

# Alibaba Cloud MaxCompute

Pricing

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# Generic conventions

Table -1: Style conventions

Style	Description	Example
	This warning information indicates a situation that will cause major system changes, faults, physical injuries, and other adverse results.	 <b>Danger:</b> Resetting will result in the loss of user configuration data.
	This warning information indicates a situation that may cause major system changes, faults, physical injuries, and other adverse results.	 <b>Warning:</b> Restarting will cause business interruption. About 10 minutes are required to restore business.
	This indicates warning information, supplementary instructions, and other content that the user must understand.	 <b>Note:</b> Take the necessary precautions to save exported data containing sensitive information.
	This indicates supplemental instructions, best practices, tips, and other content that is good to know for the user.	 <b>Note:</b> You can use <b>Ctrl + A</b> to select all files.
>	Multi-level menu cascade.	<b>Settings &gt; Network &gt; Set network type</b>
<b>Bold</b>	It is used for buttons, menus, page names, and other UI elements.	Click <b>OK</b> .
Courier font	It is used for commands.	Run the <code>cd /d C:/windows</code> command to enter the Windows system folder.
<i>Italics</i>	It is used for parameters and variables.	<code>bae log list --instanceid Instance_ID</code>
[ ] or [a b]	It indicates that it is a optional value, and only one item can be selected.	<code>ipconfig [-all -t]</code>
{ } or {a b}	It indicates that it is a required value, and only one item can be selected.	<code>swich {stand   slave}</code>

# Contents

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<b>Legal disclaimer.....</b>	<b>I</b>
<b>Generic conventions.....</b>	<b>I</b>
<b>1 Billing.....</b>	<b>1</b>
<b>2 Outstanding payment warning and suspension policies.....</b>	<b>7</b>
<b>3 Renewal Management.....</b>	<b>8</b>

# 1 Billing

## Overview:

- MaxCompute is billed according to the projects you create and the items you use within each project.
- Billable items include the storage, computing resources and data downloads of a project.
- MaxCompute fees are calculated daily.

## Storage pricing

The data that is stored in MaxCompute, including tables and resources, is billed according to the storage used. The billing cycle is **one day**.

MaxCompute records the storage used for each project on an hourly basis. The average storage over the day is then calculated for each project space at the end of each day.

The daily MaxCompute fee is calculated by applying the tiered unit prices in the table below to the average storage used. Up to 1 GB of storage is free each day, while storage used between 1 GB and 100 GB costs 0.0028 USD for each gigabyte and so on. If you require more than 1 PB of storage per day, you can contact us through a job order to get a quote for the price..

Less than 1 GB USD/ GB/Day	1 GB to 100 GB USD/ GB/Day	100 GB to 1 TB USD/ GB/Day	1 TB to 10 TB USD/GB /Day	10 TB to 100 TB USD/GB/ Day	100 TB to 1 PB USD/ GB/Day	More than 1 PB USD/ GB/Day
Free	0.0028	0.0014	0.0013	0.0011	0.0009	Please contact us

For example, if you store 50 TB data in MaxCompute, the bill is calculated as follows.

```
(100GB-1) x 0.0028 USD/GB/day
+(1024-100)GB x 0.0014 USD/GB/day
+(10240-1024)GB x 0.0013 USD/GB/day
+(50 x1024-10240)GB x 0.0011 USD/GB/day
=58.61 USD/day
```



### Note:

- Because MaxCompute compresses and stores user data, the bill is based on the capacity size of the data after compression. This means the size of the stored data is different from the

size of the data as measured by you before storage. The compression ratio is generally about 5.

- Generally, MaxCompute fees are deducted no more than 6 hours after the daily fee calculation is completed, and are automatically deducted from the corresponding account balance.
- On the MaxCompute console, you can view your consumption details under **Bill Management**.

## Computation pricing

MaxCompute supports two kinds of billing methods.

- Pay-As-You-Go: Each task is measured according to the input size by job cost.
- Subscription (CU cost): Users can subscribe the usage of a part of the resource in advance. This method is only supported on **Alibaba Cloud DTPlus Platform**.

Currently, MaxCompute supports the following computing task types: SQL, UDF, MapReduce, Graph, and machine learning. Charges apply for SQL (excluding UDF) computing tasks and for MapReduce tasks (charges introduced 2017-12-19). There are no plans to charge for other types in future.

### Pay-As-You-Go

Pay-As-You-Go is for SQL tasks and MapReduce tasks.

SQL tasks are paid after volume, that is, SQL is charged after I/O:

Every SQL task is billed according to **Data Input size** and **SQL Complexity**. Once the SQL task is completed, MaxCompute sends its metering information to the billing system, which calculates the fee and adds it to the next payment.

The MaxCompute SQL task is charged according to I/O for each job. All daily measurement information is paid next day.

The bill for SQL tasks is calculated as follows.

$$\text{Computing Cost of One SQL Task} = \text{DataInputSize} \times \text{SQLComplexity} \times \text{SQL Price}$$

The price is as follows.

Item	Price
SQL task	0.0438 USD/GB.

- **Data Input Size:** The actual size of the data that an SQL statement scans. Most SQL statements have partition filtering and column pruning, so this value is generally less than the source table data size.
  - Column pruning: For example, the submitted SQL is `select f1,f2,f3 from t1;`. Only the data size of three columns (f1, f2, and f3) in t1 are charged.
  - Partition filtering: For example, a SQL statement includes `ds>"20130101"`. The “ds” is a partition column. The data size is calculated only according to the read partition, rather than the data of other partitions, and then billed.
- **SQL Complexity:** First, MaxCompute counts keywords in SQL statements, and then converts to SQL complexity.
  - SQL keyword number = join Number + group by number + order by number + distinct number + window function number + max (insert into Number -1, 1)
  - SQL complexity calculation:
    - If SQL keyword number is less than or equal to 3, the complexity is 1.
    - If SQL keyword number is less than or equal to 6, the complexity is 1.5.
    - If SQL keyword number is less than or equal to 19, the complexity is 2.
    - If SQL keyword number is greater than or equal to 20, the complexity is 4.

The input SQL statement for calculating SQL Complexity is as follows.

```
cost sql <SQL Sentence>;
```

An example of a SQL statement is as follows.

```
odps@ $odps_project >cost sql SELECT DISTINCT total1 FROM
(SELECT id1, COUNT(f1) AS total1 FROM in1 GROUP BY id1) tmp1
ORDER BY total1 DESC LIMIT 100;
```

```
Complexity:1.5
```

The preceding SQL includes 4 keywords (one DISTINCT, one COUNT, one GROUP BY, and one ORDER), so the SQL complexity is 1.5. If the data volume of table “in1” is 1.7 GB, then the actual consumption is as follows.

```
1.7 x 1.5 x 0.0438 = 0.11 USD
```



**Note:**

- The bill invoicing time is usually before 06:00 the next day. After the computing task successfully ends, the system counts the data size and SQL complexity. After the bill is generated, the fee is automatically deducted from your account. If the SQL task is unsuccessful, no fee is deducted.
- As with storage, SQL computing also calculates and bills the data size after compression.



**Note:**

When you need to mix the internal and external tables, you will pay separately.

Since January 1, 2019, MaxCompute will begin charging for external table SQL tasks. The billing for one external table SQL task is calculated as follows. :

$$\text{Computing Cost of One SQL Task} = \text{DataInputSize} \times \text{SQLComplexity} \times \text{SQL Price}$$

The SQL price is as follows.

Item	Price
SQL task	0.0044 USD/GB

The external table SQL task is charged according to I/O for each job and is separated from the billing of normal SQL tasks. All daily measurement information is paid next day.

Pay-As-You-Go for MapReduce

In December 19, 2017, MaxCompute began charging for MapReduce (MR) tasks. The billing of a MR task is calculated as follows.

$$\text{Computing Cost of One MR task} = \text{TotalTime} \times \text{MR Price(USD)}$$

The price is as follows:

Item	Price
MR task	0.0690 USD/Hour/Task.

The calculating time for each successful MR task is: Execution time (hours) × Number of cores that task calls.

If one MR task calls 100 cores, and the task takes 30 minutes to complete, the calculating time for the MR task is: 0.5 hours × 100 cores = 50 hours.

After the MR task is finished, MaxCompute sends its metering information to the billing system, which calculates the fee and adds it to the next payment.

 **Note:**

- You are not charged if a task fails to run.
- The calculating time does not include the time waiting for execution.
- If you purchased the MaxCompute Subscription service, you can use MR tasks for free within the range of the services you purchased. No additional fee is charged.

### Subscription (CU cost)

Payment by subscription is only available on the **Alibaba Cloud DTPlus Platform**. Subscription allows you to pay an initial fee (monthly or annually) for your entire reserved resources. The basic unit of such resources is defined as CU (Compute Unit). One CU includes 1 core CPU and 4 GB of memory.

Resource definitions	Memory	CPU	Price
1 CU	4GB	1 CPU	22.0 USD/month

We recommend that new users use the Pay-As-You-Go billing method, since this allows you to gauge your resource usage without unnecessary costs. Payment by subscription is only available on the Alibaba Cloud DTPlus platform.

### Download pricing

You can download data from the extranet through the MaxCompute Tunnel. The billing method for data downloads is Pay-As-You-Go. The calculation is as follows.

$$\text{Download Cost from Extranet/time} = \text{Downloaded Data Volume} \times \text{Download Price}$$

The price is as follows:

Item	Price
Data download	0.1166 USD/GB.

 **Note:**

- MaxCompute sends you messages to notify you of the size of your downloads, and to provide you with your download costs the next day.

- Download data volume refers to the size of an HTTP body for one download request. The HTTP body that carries data uses protobuf encoding, so it is generally smaller than the original data size, but larger than the data stored in MaxCompute after compression.
- The different billing methods are applicable to different network environments, such as public networks, classic networks of Alibaba Cloud, or VPC networks. For more information, see [Access domains and data centers](#). For more information, see [Access domains and data centers](#).

## 2 Outstanding payment warning and suspension policies

This article provides you with the MaxCompute service stop and arrears strategy.

The outstanding payment warning and suspension policies for MaxCompute are as follows.

Billing method	Outstanding payment warning and suspension policies
Subscription	<ul style="list-style-type: none"> <li>• If your instance expires, the corresponding items in the instance are locked for 15 days (your MaxCompute project data is retained during this time).</li> <li>• If the instance is not renewed in the 15 days after the expiration date, the corresponding resources in the instance are released, and all MaxCompute project data associated with the instance cannot be recovered.</li> </ul>
Pay-As-You-Go	<ul style="list-style-type: none"> <li>• If a bill that is due cannot be paid through the bank card associated with the billing account, your instance will enter an overdue payment state. By default, you will receive an expiration reminder.</li> <li>• If the bill remains unpaid 15 days after it is due, your MaxCompute services are locked.</li> </ul>



### Note:

MaxCompute services enter the outstanding payment or suspension state if, during the running of a calculation task, the following error occurs.

```
ODPS-0420095: Access Denied - Authorization Failed [4093], You have NO privilege to do the restricted operation on {acs:odps:*:projects/project_name}. Access Mode is AllDenied.
```

## 3 Renewal Management

If your instance expires, the corresponding items in the expired instance are immediately locked by the system. You can renew your instance by using the Manually Renew option.

The renewal operation is described as follows:



### Note:

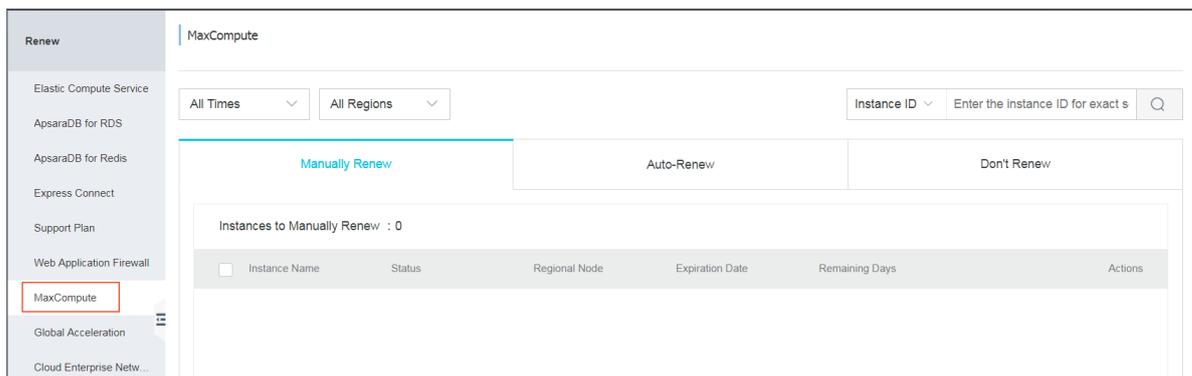
- If an instance is not renewed in the 15 days after the expiration date, the corresponding resources in the instance are released, and all MaxCompute project data associated with the instance cannot be recovered.
- If your instance expires, the corresponding items in the expired instance are immediately frozen by the system, and the instance enters the **Expiration** status.

### Manual renewal

You can renew instances on the **renewal management** page or the **project list** page.

#### Renewal management page

1. Log on to the [DTplus console](#). In the left-side navigation pane, click **MaxCompute**.
2. Go to **Bill Management > Renew**.
3. Click **Manually Renew** and select **MaxCompute**, as shown in the following figure.



4. Select the instance to renew, and click **Renew**.
5. Select the required renewal duration, and click **Pay**.

#### Manual renewal using the project list page

1. Log on to the [DTplus console](#). In the left-side navigation pane, click **MaxCompute**, Click **Project List**.

2. In the **Subscribed service** column, select the service icon that is displayed red, which indicates an expired instance. Click **Renew**.
3. Select the required renewal duration, and click **Pay**.

## Auto-Renew

You can select **Auto-Renew** to renew instances automatically.

### Procedure

1. Log on to the [DTplus console](#). In the left-side navigation pane, click **MaxCompute**.
2. Go to **Bill Management > Renew**.
3. Select **MaxCompute** in **Renew**, click **Manually Renew**.
4. Click **Enable Auto-Renew**, as shown in the following figure.



<input type="checkbox"/>	Instance Name	Status	Regional Node	Public/Private network IP	Expiration Date	Remaining Days	Actions
<input type="checkbox"/>	[REDACTED]	Normal	China East 1 (Hangzhou)	47.96.149.110/172.16.121.123	2018-03-29 00:03	7 hour(s)59 minute (s)	<a href="#">Renew</a> <a href="#">Enable Auto-Renew</a> <a href="#">Don't Renew</a>

[Enable Auto-Renew](#) [Don't Renew](#) 1 Results < Previous 1 Next >

5. Select the Auto-renewal period, and click **Activate auto-renewal**.

### Enable Auto-Renew ✕

1. With auto-renewal, you will be charged from the day the service expires. Make sure that you have sufficient balance in your credit card or other methods of payment. If your instance are expiring tomorrow, use manual renewal instead.

2. If you manually renew your instance before the charge date, the auto-renewal occurs based on the new expiration date.

3. If you set up auto-renewal today, you will be automatically charged starting tomorrow, and using credit is supported.

Renews these products on expiration, **Auto-Renew Cycle** 1 Month ▼

Instance Name	Expiration Date	Remaining Days
[blurred]	2018-03-29 00:03	8 hour(s)4 minute(s)

Not Now
Enable Auto-Renew

6. After configuration is complete, the page displays the notification that the **Auto-renewal feature has been activated**. Enter the **auto-renewal** page to see the auto-renewal instance information.

Instances to Auto-Renew : 1

	Instance Name	Status	Regional Node	Public/Private network IP	Expiration Date	Remaining Days	Renewal Cycle	Actions
<input type="checkbox"/>	[blurred]	Normal	China East 1 (Hangzhou)	47.96.149.110/1 72.16.121.123	2018-03-29 00:03	7 hour(s)57 minute(s)	1 Month	<a href="#">Renew</a>   <a href="#">Modify Auto-Renew</a>   <a href="#">Don't Renew</a>
<input type="checkbox"/>	<span style="border: 1px solid #ccc; padding: 2px 5px; margin-right: 5px;">Modify Auto-Renew</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">Don't Renew</span>							

1 Results < Previous 1 Next >

7. If you need to modify or cancel the Auto-Renew, click **Modify Auto-Renew** to **modify renewal cycle time**, click **Don't Renew** to cancel the renewal activity, and click **OK**.

**Note:**

- The system attempts to process fees at three intervals: first, one day after expiration, second, the 6th day after expiration, and third, the 14th day after expiration. If all three

deduction attempts fail, you must renew your instance manually, or your instance will be released and all MaxCompute data associated to the instance will be irrecoverable.

- To enable auto-renewal of an instance, you must configure auto-renew before 08:00 a.m. at least one day before the instance’s expiration date.

### No Renewal

If you do not want to renew your instances, or if you want to renew your instances manually, go to the **Don't Renew** tab, and in the **Actions column** click **Enable Manually Renew**.

Don't Renew Instances : 1

<input type="checkbox"/>	Instance Name	Status	Regional Node	Public/Private network IP	Expiration Date	Remaining Days	Actions
<input type="checkbox"/>	[REDACTED]	Normal	China East 1 (Hangzhou)	47.96.149.110/172.16.121.123	2018-03-29 00:03	7 hour(s)7 minute (s)	<a href="#">Renew</a>   <a href="#">Enable Auto-Renew</a>   <a href="#">Enable Manual Renew</a>

[Enable Auto-Renew](#) [Enable Manual Renew](#) 1 Results < Previous 1 Next >



#### Note:

If you select the Don't Renew option, the system does not send an expiration reminder. However, 3 days before expiration, the system will send a reminder to you to verify that the Don't Renew option matches your requirements.