detection Sum	mary							View Cost Analysis 🖸
Critical Yearly/Monthly Severity Billing Mode			\$8.16 USD         Dec 03, 2024           Impacted Cost         Detection Date		30days Duration	成本标签 Ongoing		
Possible Cause	95							
Ranking	Account	Service Type	Resource Type	Bill Type	Region	Specifications	Usage Type	Operation
No.1	Caroline .	Elastic Volum	Volume	Expenditure	AF-Cairo	GPSSD		View Cost Anal
No.2	100.00	Elastic Volum	Volume	Expenditure	AF-Cairo	SAS		View Cost Anal
Feedback Detection Assessm	nent 💿 I was not :	aware of this anomaly	🔵 It was a false j	positive 🔿 I alrea	ady knew about	this anomaly		
Reasons	Unforesee	en usage 🗌 Res	ource packages expired	d 🗌 Resource pa	ackage usage e	xceeded Commercia	I discounts changed	Other reasons

----End

#### Step 2: Analyzing Causes of Cost Anomalies

**Step 1** Under **Possible Causes**, do preliminary analysis. For example, if you have renewed the yearly/monthly subscription in question, the cost increase is a foreseen anomaly, and you can confirm that it was a false positive. Your feedback will help improve the anomaly detection model.

Feedback			
Detection Assessmen	t 🔷 I was not aware of this anomaly	• It was a false positive	O I already knew about this anomaly

**Step 2** Further analyze the anomaly. If you think you are not aware of the increase, you are advised to click **View Cost Analysis** in the **Operation** column for further analysis.

Possible Causes										
	Ranking	Account	Service Type	Resource Type	Bill Type	Region	Specifications	Usage Type	Operation	
	No.1	0.000	Elastic Volum	Volume	Expenditure	AF-Cairo	GPSSD		View Cost Anal	
	No.2	100000	Elastic Volum	Volume	Expenditure	AF-Cairo	SAS		View Cost Anal	

Step 3 Determine whether the unforeseen anomaly is accurate. In this example, a new purchase order line was generated for EVS on December 2, 2024, costing \$8.16 USD. You need to check whether the new purchase was an anomaly or not.

Cost and Usage Summary								Display Dimens	ions
Total cost ()				Average daily cost ③				Grouped By	Service Type
\$8.16 USD				\$0.13 USD				Cost Type (9	Net original costs (actual pay
								Time	
Net original costs (actual	Net original costs (act	ual payments) (USD)					<u></u>	Granularity	Daily
payments) (USD)	10							Time Range	2024-11-01 - 2025-01-01
	8 6 4							Filters	Clear C
\$8.16 USD Total	2							Service Type	Clear Include
	0 lov 01, 2024 Nov 07,	2024 Nov 13, 2024	Nov 19, 2024 Nov 25, 20	24 Dec 01, 2024 Dec	07, 2024 Dec 13, 2024	Dec 19, 2024 Dec 25, 2	2024 Dec 31, 2024	Elastic Volume Se	ervice (EVS) $\times$
								Linked Account	Clear Include
				<ul> <li>Elastic Volume Service (E</li> </ul>	V5)			100.000	``````````````````````````````````````
Cost and Usage Details							Export	Region	Clear Include
forming Turns	Total	Nov. 20, 2024	Nov. 20, 2024	Nov 20, 2024	Dec 04 2024	Dec 03 2024	Date 03, 2024	AF-Cairo $\times$	×
Service type	iolai	1007 20, 2024	1107 23, 2024	107 30, 2024	000	000 02, 2024	000 03, 2024	PayerAccount N	ame Clear Include
Iotal cost ( USD )	8.10	0.00	0.00	0.00	0.00	8.10	0.00	$\operatorname{ChenLifeng}\times$	×
Elastic Volume Servic	8.16	0.00	0.00	0.00	0.00	8.16	0.00	Specifications	C
								Elastic Volume Se	ervice EVS ×

**Step 4** Analyze potential causes of the anomaly from a specific perspective. For example, if you want to analyze the source of the anomaly from the business perspective, you can select **Enterprise Project**, **Cost Tag**, or **Cost Category** to group the costs.

As shown in the following figure, the EVS cost (\$8.16 USD) generated on December 02, 2024 was assigned to the **default** enterprise project.

Cost and Usage Summary							Display Dimensions		
Total cost ⑦ \$8.16 USD			4	werage daily cost ③ 60.13 USD				Grouped By Enterpr Cost Type ③ Net orig	ise Project v
Net original costs (actual payments) (USD)	Net original costs (actua	al payments) (USD)					alla lita lite	Time Granularity Daily Time Range 2024-11	→ I-01 - 2025-01-01 (iii)
S8.16 USD Total	8 6 4 2 0 1 ov 01, 2024 Nov 07, 2	024 Nov 13, 2024 No	v 19, 2024 Nov 25, 2024	Dec 01, 2024 Dec 0	17, 2024 Dec 13, 2024	Dec 19, 2024 Dec 25, 2024	Dec 31, 2024	Filters Service Type Elastic Volume Service (EVS Linked Account	Clear Q Clear Include () 3) × · · · Clear Include ()
Cost and Usage Details				derauit			Export	Region AF-Cairo ×	Clear Include
Enterprise Project	Total	Nov 28, 2024	Nov 29, 2024	Nov 30, 2024	Dec 01, 2024	Dec 02, 2024	Dec 03, 2024	PaverAccount Name	Clear Include
Total cost ( USD )	8.16	0.00	0.00	0.00	0.00	8.16	0.00	ChenLifeng ×	v
default (USD)	8.16	0.00	0.00	0.00	0.00	8.16	0.00	Specifications	Clea
				-				Elastic Volume Service EVS	× ×

**Step 5** Set **Grouped By** to **Resource Name/ID** to identify the resources that have generated expenditures.

As shown in the following figure, the costs of EVS **volume-4c2a b9ef14be-8f1e-46a5-a31d-6c5196082937** purchased on December 08, 2024 and December 09, 2024 were \$0.26 USD and \$6.38 USD, respectively.

#### 2 Cost Allocation

Cost and Usage Summary								Display Dimensions		
								Grouped By	Resource Name/ID ~	
s6.63 USD				Average daily cost ⊚ \$0.21 USD				Cost Type ③	Amortized costs (amortized a	
								Time		
	(mba) bizz tez									
Amortized costs (amortized	Amortized costs (amortized amount due) (USD)							Granularity	Daily V	
amount due) (USD)	7			Time Range	2024-12-08 - 2025-01-07					
\$6.63 USD Total	5								Clear G	
	2							Service Type	Clear Include	
	0 - Zeroven do se contra de la							Elastic Volume Service (EVS) $\times$ $\checkmark$		
								Linked Account	Clear Include 1	
			<b>o</b> vo	lume-4c2a (Elastic Volume				100000	× )	
Cost and Usage Details							(Export	Region	Clear Include 1	
								AF-Cairo $\times$	× )	
Resource Name/ID 0	Cloud Service	Total	Dec 08, 2024	Dec 09, 2024	Dec 10, 2024	Dec 11, 2024	Dec 12, 20.	PayerAccount Na	me Clear Include 1	
Total cost ( USD )	-	6.63	0.26	6.38	0.00	0.00	0.	distance in	~ )	
volume-4c2a b9ef14be-8f1e-46a5-a31d-6	Elastic Volume Service (	6.63	0.26	6.38	0.00	0.00	0.	Specifications	Clear	
								Elastic Volume Se	invice EVS × V	

----End