

Alibaba Cloud MaxCompute

Prepare

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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.	 Danger: 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.	 Warning: 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.	 Notice: 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.	 Note: You can use Ctrl + A to select all files.
>	Multi-level menu cascade.	Settings > Network > Set network type
Bold	It is used for buttons, menus, page names, and other UI elements.	Click OK.
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 an optional value, and only one item can be selected.	<code>ipconfig [-all -t]</code>

Style	Description	Example
<code>{}</code> or <code>{a b}</code>	It indicates that it is a required value, and only one item can be selected.	<code>swich {stand slave}</code>

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1 Create an Alibaba Cloud account

Before using MaxCompute, you must create an Alibaba Cloud account.

Procedure

1. Create an Alibaba Cloud account.

If you have not yet created an Alibaba Cloud account, you can go to the [Alibaba Cloud official website](#) and click Free Account to create an Alibaba Cloud account.



Note:

An Alibaba Cloud account has all operation permissions over its cloud resources. We recommend that you rotate your password periodically and do not share the password of your Alibaba Cloud account with other users to maintain your account security.

2. Verify your identity.

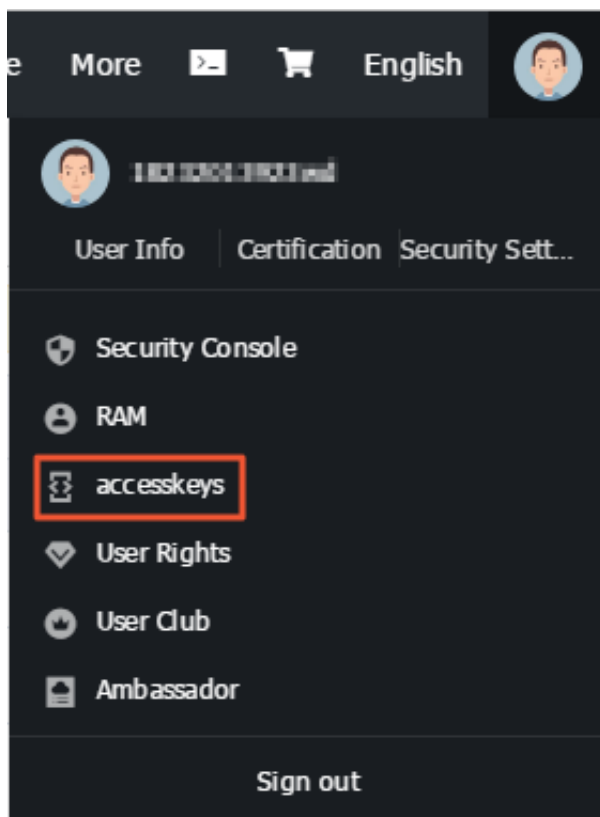
You need to verify your identity before you can purchase and use Alibaba Cloud products. To do so, go to the [identity verification](#) page and follow the instructions.

3. Create an AccessKey.

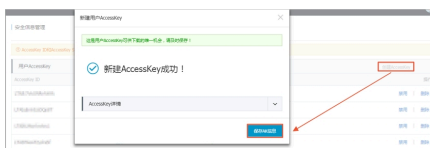
You need to create an AccessKey to run tasks in DataWorks. An AccessKey consists of an AccessKey ID and an AccessKey Secret, and is used for access permission

verification between various Alibaba Cloud products. To create an AccessKey, follow these steps:

- a) Log on to the Alibaba Cloud console, move the pointer over the user icon, and click accesskeys, as shown in the following figure.



- b) On the displayed page, click Create AccessKey, enter the verification code sent to your device, and click Confirm. On the displayed page, click Save AccessKey Information, as shown in the following figure.



You can then view the AccessKey status, and enable, disable, or delete an AccessKey as needed, as shown in the following figure.

Security Management					
① AccessKey ID and AccessKey Secret are the API keys for you to access Aliyun. It has full access privilege of the account. Please keep it safe.					
User AccessKey					Create AccessKey
AccessKey ID	Access Key Secret	Status	Time Created	Action	
LTAI4V6V6V6V6V6V6V6V6V6	Show	Enable	2019-02-22 17:40:18	Disable	Delete
LTAI4V6V6V6V6V6V6V6V6V6	Show	Enable	2019-02-20 14:13:01	Disable	Delete

If an AccessKey is disabled, services that use the AccessKey may not work properly, and an error might be reported. Exercise caution before disabling an AccessKey.

**Note:**

We recommend that you do not share your AccessKey with other users to maintain your account security. If an AccessKey is mistakenly disclosed, lost, or stolen, disable or update the AccessKey immediately.

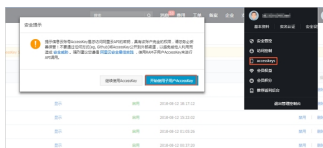
4. To create a MaxCompute project as a RAM user, [create an AccessKey](#) and attach the AccessKey to the RAM user.

What's next

- Create a RAM user.

You can use your Alibaba Cloud account to create a RAM user to log on to the DTplus platform and use DataWorks.

- Create a RAM user named DataWorks-admin and save the AccessKey, as shown in the following figure.



- Check whether Console Password Logon is enabled. If not, click Modify Logon Settings, as shown in the following figure.



- Grant permission to the RAM user.

To activate MaxCompute and create projects as a RAM user, you need to grant relevant permissions to the RAM user. To do so, follow these steps: Choose Permissions > Grants and click Grant Permission. On the displayed page,

set Principal to DataWorks-admin, select the AliyunDataWorksFullAccess or administrator policy, and click Ok, as shown in the following figure.



Note:

If a RAM user creates a project, the RAM user is the project administrator and the Alibaba Cloud account is the project owner.

For more information about how to create a RAM user, see [#unique_5](#).

2 Activate MaxCompute

Prerequisites

If you are using DTplus products and DataWorks for the first time, you must log on to the console by using your Alibaba Cloud account. If you need to log on to the console and create projects as a RAM user, you must ensure that the RAM user has been granted the required permissions according to [#unique_7](#). To activate MaxCompute, follow these steps:

Procedure

1. Log on to the [Alibaba Cloud website](#) by using your Alibaba Cloud account.
2. Go to the home page of [MaxCompute](#) and click Buy Now.
3. Select a payment method, and click Buy Now.

MaxCompute (Pay-As-You-Go)

Subscription Pay-As-You-Go

Region	Asia Pacific SE 1 (Singapore)	Asia Pacific SE 2 (Sydney)	Asia Pacific SE 3 (Kuala Lumpur)	EU Central 1 (Frankfurt)	Hong Kong (Hongkong)	China North 2 (Beijing)
China East 1 (Hangzhou)	China East 2 (Shanghai)	China South 1 (Shenzhen)	China SW 1 (Chengdu)	US West 1 (Silicon Valley)	Asia Pacific NE 1 (Japan)	
Asia Pacific SOU 1 (Mumbai)	Asia Pacific SE 5 (Jakarta)	US East 1 (Virginia)	MiddleEast1 (Dubai)	UK (London)		

Current Selected

Region: China East 2 (Shanghai)

Fee: 0.1166 USD/GB / Hour(s)

Buy Now

Basic

Computing
Quantity: Based on Actual Usage
Purchase Price: Based on DataInputSize&SQLComplexity or MapReduce Hour/Task Calculation

Download
Quantity: Based on Actual Usage
Purchase Price: 0.1166 USD/GB only for Internet charges

Storage
Quantity: Based on Actual Usage
Purchase Price: Incremental Pricing

MaxCompute provides two payment options: Subscription and Pay-As-You-Go. You can select a method as needed. For more information, see [Billing](#).

You can select a region according to your current setup. We recommend that you take into consideration the regions of related Alibaba Cloud products (such as ECS) and your actual data.

4. Confirm the order details and click Activate.

Confirm Order

Activated Successfully

Item Information	Method of Payment	Quantity	Discount	Fee
MaxCompute (Pay-As-You-Go) Length of Service Time: Per Hour Region: China East 2 (Shanghai)	Pay-As-You-Go	1	/ Hour(s)	Base Price: / Hour(s)

☐ MaxCompute (Pay-As-You-Go) Agreement of Service

Activate

The following page is displayed, indicating that MaxCompute is activated.

Pay

Confirm Order

Activated

Order complete.

The service you ordered is being activated. It may take 1 to 5 minutes to complete.
Please wait a while.

Console

Purchase History

After, you can create MaxCompute projects as needed. For more information, see [#unique_8](#).



Note:

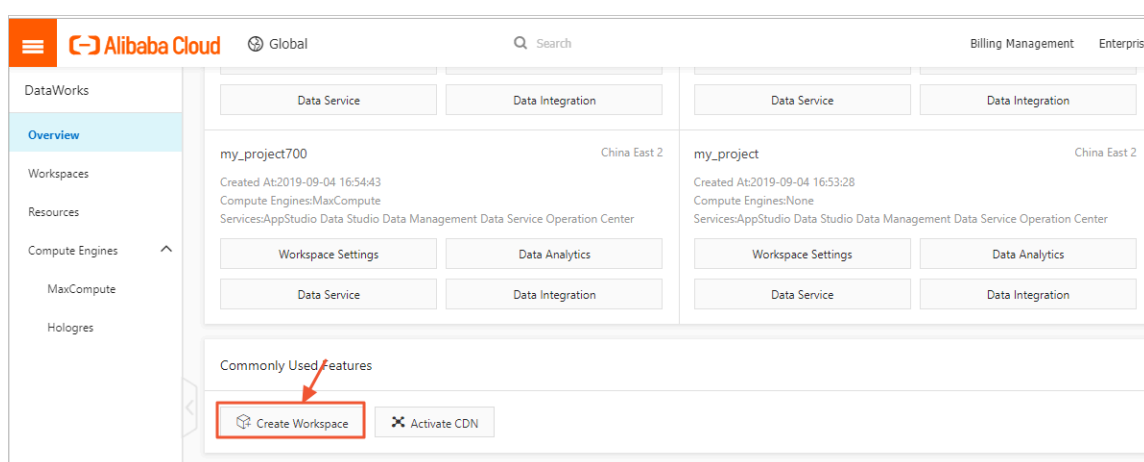
MaxCompute and DataWorks shares the same console. You must [activate DataWorks](#) before you create a MaxCompute project.

3 Create a project

A project is the basic unit of operation in MaxCompute.

Procedure

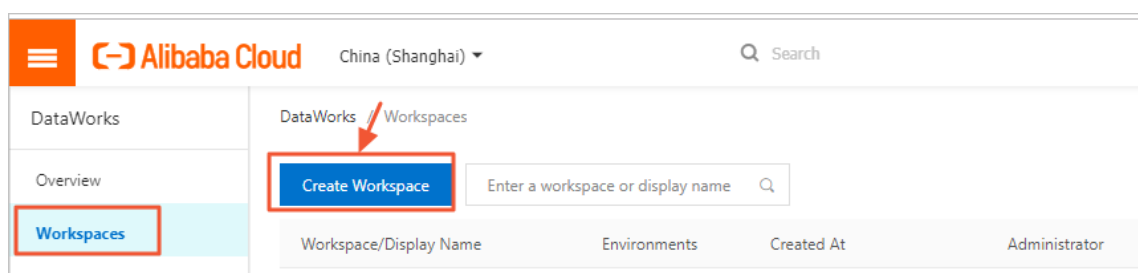
1. Log on to the [DataWorks console](#) and create a MaxCompute project in either of the two following ways.
 - On the console overview page, go to Commonly Used Features > Create Workspace.



Note:

Creating a workspace is creating a MaxCompute project.

- On the console overview page, click Workspaces, and then click Create Workspace.



2. Configure in the Create Project dialog box, select region and service. If you do not buy related services for the selected region, 'Service is not available for this

region' is displayed. The data development, O&M center, and data management are selected by default. as shown in the following figure:

Create Workspace

Select region

China North 2 China East 1 China East 2 China South 1 Hong Kong

US West 1 Asia Pacific SE 1 US East 1 EU Central 1 Asia Pacific SE 2

Asia Pacific SE 3 Asia Pacific NE 1 Middle East 1 Asia Pacific SOU 1

Asia Pacific SE 5 UK

Choose Calculation Engine Services

☒ MaxCompute ☐ Pay-As-You-Go ☐ Subscription [Go Buy](#)

After opening, you can develop MaxCompute SQL, MaxCompute MR tasks in DataWorks.

☐ Machine learning ☐ Pay-As-You-Go [Go Buy](#)

After opening, you can use machine learning algorithms, deep learning frameworks, and online forecasting services. PAI using machine learning, you need to use MaxCompute

Choose DataWorks Service

☒ Data Integration ☐ Pay-As-You-Go

After opening, you can develop data integration tasks in DataWorks and quickly implement data synchronization among more than 20 data

Cancel Next Step

Select calculation engine services:

- If you want to add and authorize users using DataWorks, see [Add Users and Roles](#).

DataWorks service:

- **Data integration:** A data synchronization platform that provides stable, efficient, and elastically scalable services. It is designed to implement fast and stable data movement and synchronization between various heterogeneous data sources

in complex network environments. For more information, see [Data Integration Overview](#).

- **Data development:** The data development helps you to design data computing processes according to your business demands and make mutually dependent tasks be automatically run in the scheduling system. For more information, see [Data Development Overview](#).
- **O&M center:** The O&M Center is a place where tasks and instances are displayed and operated. You can view all your tasks in Task List and perform such operations on the displayed tasks. For more information, see [O&M Center Overview](#).
- **Data management:** The Data Management module of the Alibaba Cloud DTplus platform displays the global data view and metadata details of an organization, and enables operations such as divided permission management, data lifecycle management, and approval and management of data table/resource/function permissions. For more information, see [data management overview](#).

3. Configure the basic information and advanced settings for the new project.

Create Workspace

Basic Information

* Workspace Name :

Display Name :

* Workspace Mode :

Simple Mode (Single Environment)

Workspace Description :

Advanced Settings

* Enable Scheduling Frequency :

on

?

* Download Select Result :

on

?

For MaxCompute

* MaxCompute Project Name :

?

* MaxCompute Access Identity:

Workspace Owner

?

Previous

Create Workspace

Basic Configuration:

- project name: The length of the project name is between 3 and 27 characters.
- display name: The length of the display name is not more than 27 characters.
- Workspace mode: The new version of Dataworks workspace has introduced simple and standard modes. For a detailed description, see [Simple mode and standard mode](#).

Advanced Configuration:

- **Enable scheduling frequency:** Control the current project whether to enable or disable the scheduling system, and if it is disabled, it can not periodically schedule tasks.
 - **Allow editing tasks and code in this project:** if the permission of the current project member to create/edit code files in this project is disabled, you cannot create/edit a new/edited code file.
 - **Enable select result downloads in this project:** Whether data results from select statement can be downloaded in this project, and if it is disabled, it cannot download the data query results from select statement.
 - **MaxCompute project name:** A same project name of MaxCompute can be created in the process of creating the project.
 - **Maxcompute access identity:** Personal account, system account. It is recommended that corporate users with high security requirements use their personal accounts.
 - **Quota group:** Quota is used to implement disk quotas.
4. Click Create, the project is displayed on the project list.

**Note:**

- Once you become a project owner, it means that everything in the project is yours, and no one has permission to access your project before the authentication.
- For general users, it is not necessary to create a project. If you are added to a project, you can use the MaxCompute.

4 Install and configure a client

MaxCompute console is also called odpscmd MaxCompute CLI tool.

Once you install and configure the MaxCompute console, you can access all functions of MaxCompute through the console. For more information, see [Client](#).



Note:

- We recommend that you use the MaxCompute Studio tool. This tool integrates with the Java environment and allows MaxCompute SQL script development and execution, data management, visual log analysis, and Java (UDF, MR) development. For more information, see [What is Studio](#).
- You can also use MaxCompute through DataWorks. After creating a project in the console, you can click on Enter Workspace of the specified project in the project list to operate projects with MaxCompute. For more information, see [DataWorks](#).

Install the console



Note:

Make sure you have JRE 1.7 or a later version installed to properly use the MaxCompute console.

1. [Click here](#) to download the MaxCompute client.
2. Decompress it into a folder. After decompression, you can see four following folders:

```
bin /  conf /  lib /  plugins /
```

Configure the Console

A file called odps_config.ini is in the conf folder. Edit it by filling in corresponding information to configure the console:

```
access_id =*****
access_key =*****
# Your AccessKeyId and AccessKeySecret . You can apply
  for an AccessKey through the official Alibaba Cloud
  console .
project_name = my_project # Specify the project you want
  to use .
end_point = https://service.odps.aliyun.com/api # Access
  URL of the MaxCompute service .
```

```
tunnel_end point = https :// dt . odps . aliyun . com # Access
URL of the MaxCompute Tunnel service .
log_view_host = http :// logview . odps . aliyun . com
# After a user executes a task , the console returns
the LogView address of this task . You can view the
detailed execution information of this task at this
address .
https_check = true # Determine whether to enable HTTPS
access .
```

**Note:**

- We recommend that you configure the console according to the region you designated the MaxCompute service.
- # is used as a comment symbol in the dps_config.ini file. However, the MaxCompute console uses two minus signs -- as a comment symbol.
- Creating a project in advance is needed so that you can specify in the configuration file. For more information, see [Project](#).
- MaxCompute provides two service addresses separately on the Internet and the intranet. Different addresses correspond to different download prices. For more information, see [Access Domains and Data Centers](#).

Run the console

After the configuration file has been modified, run MaxCompute in bin directory (For Linux, run ./bin/odpscmd, for Windows, run ./bin/odpscmd.bat). For example:

```
create table tbl1 ( id bigint );
insert overwrite table tbl1 select count (*) from tbl1 ;
select ' welcome to MaxCompute !' from tbl1 ;
```

For more information about SQL statements, see [SQL Summary](#).

5 Users and Roles

[#unique_24](#) are the basic unit of multi-tenant architecture, data management, computing, and are also a subject of billing in MaxCompute. Once user becomes a project owner, all objects (tables, instances, resources, UDFs) in this project belongs to the user. If project owner does not grant permissions to others, no one else has permission to access this project.



Note:

For RAM sub-accounts that already have roles in a MaxCompute or Dataworks project, revoke the sub-account role in the project and remove the sub-account in the project space before deleting the RAM sub-account. Otherwise, the sub-account will be residual in the project space, displayed as "p4_XXXXXXXXXXXXXXXXXXXX" and cannot be removed in the project space (does not affect normal function usage)). Sample:

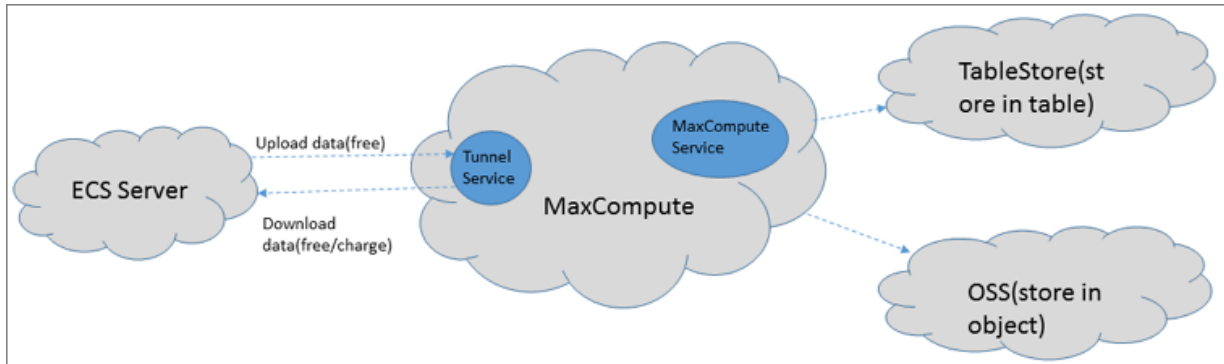
```
Residual sub - account in the project space :
odps @ MaxCompute > list users ;
p4_2652900 xxxxxxxxxxxx
The residual sub - account could not be deleted in
space :
odps @ MaxCompute _DOC > remove user p4_2652900 xxxxxxxxxxxx ;
Confirm to "remove user p4_2652900 xxxxxxxxxxxx
;" ( yes / no )? yes
FAILED : lack of account provider
You can still see the RAM sub - account on the
dataworks project member management page at this time
.
The right approach : revoke the role of the sub -
account first :
odps @ MaxCompute > revoke role_proje ct_securit y ,
role_proje ct_admin , role_proje ct_dev , role_proje ct_pe
, role_proje ct_deploy , role_proje ct_guest from RAM $
MainCount : hanmeimei ;
OK
Then remove the sub - account in project space :
odps @ MaxCompute > remove user RAM $ MainCount : hanmeimei ;
Then the RAM sub - account can be deleted normally .
```

- If you want to add and authorize users using DataWorks, see [#unique_10](#).
- If you use the MaxCompute security management commands for [user management](#), see User Management for how to create, authorize, and delete users (including RAM sub-accounts).
- If you use the MaxCompute security management commands for role management, see [Role Management](#) for how to create, authorize, and delete roles.

- For more information about authorization and permission check, see [Authorization](#) and [Permission Check](#).

6 Configure endpoints

This topic describes the regions that MaxCompute is available in, MaxCompute connection methods, and issues arising from use with other Alibaba Cloud services such as ECS, Table Store, and OSS.



MaxCompute provides two types of endpoints:

- **MaxCompute endpoint:** All requests except for upload and download requests can be sent to MaxCompute. For example, you can send a request to create a table, delete a function, or create a job.
- **MaxCompute Tunnel endpoint:** The MaxCompute Tunnel endpoint is used to upload and download data. To upload and download data through MaxCompute Tunnel, you can initiate a request through the MaxCompute Tunnel endpoint.



Note:

- MaxCompute Tunnel downloads are charged differently in each region due to different deployments and network connection states for MaxCompute Tunnel.
- If your Tunnel endpoint needs to connect over the internal network, you must configure an internal MaxCompute endpoint. Otherwise, traffic may be routed to the public network and you may be charged for downloads over the public network.

Connection methods and billing rules for data download

You can access MaxCompute and MaxCompute Tunnel through the following connection methods:

- Public network
- Alibaba Cloud classic network

- Alibaba Cloud VPC

**Note:**

You only need to specify a network when you want to connect to a project. You do not need to specify a network when you create a project.

Data uploads

Uploading data through MaxCompute Tunnel is free of charge regardless of which connection method is used, as shown in the preceding figure.

Data downloads

The billing rules for downloading data through MaxCompute Tunnel depend on whether the source and destination are in the same region:

- If the source and destination are in the same region, downloading data through MaxCompute Tunnel is free of charge over both the classic network and VPC.
- If the source and destination are not in the same region or do not meet the requirements for the same region access, downloading data through MaxCompute Tunnel over the public network is billed.

**Note:**

Because the MaxCompute Tunnel deployment and network connection status in every region are different, we cannot guarantee permanent connectivity for MaxCompute Tunnel if you select the Alibaba Cloud classic network or VPC.

Connectivity configurations for accessing external tables

MaxCompute 2.0 supports reading and writing OSS data and Table Store data.

For more information, see [Access OSS unstructured data](#) and [Access Table Store unstructured data](#).

Connectivity configurations are as follows:

- If MaxCompute is in the same region as Table Store or OSS, we recommend that you select the Alibaba Cloud classic network or VPC connection method. The public network can also be selected.
- If MaxCompute is not in the same region as Table Store or OSS, we recommend that you select the public network connection method. We cannot guarantee permanent connectivity for MaxCompute Tunnel if MaxCompute is in the same

region as Table Store or OSS and you select the Alibaba Cloud classic network or VPC.

- However, you can use a physical connection to access a VPC to guarantee MaxCompute Tunnel connectivity. For more information, see [Access cloud services in VPC through physical connections](#).

Regions where MaxCompute is available and corresponding endpoints

MaxCompute is available in regions both inside and outside Mainland China. You can apply for data storage and computing in these regions.



Note:

Both HTTP and HTTPS are supported in public endpoints (aliyun). If you need to encrypt your requests, use HTTPS.

- Regions and endpoints for the public network connection method

Region name	City	MaxCompute available or not	Public endpoint	Public Tunnel endpoint
China (Hangzhou)	Hangzhou	Available	http://service.cn-hangzhou.maxcompute.aliyun.com/api	http://dt.cn-hangzhou.maxcompute.aliyun.com
China (Shanghai)	Shanghai	Available	http://service.cn-shanghai.maxcompute.aliyun.com/api	http://dt.cn-shanghai.maxcompute.aliyun.com
China (Beijing)	Beijing	Available	http://service.cn-beijing.maxcompute.aliyun.com/api	http://dt.cn-beijing.maxcompute.aliyun.com
China (Shenzhen)	Shenzhen	Available	http://service.cn-shenzhen.maxcompute.aliyun.com/api	http://dt.cn-shenzhen.maxcompute.aliyun.com
China (Hong Kong)	Hong Kong	Available	http://service.cn-hongkong.maxcompute.aliyun.com/api	http://dt.cn-hongkong.maxcompute.aliyun.com

Region name	City	MaxCompute available or not	Public endpoint	Public Tunnel endpoint
Singapore	Singapore	Available	http://service.ap-southeast-1.maxcompute.aliyun.com/api	http://dt.ap-southeast-1.maxcompute.aliyun.com
Australia (Sydney)	Sydney	Available	http://service.ap-southeast-2.maxcompute.aliyun.com/api	http://dt.ap-southeast-2.maxcompute.aliyun.com
Malaysia (Kuala Lumpur)	Kuala Lumpur	Available	http://service.ap-southeast-3.maxcompute.aliyun.com/api	http://dt.ap-southeast-3.maxcompute.aliyun.com
Indonesia (Jakarta)	Jakarta	Available	http://service.ap-southeast-5.maxcompute.aliyun.com/api	http://dt.ap-southeast-5.maxcompute.aliyun.com
Japan (Tokyo)	Tokyo	Available	http://service.ap-northeast-1.maxcompute.aliyun.com/api	http://dt.ap-northeast-1.maxcompute.aliyun.com
Germany (Frankfurt)	Frankfurt	Available	http://service.eu-central-1.maxcompute.aliyun.com/api	http://dt.eu-central-1.maxcompute.aliyun.com
US (Silicon Valley)	Silicon Valley	Available	http://service.us-west-1.maxcompute.aliyun.com/api	http://dt.us-west-1.maxcompute.aliyun.com
US (Virginia)	Virginia	Available	http://service.us-east-1.maxcompute.aliyun.com/api	http://dt.us-east-1.maxcompute.aliyun.com
India (Mumbai)	Mumbai	Available	http://service.ap-south-1.maxcompute.aliyun.com/api	http://dt.ap-south-1.maxcompute.aliyun.com
UAE (Dubai)	Dubai	Available	http://service.me-east-1.maxcompute.aliyun.com/api	http://dt.me-east-1.maxcompute.aliyun.com

Region name	City	MaxCompute available or not	Public endpoint	Public Tunnel endpoint
UK (London)	London	Available	http://service.eu-west-1.maxcompute.aliyun.com/api	http://dt.eu-west-1.maxcompute.aliyun.com

- Regions and endpoints for the classic network connection method

Region name	City	MaxCompute available or not	Classic endpoint	Classic Tunnel endpoint
China (Hangzhou)	Hangzhou	Available	http://service.cn-hangzhou.maxcompute.aliyun-inc.com/api	http://dt.cn-hangzhou.maxcompute.aliyun-inc.com
China (Shanghai)	Shanghai	Available	http://service.cn-shanghai.maxcompute.aliyun-inc.com/api	http://dt.cn-shanghai.maxcompute.aliyun-inc.com
China (Beijing)	Beijing	Available	http://service.cn-beijing.maxcompute.aliyun-inc.com/api	http://dt.cn-beijing.maxcompute.aliyun-inc.com
China (Shenzhen)	Shenzhen	Available	http://service.cn-shenzhen.maxcompute.aliyun-inc.com/api	http://dt.cn-shenzhen.maxcompute.aliyun-inc.com
China (Hong Kong)	Hong Kong	Available	http://service.cn-hongkong.maxcompute.aliyun-inc.com/api	http://dt.cn-hongkong.maxcompute.aliyun-inc.com
Singapore	Singapore	Available	http://service.ap-southeast-1.maxcompute.aliyun-inc.com/api	http://dt.ap-southeast-1.maxcompute.aliyun-inc.com
Australia (Sydney)	Sydney	Available	http://service.ap-southeast-2.maxcompute.aliyun-inc.com/api	http://dt.ap-southeast-2.maxcompute.aliyun-inc.com

Region name	City	MaxCompute available or not	Classic endpoint	Classic Tunnel endpoint
Malaysia (Kuala Lumpur)	Kuala Lumpur	Available	http://service.ap-southeast-3.maxcompute.aliyun-inc.com/api	http://dt.ap-southeast-3.maxcompute.aliyun-inc.com
Indonesia (Jakarta)	Jakarta	Available	http://service.ap-southeast-5.maxcompute.aliyun-inc.com/api	http://dt.ap-southeast-5.maxcompute.aliyun-inc.com
Japan (Tokyo)	Tokyo	Available	http://service.ap-northeast-1.maxcompute.aliyun-inc.com/api	http://dt.ap-northeast-1.maxcompute.aliyun-inc.com
Germany (Frankfurt)	Frankfurt	Available	http://service.eu-central-1.maxcompute.aliyun-inc.com/api	http://dt.eu-central-1.maxcompute.aliyun-inc.com
US (Silicon Valley)	Silicon Valley	Available	http://service.us-west-1.maxcompute.aliyun-inc.com/api	http://dt.us-west-1.maxcompute.aliyun-inc.com
US (Virginia)	Virginia	Available	http://service.us-east-1.maxcompute.aliyun-inc.com/api	http://dt.us-east-1.maxcompute.aliyun-inc.com
India (Mumbai)	Mumbai	Available	http://service.ap-south-1.maxcompute.aliyun-inc.com/api	http://dt.ap-south-1.maxcompute.aliyun-inc.com
UAE (Dubai)	Dubai	Available	http://service.me-east-1.maxcompute.aliyun-inc.com/api	http://dt.me-east-1.maxcompute.aliyun-inc.com
UK (London)	London	Available	http://service.uk-all.maxcompute.aliyun-inc.com/api	http://dt.uk-all.maxcompute.aliyun-inc.com

· Regions and endpoints for the VPC connection method

You can only use the following endpoints and Tunnel endpoints when you select the VPC connection method.

Region name	City	MaxCompute available or not	VPC endpoint	VPC Tunnel endpoint
China (Hangzhou)	Hangzhou	Available	http://service.cn-hangzhou.maxcompute.aliyun-inc.com/api	http://dt.cn-hangzhou.maxcompute.aliyun-inc.com
China (Shanghai)	Shanghai	Available	http://service.cn-shanghai.maxcompute.aliyun-inc.com/api	http://dt.cn-shanghai.maxcompute.aliyun-inc.com
China (Beijing)	Beijing	Available	http://service.cn-beijing.maxcompute.aliyun-inc.com/api	http://dt.cn-beijing.maxcompute.aliyun-inc.com
China (Shenzhen)	Shenzhen	Available	http://service.cn-shenzhen.maxcompute.aliyun-inc.com/api	http://dt.cn-shenzhen.maxcompute.aliyun-inc.com
China (Hong Kong)	Hong Kong	Available	http://service.cn-hongkong.maxcompute.aliyun-inc.com/api	http://dt.cn-hongkong.maxcompute.aliyun-inc.com
Singapore	Singapore	Available	http://service.ap-southeast-1.maxcompute.aliyun-inc.com/api	http://dt.ap-southeast-1.maxcompute.aliyun-inc.com
Australia (Sydney)	Sydney	Available	http://service.ap-southeast-2.maxcompute.aliyun-inc.com/api	http://dt.ap-southeast-2.maxcompute.aliyun-inc.com
Malaysia (Kuala Lumpur)	Kuala Lumpur	Available	http://service.ap-southeast-3.maxcompute.aliyun-inc.com/api	http://dt.ap-southeast-3.maxcompute.aliyun-inc.com

Region name	City	MaxCompute available or not	VPC endpoint	VPC Tunnel endpoint
Indonesia (Jakarta)	Jakarta	Available	http://service.ap-southeast-5.maxcompute.aliyun-inc.com/api	http://dt.ap-southeast-5.maxcompute.aliyun-inc.com
Japan (Tokyo)	Tokyo	Available	http://service.ap-northeast-1.maxcompute.aliyun-inc.com/api	http://dt.ap-northeast-1.maxcompute.aliyun-inc.com
Germany (Frankfurt)	Frankfurt	Available	http://service.eu-central-1.maxcompute.aliyun-inc.com/api	http://dt.eu-central-1.maxcompute.aliyun-inc.com
US (Silicon Valley)	Silicon Valley	Available	http://service.us-west-1.maxcompute.aliyun-inc.com/api	http://dt.us-west-1.maxcompute.aliyun-inc.com
US (Virginia)	Virginia	Available	http://service.us-east-1.maxcompute.aliyun-inc.com/api	http://dt.us-east-1.maxcompute.aliyun-inc.com
India (Mumbai)	Mumbai	Available	http://service.ap-south-1.maxcompute.aliyun-inc.com/api	http://dt.ap-south-1.maxcompute.aliyun-inc.com
UAE (Dubai)	Dubai	Available	http://service.me-east-1.maxcompute.aliyun-inc.com/api	http://dt.me-east-1.maxcompute.aliyun-inc.com
UK (London)	London	Available	http://service.uk-all.maxcompute.aliyun-inc.com/api	http://dt.uk-all.maxcompute.aliyun-inc.com

**Note:**

Scenarios that require you to configure the MaxCompute endpoint and Tunnel endpoint:

- MaxCompute client (console) configurations. For more information, see [#unique_32](#).

- MaxCompute Studio project connection configurations. For more information, see [#unique_33](#).
- MaxCompute SDK connection configurations. For more information, see MaxCompute connection configurations in [#unique_34](#) and [#unique_35](#).
- Configurations for connecting to MaxCompute data sources from the DataWorks data integration script method or the DataX open-source tool. For more information, see [Configure a MaxCompute data source](#) and [#unique_36](#).

Access rules

- In the regions where MaxCompute has been available, you can connect to MaxCompute over the public network, classic network, or VPC.
- When you use the Tunnel endpoint to download data over the public network, the price is USD 0.1166/GB.