

Alibaba Cloud

Virtual Private Cloud Common Configurations

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Document conventions









| Style | Description | Example |
|--|---|---|
|  Danger | A danger notice 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. |
|  Warning | A warning notice 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 restart an instance. |
|  Notice | A caution notice indicates warning information, supplementary instructions, and other content that the user must understand. |  Notice: If the weight is set to 0, the server no longer receives new requests. |
|  Note | A note indicates supplemental instructions, best practices, tips, and other content. |  Note: You can use Ctrl + A to select all files. |
| > | Closing angle brackets are used to indicate a multi-level menu cascade. | Click Settings > Network > Set network type . |
| Bold | Bold formatting is used for buttons, menus, page names, and other UI elements. | Click OK . |
| Courier font | Courier font is used for commands | Run the <code>cd /d C:/window</code> command to enter the Windows system folder. |
| <i>Italic</i> | Italic formatting is used for parameters and variables. | <code>bae log list --instanceid</code> <i>Instance_ID</i> |
| [] or [a b] | This format is used for an optional value, where only one item can be selected. | <code>ipconfig [-all -t]</code> |
| { } or {a b} | This format is used for a required value, where only one item can be selected. | <code>switch {active stand}</code> |

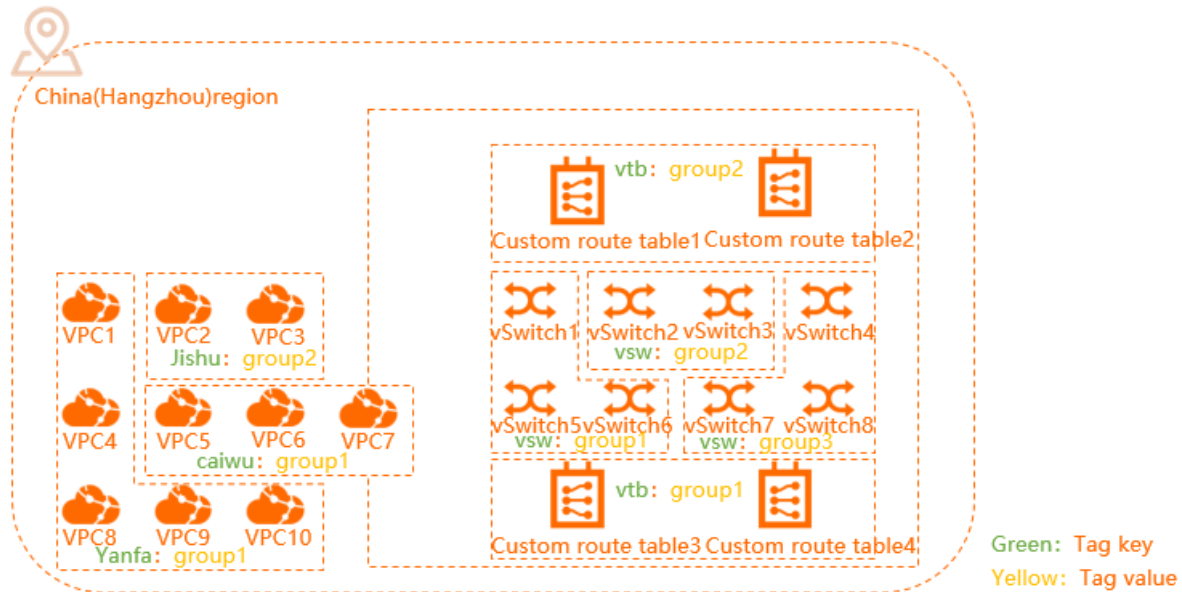
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1. Manage tags

Virtual Private Cloud (VPC) supports tags. You can use tags to label and classify VPCs, route tables, and vSwitches, which facilitates resource search and aggregation. This topic describes how to manage tags for VPCs. You can manage tags for vSwitches and route tables the same way you manage tags for VPCs.

Tag overview



As shown in the preceding figure, as the number of VPCs, route tables, or vSwitches increases, it becomes more difficult to manage these instances. You can use tags to group instances. This allows you to search and filter instances in a more efficient way.

Tags are used to classify instances. Each tag consists of a key and a value. To use tags, make sure that the following requirements are met:

- The keys of tags that are added to the same instance must be unique.
- You cannot create tags without adding them to instances. All tags must be added to instances.
- Tag information is not shared across regions.

For example, tags created in the China (Hangzhou) region are not displayed in the China (Shanghai) region.

- You can modify the key and value of a tag or remove a tag from an instance.
- If you delete an instance, all tags added to the instance are deleted. This operation does not affect the tags added to other instances.

Limits


You can add up to 20 tags to each instance. You cannot increase the quota.

Add tags to an instance

1. Log on to the [VPC console](#).
2. In the top navigation bar, select the region where the VPC is deployed.

3. On the **VPCs** page, perform the following operations to add tags to a VPC.

- Add tags to an instance

- Find the VPC that you want to manage, move the pointer over  in the **Tags** column, and then click **Edit** in the pop-up message.
- In the **Configure Tags** dialog box, specify the key and value and click **OK**.

| Parameter | Description |
|------------------|--|
| Tag Key | You can select or enter a tag key. The tag key must be 1 to 64 characters in length, and cannot start with <code>aliyun</code> or <code>acs:</code> . It cannot contain <code>http://</code> or <code>https://</code> . |
| Tag Value | You can select or enter a tag value. The tag value can be 1 to 128 characters in length, but cannot start with <code>aliyun</code> or <code>acs:</code> . It cannot contain <code>http://</code> or <code>https://</code> . |

- Add tags to multiple instances

- Select the instances to which you want to add tags and choose **Configure Tags > Add Tags** in the lower-left corner.
- In the **Configure Tags for Multiple Resources** dialog box, specify **Tag Key** and **Tag Value**, and click **OK**.

Search instances by tag


You can search instances by tag after you add tags to instances.



- Log on to the **VPC console**.
- In the top navigation bar, select the region where the VPC is deployed.
- On the **VPCs** page, click **Filter by Tag**.
- In the **Filter by Tag** dialog box, select or enter a tag key and a tag value, and click **Search**.

You can select or enter a key-value pair, or select or enter only a tag key.

Remove tags from an instance

If a tag is added to more than one instance and you remove the tag from an instance, the tag is not removed from other instances.

- Log on to the **VPC console**.
- In the top navigation bar, select the region where the VPC is deployed.
- On the **VPCs** page, perform the following operations to remove tags from a VPC.
 - Remove tags from an instance
 - Find the VPC from which you want to remove tags, move the pointer over  in the **Tags** column, and then click **Edit** in the pop-up message.

- b. In the **Configure Tags** dialog box, find the key-value pairs that you want to remove, click  on the right side, and then click **OK**.
 - o Remove tags from multiple instances
 - a. Find the instances from which you want to remove tags and choose **Configure Tags > Delete Tags** in the lower-left corner.
 - b. In the **Delete Tags for Multiple Resources** dialog box, find the key-value pairs that you want to remove, click  on the right side, and then click **OK**.

References


- **TagResources**: creates and adds tags to a specified resource.
- **UntagResources**: removes tags from specified resources.


2. Manage resource quotas

This topic describes how to query the quota usage of a cloud resource in the Virtual Private Cloud (VPC) console. If the quota of a cloud resource is insufficient, you can apply for a quota increase.

Procedure

1. Log on to the **VPC console**.
2. In the left-side navigation pane, choose **O&M and Monitoring > Quota Management**.
3. On the **Quota Management** page, click the **Virtual Private Cloud (VPC)** tab to view the quota usage of VPC resources within the current Alibaba Cloud account.

 **Note** The statistics of the quota usage are updated on an hourly basis. Therefore, the statistics displayed on the Quota Management page may not be up to date. The quota usage displayed on the instance page prevails.

| Quota Name | Description | Type | Used quota/Total quota  | Actions |
|------------------------------|--|-------|--|------------------------------------|
| vpc_quota_nacl_egress_entry | egress entries per nacl | Quota | 20 | Submit Application |
| vpc_quota_nacl_ingress_entry | ingress entries per nacl | Quota | 20 | Submit Application |
| vpc_quota_route_tables_num | The maximum number of customized route tables for each VPC-connected instance. | Quota | 9 | Submit Application |
| vpc_quota_route_entries_num | The maximum number of customized route entries for each route table. | Quota | 48 | Submit Application |
| vpc_quota_vswitches_num | The maximum number of VSwitches for each VPC-connected instance. | Quota | 24 | Submit Application |

4. To increase the quota, click **Submit Application** in the **Actions** column. In the dialog box that appears, set the following parameters and click **OK**:
 - **Requested Value**: Specify the requested value. You must enter a number that is greater than the current quota. For more information about default limits on VPC resources, see **Limits and quotas**.
 - **Reason**: Enter the detailed reason for the application, including the scenarios and necessity.
 - **Mobile/Landline Phone Number**: Enter the mobile or landline phone number of the applicant.
 - **Email**: Enter the email address of the applicant.

Result

After you submit the application, you can click **History** in the **Actions** column to view the application status.

The system automatically reviews your application.

- If the requested value exceeds the upper limit, the system automatically rejects the application and the application status changes to **Rejected**.


If your application is rejected, reduce the requested value and submit the application again.

- If the requested value falls within the expected range, the system automatically approves the application and the application status changes to **Approved**. The new quota immediately takes effect.

3. Fuzzy match

You can use fuzzy match to search for virtual private clouds (VPCs), route tables, and vSwitches. This topic describes how to use fuzzy match to search for VPCs. You can follow the same procedure to search for route tables and vSwitches.

Procedure

1. Log on to the [VPC console](#).
- 2.
3. On the **VPCs** page, select **Fuzzy Match** from the drop-down list.
You can also select **Instance Name** or **Instance ID** from the drop-down list to perform an exact match.
4. In the field next to **Fuzzy Match**, enter a keyword and click .
 - Fuzzy match: Enter an instance ID or keyword in the instance name to search for matching results.
 - Exact match: Enter the complete name or ID of an instance to search for the exact instance.