

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. Create application groups and business groups

Cloud Firewall visualizes the traffic between businesses to help you learn about the access relationships between businesses and choose access control policies to be applied.

Prerequisites

To visualize the traffic, you must create business groups and application groups and add applications to these groups.

Context

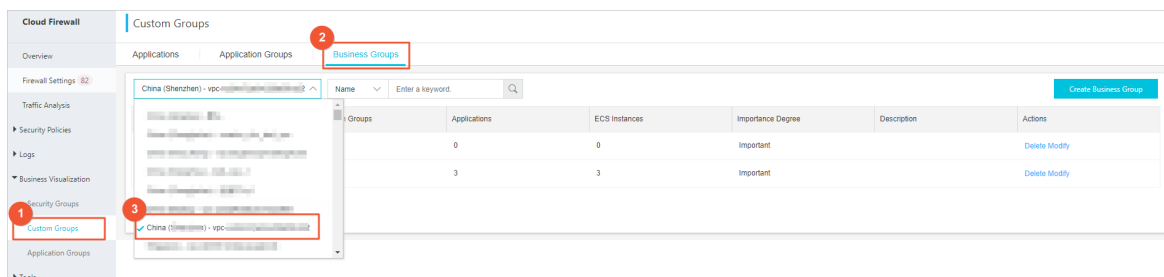
Make sure that you understand the following basic concepts:

- **Business group:** In east-west traffic visualization, a business group is a set of application groups that provide the same service or similar services. For example, a Web portal business group contains Web application groups and database application groups.
- **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 ECS instances deployed with MySQL can be added to one database application group.
- **Application:** The smallest unit in east-west traffic visualization. An application is a set of all open ports on an ECS instance by default. You can create a new application by cloning the default application through a specified port.

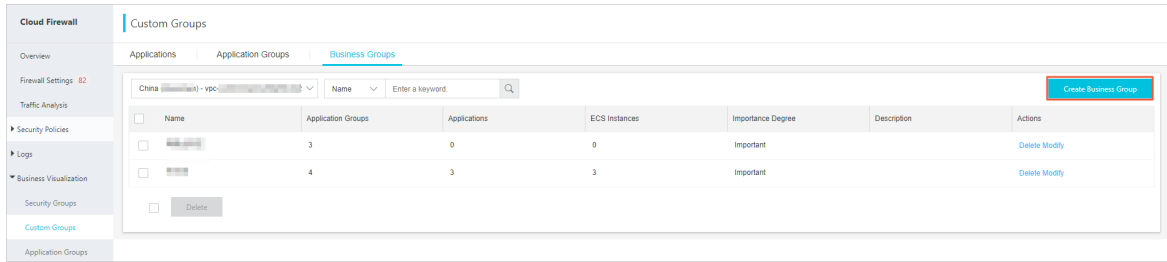
Step 1: Create a business group

1. Log on to the [Cloud Firewall console](#).
2. In the left-side navigation pane, choose **Business Visualization > Custom Groups > Business Groups**.
3. In the upper-left corner of the **Business Groups** tab page, select a VPC network for the business group to be created.

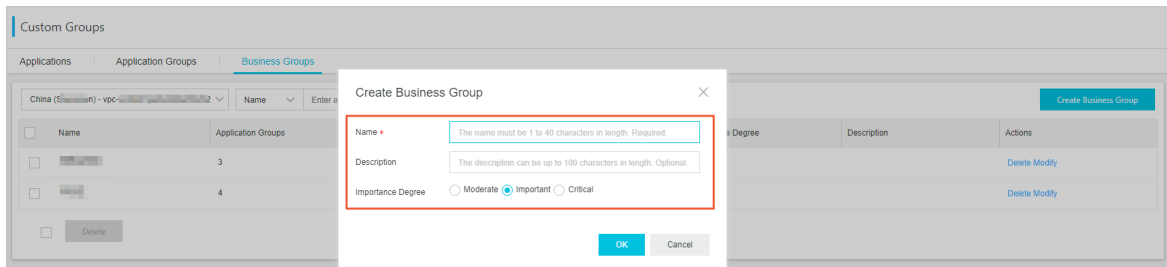
Note You can select from existing VPC networks and Classic networks. You must specify only one VPC network for each business group.



4. In the upper-right corner, click **Create Business Group**.

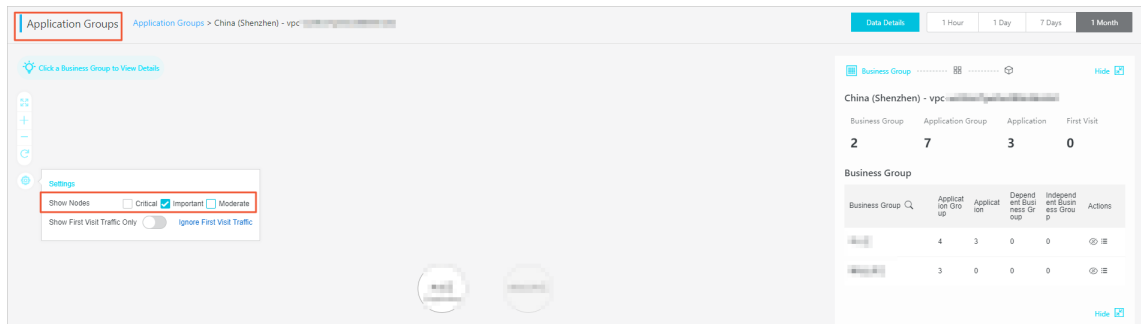


5. In the Create Business Group dialog box, configure the business group information.



- **Name:** Enter the business group name. The name must be from 1 to 40 characters in length.
- **Description:** Enter the business group description.
- **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. The importance degrees include *moderate*, *important*, and *critical*.

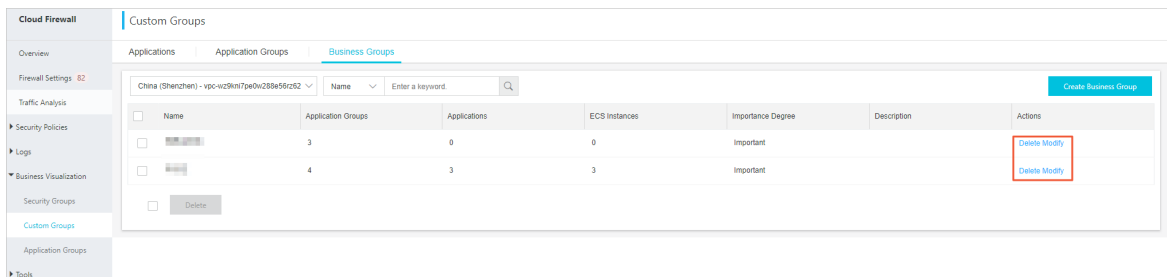
On the Application Groups page, you can view business groups of specified importance degrees.



6. Click OK.

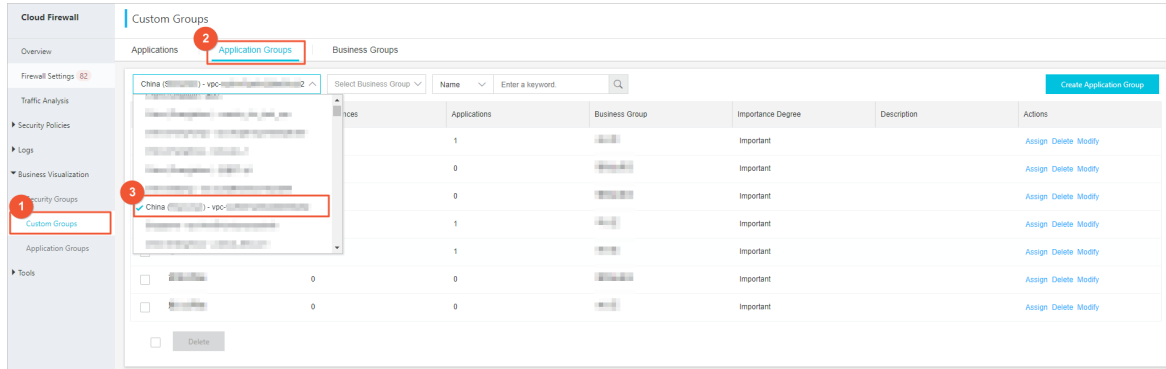
The new business group belongs to the VPC network that you selected. In the business group list, you can modify or delete business groups.

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

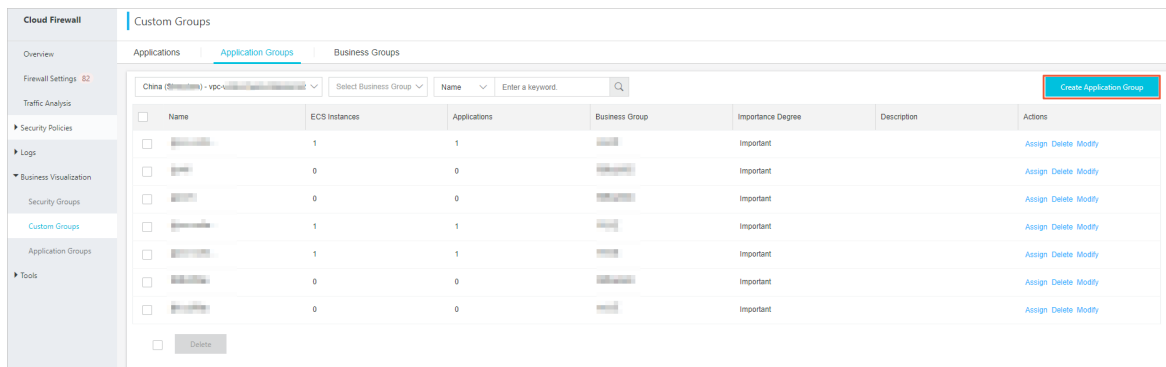


Step 2: Create an application group

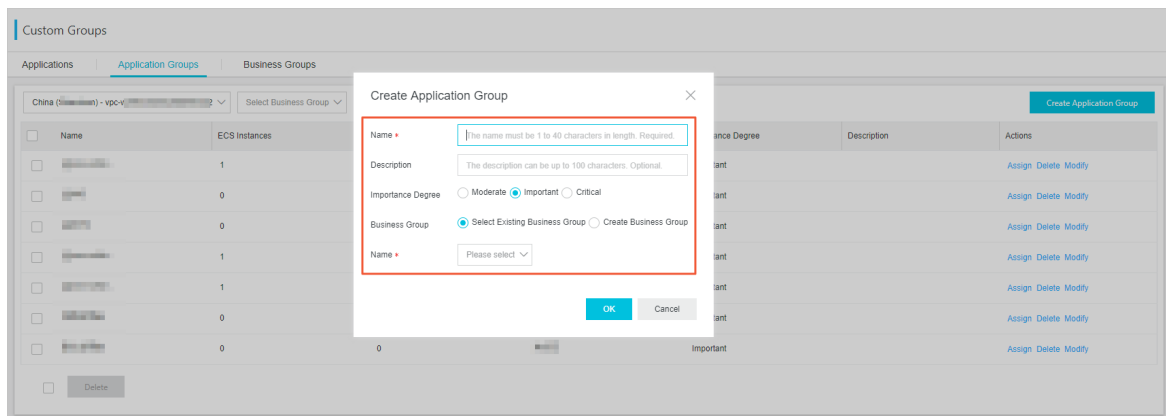
1. Log on to the **Cloud Firewall console**.
2. In the left-side navigation pane, choose **Business Visualization > Custom Groups > Application Groups**.
3. In the upper-left corner of the **Application Groups** tab page, select a VPC network for the application group to be created.



4. In the upper-right corner, click **Create Application Group**.

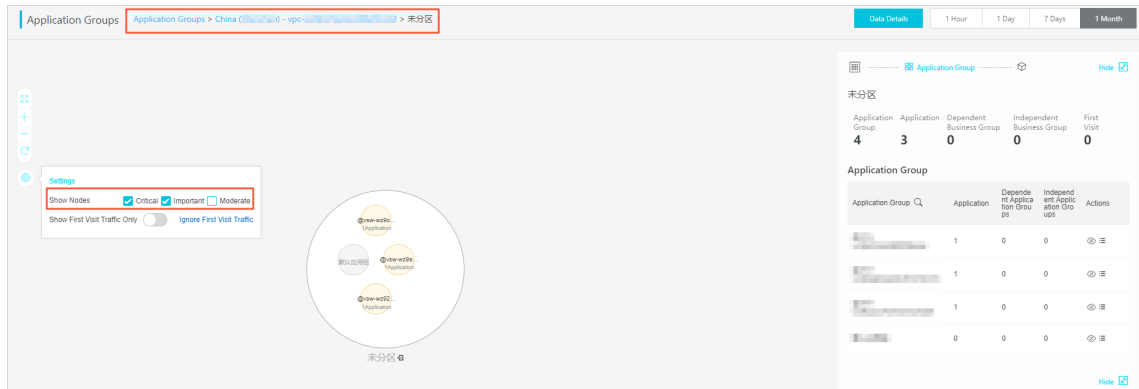


5. In the **Create Application Group** dialog box, configure the application group information.



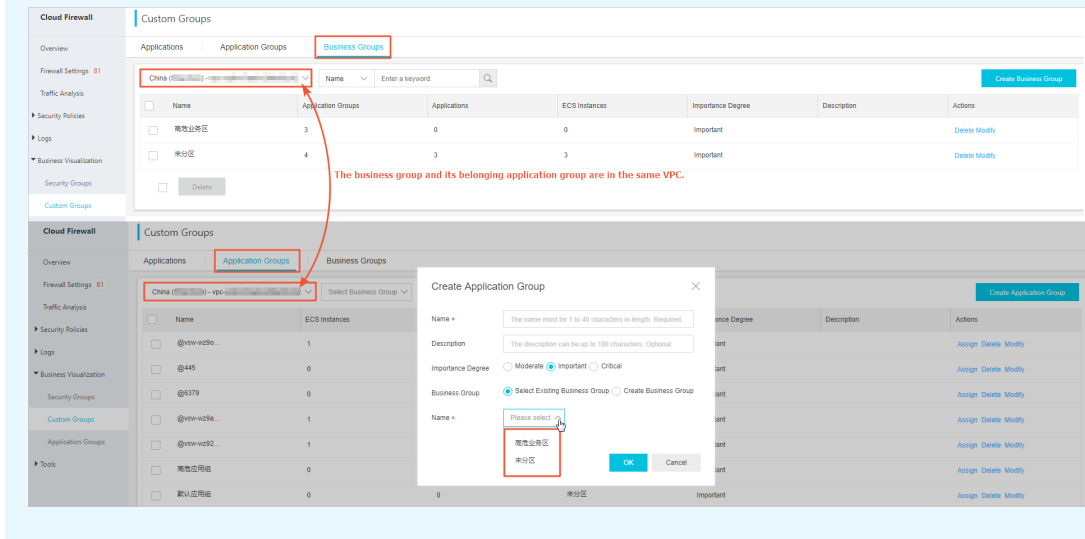
- o **Name:** Enter the application group name. The name must be from 1 to 40 characters in length.
- o **Description:** Enter the application group description.
- o **Importance Degree:** Specify the importance degree of the application group. This helps you distinguish application groups of different importance degrees in the business relations graph. The importance degrees include *moderate*, *important*, and *critical*.

On the Application Groups page, you can click a business group, and view applications groups of specified importance degrees.



- **Business Group:** You can *Select Existing Business Group* or *Create Business Group*.
 - If you choose to *Select Existing Business Group*, select a business group in the Name drop-down list.

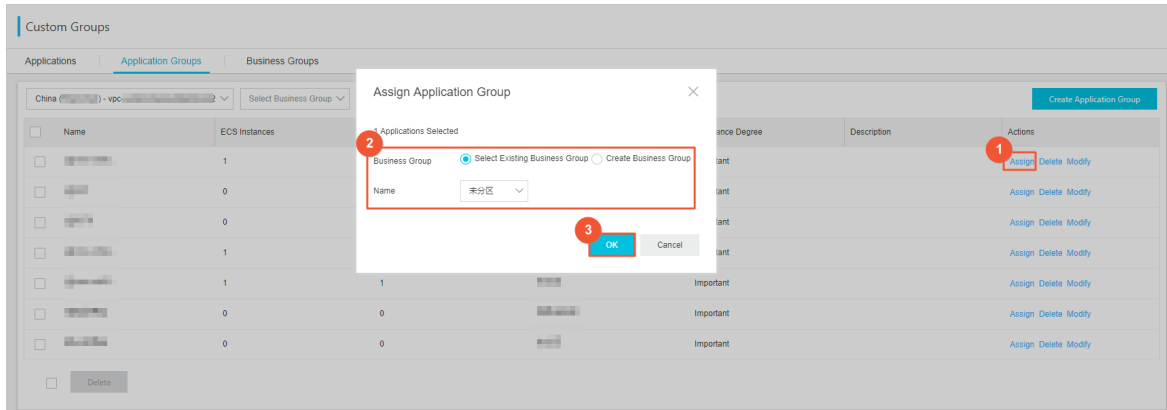
Note The new application group is automatically added to the VPC network that the specified business group belongs to.



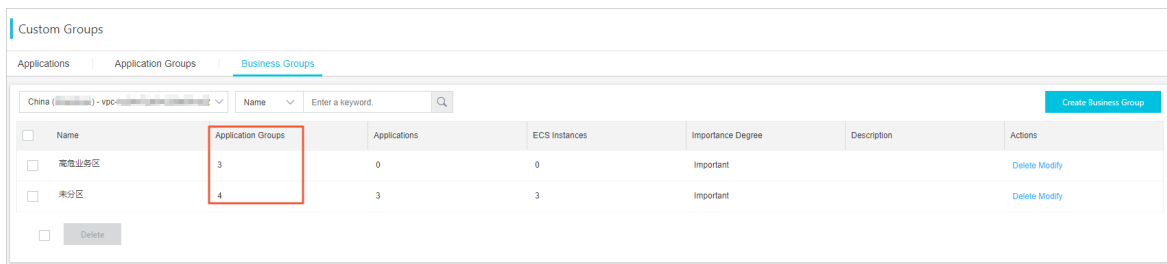
- If you choose to *create a business group*, specify the name, description, and importance degree of the new business group.

6. Click OK.

7. (Optional) You can click Assign in the Actions column to change the business group that an application group belongs to.



After this operation, the data in the **Application Groups** column on the **Business Groups** tab page is changed.

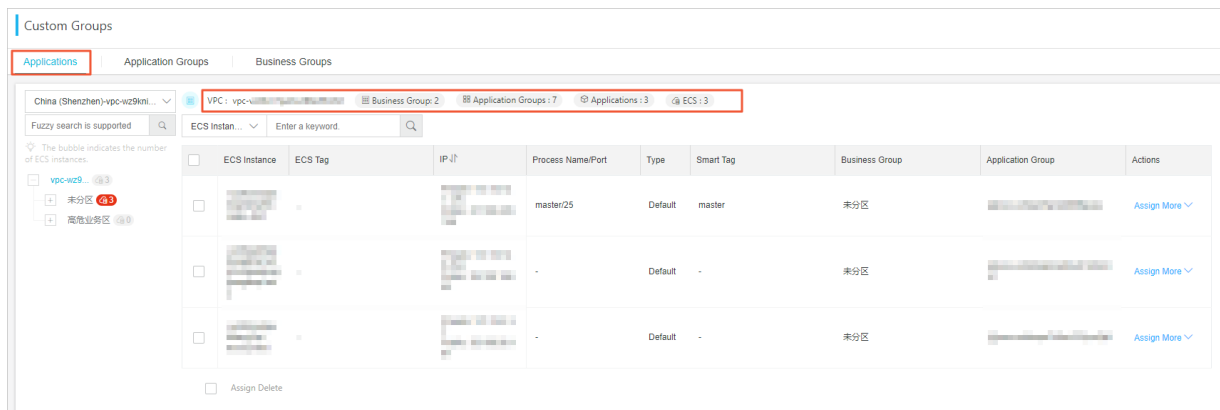


You can also modify or delete the application groups.

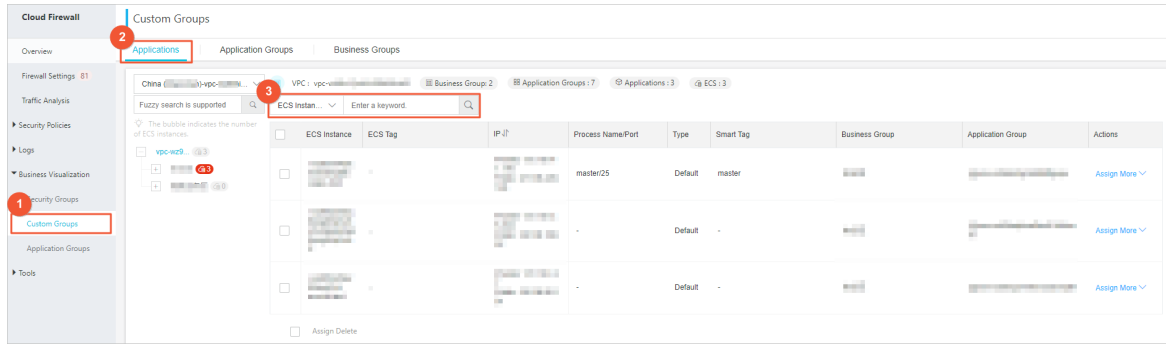
Note You cannot delete an application group that contains applications.

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

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

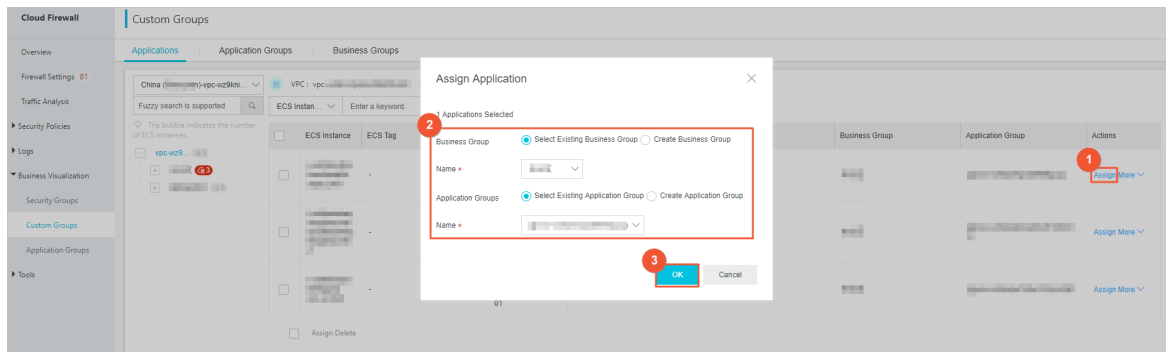


1. Log on to the **Cloud Firewall console**.
2. In the left-side navigation pane, choose **Business Visualization > Custom Groups > Applications**.
3. Search for a specific application.



- 4. Click Assign in the Actions column. In the dialog box that appears, select the business group and application group that you created.

Note After this operation, the numbers of business groups and application groups on the Business Groups tab page are changed.



- 5. (Optional) You can also click Clone in the Actions column to create a new application based on the specified application.

After you activate Cloud Firewall, a default application is created for each ECS instance. The traffic bound to an ECS instance is automatically associated with the default application. If the applications on an ECS instance are associated with different businesses, you can use the clone operations to create a new application and assign another business group and another application group. When you clone an application, you can modify the ECS instance ID, listening port, and process name.

Subsequent operations

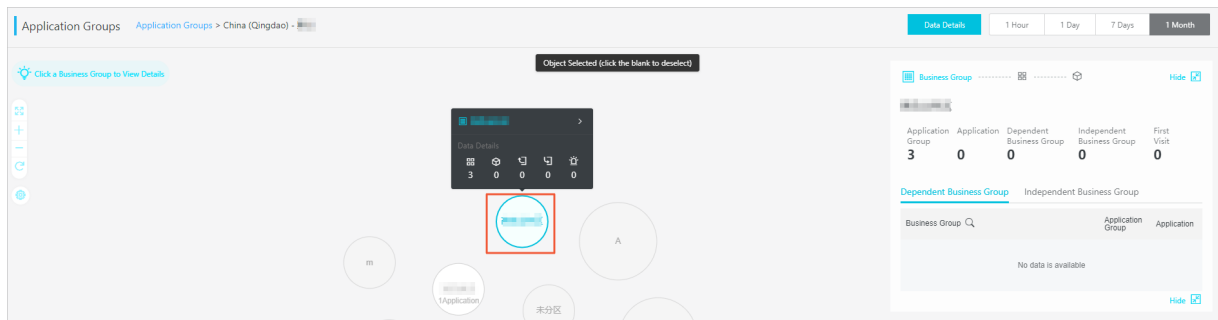
Visualize application groups

2. 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.

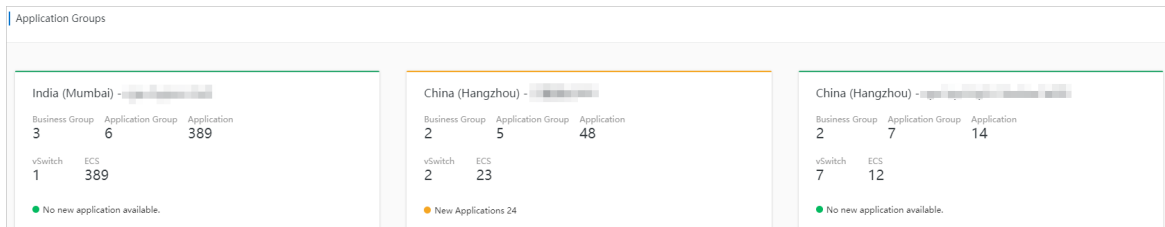
Context

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.

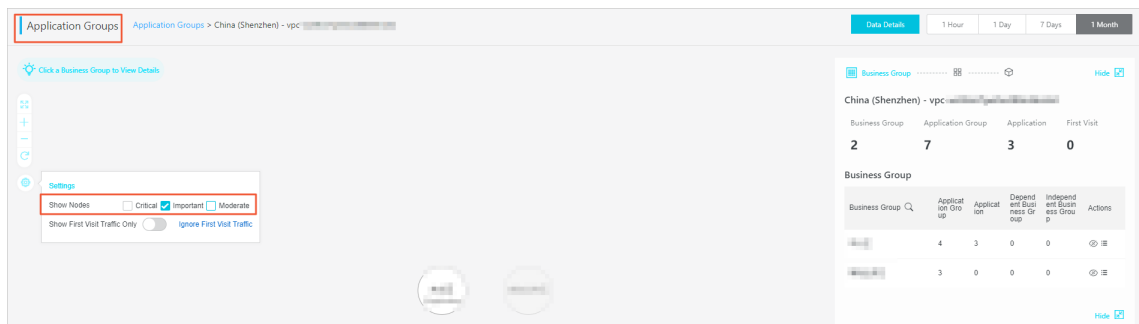


Procedure

1. Log on to the [Cloud Firewall console](#).
2. In the left-side navigation pane, choose **Business Visualization > Application Groups**.
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.
 - o 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 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.

Business Group	Application Group	Application	First Visit
3	6	389	0

Business Group	Application Group	Application	Dependent Business Group	Independent Business Group	Actions
le	3	0	0	0	⊗ ☰
ns	2	388	0	0	⊗ ☰
1	1	1	0	0	⊗ ☰

- 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.

Business Group	Application Group	Application	First Visit
9	15	7	0

Application Group	Business Group	Application	Dependent Application Groups	Independent Application Groups	First Visit	Importance Degree	Description
		0	0	0	0	Medium	-
		0	0	0	0	Medium	-
		0	0	0	0	Medium	-