

Table Store

Quick Start

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Restricted items

Restricted item	Restriction	Description
The number of instances saved under an Alibaba Cloud user account	Up to 10	If you need to raise the limit, please open a ticket.
The number of tables in an instance	Up to 64	If you need to raise the limit, please open a ticket.
Instance name length	3-16 Bytes	Character set: [a-z, A-Z, 0-9] and hyphens(-). The first character must be a letter and the last character cannot be a hyphen(-).
Table name length	1-255 Bytes	Character set: [a-z, A-Z, 0-9] and underscore (_). The first character must be a letter or underscore(_).
Column name length	1-255 Bytes	Character set: [a-z, A-Z, 0-9] and underscore (_). The first character must be a letter or underscore(_).
Number of columns in a Primary Key	1-4	At least 1 and no more than 4.
Size of String type Primary Key column values	Up to 1 KB	A single Primary Key column's String type column value is limited to 1 KB.
Size of String type attribute key column values	Up to 2 MB	A single attribute column's String type column value is limited to 2 MB.
Size of Binary type Primary Key column values	Up to 1 KB	A single Primary Key column's Binary type column value is limited to 1 KB.
Size of Binary type attribute key column values	Up to 2 MB	A single attribute column's Binary type column value is limited to 2 MB.
Number of attribute columns	Unlimited	A single row can contain the

in a single row		infinite attribute columns.
Data size of a single row	Unlimited	The total size of all column names and column value data for a single row is unlimited.
Reserved read/write throughput for a single table	0-5000	If you need to raise the limit, please open a ticket.
Number of columns in a read request' s columns_to_get parameter	0-128	The maximum number of columns obtained in a row of data in the read request.
Table-level operation QPS	10	The QPS of a table-level operation on an instance should not exceed 10. For table-level operations, see Table operations .
Number of UpdateTable operations for a single table	Raise: Unlimited; Lower: Unlimited	A calendar day is from 00:00:00 to 00:00:00 of the next day in UTC time, or 08:00:00 to 08:00:00 of the next day in Beijing time.
UpdateTable frequency for a single table	Once every 2 minutes	The reserved read/write throughput for a single table can be adjusted no more than once every 2 minutes.
The number of rows read by one BatchGetRow request	Up to 100	N/A
The number of rows written by one BatchWriteRow request	Up to 200	N/A
Data size of one BatchWriteRow request	Up to 4 MB	N/A
Data returned by one GetRange operation	5000 rows or 4 MB	The data returned by a single operation cannot exceed 5000 rows or 4 MB. If there is more data, the excessive data will be truncated.
The data size of an HTTP Request Body	Up to 5 MB	N/A

Purpose of the document

This document describes how to create an instance, create a table, and manage data, helping you know the procedures from creating an instance to writing/reading data.

Target reader

Users buying a Table Store instance for the first time.

Quick start flowchart



Sign up for Table Store

Prerequisites

Before using Table Store, make sure that you have registered an Alibaba Cloud account. If you do not have one, the system will prompt you to register an account when you sign up for Table Store.

Read the [Table Store pricing page](#) carefully.

Operation procedure

Log on to the Alibaba Cloud official website.

On the Table Store product detail page, click **Purchase Now**.

Once Table Store is activated, click **Console** to access the Table Store console. You can also select **My Account** > **Console** from the homepage, and then click **Table Store** from the main console.

Log on to the Table Store console.

Select a region.

Note: When you select a region, the instance specifications supported in this region are shown on the page.

Click **Create Instance** in the top-right corner.

Fill in the required information and select the instance specification.

Notice:

- Up to 10 instances can be created under a single Alibaba Cloud account. The instance name must be globally unique.
- The instance specification cannot be modified after the instance is created. On how to select the instance specification, refer to **Instance**.

Click **OK** and wait for several seconds. If the newly created instance does not appear in the instance list, click **Refresh** to refresh the **Instance List** page.

Log on to the Table Store console.

Locate the target instance and click its name or **Manage** in the Action column to go to the **Instance Details** page.

Click **Create Table**.

Notice: Up to 64 tables can be created in an instance.

Fill in the required information.

The table name must be unique in an instance.

If the table is created in a high-performance instance, you must specify the reserved read throughput and write throughput. The reserved throughput can be set to 0 CU. Configuring the reserved read/write throughput does not affect the table's read/write performance and service capability.

Notice: If the reserved throughput is not set to 0 CU, billing based on the reserved throughput starts immediately after the table is created.

For details on the table attributes, refer to [Glossary](#).

Up to 4 Primary Keys can be set. The configuration and order of the Primary Keys cannot be changed.

Click **OK**.

The page returns to the **Instance Details** page automatically. The table displays in the list after created successfully. You can click **Refresh** to refresh the table list.

Virtual Private Cloud (VPC) is an isolated network environment built on Alibaba Cloud, allowing you to take full control of your virtual network. For example, you can select a private IP address range, divide network segment, and configure routing table and gateway. It also allows you to connect VPC to a traditional data center through the leased lines VPN to build a custom network environment, thereby achieving the smooth cloud migration.

Preparations

Create a VPC

When you create a VPC, select a suitable region and ensure that your VPC and the Table Store instance are located in the same region. For more information, refer to [Create a VPC](#).

Create an ECS instance in the VPC

After the VPC is successfully created, create an ECS instance in the VPC. For more information, refer to [Create an ECS instance](#).

Operation procedure

After you create a VPC and a VPC ECS instance, log on to the Table Store console to create an instance and bind the instance. The steps are as follows:

Log on to the **Table Store console**.

Select the region where the created VPC is located, and then click **Create Instance**.

Fill in the required information and click **OK**. The page returns to the **Instance List** page

automatically.

Locate the newly created instance and click its name or the **Manage** button in the Action column to go to the **Instance Details** page.

Click **Bind VPC** to go to the instance and VPC binding page.

Fill in required information and click **OK**.

When the instance and VPC are bound successfully, the page returns to the **Instance Details** page automatically. You can find the information of the bound VPC in the **VPC list**. You can also click the link in the VPC ID column to go to the VPC instance list page, where you can view the Table Store instance bound to the VPC and the VPC information list.

Then you can use the bound instance to access Table Store from the ECS instance in the VPC. Use the VPC access address as the endpoint for access.

To delete the binding relationship between the Table Store instance and VPC, locate the VPC and click **Unbind** in the VPC list.

After unbinding, the preceding address cannot be used to access Table Store from the ECS instance in the VPC. If you need to access Table Store again, rebind the Table Store instance to the VPC.

After creating a data table, you can call a RESTful API to execute data writes or reads through SDK toolkits in a mainstream language, or the command line interface and graphical interface.

The following table lists several methods of data operations.

Source	Description
API	The RESTful API operations supported by Table Store and related samples.
SDK	The SDK development and related parameters based on major languages.
Command line tool	The CLI toolkit supports the interactive mode and the direct command mode for one-click operations on Table Store.