

Alibaba Cloud

Cloud Firewall Business Visualization

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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. View security groups

After you create security groups for an Elastic Compute Service (ECS) instance, you can view the numbers of security groups, vSwitches, and ECS instances that are created in a specific region on the **Security Groups** page in the Cloud Firewall console.

Prerequisites


Cloud Firewall Enterprise Edition or Ultimate Edition is purchased.

Context

On the **Security Groups** page, you can click a region to go to the page that visualizes the security groups in the region. You can view the distribution of the security groups in the region. You can also click the name of a security group to view the following information about the security group: ECS, Dependent Security Group, Independent Security Group, and First Visit.


Procedure

- 1.
- 2.
3. On the **Security Groups** page, click the virtual private cloud (VPC) whose resources you want to view.

 **Note** The value of New ECS Instances indicates the number of ECS instances that are purchased in the last seven days.

4. On the page that appears, view the access information about security groups and the dependencies for a specified security group.
 - o Move the pointer over **Settings** in the left area of the page and specify the importance levels of security groups that you want to display.

The right-side section of the page displays the statistics of **Security Group**, **ECS**, and **First Visit**, and the list of security groups that are created in the VPC.

- o Click the  icon of a security group in the list of security groups. In the dialog box that appears, the business relations of the security group are displayed. You can view the nodes and business relationships of the security group.

2. Custom groups

Cloud Firewall visualizes the traffic between different types of business to help you learn the access relationships between types of business. This way, you can determine the access control policies to apply.

Prerequisites

Before you can visualize traffic, you must create business groups and application groups and add applications to these groups.


Context

Take note of the following concepts:

- **Business group:** In east-west traffic visualization, a business group is a set of application groups for a specific type of business. For example, a web portal business group can contain a web application group and a database application group.
- **Application group:** In east-west traffic visualization, an application group is a set of applications that provide the same service or similar services. For example, all Elastic Compute Service (ECS) instances that are deployed with MySQL can be added to the same database application group.
- **Application:** The smallest unit in east-west traffic visualization. By default, an application is a set of all open ports on an ECS instance. You can create an application by cloning a specified application through a specified port.

Step 1: Create a business group

1. Log on to the [Cloud Firewall console](#).
2. In the left-side navigation pane, choose **Business Visualization > Custom Groups**.
3. On the **Custom Groups** page, click the **Business Groups** tab.
4. In the upper-left corner of the **Business Groups** tab, select a virtual private cloud (VPC) in which you want to create a business group.


 **Notice** You can select an existing VPC or a classic network-type instance. You can specify only one VPC for each business group.

5. In the upper-right corner, click **Create Business Group**.
6. In the **Create Business Group** dialog box, configure the parameters.
 - **Name:** Enter the name of the business group. The name must be 1 to 40 characters in length.
 - **Description:** Enter the description of the business group.
 - **Importance Degree:** Specify the importance degree of the business group. This helps you distinguish business groups of different importance degrees in the business relations graph. Valid values: *Moderate*, *Important*, and *Critical*.

On the **Application Groups** page, you can filter business groups by importance degree.

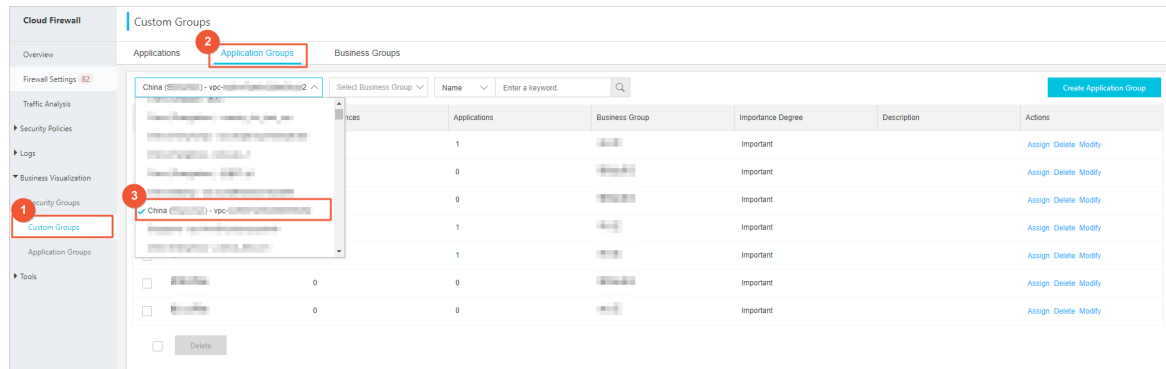
7. Click **OK**.

The new business group belongs to the VPC that you select. In the business group list, you can click **Modify** or **Delete** to manage the business group.

 **Note** You cannot delete a business group that contains application groups.

Step 2: Create an application group


1. Log on to the [Cloud Firewall console](#).
2. In the left-side navigation pane, choose **Business Visualization > Custom Groups**.
3. On the **Custom Groups** page, click the **Application Groups** tab.
4. On the **Application Groups** tab, select a VPC in which you want to create an application group.



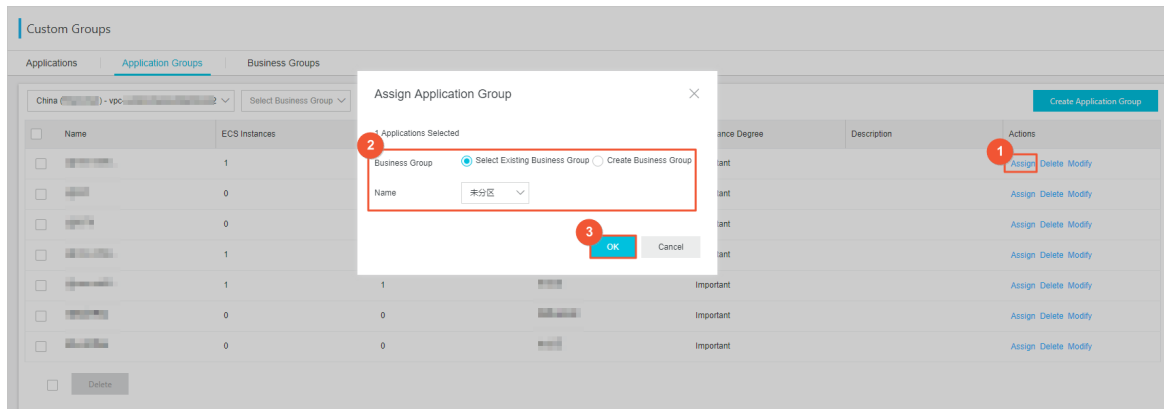
5. Click **Create Application Group**.
6. In the **Create Application Group** dialog box, configure the parameters.
 - o **Name**: Enter the name for the application group. The name must be 1 to 40 characters in length.
 - o **Description**: Enter the description of the application group.
 - o **Importance Degree**: Specify the importance degree of the application group. This helps you distinguish application groups of different importance degrees in the business relations graph. Valid values: *Moderate*, *Important*, and *Critical*.

On the **Application Groups** page, you can click a business group, and filter application groups by importance degree.

 - o **Business Group**: You can select *Select Existing Business Group* or *Create Business Group*.
 - If you select *Select Existing Business Group*, you must select an existing business group in the **Name** drop-down list that appears below Business Group.

 **Notice** The new application group is automatically added to the VPC to which the specified business group belongs.

- If you select *Create Business Group*, you must configure the **Name**, **Description**, and **Importance Degree** parameters that appear below Business Group.
7. Click **OK**.
 8. Optional. Click **Assign** in the **Actions** column to change the business group to which the new application group belongs.



After you complete this operation, the value of **Application Groups** on the **Business Groups** tab changes.

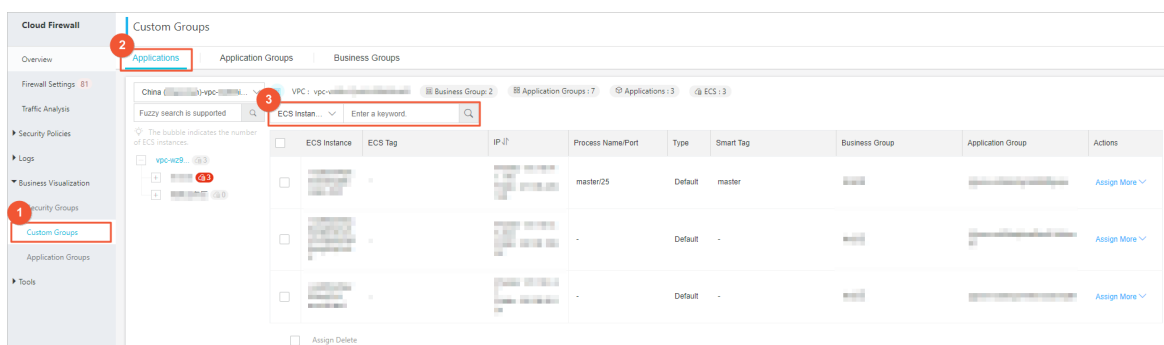
After you create an application group, you can also click **Modify** or **Delete** to manage the application group.

Note You cannot delete an application group that contains applications.

Step 3: Specify an application group and a business group for an application

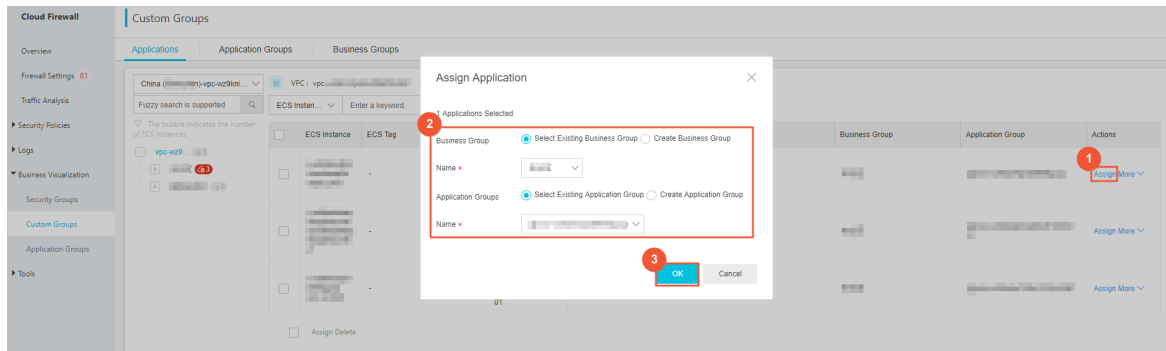
On the **Applications** tab, you can view the numbers of business groups, application groups, applications, and ECS instances in Cloud Firewall.

1. Log on to the [Cloud Firewall console](#).
2. In the left-side navigation pane, choose **Business Visualization > Custom Groups**.
3. On the **Custom Groups** page, click the **Applications** tab.
4. Search for an application.



5. Click **Assign** in the **Actions** column, and add the application to a business group and an application group that you create.

Note After you complete this operation, the value of **Business groups** and **Application groups** on the **Business Groups** tab changes.



6. Optional. Choose **More > Clone** in the **Actions** column to create a clone of the application.

After you activate Cloud Firewall, a default application is created for each ECS instance. The traffic bound to an ECS instance is automatically mapped to the default application. If the applications of an ECS instance are associated with different types of business, you can choose **More > Clone** to clone an application and click **assign** to specify a new business group and application group for the application. When you clone an application, you can modify the values of the **ECS Instance ID**, **Port**, and **Process Name** parameters.

What to do next

Visualize application groups

3. Visualize application groups

After business groups and application groups are created, you can view the numbers of business groups, application groups, applications, vSwitches, and ECS instances of each region on the Application Groups page under Business Visualization.

Context

On the **Application Groups** page, you can click a Cloud Firewall region to go to the application group visualization page of the region. You can view all the business groups in the region. You can also click a business group name to view the details of the business group, including the application groups, applications, dependent business groups, independent business groups, and first visit traffic.

Procedure

- 1.
- 2.
3. On the **Application Groups** page, click the VPC that you want to view.
4. On the application group visualization page of the VPC, view the information about each business group, including the visits, dependent business groups, and independent business groups.
 - Click **Settings** in the left part of the application group visualization page, and select the importance level of business groups that you want to display.

 **Note** You can distinguish application groups from business groups on the application group visualization page. A circle with the word **Application** in it represents an application group. A circle with the words **Business Group** in it represents a business group. The larger a circle is, the more important the business or application group is.

The right part of the application group visualization page displays the statistics of the VPC, including the business groups, application groups, applications, first visit traffic.

- Click **View Details** in the right part of the application group visualization page. The business relationship page appears. You can view the nodes and business relationships of the business group.