

Tencent Cloud Firewall Operation Guide Product Documentation





Copyright Notice

©2013-2025 Tencent Cloud. All rights reserved.

Copyright in this document is exclusively owned by Tencent Cloud. You must not reproduce, modify, copy or distribute in any way, in whole or in part, the contents of this document without Tencent Cloud's the prior written consent.

Trademark Notice

STencent Cloud

All trademarks associated with Tencent Cloud and its services are owned by the Tencent corporate group, including its parent, subsidiaries and affiliated companies, as the case may be. Trademarks of third parties referred to in this document are owned by their respective proprietors.

Service Statement

This document is intended to provide users with general information about Tencent Cloud's products and services only and does not form part of Tencent Cloud's terms and conditions. Tencent Cloud's products or services are subject to change. Specific products and services and the standards applicable to them are exclusively provided for in Tencent Cloud's applicable terms and conditions.

Contents

Operation Guide
Firewall Toggle
Internet Perimeter Firewall Switch
NAT Firewall Toggle
Inter-VPC Firewall Toggles
Overview
Creating Inter-VPC Firewalls
Viewing Inter-VPC Firewalls
Managing Inter-VPC Firewalls
Managing Inter-VPC Firewall Instances
Managing Firewall Toggles
Using Network Topologies
Configuring Custom Routes
Overview
VPC Mode
CCN Mode
Firewall Engine Upgrade
Alert Management
Features
Overview
Attack Alerts
Blocked Attacks
Honeypot Events
Operation Guide
Alert Analysis and Handling
Blocked Attack Analysis and Handling
Traffic Monitoring
Access Control
NAT Firewall Rules
Inter-VPC Firewall Rules
Enterprise Security Group
Feature Overview
Configurations
Special Scenarios
Intrusion Defense

Enabling Threat Intelligence Enabling Basic Protection Enabling Virtual Patching Managing Defense Operations Honeypot Overview Honeypot Service Probe Log Audit Log Analysis Log Fields Log Subfield Access Control Logs Intrusion Defense Logs Traffic Logs **Operation Logs** Notifications and Settings **Common Tools** Address Template **Rule Backups**

Operation Guide Firewall Toggle Internet Perimeter Firewall Switch

Last updated : 2024-10-29 14:45:56

Cloud Firewall offers an Edge Firewall toggle feature. On the **Edge firewalls** page, it can automatically detect the public IPs you own and the associated cloud assets, and configure the corresponding firewall toggle for you. The Cloud Firewall toggle supports one-click protection, eliminating the need for any network access deployment or routing policy configuration. Moreover, there is no requirement to install any image files. The Cloud Firewall offers a plug-and-play product experience.

Traffic Mode Explanation

How It Works	Serial Firewall
Deployment Path	The serial firewall is directly deployed on the path of network data flow. All passing packets need to be inspected and processed by the firewall.
Data Processing	Since a serial firewall needs to process all data packets passing through it, it has high performance and processing capacity requirements. If the firewall performance is insufficient, it may become a network bottleneck, affecting network speed and stability. Therefore, a new firewall instance needs to be created in each region and allocated with the corresponding bandwidth for a serial firewall.
Security Protection	The serial firewall can perform deep inspection and processing of data packets, providing high security. It can prevent malicious packets from entering the network, protecting internal resources from attacks.

Preparation for Serial Firewall

Before using the serial firewall, please do the following preparations:

Allocate Bandwidth to the Serial Firewall

Since a serial firewall has regional cluster attributes and an upper limit on protection performance, users need to allocate bandwidth for the regions that need to use the serial firewall.



- 1. Log in to the Cloud Firewall Console, and in the left navigation bar, select **Firewall Toggles** > **Edge firewalls**.
- 2. On the Firewall Toggles page, click Firewall settings.

Firewall toggles Edge firewalls NAT firewalls	Inter-VPC firewalls		Firewa	I settings 💿 Instructions 🖃 User docum
Status monitoring Last 7 days Peak bandwidth in	Peak bandwidth out	II ∅ Bandwidth usage () Seriel heardwidth 220 Mbres	Specifications Protection for public IP address is not enabled.	Purchase & Upgrade 🗹 View pricing Serial firewall numbers 🛈
Occupied specification ratio: 0.35%	Occupied specification ratio: 0.18%	Serial bartowiuli 220 Mpps Remaining quota 886 Mbps	11 Public IP address quota: 52 (Remaining: 49) Separate keywords with " "; pres	Remaining general instances:4 units

3. Allocate bandwidth to the regions where you need to use the serial firewall. It is suggested to reasonably estimate based on the business peak. **Excessive bandwidth may trigger service degradation,** causing some firewall toggles to shut down automatically.

Firewall set	tings								×
Edge firewa	lls NAT	firewalls	Inter-VPC firewalls						
i) Your netw	north-south b ork and busin	andwidth ca ess.	n be allocated to Internet bo	undary firewalls.	Config	uring the f	irewall	I will not affect the	
Pending alloca	ted north-sout	h bandwidtl	h (i) 886 Mbps Purchas	e & Upgrade 🛂					
Pending alloca	tion of genera	instances (í) 4						
Serial firewalls Serial firewalls serial firewall b instance quota Seoul	all bandwidt	th configu ction at the region will + Mt	regional level. Before using it consume north-south bandw	, you need to allo idth quota. Addir Hong Ko…	ng a sei	andwidth f rial firewal 20	ior the I regio	protected region. Allocatin n will consume one genera Mbps	าg ม
Singapore	- 0	+ M	ops	Guangz	-	20	+	Mbps	
Chongqing	- 120	+ M	ops	Chengdu	_	20	+	Mbps	
Nanjing	- 0	+ M	ops	Shanghai	-	0	+	Mbps	
Beijing	- 20	+ M	ops						

©2013-2025 Tencent Cloud International Pte. Ltd.

Note:

General bandwidth: General bandwidth will be consumed when allocating bandwidth for the serial firewall with the current version. General bandwidth is shared with the NAT Firewall.

General instance: One general instance quota will be consumed for each newly added serial firewall region of the current version. General instance quota is shared with NAT Firewall.

Serial firewall region: the supported regions of the current version are based on the aforementioned serial firewall setting display regions. More regions are gradually undergoing gray release, so stay tuned.

Confirm Assets Within Protection Range

Due to network architecture limitations, the current version of the serial firewall only supports protecting Elastic Public IPs in the latest network architecture, as specifically shown on the console. If you have any doubts, you can contact the Elastic IP team for confirmation. Public network CLB type is not currently supported. If protection is needed, it is recommended to switch to a form that supports protection through EIP + private network CLB.

Serial Firewall Toggle Operation

Log in to the Cloud Firewall Console, and in the left navigation bar, select Firewall Toggles > Edge firewalls.
 On the Edge firewalls page, find the assets to be protected.

Enable all Disable all	Sync assets All statuses v		Asset type:CVM	Q (
Public IP Address/Type	Asset instance ID/name	Asset type T	Region T F	ïrewall oggles 🛈 Operation
				View rules More
			(View rules More

3. Click the

in the Firewall Toggles column to protect this asset at the edge.

4. The process to enable the serial firewall takes approximately 1 minute and has no effect on the network. **Note:**

The serial pattern requires the use of a Private Link to establish a network from VPC to Firewall.

For the first time a EIP within the same VPC enables a serial firewall, a new Terminal Node for Private Link and diversion internal IP needs to be created. There's no additional charge for the Private Link within the scope of your serial firewall, but additional charges may apply beyond that. Please see Private Link Price. A new Private Link does not need to be created when you toggle the serial firewall within the same VPC subsequently.

Status monitoring

Users can monitor and view the bandwidth status based on the public IP in real-time, enabling timely adjustments such as scaling or selectively closing toggles.

- 1. Log in to the Cloud Firewall Console, and in the left navigation bar, select Firewall Toggles > Edge firewalls.
- 2. In the upper right corner of the **Status Monitoring** panel on the **Edge firewalls** page, click the

icon.	di				
	Firewall toggles			Firev	vall settings 💿 Instructions 💽 User docun
	Edge firewalls NAT firewalls Status monitoring Last 7 days	Inter-VPC firewalls	@ dil	Specifications	Purchase & Upgrade 🚺 View pricing
	Peak bandwidth in 360.84 Kbps Occupied specification ratio: 0.35%	Peak bandwidth out 191.06 Kbps Occupied specification ratio: 0.18%	Bandwidth usage ① Serial bandwidth 220 Mbps Remaining quota 886 Mbps	Protection for public IP address is not enabled. 11 Public IP address quota: 52 (Remaining: 49)	Serial firewall numbers ③ 6 Remaining general instances:4 units
3 On	Enable all Disable all Sy	All statuses	in real time and moni	Asset type CVM	a ¢

3. On the **Status Monitoring** page, you can peek in real time and monitor the bandwidth situation based on public IP, and perform operations such as expanding capacity or turning off some toggles.



		All regions		Last hour	Last 24 hours	Last 7 days	1 mont	h Ç
	ro the odge firewall been	dwidth Vou will receive al	arta abaut tha bandu	idth usaga				
2. When the fir	ewall bandwidth is about	t to reach the specification	n limit, please monito	r the bandwidth	of the public IP addr	ess. To avoid affe	ecting your bu	siness, y
3. Exceeding t increased later	ne bandwidth specifications in the second seco	on does not guarantee pro	otection and may res	ult in Excessive I	handling plan. Seve	ere overage may o	cause <mark>network</mark>	instabili
ak bandwidth in 🛛 A	II regions							
860 84	ps							
	•							
ak handwidth out	-							
ak bandwidth out 91.06 Kb	- All regions ps						Â	~
91.06 Kb	- All regions ps -	^	L				n_L	
ak bandwidth out 91.06 Kb Public network ad	All regions ps Instance ID/name	Asset type	Region	A Peak band	∧∧ Iwid↓ Peak	bandwid \$	On/Off	Oper
ak bandwidth out 91.06 Kb Public network ad	All regions ps Instance ID/name	Asset type	Region	Peak band	∧∧ Iwid ↓ Peak	bandwid \$	On/Off	Oper Chec toggl
91.06 Kb	All regions ps Instance ID/name	Asset type	Region	Peak band	∕ / Peak	bandwid \$	On/Off	Oper Chec toggl Chec toggl

Note:

Peak bandwidth refers to the maximum of the upstream and downstream. For example, if you purchase 100 M of bandwidth, then the Cloud Firewall can handle both 100 M upstream and 100 M downstream at the same time.

Automatic Activation for New Assets

Log in to the Cloud Firewall Console, and in the left navigation bar, select Firewall Toggles > Edge firewalls.
 On the Firewalls Toggles page, click Firewall settings.



Firewall toggles	Inter-VPC firewalls		Firev	wall settings 🙆 Instructions \Xi User docum
Status monitoring Last 7 days		⊚ հ ≎	Specifications	Purchase & Upgrade 🔼 View pricing
Peak bandwidth in 360.84 κbps Occupied specification ratio: 0.35%	Peak bandwidth out 191.06 Kbps Occupied specification ratio: 0.18%	Bandwidth usage ① Serial bandwidth 220 Mbps Remaining quota 886 Mbps	Protection for public IP address is not enabled. 11 Public IP address quota: 52 (Remaining: 49)	Serial firewall numbers ① 6 Remaining general instances:4 units
Enable all Disable all S	All statuses 💌		Asset type: CVM	Q Ø

3. Click **Enable for new assets**. Within the allowed Quota of protected public IP, it will automatically enable the Edge firewalls for the newly added public IP assets. You can choose whether to enable the serial traffic pattern by default and whether to automatically create a Private Link.

Edge firewa	alls	NAT fi	rewal	ls Inter-VPC fin	ewalls				
Serial firew	all ba	ndwidth	conf	iguration					
Serial firewall serial firewall instance quot	suppor bandwi a.	ts protecti dth for a re	on at egion	the regional level. Befo will consume north-so	pre using it, you need to allo uth bandwidth quota. Addin	cate b Ig a se	andwidth f rial firewal	or the regio	protected region. Allocatin n will consume one genera
Seoul	-	20	+	Mbps	Hong Ko	-	20	+	Mbps
Singapore	-	0	+	Mbps	Guangz	_	20	+	Mbps
Chongqing	-	120	+	Mbps	Chengdu	_	20	+	Mbps
Nanjing	-	0	+	Mbps	Shanghai	_	0	+	Mbps
Beijing	_	20	+	Mbps					
Accest prote	otion	ootting							
Enable for nev	v asset	s (i)	j						

Excessive Bypass Configuration for Edge Firewall

When the business bandwidth exceeds the Edge Firewall bandwidth limit, specific measures will be taken. You can specify the weights for firewalls. When the business bandwidth exceeds the Edge Firewall bandwidth limit, firewalls will be disabled based on the weights, and the bypass mode will be used until the bandwidth of the corresponding region decreases to below specifications. Firewalls with the same weight will be disabled automatically in descending order of peak bandwidth. The initial weight is 1 by default and can range from 0 to 100. A larger weight indicates a higher priority.

Firewall Overage Handling Configuration

- 1. When the traffic exceeds the bandwidth of the Edge Firewall, the bypass policy will be triggered. We will turn off some firewall switches for you to reduce the traffic within the bandwidth specification, and the switches will be automatically turned on when the traffic is recovered.
- 2. You can customize the switch weight below. If the traffic exceeds the limit, we will turn off the switches in sequence according to the switch weight level you define until the bandwidth falls within the specification. If the same weight is set for certain switches, they will I automatically switched in descending order according to the peak bandwidth. The initial weight is 1 by default, the maximum weight is 100, and the minimum weight is 0. A larger weight indicates a higher priority.

Public IP Address/T Instance ID/name Asset type ▼ Region ▼ Weight :		
Others Beijing —	1	+
CVM Guangzhou —	1	+
NATFW Hong Kong —	80	+
CVM Singapore –	3	+

Directions

- 1. Log to the Cloud Firewall Console, and in the left navigation bar, select **Firewall Toggles** > **Edge firewalls**.
- 2. On the Firewall Toggles page, click Firewall settings.

Firewall toggles				Firewall settings () Instructions 🖃 User docur
Edge firewalls NAT firewalls	Inter-VPC firewalls			
Status monitoring Last 7 days		<mark>@</mark> վլ ¢	Specifications	Purchase & Upgrade 🗹 View pricing
Peak bandwidth in 360.84 Kbps Occupied specification ratio: 0.35%	Peak bandwidth out 191.06 Kbps Occupied specification ratio: 0.18%	Bandwidth usage (j) Serial bandwidth 220 Mbps Remaining quota 886 Mbps	Protection for public IP addres enabled. 11 Public IP address quota: 52 (Ren	s is not Serial firewall numbers (i) 6 Remaining general instances:4 units
Enable all Disable all S	Sync assets All statuses	atad Firawall tagala ur	Asset type:CVM	Q

3. On the **Firewall settings** page, edit the designated Firewall toggle weight.

age firewalls NA	F firewalls Inter-V	PC firewalls		
tomatically create private	e connections (i)	C		
erial firewall disaster	recovery configura	tion		
When the serial firewall b We will automatically disa	andwidth exceeds 120% able the firewall switch. A	of the allocated value for fter disabling, you will ne	r 5 consecutive minutes, the bypa ed to manually enable the switch	ass policy will be trigge in the console.
You can customize the su defined until the current r descending order of peal higher the priority. Edit weight	witch weight below. After 'egional bandwidth is with k bandwidth. The initial w	exceeding the limit, we v nin the specification. Swit reight is set to 1, with a m	vill close the switches in the order tches with the same weight will be naximum of 100 and a minimum o Please enter a search term.	r of the weight level yo e automatically closed of 0. The higher the we
Public IP Address/Ty	Asset instance ID/n	. Asset type ▼	Region Y	Weight \$
				- 1
				- 1
				- 1
				- 1
				- 1 - 1

4. Click Edit weight, you can choose the Firewall toggle, bulk edit switch weight, then click OK to save.



			Please e	enter a search term.	Q	
	Public IP Address/	Asset i	nstance ID/	Asset type ▼	Region T	
Total it	ems: 6		10 👻 / p	bage 🛛 🖌 🔺	1 / 1 page 🕨	
ease e	nter the weight. —	1	+			

Syncing Assets

The interval for the backend periodically polling user asset information is 5 minutes. Hence, when the user's asset scale changes during this interval and has not been synchronized by the backend, you can go to the top of the list,



click **Sync assets**, to promptly call the backend interface and re-read and synchronize the user's asset information and data.

When new assets do not appear in the Firewall Toggles list, you can go to the top of the list, click **Sync assets** to attempt asset synchronization.

Firewall toggles Edge firewalls NAT firewalls	Inter-VPC firewalls			Firewall settings	Instructions F	User docu
Status monitoring Last 7 days		© .lı ¢	Specifications		Purchase & Upgrade 🗳	View pricir
Peak bandwidth in 360.84 Kbps Occupied specification ratio: 0.35%	Peak bandwidth out 191.06 Kbps Occupied specification ratio: 0.18%	Bandwidth usage ① Serial bandwidth 220 Mbps Remaining quota 886 Mbps	Protection for public enabled. 11 Public IP address quot	IP address is not Seria 6 a: 52 (Remaining: 49)	al firewall numbers 🚯	4 units
Enable all Disable all	Sync assets All statuses v		Asset t	type:CVM		Q

Viewing Rules, Alerts, or Logs

In addition to enabling Firewall Toggles in the asset list, you can perform some other operations, mainly including viewing asset-related rules, alerts, and logs.

View Rules: In the asset list, click the **View Rules** in the operations column, you will be redirected to the page of rules associated with the asset.

Public IP Address/Type	Asset instance ID/name	Asset type T	Region T	Firewall toggles (i)	Operation
					View rules More

View Alerts: In the asset list, click **More** > **View Alerts** under the operation column, select a specific event type, and you will be redirected to the relevant event page in the alert center.

Public IP Address/Type	Asset instance ID/name	Asset type T	Region T	Firewall 0 toggles (i)	peration
				() v	ew rules More
				Security event alert	View alerts
				Blocked statistics	View logs

View Logs: In the asset list, click **More** > **View Logs** under the operation column, select a specific log type, and you will be redirected to the relevant log page.

Public IP Address/Type	Asset instance ID/name	Asset type ▼	Region T	Firewall coggles (j)	Operation
				() v	fiew rules More
				Traffic logs	View alerts View logs
				Intrusion defense log	rules More

Business Bandwidth Exceeding Edge Firewall Bandwidth Limit

The business will not be affected if the business bandwidth exceeds the Edge Firewall bandwidth limit. Packet loss or traffic rate decrease will not occur, but the protection feature will be unavailable.

Starting from September 25, 2024, the following measures will be taken when the business bandwidth exceeds 100% of the Edge Firewall bandwidth limit:

Some Edge Firewalls will be disabled, and part of the traffic will be forwarded in bypass mode to protect only traffic within the bandwidth specifications.

The measures are the same for the serial mode. Some firewalls will be disabled to limit the traffic.

Weights can be set to determine the priority for automatically disabling firewalls.

For more details, see Frequently Asked Questions - Bandwidth.

Related Information

If you need to manage traffic and protect assets in the private network, or forward network traffic based on SNAT and DNAT, please refer to the NAT Border Firewall Toggle operation.

If you need to automatically detect VPC information and interconnections, and set a Cloud Firewall toggle for each interconnected pair of VPCs, please refer to the Inter-VPC Firewall Toggle operation.

NAT Firewall Toggle

Last updated : 2024-03-18 14:12:58

NAT Firewall Toggle allows you to manage traffic and protect assets in the private network, and forward network traffic based on SNAT and DNAT.

Operation guide

1. Log in to the Cloud Firewall console, and select **Firewall toggle** > **NAT firewall toggle** in the left navigation pane to enter the **NAT firewall toggle** page.

Note

If a NAT firewall toggle is turned on, the Internet traffic of the subnet can go through the firewall. The access control rules and the intrusion defense feature take effect, and the traffic log can be generated.

2. On the **NAT firewall toggle** page, you can create instances, sync assets, and view and monitor the bandwidth of the NAT firewall.

Creating an instance

1. On the NAT firewall toggle page, click Create instance.

Firewall toggles Edge firewalls NAT firewal	IIs Inter-VPC firewalls				Instruction
Status monitoring Last 7 day	/5		dı ¢	Specifications	Purchase & Upgrade 🗹 View pricing
Peak bandwidth in 2.92 Kbps	Peak bandwidth out 21.05 Kbps	Bandwidth usage () 1000 Mbps		Connected subnets (i) 2	NAT firewall instance
Network topology Firewal	Linstance Firewall toggles	Remaining: 280Mbps		Toggled on: 1	
Create instance Update er	igines Sync assets			Separate keywords with " "; pres	s Enter to separate filter tags Q

2. In the **Create NAT firewall** dialog box, create a NAT firewall instance for the current account, complete the fields, and click **Next**.

Note

This operation involves lots of backend configuration and needs to take several minutes.

Create NAT	firewall	×
1 Step 1	> 2 Step 2	
Region	Check the supported regions in the dropdown list. The region cannot be changed after creating the firewall.	
Availability zone	Random AZ Remote disaster recovery	
Instance name	Please enter the instance name 60 more character(s) allowed	
Bandwidth usage	- 20 + Mbps ⊘ 20 to 280 Mbps. To increase the quota, please upgrade the service. Purchase & Upgrade ≧ View pricing ≧	
Mode	Create new (i) Access mode (i)	
EIP	Please select	
	+ Bind an EIP	
	Next Cancel	

Field description:

Region: Select a region for the instance to be created (all regions in China are available). The region cannot be modified after the instance is created.

Note

You can select one of the regions in China (including Hong Kong) where you have a VPC. Multiple firewall instances can be created for a single region, but the total bandwidth cannot exceed the quota.

Zone: Select an availability zone according to your needs.

Instance name: Enter the name of the instance.

Bandwidth quota: Select a bandwidth quota according to your needs (at least 20 Mbps). For more bandwidth,

upgrade your service.

Note

It must match the bandwidth of the edge firewall. For multiple NAT firewalls, their bandwidth sum must be less than or equal to that of the edge firewall.

Mode: Supports the Create new mode and Use existing mode.

Create new: If no NAT gateway is available in the current region, you can create a new NAT gateway and use it as the NAT firewall for Internet access.

Use existing: If a NAT gateway is available in the current region, or you do not want to change your outbound IP address, you can use the Use existing mode to smoothly add a NAT firewall between the NAT gateway and CVM instance.

EIP: If you select to create a new EIP, the system automatically requests an EIP for you. Or you can select and bind one of the idle EIPs.

Create instance: After a domain name is created, you can use all the remote operation and database protection services in the current region.

3. Select the VPC or NAT to associate and click Create.

Network topology

Cloud Firewall provides a dashboard displaying the access relation of NAT firewalls. You can check the VPC instances in the VPC.

1. On the NAT firewall toggle page, click **Network topology** to view the access relation of NAT firewalls.

letwork topology	Firewall instance	Firewall toggles	
Create instance	Update engines Sy	nc assets	
	🔗 Tencent Cloud		
	O VPC		
			NAT firewalls
			Singapore

2. Click a VPC node to view subnets. You can turn on or off the firewall toggle only for the current subnet.



Firewall toggle

On the Firewall toggle page, you can enable or disable NAT edge protection. CFW automatically syncs cloud assets on a regular basis, so you don't have to worry about the firewall configuration after an asset change (for example, if a subnet is changed, the firewall will automatically sync in a short period of time).

Enable protection:

Above the instance list, click **Enable all**. All NAT firewall toggles are turned on. A routing policy where the next hop points to the NAT firewall is automatically added to all routing tables. The Internet traffic of all subnets will go through the NAT firewall.

Note

When the toggle is on, please do not change the corresponding route manually in the VPC console. Otherwise, the network of your service will be interrupted as the firewall cannot find the route.

If you enable for all subnets associated with the same routing table, a routing policy is added automatically with the next hop pointed to the NAT firewall. The original routing policy to the Internet are disabled. In this way, all traffic going from the subnet to the Internet must go over the NAT firewall.



Network topology	Firewall insta	nce Firew	all toggles						
Enable all	Disable all	All regions	All NAT firewalls	▼ All s	statuses v	Separate I	keywords with " "; press Er	nter to separate filt	er tags C
Subnet ID/name	IPv4 CIDR	Region	Associated r T	CVM	VPC T	NAT gateway ▼	Associated insta	Firewall toggles (j)	Operation
									View rules More ▼
									View rules More ▼

Each firewall toggle is associated with a subnet, which is used to control whether traffic passes through the NAT firewall. Subnets associated with the same routing tables will be enabled/disabled at the same time. After the NAT firewall is created, the firewall toggle is on by default to ensure uninterrupted network.

Note

When it's enabled, the routing policies of the subnet routing table and port forwarding rules of the subnet are modified automatically to direct traffic of the subnet to the NAT firewall.



Disable protection

Method 1: Above the instance list, click **Disable all**. All NAT firewall toggles are turned off. All routing policies where the next hop points to the NAT firewall are automatically disabled. All subnets are disconnected from the Internet. You can enable a routing policy in the VPC console.

Note

If you disable for all subnets associated with the same routing table, the routing policy with the next hop pointed to the NAT firewall is disabled automatically. Subnets associated with this routing table are disconnected from the Internet.

Network topology	Firewall insta	nce Firew a	all toggles						
Enable all	Disable all	All regions	▼ All NAT firewalls	▼ All st	atuses 🔻	Separate	eywords with " "; press Er	nter to separate filte	er tags Q
Subnet ID/name	IPv4 CIDR	Region	Associated r T	CVM	VPC T	NAT gateway ▼	Associated insta	Firewall toggles (i)	Operation
									View rules More ▼
									View rules More ▼

Method 2: Separately turn off the firewall toggle for a subnet.

You can turn off the toggle of the firewall you want to disable in the **Firewall toggle column**. Subnets associated with the same routing table will be disabled at the same time.

Note

When it's disabled, the original routing policies and port forwarding rules of the subnet is restored. Traffic of this subnet goes through the original path but not the NAT firewall.



Instance configuration

On the NAT firewall toggle page, click the **instance ID** or **Instance configuration** on the right side of the firewall instance.

Port forwarding

On the right sidebar, you can view the DNAT port forwarding rules that you added for the NAT firewall instance, and the EIP associated with the instance.

Note

In the **Use existing** mode, the NAT firewall automatically syncs the existing port forwarding rules of NAT gateway to ensure traffic flow. For more operations on the rules, go to the Cloud Firewall console.

When the firewall toggle is on, the SNAT and DNAT traffic of the subnet goes through the firewall. When the firewall toggle is off, the SNAT and DNAT traffic of the subnet goes through the original path.

Do not perform operations on the port forwarding rules in the VPC console. Otherwise, the network may be interrupted.

Network topology Firewall instance	Firewall toggles			
Create instance Update engines	Sync assets		Separate keywords with " "; press Enter to separate filter tags	(
Instance ID	Region	Connected subn1	Instance	conf
Instance name	Egress publi	Peak bandwidth in	0.00 / 700 Mbps Status m	nonito
Deployment Create new	Private IP Multiple (4)	Peak bandwidth	0.00 / 700 Mbps More *	

1. On the **Port forwarding** tab of the instance configuration page, click **Create rule**.

Firewall instance		•	Network topology	Purch	di ¢ … >
Instance ID Instance name Egress public IP Private IP			Bandwidth 700 Bandwidth	usage (j) Mbps quota: 1000 Mb	ps
Public domain name Region					
Port forwarding	Bound egress	Access VPC and publi	c IP		

2. In the "Create port forwarding rule" dialog box, you can add a DNAT rule for the current NAT firewall instance, with the external IP address being set to the EIP that you bound.

Note

In the **External IP port** drop-down list, the option is the EIP bound to the current NAT firewall instance. In the "Private IP port", please enter an IP address that is available in the VPC segment of the current region.

Protocol					
External IP + Port	Select an external IP 🔹	0-65535			
Private IP and port	Please enter the internal IP	0-65535			
Description	Enter a description within 50 (
(i) If necessary, add the external IP+port of the port forwarding rule to the allowlist of edge firewall , and create a NAT firewall allowlist rule for the internal IP+port of the port forwarding rule.					

Bound egress

In the **Create new** mode, when the rule list is empty, all VPC subnets will access the Internet via a random NAT gateway.

Note

Bound egress is not supported in the **Use existing** mode.

1.1 On the **Bound egress** tab of the instance configuration page, click **Create rule**.

Port forwarding	Bound egress	Access VPC and	l public IP	
Create rule				
Instance ID	Insta	ince name	External IP	Operation
	No rules yet. Access	to subnets of all VPC a	are directed to the internet via a random	EIP.

1.2 In the "Create outbound rule" dialog box, provide the firewall instance ID and add a SNAT rule for the current NAT firewall.

Note

You can set **Instance type** to **Subnet** or **VPC**. Then, from the **Subnet** or **VPC** drop-down list, select a subnet or VPC that is connected to the NAT firewall but is not bound to egress NAT rules.

Create outb	ound rule	×
Instance type	VPC Subnet C	WM
VPC	Please select the VPC	~
External IP	Please select an EIP	Dedicated IP
i Rule	priority: CVM > Subnet > VPC	
	OK Cancel	

Access VPC and public IP

On the **Access VPC and public IP** tab of the instance configuration page, add a VPC or select another one. Add VPC

Click Add VPC, select the VPC, and click OK.



urren	t region: Singapore		
Searc	h by VPC ID/name, IPv4 CIDR	block	С
	VPC ID/Name	IPv4 CIDR	
~			
~			

Change VPC

Click Select VPC again, select a VPC, and click OK.

Note

All subnet toggles and DNS traffic toggles of the current firewall instance must be turned off.

Port forwarding	Bound egres	s Access	VPC and public IP
Access VPC			
Add VPC	Select VPC again		
ID/name	IPV4 CIDR	DNS (i)	DNS traffic

Access DNS traffic

Click the

icon to turn on the DNS traffic toggle on the right side of the VPC. Then, the DNS address of the connected VPC will be changed to direct the DNS traffic to the NAT firewall.

Note

If the connected VPC contains a subnet for which the firewall toggle is off, a significant delay may occur in DNS resolution. It is recommended to turn on all firewall toggles first.

Port forwardin	g Bound egres	S	Access VPC	and public IP
Access VPC				
Add VPC	Select VPC again			
ID/name	IPV4 CIDR	DNS (ì	DNS traffic

When the DNS traffic toggle is turned off, the original DNS addresses of all VPCs are restored. DNS traffic go through the original path but no the NAT firewall.

Scenario: The DNS address can be changed to NAT firewall IP to direct DNS traffic to the firewall. The firewall sends the request to a real DNS server and returns the DNS response to the specified server. This feature is supported in



both modes of the NAT firewall.

- 1.1 On the NAT firewall rules page, click **Outbound rules**.
- 1.2 On the **Outbound rules** tab, click **Add rule**.
- 1.3 On the Add rule page, complete the fields and select the DNS protocol.

Access source typ	pe 🔿 IP address 🔵	Asset instance Resour	rce tag Addres	s template			
Access destination type	IP/Domain name	Location Addre	ess template	·			
Rule priority	Earliest O	Last					
Priority (j)	Access source (i)	Access destination (i)	Destination port	Protocol (i)	Policy (i)	Description (Operatio
26				ANY -	Please selec v	Enter description of the rule. Up to	Copy De
				SMTD			
			ОК	SMTPS			
	Access source @		esumation port @ 1	SMTP/SMTPS			otatuo
				DNS			
4					bserve		

Bind EIP

1.1 In the "Bind EIP" module on the right side of the instance configuration page, click +Bind EIP.

1.2 In the drop-down list, you can bind the current NAT firewall instance to a new EIP or one of the idle EIPs in the current region.

Note

The EIP binding feature is supported only in the **Create new** mode.

When you unbind an EIP, the DNAT rules associated with the EIP will also be removed.



Purchase & upgrade

1. On the NAT firewall toggle page, click **Purchase & upgrade**. On the configuration change page, you can upgrade the bandwidth, version, and log storage.

Note

You can expand the bandwidth (the total firewall bandwidth) only.



2. Upgrade the bandwidth of a single NAT firewall instance by following the steps below:



Note

It must match the bandwidth of the edge firewall. For multiple NAT firewalls, their bandwidth sum must be less than or equal to that of the edge firewall.

If the target bandwidth is higher than the purchased bandwidth quota, you can click Purchase & upgrade to change the firewall bandwidth.

To make a minor change to the bandwidth, perform in the backend without switching the network. To make a major change to the bandwidth, configure the network first. Otherwise, the service may be interrupted.

1.1 On the NAT firewall toggle page, click the **Firewall instances** tab. Find the instance for which you want to change the bandwidth, and click the **instance ID** or **Instance Configuration** on the right side of the firewall instance.

Network topology	Firewall instance	Firewall toggles					
Create instance	Update engines	Sync assets			Separate keywords with " "; press	Enter to separate filte	r tags C
Instance ID		Reg	lon	Connected subn 1			Instance confi
Instance name	-	Egr	ess publi	Peak bandwidth in		0.00 / 700 Mbps	Status monito
Deployment Create n	new	Priv	rate IP Multiple (4)	Peak bandwidth		0.00 / 700 Mbps	More •

1.2 On the Firewall Instances tab, click Purchase & upgrade in the upper right corner.

Firewall instance	▼ Network topology Purch
Instance ID	Bandwidth usage (i)
Instance name	700 Mbos
Egress public IP	Bandwidth quota: 1000 Mbps
Private IP	
Public domain name	
Region	

1.3 After bandwidth configuration, click **OK** and wait until the adjustment is complete in the background.

Firewall instance	·	OK Cancel
Instance ID		Bandwidth usage
Instance name		— 700 + Mbps 🥑
Egress public IP		20 to 980 Mbps. To increase the quota, please
Private IP		Purchase & Upgrade 🔼
Public domain name		
Region		

Status monitoring

On the NAT firewall toggle page, you can view and monitor the bandwidths of the NAT firewall, sync assets, and view the network topology.

1. In the upper right corner of the **Status monitoring** area, click the statistics icon. The firewall status monitoring page appears.



2. On the firewall status monitoring page, you can view and monitor the bandwidths of the NAT firewall. To prevent network packet loss and fluctuation caused by the NAT firewall bandwidth exceeding the quota, you can make adjustments in advance, such as expanding the capacity or turning off some toggles.



eta tao monitoring	NAT firewalls	▼ Last hour	Last 24 hours Last 7	7 days 1 mor	nth
 1. CFW monitors 2. Exceeding ba 	s the NAT firewall bandwidth, whi ndwidth specifications will result	ich cannot exceed the edge firewall b in network instability, packet loss, et	andwidth quota of your current C c.	CFW edition.	
Peak bandwidth in					
2.92 Kbps Usage ratio: 0%	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	mlin			
Peak bandwidth out					
21.05 Кbps Usage ratio: 0%					
21.05 Kbps Usage ratio: 0%	IPv4 CIDR	Peak bandwidth in ↓	Peak bandwidth out \$	On/Off	Ope

Sync assets

On the NAT firewall toggle page, click **Sync assets** to call the backend API to read and sync the asset information of your subnet. This prevents the scenario where the asset scale is changed within the polling interval it the backend but is not synced.

Network topology Firewall instance Firewall tog	gles			
Create instance Update engines Sync assets			Separate keywords with * *; press Enter to separate filte	er tags 🛛 🤇
Instance ID	Region	Connected subn1		Instance conf
Instance name	Egress publi	Peak bandwidth in	0.00 / 700 Mbps	Status monito
Deployment Create new	Private IP Multiple (4)	Peak bandwidth	0.00 / 700 Mbps	More 💌

Other operations on VPC and NAT

Add VPC or NAT

Create new:

1.1 On the NAT firewall toggle page, click the **Firewall instances** tab. Click **More** and select **Add VPC** from the drop-down list.

Network topology Firewall instance Firewall	wall toggles			
Create instance Update engines Sync as	sets		Separate keywords with " "; press Enter to separate filter	tags Q
Instance ID	Region	Connected subn 1	View subnet toggles	Instance config
Instance name	Egress publi	Peak bandwidth in	Network configuration	Status monitorin
Deployment Create new	Private IP Multiple (4)	Peak bandwidth	Access configuration >	Access VPC an
			Terminate instance	Add VPC
Instance ID	Region	Connected subn1		Remove VPC
Instance name	Egress publi	Peak bandwidth in	0.00 / 20 Mbps	Change associ
Deployment Create new	Private IP Multiple (4)	Peak bandwidth	0.02 / 20 Mbps	More 💌

1.2 In the Add VPC to associate dialog box, select a VPC, and click OK.

Note

You can search for a VPC by keywords, such as a VPC ID, VPC name, and IPv4 CIDR.

Checkbox: The VPCs that you are already connected to are selected by default and cannot be cleared.

After you click **Add VPC to associate**, the NAT firewall toggle of the current region is locked. The toggle will not be unlocked until you click **OK** in the dialog box. When the toggle is locked, if another user in the current region requests to turn on the toggle, a message appears, indicating that a user is re-connecting the VPC.

0	
Search by VPC ID/name, IPv	4 CIDR block
- VPC ID/Name	IPv4 CIDR
✓	
~	

Use existing:

1.1 On the NAT firewall toggle page, click the **Firewall instances** tab. Click **More** and select **Add NAT** from the drop-down list.

1.2 In the Add NAT to associate dialog box, select a NAT, and click OK.

Note

You can search for a NAT by keywords, such as a NAT instance ID, NAT instance name, bound EIP, VPC ID, and VPC name.

Checkbox: The NAT gateways that are already connected to the current NAT firewall instance are selected by default and cannot be cleared.

()	The current CFW edition please submit a ticke	ion supports 5 NAT gateways et.	s. To add more gateways,	
Current	t region: Toronto ort NAT instance ID/nam	ne, associated EIP, VPC ID/na	me	C
	ID/name	Bind elastic IP	Network	

Change VPC or NAT

Create new:

1.1 On the NAT firewall toggle page, click the **Firewall instances** tab. Click **More** and select **Select VPC again** from the drop-down list.

Note

Before you change a VPC, make sure that all the toggles are turned off.

1.2 In the **Select VPCs to associate** dialog box, you can view all available VPCs in the current region. Select a VPC that you want to associate, and click **OK**.

Note

You can search for a VPC by keywords, such as a VPC ID, VPC name, and IPv4 CIDR.
Checkbox: The VPCs that you are already connected to are selected by default and cannot be cleared.

 Network ranges of VPCs ca 	annot duplicate.
urrent region: Singapore	
Search by VPC ID/name, IPv4 CIDI	R block
of 16 selected	

Use existing

1.1 On the NAT firewall toggle page, click the **Firewall instances** tab. Click **More** and select **Change NAT** from the drop-down list.

Note



Before you change a NAT, make sure that all the toggles are turned off.

Network topology Firewall instance Firewall tog	ggles			
Create instance Update engines Sync assets			Separate keywords with " "; press Enter to separate filter	tags Q
Instance ID Instance name Deployment Access mode	Region Egress publ Private IP Multiple (3)	Connected subn 1 Peak bandwidth in Peak bandwidth	View subnet toggles Network configuration Access configuration Debugging tool	Access VPC ar Add NAT
Instance ID	Region	Connected subn3	Terminate instance	Remove NAT
Instance name	Egress publi Private IP Multiple (7)	Peak bandwidth in Peak bandwidthI	0.00 / 20 Mbps 0.01 / 20 Mbps	Status monitorin

1.2 In the **Select NAT gateways to associate** dialog box, you can view the NAT instances in the current region and select an NAT instance that you want to associate.

Note

After you click **Add NAT to associate**, the NAT firewall toggle of the current region is locked. The toggle will not be unlocked until you click **OK** in the dialog box. When the toggle is locked, if another user in the current region requests to turn on the toggle, a message appears, indicating that a user is re-connecting the NAT.

()	The current CFW ed please submit a ticl	ition supports 5 NAT gateways ket .	. To add more gateways,
urrent	region: Toronto		
Suppo	ort NAT instance ID/na	me, associated EIP, VPC ID/na	me
~	ID/name	Bind elastic IP	Network
~			

Terminating an instance

1. On the NAT firewall toggle page, click the **Firewall instances** tab. Click **More** and select **Terminate instance** from the drop-down list.

Note

Before you terminate an instance, make sure that all firewall toggles are turned off.

You can terminate any instances as needed.

After the instance is terminated, all the configurations of the instance are deleted, but the log is retained. The quota is returned and the original route and port forwarding are automatically restored. Only the instances in other regions are displayed. If no instances exist in other regions, you will be redirected to the **Create instance** page.

Vetwork topology Firewall instance Firewall	toggles			
Create instance Update engines Sync assets			Separate keywords with * *; press Enter to separate filter tag	ıgs
Instance ID	Region	Connected subn 1	View subnet toggles	Instance cor
Instance name	Egress publi	Peak bandwidth in	Network configuration	Status monit
Deployment Create new	Private IP Multiple (4)	Peak bandwidth	Access configuration >	More 🔻
			Terminate instance	
Instance ID	Region	Connected subn 1		Instance con
Instance name	Egress publi	Peak bandwidth in	0.00 / 20 Mbps	Status monit
Deployment Create new	Private IP Multiple (4)	Peak bandwidth	0.02 / 20 Mbps	More 💌

2. In the confirmation window displayed, click **OK** to delete all configurations of this instance.



More information

For more information about how to configure firewall toggles for your public IPs and the associated cloud assets that you own.

For more information about how to automatically detect VPC information and connections and set a Cloud Firewall toggle for each pair of connected VPCs, please see Inter-VPC Firewall Toggle.

For more information about how to access the server via an external IP address, please see Adjusting the Priorities of NAT Gateways and EIPs.

For questions about the NAT firewall, please see NAT Firewall.

Inter-VPC Firewall Toggles Overview

Last updated : 2023-11-28 20:33:04

Features

Cloud Firewall allows you to enable or disable the firewall toggle between VPCs. You can create a firewall instance to carry the access traffic between different VPCs. In addition, Cloud Firewall provides access control rules and a log auditing system.

The inter-VPC firewall in the current version can protect Direct Connect gateways. The firewall instance supports multi-level routing provided by Cloud Connect Network (CCN). The Direct Connect gateways connect to the cloud-based VPC assets via CCN. This way, the inter-VPC firewall can detect the traffic in the connections. This document describes how to create a firewall instance and view its bandwidth usage, specification, network topologies, and firewall toggles on the **Inter-VPC Firewall Toggles** page.

Architecture

Before using this feature, make sure that you understand the components of an inter-VPC firewall. An inter-VPC firewall comprises multiple firewall instances. Each firewall instance connects a VPC to the firewall.

*	Firewall name	HANK /	Mode	VPC mode Custom route	Instances 2 Toggles 1 Region Seou		Operation ▼
	Instance ID Instance name Firewall Name	ni alatiki disebutika 🎽 ni alatiki disebutika 🎽 ni papika	Region Zone Specification	Seoul Seoul Zone 1 (Primary/Secondary) 1024 Mbps/20000 entries	Network instan2 Peak bandwidth Deployed rules	0.00 / 1024 Mbps	Instance deta Status monit More ▼
	Instance ID Instance name Firewall Name	n anala (an) Nanala (analasi (a) Nanala	Region Zone Specification	Seoul Seoul Zone 1 (Primary/Secondary) 1024 Mbps/20000 entries	Network instan1 Peak bandwidth Deployed rules	0.00 / 1024 Mbps 141 / 20000 rules	Instance deta Status monit More T

In essence, it directs traffic to its firewall instances by modifying VPC routes. Whether firewall instances can communicate with each other depends on the reachability of the routes in VPCs, as the firewall instances cannot establish basic networking. However, this can be implemented by modifying the next hop in a VPC route table or multi-route table in CCN.

Handling Abnormal Scenarios

When an inter-VPC firewall is turned on or off, the routing policy changes accordingly, triggering **short network interruptions**. If you need to perform batch or frequent operations on the firewall toggles, it is better to operate at late night.

Notes

Such problem does not occur to edge firewall toggles.

The inter-VPC firewall toggle is on top of the peering connection between VPCs or CCN. If you change or delete the configurations of the peering connection or CCN, the firewall toggle will also be automatically changed or deleted. In order not to affect your business, Cloud Firewall can immediately change or delete only the toggles that are off.

Notes

When the associated Tencent Cloud asset is changed or deleted, the edge firewall toggle will be synced as well within 5 minutes.

If there is no working route between the two VPCs, the firewall cannot be enabled.

Notes

To configure peering connections, see Configuring the Route to Peering Connection. To configure CNN routes, see Route Overview.

When the Cloud Firewall toggle is on, **DO NOT change the associated VPC route tables manually in the VPC console**. This can invalidate the firewall and disconnect the network as the changes to the route tables are not synced to the Cloud Firewall.

When the Cloud Firewall toggle is off, you can change the route of a peer connection or CCN instance. **Please DO NOT enable the route marked with "Firewall"**. This can invalidate the firewall and disconnect the network.

See Also

For more information about configuring firewall toggles for your public IPs and associated cloud assets, see Edge Firewall Toggle.

For more information about managing traffic and protecting assets in the private network or forwarding network traffic based on SNAT and DNAT, see NAT Edge Firewall Toggle.

For more information about the inter-VPC firewall, see Inter-VPC Firewall.

Creating Inter-VPC Firewalls

Last updated : 2023-11-28 20:37:12

VPC Mode

1. Log in to the Cloud Firewall console, and select Firewall toggle > Inter-VPC toggle in the left sidebar.

2. On the Inter-VPC toggle page, click the Firewall instances page and then click Create instance.

Edge firewalls	NAT firewalls	Inter-VPC firewa	lls		
Status monitorin	g Last 7 days				
Firewall bandwidt	h peak	Single in	stance peak bandwi	dth	Bandwidth usage 🕦
2.8 Kbps		2.8	Кррз		12 _{Gbps}
t. A.J		经管理			
Network topology	Firewall insta	nce Firewall t	toggles		



Parameter description:

Instance name: The custom name of the firewall instance.

Modes:

VPC mode: Connect the asset to CFW via VPC. Modify the VPC route table to direct the route.

CCN mode: Connect the asset to CFW via CCN. Modify the CCN route table to direct the route. Note that the CCN instance must support multi-routes.

SASE mode: The feature is currently in beta test. To try it out, submit a ticket.

Privet network mode (CDC): It works the same as the VPC mode and only applies to the CDC environment.

4. Enter the firewall instance name and region, configure the disaster recovery, bandwidth and network settings, and click **Next**. To create instances as you want, click

⊕

Creat	e inter-VPC firewall								
0	 The current edition st You can deploy differ Firewall instances are 	upports 10 VPC(s). To rent firewall instances connected by defau	increase the quota for different regio It. But the firewall c	a, please <u>Suk</u> ns as need. I only allows tr	omit a ticket Note that eac ransfer betwe	t 🖸 ch VPC can only een VPC connec	y be connected to cted via Peering C	o one firewall instance. Connect.	
C reate	Step 1 > 2	Step 2 >	3 Step 3	3					
	Firewall instance n	Instance region	Remote dis	Zone				Specification	Connect as an instance
1	1 - Instance 1	Beijing 🔻		Random	n AZ		▼	- 1024 + Mbps (i)	Connected networks (0)
					Back	Next	Cancel		

Parameter description:

Region: Select the region where the VPC to protect locates.

Remote disaster recovery: Select it to enable remote disaster recovery.

Availability zone: Select an availability zone according to your needs.

Instance bandwidth: An instance supports 1-20 Gbps (up to 5 Gbps configurable). To set a bandwidth greater than the configurable limit, submit a ticket or upgrade your service. If you need more than the maximum bandwidth available, another firewall instance can be created. But make sure the throughput limit is not exceeded for each of your firewall instances.

Connect as an instance: Click **Connected networks**, select VPCs within the region required, and click **OK**.

Important

A VPC associates with only one firewall instance.

Inter-VPC firewalls cannot communicate with the classic network, so peering connections or CCN instances must be created between VPCs.

An inter-VPC firewall instance allows up to 10 VPCs in the same region. Multiple instances in the same region are supported. Create an inter-VPC firewall instance based on the region where a VPC is located before accessing the network.

()	Each firewall instance can firewall instances if you ha	connect up to 10 network ins we many network instances.	tances. Create more	
elect V	/PCs to associate			
Search	n by instance ID/name, CIDR	block		C
	ID/name	CIDR	Region	
	งกระชิปรีนกรณส เมระเภทสมุฎรรม ครั้งมี	1953(62:10)(25	Beijing	
	។ពេលជាអង់រដ្ឋារា ដែល សំណាំណា	186/168/34/Jac art-	Beijing	
	YOR DEBUGUE GRRACESSINGER, SAMERA	1номеріненте	Beijing	
of 3 se	elected			

5. Configure the routing subnet, firewall VPC, and routing mode, and click **Create** after checking these settings.

Notes

The creation process takes several minutes to complete.



Parameter	Description
Create routing subnet	 CFW creates a 24 subnet in the connected VPC to route traffic to the firewall in three different ways. Once created, the subnet cannot be modified. Primary network range preferred: Automatically select an idle subnet range in the selected VPC. If the VPC does not have available subnet IPs, a secondary network range is used. Secondary network range preferred: Choose an idle secondary network range first. This mode does not consume the VPC's subnet quota. For more information about secondary network ranges, see Editing IPv4 CIDR Blocks. Custom: Specify a 24 network range within the CIDR block of the current VPC, such as 192.168.0.0/24.
Firewall VPC	It connects firewall instances and must be created in the regions where the VPCs you want to connect are located. Auto: CFW automatically creates a VPC with a /20 range that does not conflict with the connected VPCs. Custom: Set a VPC with a /20 range that does not conflict with the connected VPCs, such as 192.168.1.0/20.

Routing	The way that networks are interconnected determines the firewall toggles and routing modes.
mode	Choose a routing mode that best suits your needs.
	Point-to-point: It is suitable for connecting a few VPCs with a simple network topology. In this
	mode, one toggle is generated for each VPC-to-VPC connection.
	Point to multipoint: It is suitable for connecting multiple VPCs to a simple network topology,
	such as a star network topology. In this mode, one toggle is set for each VPC and traffic
	between two VPCs goes through two firewall toggles.
	Fullmesh: It is suitable for connecting many VPCs to a complex network topology, such as a
	mesh network topology. In this mode, only one firewall toggle is set to control all VPC routes.
	Custom route: In this mode, no firewall toggles are set. You can configure a custom route as
	guided in Configuring Custom Routes after creating a firewall.
	Note: Custom route is only supported in multiple regions. For available routing modes, go to the
	CFW console.

CCN Mode

Important:

CCN has begun charging on connected network instances and inbound traffic from July 1, 2023, so creating a firewall VPC for your connected network instance may incur costs. For more details, see Start Charging on CCN Connected Network Instances and Inbound Traffic.

1. Log in to the Cloud Firewall console, and select Firewall toggle > Inter-VPC toggle in the left sidebar.

2. On the Inter-VPC toggle page, click the Firewall instances page and then click Create instance.

Firewall toggles			
Edge firewalls NAT firewalls	Inter-VPC firewalls		
Status monitoring Last 7 days			di (
Firewall bandwidth peak	Single instance peak bandwidth	Bandwidth usage 🧃	
2.8 Kbps	2.8 кыря	12 Gbps	
(¹ ت	t*≦ ().		
Network topology Firewall inst	ance Firewall toggles		
Create firewall Update engines	Sync assets Sync routing All firewal	ls 💌	

3. In the pop-up inter-VPC firewall window, enter the instance name, select CCN mode and click Next.



Create inter-	VPC firewall	×
 1. A fin config 2. At fin mode. 3. Created 4. Config 	rewall contains multiple firewall instances. You can adjust the juration as needed. first, you need to create a firewall and choose the firewall deployment ate a firewall instance and connect to a VPC. nfigure the firewall and VPC	
1 Step 1	> 2 Step 2 > 3 Step 3	
Firewall name	Please enter the firewall name 60 more character(s) allowed	
Mode	VPC mode (i) CCN mode (i)	
	Next Cancel	

4. Select a CCN instance to be added to the inter-VPC firewall, and click **OK**.

Important

The CCN instance must support the multi-route table mode. If not, contact the CCN side to enable the multi-route table feature.

In the CCN mode, inter-VPC firewalls can be created in specified regions.

In the CCN mode, an inter-VPC firewall is associated with only one CCN instance.

(i) Each CCN instance can be	e associated with only one firewall.	
elect a CCN instance		
Search by instance ID/name		Q
ID/name	Associated instances	
Citizdistraindausses	3	
n total		

5. After selecting a CCN instance, select a region available for the connected VPC in the drop-down. A firewall instance then will be created in this region. You can configure the firewall instance name, remote disaster recovery, and instance bandwidth specifications, and click **Next**.



Create inter-VPC firewall				
 1. In CCN mode, each firewall can only b 2. In the CCN mode, you can create only 3. The associated CCN instance must su 	e bound with o one firewall ins pport multi-rou	ne CCN instance. stance in one regio te. If not, please sul	n. If you choose "Multiple regions", the optimal line is chosen. omit a ticket to enable the support for multi-route tables for the CCN instance.	
✓ Step 1 > 2 Step 2	> 3	Step 3		
Select a CCN instance	ne (j)			
Firewall instance name	Region (i)	Remote disaster recovery 🛈	Zone	Instance bandwidth
test-Singapore	Singapore		Random AZ 🔹	- 1024 + Mbps (j
test-Tokyo	Tokyo		Random AZ 🔹	- 1024 + Mbps (j
test-Toronto	Toronto		Random AZ 🔹	- 1024 + Mbps (j
			Back Next Cancel	

Parameters:

Region: Select the region where the VPC to protect locates.

Notes

If only one region is selected to deploy a firewall instance, all inter-VPC traffic with the firewall toggles on will pass through the firewall instance in that region. This is suitable for a business network with a star topology.

If all regions are selected to deploy firewall instances, all inter-VPC traffic with the firewall toggles on will pass through the firewall instances in those regions. This is suitable for a business network with a mesh topology.

Custom route is only supported in multiple regions.

Remote disaster recovery: Select it to enable remote disaster recovery.

Availability zone: Select an availability zone according to your needs.

Instance bandwidth: An instance supports 1-20 Gbps (up to 5 Gbps configurable). To set a bandwidth greater than the configurable limit, submit a ticket or upgrade your service. If you need more than the maximum bandwidth available, another firewall instance can be created.

Important

Make sure the throughput limit is not exceeded for each of your firewall instances.

6. Configure the routing VPC and routing mode. Click Create after checking these settings.

Notes

The creation process takes several minutes to complete.



Parameter	Description
Create routing VPC	CFW can route traffic to the firewall through a VPC with /20 range. It can be created in the associated CCN instance via three different ways. Auto: A random idle /20 range is selected. Custom: Set a VPC IP range to be used for the firewall on your own. It must be a /20 range. For example, 192.168.1.0/20. Important: CCN has begun charging on connected network instances and inbound traffic from July 1, 2023, so creating a firewall VPC for your connected network instance may incur costs. For more details, see Start Charging on CCN Connected Network Instances and Inbound Traffic.
Routing mode	 The way that networks are interconnected determines the firewall toggles and routing modes. Choose a routing mode that best suits your needs. Point-to-point: It is suitable for connecting a few VPCs with a simple network topology. In this mode, one toggle is generated for each VPC-to-VPC connection. Point to multipoint: It is suitable for connecting multiple VPCs to a simple network topology, such as a star network topology. In this mode, one toggle is set for each VPC and traffic between two VPCs goes through two firewall toggles. Fullmesh: It is suitable for connecting many VPCs to a complex network topology, such as a mesh network topology. In this mode, only one firewall toggle is set to control all VPC routes. Custom route: In this mode, no firewall toggles are set. You can configure a custom route as guided in Configuring Custom Routes after creating a firewall. Note: Custom route is only supported in multiple regions. For available routing modes, go to the CFW console.

Viewing Inter-VPC Firewalls

Last updated : 2023-11-28 20:40:15

Viewing bandwidth monitoring

Inter-VPC firewalls support monitoring the bandwidth of the entire firewall and individual instances. You can query in different ways.

1. Log in to the Cloud Firewall console, and select **Firewall toggles** > **Inter-VPC toggles** in the left sidebar.

2. On the page that appears, open the monitoring panel via one of these three methods: Click

in the top right corner, or click **Firewall bandwidth peak** > **Single instance peak bandwidth**.

Firewall toggles				
Edge firewalls NAT fire	ewalls Inter-VPC firew	alls		
Status monitoring Last Firewall bandwidth peak 2.8 Kbps	7 days Single instance p 2.8 Kbps	eak bandwidth	Bandwidth usage (i) 12 Gbps	ılı ¢

Click Firewall instance, select the target instance, and click Operation > Bandwidth monitoring.

Firewall name	r unit /	Mode	VPC mode Custom route	Instances 2 Toggle	es 1	Region Seoul	Operation 🔻
							Configure insta
Instance ID	nature (district)	Region	Seoul	Network instan2			Bandwidth mor
Instance name	NUBBRIDDE /	Zone	Seoul Zone 1 (Primary/Secondary)	Peak bandwidth		0.00 / 1024 Mbps	Terminate firew
Firewall Name	sidade	Specification	1024 Mbps/20000 entries	Deployed rules		141 / 20000 rules	More 🔻

Click Firewall instance, select the target instance, and click Status monitoring.

*	Firewall name	R 222 A /	Mode	VPC mode Custom route	Instances 2 Toggles 1 Region Seoul	Operation 🔻
	Instance ID Instance name Firewall Name	inene et staag noëstad – 1933-1944 🖍 A 1949 1	Region Zone Specification	Seoul Seoul Zone 1 (Primary/Secondary) 1024 Mbps/20000 entries	Network instan2 Peak bandwidth Deployed rules	Instance deta 0.00 / 1024 Mbps Status monitu 141 / 20000 rules More 🔻
	Instance ID Instance name Firewall Name	н ана аз 10 ла постој / 10 ла п	Region Zone Specification	Seoul Seoul Zone 1 (Primary/Secondary) 1024 Mbps/20000 entries	Network instan 1 Peak bandwidth Deployed rules I	Instance deta 0.00 / 1024 Mbps Status monit 141 / 20000 rules More 🔻

3. In the monitoring panel, filter data by the firewall or firewall instance, and specify a time range. The overall bandwidth usage and the peak amount will be displayed.

Important

The minimum granularity affects the accuracy of the observed peak bandwidth. To get the actual peak value, go to the TCOP console or view specific metrics in the monitoring panel.



4. In the monitoring panel, click **View all monitoring metrics** to open a dashboard that shows all metrics of a firewall instance, including concurrent connections, and both inbound and outbound private packets and private bandwidth.

These metrics are also viewable in the TCOP console, and alerts can be configured as needed.

Viewing specifications

To check specification information of connected network instances and inter-VPC firewall instances, go to Firewall toggles page > **Specifications**. Click **Purchase & Upgrade** in the top right corner to go to the purchase page. For users of CFW Enterprise, one inter-VPC firewall can be created. For CFW Ultimate users, up to 3 inter-VPC firewalls are allowed.

Firewall toggles					Instructions 🗉 User docu
Edge firewalls NAT firewalls	Inter-VPC firewalls				
Status monitoring Last 7 days			dı Ø	Specifications	Purchase & Upgrade 🛿 View pricir
Firewall bandwidth peak	Single instance peak bandwidth	Bandwidth usage 🚯		Network instances	Number of inter-VPC firewalls
2.8 Kbps	2.8 Kbps	12 _{Gbps}		7	3
	104 B. 17 6			Firewall toggles: 3	Firewall instances: 4
8 8					

Managing Inter-VPC Firewalls

Last updated : 2023-11-28 20:41:56

After an inter-VPC firewall is created, you can manage its instances separately.

Viewing an Instance

1. Log in to the Cloud Firewall console, and select Firewall toggle > Inter-VPC toggle in the left sidebar.

2. On the page displayed, click **Firewall instance** to view the created firewall and its deployed firewall instances.

Notes

Specification: The maximum amount of bandwidth and maximum number of rules for the current firewall instance. For more details, see NAT Firewall Toggle.

Network topology	Firewall instance Firewall toggles						
Create firewall	Update engines Sync assets Sync routing	All firewalls	×				lter tags
Firewall name	SINDAL /	Mode	VPC mode Custom route	Instances 2 Toggles	1 Region	Seoul	Operation *
Instance ID	ware ad	Region	Seoul	Network instan2			Instance details
Instance name	изацияласти /	Zone	Seoul Zone 1 (Primary/Secondary)	Peak bandwidth		0.00 / 1024 Mbps	Status monitorir
Firewall Name		Specification	1024 Mbps/20000 entries	Deployed rules I		141 / 20000 rules	More 🔻

Viewing Associated Toggles

To filter associated firewall toggles, click **Toggles** on the firewall instance page.

Firewall name 🤹 🔹 🌶	Mode	VPC mode Point to point	Instances 1 Toggles 1 Region Guangzhou		Operation 🔻
Instance ID Minter Areas	Region	Guangzhou	Network instan2		Instance details
Instance name	Zone	Guangzhou Zone 3 (Primary/Secondary)	Peak bandwidth 0.00 / 1	1024 Mbps	Status monitorin
Firewall Name CLY11:	Specification	1024 Mbps/20000 entries	Deployed rules 1 141 / 20	20000 rules	More •

Configuring Firewall Instances

1. On the firewall instance page, locate the target inter-VPC firewall and select **Operation** > **Configure instance**.



Firewall name 🗰 💓 🌶	Mode	VPC mode Point to point	Instances 1 Toggles 1 Region Guangzhou	Operation 🔻
				Configure instance
Instance ID #####	Region	Guangzhou	Network instan2	Bandwidth monite
Instance name was been wetress of	Zone	Guangzhou Zone 3 (Primary/Secondary)	Peak bandwidth 0.00 / 1024 Mbp	Terminate firewall
Firewall Name	Specification	1024 Mbps/20000 entries	Deployed rules 1 141 / 20000 rules	More 💌

2. Modify the name, specification and connected network instances initially configured when the firewall instance is created, and add new instances as needed.

	iter vrc inewaii								
1	 The current edition s You can deploy differ Firewall instances are 	upports 10 VPC(s). To rent firewall instances connected by defaul	increase the quota for different regio It. But the firewall c	a, please <u>Submit a ticket</u> 🗹 ns as need. Note that each VPC can c only allows transfer between VPC con	only be connected to nected via Peering C	one firewall instance onnect.	2		
	Step 1 > 2	Step 2 >	3 Step 3	3					
eate	Step 1 > 2	Step 2 >	3 Step 3	3					
eate	Step 1 > 2 a firewall instance and c Firewall instance n	Step 2 >	3 Step 3 ork instance Remote dis	Zone		Specification		Connect as an instance	2

3. When new VPCs are added to the inter-VPC firewall, its network configuration applies automatically. To create a custom forwarding subnet, add the corresponding subnet CIDR manually.

Important

The firewall network configuration cannot be changed.

Create	inter-VPC firewall	×
(j	 A routing VPC can route traffic to the firewall. You can select the creation mode. The routing VPC cannot be modified after the creation of firewall. The firewall toggle deployment and route directing modes vary for different route modes. Select the one best suits your service networking mode. 	
S Eirewall	Step 1 > Step 2 > 3 Step 3	
How to (create the routing subnet ① Primary network range preferred Secondary network range preferred Custom	
Firewall	VPC (i) O Auto Custom	
Routing	mode () O Point to point O Point to multipoint Fullmesh Custom route	
	Back Create Cancel	

Terminating Inter-VPC Firewalls

On the firewall instance page, locate the target inter-VPC firewall and select **Operation** > **Terminate firewall**. It will then be terminated after your confirmation.

Important

If **Custom route** is set, you need to restore the route manually.

Firewall name	Mode	VPC mode Point to point	Instances 1 Toggles 1 Region Guangzhou		Operation 🔻
					Configure instance
Instance ID ••• 0. 10. 116	Region	Guangzhou	Network instan2		Bandwidth monit
Instance name	Zone	Guangzhou Zone 3 (Primary/Secondary)	Peak bandwidth	0.00 / 1024 Mbps	Terminate firewal
Firewall Name	Specification	1024 Mbps/20000 entries	Deployed rules	141 / 20000 rules	More 💌

Managing Inter-VPC Firewall Instances

Last updated : 2023-11-28 20:45:15

After an inter-VPC firewall is created, you can manage its instances separately.

- 1. Log in to the Cloud Firewall console, and select Firewall toggle > Inter-VPC toggle in the left sidebar.
- 2. On the Inter-VPC toggle page, click Firewall instance.

Viewing Instance Details

1. On the firewall instance page, click the Firewall instance ID or Instance details on the right.

.*	Firewall name 🛛 🕫 🖢 🕯 🖌	Mode	VPC mode Custom route	Instances 2 Toggles 1 Region Seoul		Operation 🔻
	Instance ID	Region Zone Specification	Seoul Seoul Zone 1 (Primary/Secondary) 1024 Mbps/20000 entries	Network instan2 Peak bandwidth Deployed rules	0.00 / 1024 Mbps 141 / 20000 rules	Instance details Status monitorin More 💌
	Instance ID	Region Zone Specification	Seoul Seoul Zone 1 (Primary/Secondary) 1024 Mbps/20000 entries	Network instan1 Peak bandwidth Deployed rules	0.00 / 1024 Mbps 141 / 20000 rules	Instance details Status monitorii More 💌

2. The instance details page appears and displays the instance configuration.

Firewall instance	. titeun ▼		Adjust 🔢 🗘 🚥
Instance ID	(i)	Specification (i) $1 \cap 2 \Lambda$	20000
Instance name	thay be maneniated 🧪	IUZ4 Mbps	20000
Region	Seoul	Bandwidth quota: 12288 Mbps	Published rules: 141
CCN/Peering connection	Peering connections (1)	500.00 MeD	
Network instances	VPC (2)		
Associate with firewall	and a second of		
Routing mode	Custom route		
Firewall gateway address	martin de ser arrante de		
Network instances			
Change associated inst	tances		
ID/name	Instance type	Region	CIDR
ner (USCEI) HE	VPC	Seoul	-arod for a c
	VPC	Seoul	-हिस्केष जन्म

Viewing Associated Toggles

To filter associated firewall toggles, click **More** > **View firewall toggles** on the firewall instance page.

Firewall name	Mode	VPC mode Point to point	Instances 1 Toggles 1 Region G	uangzhou
Instance ID	Region	Guangzhou	Network instan2	
Instance name	Zone	Guangzhou Zone 3 (Primary/Secondary)	Peak bandwidth	0.00 / 1024 Mbps
Firewall Name	Specification	1024 Mbps/20000 entries	Deployed rules	141 / 20000 rules

Notes

A toggle can be associated with multiple firewall instances and controls traffic going through these firewall instances.

Terminating Inter-VPC Firewall Instances

To terminate any firewall instance, all toggles must be disabled.

1. On the firewall instance page, click **Toggles** on the right of the corresponding inter-VPC firewall.

Network topology Firewall instanc	e Firewall toggles			Separate keywords with "["; press Enter to separate filter tags
Toggle ID/name	Routing mode T	Toggle details	Firewall instance T	Firewall toggles ① Operation
-fart Blanks san	Point to point	there are a for the second sec	urgan adama (1995) ang atau ang	View rules More
Total items: 1				10 v / page H 4 1 / 1 page

- 2. Click **Disable all** to disable all toggles.
- 3. Click More > Terminate instance. The current firewall instance will be terminated after confirmation.

Notes

After termination, the VPCs will be automatically disconnected and the corresponding quota will be returned.

	Firewall name	¥214 /	Mode	VPC mode Point to point	Instances 1 Toggles 1 Region Guangzhou		Operation 🔻
	Instance ID Instance name Firewall Name	Personagen Maria ang ang ang ang ang ang ang ang ang an	Region Zone Specification	Guangzhou Guangzhou Zone 3 (Primary/Secondary) 1024 Mbps/20000 entries	Network instan 2 Peak bandwidth Deployed rules	0.00 / 1024 Mbps 141 / 20000 rules	Instance details Status monitori More 🔻
*	Firewall name	199128(12), /	Mode	VPC mode Point to point	Instances 1 Toggles 1 Region Singapore		Enable Bypass Change associat
	Instance ID	ter et a su avel	Region	Singapore	Network instan2		Terminate instan

Changing Associated Instances

To change the associated instance, all toggles must be turned off.

1. On the firewall instance page, click **Toggles** on the right of the corresponding inter-VPC firewall.

*	Firewall name 🔹 💌 🖍	Mode	VPC mode Point to point	Instances 1 Toggles 1 Region Guangzhou		Operation 🔻
	Instance ID Kontent (Marchanten and State	Region	Guangzhou	Network instan2		Instance details
	Instance name	Zone	Guangzhou Zone 3 (Primary/Secondary)	Peak bandwidth 0.	.00 / 1024 Mbps	Status monitorir
	Firewall Name	Specification	1024 Mbps/20000 entries	Deployed rules 1	41 / 20000 rules	More 🔻

2. Click **Disable all** to disable all toggles.



Network topology Firewall instance	e Firewall toggles					
Enable all Disable all	▼ All statuses ▼					filter tags
Toggle ID/name	Routing mode T	Toggle details		Firewall instance T	Firewall toggles ③	Operation
-fag \$9,06,0 + 1 + 1	Point to point	(den stand) ←	***	million build for a might of the former		View rules More
Total items: 1					10 🔻 / page 🛛 🕅 🚽	1 / 1 page

3. Click **More > Change associated instances** to edit the settings.

Important

Associated instances can be changed if an inter-VPC firewall is connected in the VPC mode.

If it's connected in the CCN mode, this feature is unavailable.

*	Firewall name	мж /	Mode	VPC mode Point to point	Instances 1 Toggles 1 Region Guangzhou	Operation 🔻
	Instance ID Instance name Firewall Name	dente constantinity N particularies	Region Zone Specification	Guangzhou Guangzhou Zone 3 (Primary/Secondary) 1024 Mbps/20000 entries	Network instan2 Peak bandwidth 0.00 / 1024 Deployed rules 1 141 / 2000	Instance details Mbps Status monitorii rules More View firewall too
	Firewall name	the stars Latter y	Mode	VPC mode Point to point	Instances 1 Toggles 1 Region Singapore	Enable Bypass Change associate
	Instance ID	http://www.	Region	Singapore	Network instan2	Terminate instan

4. In the pop-up window, select a VPC to reconnect to and click **OK**.

()	Each firewall instance firewall instances if y	e can connect up to 10 netwo ou have many network insta	ork instances. Create more nces.	
ect V	/PCs to associate			
learch	n by instance ID/name,	CIDR block		0
H	ID/name	CIDR	Region	
	· · · · 6 pl	482.040987.0	Singapore	
~	var Seenaans Inderenge	185.183/HJ	Singapore	
	53957-253975-9-4 ₁₂	ter in Rister	Singapore	
	ens siinsee Siiserystee	1.2 10	Singapore	
f 14 s	selected			

Bypass Mode

Inter-VPC firewalls provide Bypass mode that allows instance traffic to bypass your firewall. **Use this mode only for**

debugging.

On the firewall instance page, click $\ensuremath{\textit{More}}\xspace > \ensuremath{\textit{Enable Bypass}}\xspace / \ensuremath{\textit{Disable Bypass}}\xspace.$

Important

Disable Bypass mode once the debugging completes.

Firewall name	æ /	Mode	VPC mode Point to point	Instances 1 Toggles 1 Region Guangzhou		Operation 🔻
Instance ID 44 Instance name 44 Firewall Name 44	иналада уб актомика Ист	Region Zone Specification	Guangzhou Guangzhou Zone 3 (Primary/Secondary) 1024 Mbps/20000 entries	Network instan2 Peak bandwidth Deployed rules	0.00 / 1024 Mbps 141 / 20000 rules	Instance detaik Status monitor More 💌
Firewall name	***/	Mode	VPC mode Point to point	Instances 1 Toggles 1 Region Singapore		View firewall to Enable Bypass Change associa
Instance ID 👘	14.11.1	Region	Ginnanna	Nahunik instan 0		Terminate instar

Managing Firewall Toggles

Last updated : 2023-11-28 20:51:48

On the Firewall Toggles page, you can control traffic between VPCs through inter-VPC firewall toggles. You don't need to adjust the firewall settings when there is an asset change, as CFW can automatically sync assets in a short time. **Important**

Enabling/Disabling firewall toggles involves switching networks and routes. This can cause a short network jitter and interruption.

Route Modes

There are four route modes available for firewall toggles.

Point-to-point mode: A firewall toggle is set for one pair of interconnected VPCs. A pair of interconnected VPCs is enabled by one peering connection or CCN instance.

Point to multipoint mode: A firewall toggle is set for one VPC and controls all traffic entering or leaving this VPC. Traffic exchanges between two VPCs go through two separate firewall toggles.

Fullmesh mode: A firewall toggle is set for all associated VPCs.

Custom route: Only associated VPCs are displayed.

Changes made to a VPC peering connection or CCN instance are synced to firewall toggles, which must be disabled to avoid any business interruption.

Important:

Though CFW cannot connect to the classic network, firewall toggles can be automatically created based on reachable routes. If there is no toggle, check whether there is a peering connection or CCN instance.

Enabling Firewall Toggles

After the toggle is turned on, the system automatically modifies the routing policy of the relevant route table. The traffic between the local network and the peer network, which are associated with the firewall toggle, is directed to the inter-VPC firewall.

1. On the Inter-VPC toggle page, firewall toggles can be turned on in the following ways.

Single: Select a firewall toggle and click the

icon in the Firewall toggle column. Click OK in the pop-up confirmation window.

Network topology Firewall instance Firewall	rewall toggles			
Enable all Disable all	▼ All statuses ▼			Separate keywords with "I"; press Enter to separate filter tags
Toggle ID/name	Routing mode T	Toggle details	Firewall instance T	Firewall toggles ③ Operation
	Point to point	*************************************	0.000 (0.000) Diamana	View rules Mon
Total items: 1				10 🕶 / page 🔣 🖪 1 / 1 page

Batch: After selecting multiple firewall toggles, click **Batch enable** in the top left corner. Click **OK** in the pop-up confirmation window.

Network topology Firewall instance	Firewall toggles					
Batch enable Batch disable vpc_lsy	▼ All statuses ▼				Separate keywords with " "; press Enter to separate	filter tags
✓ Toggle ID/name	Routing mode T	Toggle details		Firewall instance T	Firewall toggles ③	Operation
National Sector	Point to point	 ⇒ <	Nak	REPORTED		View rules More
Total items: 1					10 💌 / page 🛛 🖌 🔌	1 / 1 page

All: Click **Enable all** in the top left corner.

Network topology Firewa	all instance Firewall toggles			
Enable all Disable all	All statuses			Separate keywords with " "; press Enter to separate filter tags
Toggle ID/name	Routing mode T	Toggle details	Firewall instance T	Firewall toggles ① Operation
T TT STREET	Point to point	4 3.6.46. 🕈 February 1991.	2 (2 4) (10 (10 (10 (10 (10 (10 (10 (10 (10 (10	View rules Mo
Total items: 1				10 💌 / page 🖂 < 1 / 1 page

2. In the confirmation window displayed, click **OK** to enable protection.

Important

If the VPC peering connection or CCN instance is not correctly configured, the firewall cannot be enabled.

When the firewall toggle is on, don't change the corresponding routes manually in the VPC console. Otherwise, the network gets interrupted due to the missing routes.

Disabling Firewall Toggles

When the firewall is disabled, the original route policies are restored. The traffic between the local network and peer network goes through the original path instead of the inter-VPC firewall.

1. On the Inter-VPC toggle page, click **Firewall toggle**. You can turn off firewall toggles individually, in a batch, or all of them.

Single: Select a firewall and click the

icon in the Firewall toggle column. Click OK in the pop-up window to disable it.

Network topology Firewall instance	Firewall toggles			
Enable all Disable all	▼ All statuses ▼			Separate keywords with "I"; press Enter to separate filter tags
Toggle ID/name	Routing mode T	Toggle details	Firewall instance \overline{T}	Firewall toggles ③ Operation
🗆 mia ésc _{en}	Point to point	19944 9997 5 1.1 1 CERTIFIE	(CONFERN SAME AND	View rules More
Total items: 1				10 💌 / page 🖂 < 1 / 1 page

Batch: After selecting multiple firewall toggles, click **Batch disable** in the top left corner. Click **OK** in the pop-up confirmation window.

Network topology Firewall instance	Firewall toggles					
Batch enable Batch disable	▼ All statuses ▼				Separate keywords with " "; press Enter to separate	
Toggle ID/name	Routing mode Y	Toggle details		Firewall instance T	Firewall toggles 🕄	Operation
INTROPOS	Point to point	**(<u>3</u> *(<u>3</u>) * <u>1</u> (<u>5</u>)	forsit.	TTRATE!		View rules More
Total items: 1					10 💌 / page 🛛 🕅 🖪	1 / 1 page

All: Click **Disable all** in the top left corner.

Network topology Firewall instance	ce Firewall toggles			
Enable all Disable all	▼ All statuses ▼			Separate keywords with "["; press Enter to separate filter tags
Toggle ID/name	Routing mode \overline{T}	Toggle details	Firewall instance $\mathbf{\overline{Y}}$	Firewall toggles ① Operation
- Jane	Point to point	unintario Majarano Conjecturo	ALL ALL ALL	View rules More
Total items: 1				10 💌 / page 🔣 < 1 / 1 page

2. In the confirmation window displayed, click **OK** to disable the protection.

Important

After the firewall toggle is disabled, you can switch the VPC routes as needed. Do not manually enable the firewall routes, otherwise this will cause network interruptions and firewall toggle failure.

Viewing Rules

- 1. On the Inter-VPC toggle page, click Firewall toggle.
- 2. On the Firewall toggle page, click View rules on the right of the target firewall toggle.

Enable all Disable all	All statuses				Separate keywords with "["; press Enter to separate filter tags
Toggle ID/name	Routing mode T	Toggle details		Firewall instance T	Firewall toggles ③ Operation
e, suchts	Point to point	anaranan 2012-1912 € 2012-1910	1000 000 1000 0000	CHEMISTY FROM NAMES AND	View rules Mo
Total items: 1					10 💌 / page 🔣 4 1 / 1 page

3. On the Private network rules page, view and edit the rules as needed.

Access contr	bl	Feteraria conuity around	Driveto network rule									Rule ba
Rule list	Latest backup: 2023-07-08 00:00:00	Enterprise security groups	Private network rule:	<u> </u>		Recent operations	0					View operatic
Global rules 8 Enabled rule	s 4	Custom scope 6 Enabled rules: 2	Rule que 500	1ta (i)		2023-07-05 10:00:00 2023-07-04 12:15:04 2023-07-04 12:14:42 2023-07-04 12:14:14	a na statut a na statut 125 go Alfinia a colonia	URDERSE BOORSTON BOORSTON BOORSTON				Detai Detai Detai
Add rule	Import rule Sort	Batch operation More action	× All statuses	ÿ					Separate keywords v	vith " "; press Enter to) separate filter tag	gs Q
Priority 🛈	Access source (i)	Access destination (i)	Destination port (Protocol	Policy (i)	Scope ▼	Description (D	Hit count	Status		Ope
Ť	e anna		-1/-1	ANY	Observe	ALL Global policy	A 4		2809	Õ	Edit	Add one above
2	P (tata)	P 1133	-1/-1	TCP	Block	ALL Global policy	94H		0	Õ	Edit	Add one above
3	P 199 499,4 9 14 5	(P) (1 1 1	80	TCP	Observe	ALL Global policy	11.42×		0	Õ	Edit	Add one above
4	P 28 51 51	e 11647*	80	ТСР	Observe	ALL Global policy	13.00		7	Õ (Edit	Add one above

Viewing Logs

- 1. On the Inter-VPC toggle page, click **Firewall toggle**.
- 2. On the page that appears, select **More** > **View logs** to view access control logs or traffic logs.

Network topology Firewall instance	Firewall toggles				
Enable all Disable all	▼ All statuses ▼				Separate keywords with "[": press Enter to separate filter tags
Toggle ID/name	Routing mode T	Toggle details		Firewall instance Y	Firewall toggles 🕄 Operation
	Point to point		19.2472		View rules More
Total items: 1					Access control logs View logs 10 v / ppt Traffic logs / 1 page

Using Network Topologies

Last updated : 2023-11-28 20:54:48

Viewing Network Topologies

Cloud Firewall provides a dashboard displaying the access relation between VPC assets.

- 1. Log in to the Cloud Firewall console, and select Firewall toggle > Inter-VPC toggle in the left sidebar.
- 2. On the Inter-VPC toggle page, click Network topology to view associated VPC instances.
- 3. On the **Network topology** page, place the mouse over a VPC instance to show details.



4. Click this VPC instance to further view its connection with other VPC instances and the firewall toggle status. A dark blue firewall toggle means it is turned on and a gray firewall toggle means it is turned off.



the
-
Biotecharge (1) Science (1)

5. On the **Network topology** page, click **Sync assets** to synchronize assets. To view version information, just place the mouse over **Update engines**.

Status monitoring Last 7 days Specifications Purchase & Upgrade 12 View print Firewall bandwidth peak Single instance peak bandwidth Bandwidth usage ① Network instances Number of inter-VPC firewalls 2.8 kbps 2.8 kbps 12 gbps 7 3	Firewall toggles Edge firewalls NAT firewalls Inter-VF	C firewalls				Instructions 🖬 User do
Firewall toggles 3 Firewall instances: 4	Status monitoring Last 7 days Firewall bandwidth peak 2.8 Kbps	Single instance peak bandwidth 2.8 Kbps	Bandwidth usage $\textcircled{0}$ 12 Gbps	dιφ	Specifications Network instances 7 Firewall toggles: 3	Purchase & Upgrade 😢 View pr Number of inter-VPC firewalls 3 Firewall instances: 4

6. On the **Network topology** page, click the

icon in the top right corner to view the operation guide, or click the

icon to refresh the network topology.

Viewing the Access Relation Between VPCs



Cloud Firewall provides a dashboard displaying the access relation between VPC assets. In the VPC visualization view, each node represents a VPC instance protected by the inter-VPC firewall, which is a centralized device for inter-VPC firewall toggles. Each toggle controls different routes. Traffic between VPCs with firewall toggles turned on is directed to the firewall for filtering and protection.

1. Log in to the Cloud Firewall console, and select Firewall toggle > Inter-VPC toggle in the left sidebar.

2. On the Inter-VPC toggle page, click Network topology to view associated VPC instances.

3. Hover the mouse over a VPC node to view its brief details. All VPC nodes interconnected to it will light up. Click the **VPC ID** and the VPC details page opens.



4. Click a VPC node. The page enters the focused view that displays the topology centered on the VPC node.

5. Interconnected VPCs are linked via a connection line, with a firewall toggle lying in the middle that can be managed as needed. You can click the

icon to go to the page for configuring access control rules.



A ALL		
	Inter-VPC firewall	
	Firewall toggles	

Important

In the "Point to point" mode, each pair of interconnected VPCs has only one firewall toggle.

In the "Point to multipoint" mode, each VPC has one firewall toggle.

In the "Fullmesh" mode, all VPCs has only one firewall toggle.

Point to point








Fullmesh



Configuring Custom Routes Overview

Last updated : 2023-11-28 20:23:18

When an inter-VPC firewall is set to **Custom route**, a custom route can be created to suit your needs.

Important:

Before using this mode, make sure that CFW has been connected to the classic network through peering connections or CCN instances.

Concepts

Firewall instance

Similar to CVM, it is a virtualized instance that can perform all features of a firewall. View more details in the CFW console.

Firewall VPC (CCN mode)

A VPC that is created by CFW in CCN can direct user network traffic to firewall instances, so as to enable protection. Such VPC is named "Firewall VPC_DO NOT MODIFY". Go to the CCN instance details page and view more details.

Notes

A firewall VPC will be created in each region to handle traffic. Please do not modify it.

Detai	ls of Manana								Help of Cloud Connect N
Associated	to Monitoring	Bandwidth management	Route table	Route table selec	ction policy				
0	To prevent your service	from being affected by the slow netw	rork due to the low cros	ss-region bandwidth ca	ap, it's recommended to adju	ist the CCN instance bandwi	dth after adding a network i	nstance. <mark>Configure alarms</mark>	2
Add i	instance Disasso	ciate Bind route table							
DID	/Name	Status Instanc	e type Ac	count	Association time	Region	Bound route table	Remark	Operation
De	edicated firewall VPC o not delete or modify	Connected Virtual F	Private Cloud My	/ account	2023-07-08 15:05:56	Singapore	Dedicated firewall VPC routing table_Do not delete or modify	Dedicated firewall inst	Disassociate Bind route table

Firewall route table (CCN mode)

A route table that is automatically created by CFW can distribute traffic. Such route table is named "Firewall VPC route table_DO NOT MODIFY".

Important

A firewall route table will be created in each region. Please do not modify it.

_default_rtb	Details of annual of runn	rir Expand -				
	Route reception policy	Route Bind ins	stance			
Dedicated for		Disable routes		Separate keywor	ds with " "; press Enter to separa	te filter tags 🛛 🗘 🛓
ewall VPC ro ▲ 面 uting table	Destination	Status 🚯 🔻	Next hop T	Next hop region	Update at	Enable routing
	(£13819191	Valid	Dedicated firewall VPC Do not delete or modify	Singapore	2023-07-08 16:39:22	
	15 15 11 10 10 10	Invalid	Dedicated firewall VPC Do not delete or modify	Singapore	2023-07-08 17:15:13	

Firewall VPC

A VPC that is created by CFW in CCN can direct user network traffic to firewall instances, so as to enable protection. Such VPC is named "Firewall VPC_DO NOT MODIFY". Go to the CCN instance details page and view more details.

Notes

A firewall VPC will be created in each region to handle traffic. Please do not modify it.

Details of									Help of Cloud Connect N
Associated to	Monitoring	Bandwidth management	Route table	Route table selec	tion policy				
 To pre 	vent your service fror	n being affected by the slow netw	ork due to the low cross	s-region bandwidth caj	p, it's recommended to adju	ist the CCN instance bandwi	dth after adding a network ir	nstance. <u>Configure alarms</u>	Z
Add instance	e Disassocia	te Bind route table							
ID/Name	s St	atus Instance	type Acc	count	Association time	Region	Bound route table	Remark	Operation
Dedicate Do not d	d firewall VPC Co elete or modify	onnected Virtual P	rivate Cloud My	account	2023-07-08 15:05:56	Singapore	Dedicated firewall VPC routing table_Do not delete or modify	Dedicated firewall inst	Disassociate Bind route table

Working Mode

VPC mode





CCN mode

In this mode where the inter-VPC firewall and all service VPCs are connected to the same CCN instances, service traffic is directed via a firewall VPC subnet.



VPC Mode

Last updated : 2023-11-28 20:25:44

Step 1. Creating an Instance with Custom Route

Create an instance as instructed by Creating Inter-VPC Firewalls. Select **Custom route** for the route mode.

Step 2. Configuring the Forwarding Route

1. View the two peered VPCs, namely VPC A and VPC B.

Basic informa	ition
Name	ងភេះកាត់ស្នេ 🧪
ID	ALIVS'I
Status	Connected
Local region	Southeast Asia (Singapore)
Local VPC	
Peer region	Southeast Asia (Singapore)
Peer account	My account
Peer VPC	BovPC
Bandwidth cap	Unlimited
Service level	Gold
Creation time	2022-10-12 14:55:35

2. On the Route Table page, find all route tables associated with VPC A. Select the route table named "default" by clicking its ID.

Route table Singapore 18 -	WEIGTLEETERSTELLER					Help of Route ta
Create					Please enter the Route	Q¢¢
ID/Name	Туре	Network	Associated sub	Creation time	Tags T	Operation
Firewall routing_Do not delete or modify 🌶	Custom table	AVPC	1	2023-01-12 16:43:19	\bigcirc	Delete More T
NAT security gateway routing_Do not delete or modify	Custom table		1	2023-01-12 15:01:39	$\overline{\mathbb{O}}$	Delete More 🔻
ree - Las Table default	Default route table	"A.VPC	2	2022-09-20 10:32:35	\bigcirc	Delete More 🔻
Total items: 3				20 •	r / page 🔣 🖣 1	/ 1 page 🕨

3. Click + Add routing policies on the details page.

4. In the pop-up window, enter the subnet of VPC B for **Destination**, select **HAVIP** for **Next hop type**, and click **Create**.

d a route				
 Routing policies control 	the traffic flow in the subnet. For details, please see	Configuring Routing Policies.		
estination	Next hop type	Next hop	Remark	Operation
such as 10.0.0/16	High availability virtual IP 🔹	havi an an (Firewall HAVIP) 💌		8

5. On the details page, disable routing for the existing policy with the next hop type of peering connection, and enable routing for the new policy.

Important

Switching routes may cause network interruptions. It is recommended to operate during off-peak hours.

Add route policy Export	Enable Disable					
Destination	Next hop type T	Next hop	Remark	Enable routing	Route status in CCN	Operation
	LOCAL					Publish to CCN
B VPC	Peering connections	Sugar .	1.17.17			Edit Delete Publish to (
	High availability virtual IP	California	ί γ.a		-	Edit Delete Publish to (
B VPC	High availability virtual IP	ซัมสังชาติสุการออก ซีรีสียุว	Transages .			Edit Delete Publish to (

6. On the **Route Table** page, find all route tables associated with VPC B, and then select the route table named "default" by clicking its ID.

Route table Singapore 18 •	ina washing to the transmission -					Help of Route t
Create					Please enter the Route	Q Ø :
ID/Name	Туре	Network	Associated sub	Creation time	Tags T	Operation
Firewall routing_Do not delete or modify 🎤	Custom table	BADC	1	2023-01-12 16:43:19	0	Delete More 🔻
NAT security gateway routing_Do not delete or modify	Custom table	willing	1	2023-01-12 15:01:39	\bigtriangledown	Delete More 🔻
default	Default route table	B VPC	2	2022-09-20 10:32:35	\bigcirc	Delete More 🔻
Total items: 3				20 •	/ page 📕 🖣 1	/ 1 page

7. Repeat the previous actions and add firewall route entries.

Step 3. Verifying the Firewall

- 1. For information about accessing traffic logs, see Log Audit.
- 2. For information about verifying the intrusion defense configuration, see Log Audit.
- 3. Configure private network rules and ensure they are hit normally.

Now the firewall should work properly. For detailed route solutions, or if you have any other questions, please submit a ticket.

CCN Mode

Last updated : 2023-11-28 20:27:56

Step 1. Creating an Instance with Custom Route

Create an instance as instructed by Creating Inter-VPC Firewalls. Select Custom route for the route mode.

Step 2. Configuring the Forwarding Route

This is to forward the traffic going to the VPC where the customer service is deployed to the firewall instance through the firewall gate.

1. Go to the console where you associate a CCN instance to the created inter-VPC firewall instance and view the CCN instance details.

2. Make sure that the firewall VPC and related route tables have been created. If not, wait until they are prepared or submit a ticket.

3. Open the route table page and select the service VPC and firewall VPC to connect.

Notes

To give a clear illustration, take Beijing-based service VPC-A, Chongqing-based service VPC-B and Beijing-based firewall VPC-BJFW as examples.

detault_rtb	the management of the	jjr Expand 🗸				
	Route reception policy	Route Bind	linstance			
CLUB FAIR R -	Enable routing C			Separate keywor		re filter tags Q
wall VPC ro	Destination	Status 🛈 🔻	Next hop T	Next hop region	Update at	Enable routing
	Print Land	Valid	VPC -SingaporeFW	Singapore	2023-07-08 16:39:22	
	101331918415	Valid	PVP©∺A	Singapore	2022-10-12 15:25:26	
	In the first	Valid	-VPC-C	Toronto	2022-10-14 16:08:19	
	H	Valid	VPC-B	Токуо	2022-10-13 09:23:56	

4. Go to **VPC** > Route Table and select the firewall VPC to connect. There are two route tables available, one used for the firewall VPC and that cannot be modified, the other named "default". Select the route table named "default" to edit.

Route table Singapore •	NUMBER OF THE STREET	(fingter)				Help of Route
Create					Please enter the Route	QØ
ID/Name	Туре	Network	Associated sub	Creation time	Tags T	Operation
Dedicated firewall VPC routing table_Do not delete or modify	Custom table	VPC-SingaporeFW Dedicated firewall VPC Do not delete or modify	1	2023-07-08 16:39:23	0	Delete More 🔻
default	Default route table	VPC-SingaporeFW Dedicated firewall VPC Do not delete or modify	0	2023-07-08 16:38:49	\bigtriangledown	Delete More 🔻

5. Click Add routing policies. The policies you add can direct the next hop of the service VPC to the firewall.

4	Details of 11.1	1 7					Help	o of Route
Basi	c information	Associated subnets						
	Basic information	on						
	Route table name	default 🧨		Network	VPC-Singap@edivated fire	wall VPC Do not delete or modify)		
	Route table ID	adde		Tags	No tags found. 🌶			
	Region	Southeast Asia (Singapore)		Creation time	2023-07-08 16:38:49			
	Туре	Default route table						
	Add route polic	y Export Enable Disal	ole				Destination address	Q
	Destination	Next hop type T	Next hop	Remark	Enable routing	Route status in CCN	Operation	
		LOCAL	Local	Delivered by default, indicate that CVMs in the VPC are interconnected.	25	Published	Withdraw from CCN	

6. Enter the CIDR of the service VPC for **Destination**, and select **High availability virtual IP** for **Next hop type**, and **Firewall gateway ID** for **Next hop**. **Notes** is optional.

Destination	Next hop type	Next hop	Remark	Operation
V₽@-A 10.0.0.0/16	High availability virtual IP	Firewall Net Gateway ID	 Redirect traffic to firewall route 	r fc 🛛 😣
VPC ≓B 10.0.0.0/16	High availability virtual IP	Firewall Net Gateway ID	▼ Redirect traffic to firewall route	r fc 🛛 🛞
₩₽₫-€ 10.0.0/16	High availability virtual IP	Firewall Net Gateway ID	 Redirect traffic to firewall route 	r fc 🛛 😵

Notes

If you see the message "The specified CIDR forms ECMP", disable related routes in the default route table first.

7. Publish the newly added routing policies to CCN. For more details, see Managing Routing Policies. After that, these policies can be viewed in the default routing table in the corresponding CCN instance.

Notes

A new routing policy will override the original one.

Basic information	n						
Route table name	default 🧨			Network	VPC+SingeporeF	📲 II VPC Do not delete or modify)	
Route table ID				Tags	No tags found. 🖋		
Region	Southeast Asia (S	ingapore)		Creation time	2023-07-08 16:38:49		
Туре	Default route table	3					
Add route policy	Export	Enable Disable					Destination address
Destination		Next hop type 🔻	Next hop	Remark	Enable routing	Route status in CCN	Operation
1300 825		LOCAL	Local	Delivered by default, indicate that CVMs in the VPC are interconnected.	s	Published	Withdraw from CCN
4+1++)		Cloud Connect Network	多表路由云联网				Publish to CCN
445 164 2845	ş.	Cloud Connect Network	多表路由云联网				Publish to CCN
111253184	1	Cloud Connect Network	多表路由云联网				Publish to CCN
VPC+Air	1	High availability virtual IP	Dedicated firewall HAVIP_Do not delete or modify	Redirect traffic to firewall router for deployment		5	Edit Delete ublish to (
VPC-B		High availability virtual IP	Dedicated firewall HAVIP_Do not delete or modify	Redirect traffic to firewall router for deployment		a.	Edit Delete Publish to (
VPC-C		High availability virtual IP	Dedicated firewall HAVIP_Do not delete or modify	Redirect traffic to firewall router for deployment		÷	Edit Delete Publish to (

Step 3. Creating a Route Table to Connect Service VPCs

The purpose is to build connectivity between firewall networks and customer networks.

1. On the CCN page, create a route table for each service VPC.

Create route table		Help docum
_default_rtb	Details of states a second state? Expand second s	
	Enable routing Disable routes	Separate keywords with " "; press Enter to separate filter tags Q Ø 🛓
Dedicated fir ewall VPC ro ≠ 匝 uting table	Destination Status 🚯 🏹 Next hop 🍸	Next hop region Update at Enable routing
VPC-A 📷		No data yet
Singapore 🖍 🔤	Total items: 0	10 🔻 / page 🛛 🖌 🔺 1 👘 / 1 page 🕨 🕅
VPC-C		
VPC-B Tokyo		

2. Adjust the route reception policy. In the **Route reception policy** tab under the route table of a service VPC, click **Add network instance** to add its associated VPC instance and interconnected VPC instance.

Important

VPC instances associated with route tables and those unprotected by the firewall must be added first.

Example: Assuming that VPC-C is the service VPC unprotected by the firewall instance, you should first add VPC-A and VPC-C to the route table of VPC-A. Repeat the above operations and then add VPC -BJFW.

ase select (3 in	total)					Selected (1 in total)			
)/Name				Q		ID/Name			
nstance ID/	Instance type	Account	Region			Instance ID	Instance type	Account	Region
innini Serverati	Virtual Private Cloud	My account	Singapore	F		₩ XAC-B	Virtual Private Cloud	My account	Tokyo
$ \begin{bmatrix} y \\ y \\ z \end{bmatrix} (x_{1} (x_{1} + z)) , \\ \vdots \\ x_{1} (x_{1} + z) \\ \vdots \\ z \\ z \end{bmatrix} $	Virtual Private Cloud	My account	Toronto	F	\leftrightarrow				
filens Trin 7	Virtual Private	My account	Singapore	•					

3. Make sure that each VPC has route entries configured properly within its route table.

4. Bind network instances. In the **Bind instance** tab under the route table of a service VPC, click **Bind network instance** to bind network instances to the route table. After that, the network traffic will be directed to the firewall. **Important**

Be sure to set the routes properly before binding the route table.

Step 4. Verifying the Firewall

- 1. For information about accessing traffic logs, see Log Audit.
- 2. For information about checking intrusion defense, see Log Audit.

Important

In the **Custom route** mode, the protection mode set in Intrusion Defense cannot be adjusted individually.

3. Configure internal rules and check whether they are hit normally.

Now the firewall should work properly. If your network structure is too complex or involves the application of Direct Connect, get a route solution by submitting a ticket. For further questions, contact us in the same way.

Firewall Engine Upgrade

Last updated : 2024-11-01 10:37:54

The NAT Firewall and the Inter-VPC Firewall are privately deployed, with their engines exclusively owned by tenants. Therefore, users need to manually update engines. The following is the upgrade operation guide.

Querying the Firewall Instances That Can Be Upgraded

1. Log in to the CFW Console, and choose Firewall Toggles > NAT firewalls/Inter-VPC firewalls in the left sidebar.

2. On the firewall instance page, click Engine Update to check the latest version of the engine and the instances that can be upgraded.

Cloud Firewall	Firewall toggles
Overview	Edge firewalls Inter-VPC firewalls
E Firewall Toggles	Monitoring Last 7 days
Management & Monitoring	Peak bandwidth in Peak bandwidth out
Asset Management	449.91 Kbps 37.3 Mbps
Alert Management	武
Traffic Monitoring	
Security Policies	Network topology Firewall instance Firewall toggles
	() The NAT boundary firewall (ID: cfwnat-5b5a3ba3) at 2024-09-25 16:55:00 detected that the EIP (129.226.181.219) is inacces
TINTING THE INTERNATION OF THE I	
Network Honeypots	Create instance Update engines Sync assets Sync routes

3. The latest stable version will be selected by default. If there are firewall instances that can be upgraded, the upgrade options below will become available.

Firewall Engine Version Update	[S	0	•	Φ	>
Version information: [Stable Version	ion]cfw_v4.3.2.1	230 New			
Release time: 2024-10-16 20:08:36					
Version Update Description:					
1. [Optimization] Fixed some defects.					
This update applies to NAT firewalls and	nter-VPC firewalls.	For more version update in	formation, please visit Er	gine Updates .	
		·			
One-Click Upgrade No fire	wall instances avail	able for upgrade			
After selection, you can upgrade	the regionally upgra	deable firewall instances to	the selected version with	one click.	
Custom Upgrade No firewa	III instances availab	le for upgrade			
You can customize the selection of	of instances to upgr	rade to the selected version			
Dellheek te euwent uswier		0.0			
	You currently ha	ive 2 firewall instances that	can be rolled back to the	current version	<i>.</i> .
You can customize the instance s being unavailable. Click to selec	election to rollback t	to the selected version. Ple	ease note that rolling back	may result in so	me teature
Upgrade process may take several minut	es, during which the	e firewall switches and rules	s cannot be operated		
			The second se		

4. You can also check the specific instance's engine version and whether it can be upgraded.

Click Instance ID or Configuration of the target firewall to enter the firewall instance details page.

Network topo	blogy Firewall instance	Firewall toggles			
Create instance	ce Update engines	Sync assets Sync routes		Separate keywords with " "; press Enter to separate filter tags	Q,
Instance ID	e7a	Region Singapore	Deployed rules	25 / 5000 rulesConnected subnets 2	Configurat
Instance nam	e ; 🌶	Egress public Multiple (1)	Peak bandwidth in	0.00 / 20 Mbps	Monitoring
Mode	Je	Private IP Multiple (4)	Peak bandwidth	0.00 / 20 Mbps	More 🔻

5. Compare the current engine version with the version list provided in Engine Release Notes to determine whether the upgrade is available. If the upgrade is available, a

mark will appear on the right side of the engine version.

Firewall instance	试	▼		Network topology	Adjust 🛞 🔢 🗘 …
Instance ID Instance name Egress public IP Private IP	* Multiple(4)	Addition Mode 🕕	Quota (20	i) Mbps	50000 Published rules: 25
Public domain name	-				
Region	Southeast Asia(Sing Singapore Zone 1 (S	apore), Singapore Zone 1 (Primary) , econdary)			
Engine version	cfw_v4.3.2.1230	0 1			
Port forwarding	Egress rules	Access VPC and public IP	Rate limiting	Secondary route	
Access VPC				Associated EIPs	
Add VPC	Select VPC again			Bind 1 to 8 EIPs	
ID/name	IPV4 CIDR	DNS	DNS traffic	IP	Operation
					Unbind
Total items: 1		10 V / page 14 4 1	/1 page	+ Bind an EIP + Bind secondary EIP	

Upgrading the Firewall Engine Version

1. See the previous section to enter the engine upgrade page, and select the engine version you want to upgrade at the indicated location.



Note:

The preview version is the latest engine version, which includes the latest features and bug fixes. The stable version has been verified for long-term stability in the production environment and generally lags behind the preview version by one major version.

We recommend that you promptly update the engine to the latest stable version. For details about the version, see Engine Release Notes.

Firewall Engine Version Update	[Stable Version]cfw_v4.3.2.1230	•	¢	>
laurian information. IStable Var	Please enter version information.	Q		
Pelease time: 2024_10_16 20:08:36	[Preview Version]cfw_v4.4.0.1260	2024-10-16 20:08:36		
telease time: 2024-10-16 20:08:36	[Stable Version]cfw_v4.3.2.1230	2024-10-16 20:08:36		
	[Stable Version]cfw_v4.3.0.1197	2024-09-12 17:36:34		
	[Stable Version]cfw_v4.1.2.1092	2024-09-12 17:36:34		
ersion Update Description:				
[Optimization] Fixed some defects				
One-Click Upgrade No fire	ewall instances available for upgrade			
After selection, you can upgrade	the regionally upgradeable firewall instance	es to the selected version with c	one click.	
Custom Upgrade No firewa	all instances available for upgrade			
You can customize the selection	of instances to upgrade to the selected ver	sion.		
Rollback to current version	You currently have 2 firewall instances t	hat can be rolled back to the c	urrent version	
Rollback to current version You can customize the instance s being unavailable. Click to select	You currently have 2 firewall instances t selection to rollback to the selected version. ot	hat can be rolled back to the c Please note that rolling back n	urrent version nay result in some	featur
Rollback to current version You can customize the instance s being unavailable. Click to select Jpgrade process may take several minu	You currently have 2 firewall instances to selection to rollback to the selected version. ot tes, during which the firewall switches and response to the selected version.	hat can be rolled back to the c Please note that rolling back n rules cannot be operated	urrent version nay result in some	featur
Rollback to current version You can customize the instance s being unavailable. Click to select Jpgrade process may take several minur After the upgrade is complete, the status	You currently have 2 firewall instances t selection to rollback to the selected version of tes, during which the firewall switches and re of switches and rules will be automatically	hat can be rolled back to the cl . Please note that rolling back n rules cannot be operated restored	urrent version nay result in some	featu

One-Click Upgrade: After you select this option, firewall engine instances of the current version in all regions will be automatically identified and upgraded to the selected version.

Custom upgrade: You can manually select instances you want to upgrade. Click **Click to****Select/Select Instance** to enter the instance selection page.



Firewall Engine Version Update	[Preview Version]cfw_v4.4.0.1260	•	φ	
Version information: [Preview Ver	rsion]cfw_v4.4.0.1260			
Release time: 2024-10-16 20:08:36				
Version Update Description:				
1. [Optimization] Fixed some defects.				
This undate annlies to NAT firewalls and	Inter-VPC firewalls. For more version undate infor	mation please visit En	aine Undates	
			gine opuates .	
One-Click Ungrade Vou o	irrently have 3 firewall instances that can be uppr	aded to the current ver	sion	
After selection, you can upgrade	the regionally upgradeable firewall instances to th	e selected version with	one click	
,				
Custom Upgrade You curre	ently have 3 firewall instances that can be upgrade	ed to the current version	n	
You can customize the selection	of instances to upgrade to the selected version.	Click to select		
Rollback to current versior	The selected engine version is newer, and the	re are no firewall instan	ces available for	rollback.
You can customize the instance s being unavailable.	election to rollback to the selected version. Pleas	e note that rolling back	may result in so	me featur
Jpgrade process may take several minut	tes, during which the firewall switches and rules c	annot be operated		
After the upgrade is complete, the status	of switches and rules will be automatically restore	ed		

Uei				
i	The list only includes firewall ins make adjustments, please go ba	tances that support upgr ack and modify the engin	ading or rolling back to the selected e version.	engine version. If you need to
	Firewall instance ID/name	Region	Firewall type	Instance Version/Last U
		Hong Kong	NAT firewalls	cfw_v4.4.0.1260 2024-10-17 11:04:45
		Singapore	NAT firewalls	cfw_v4.3.2.1230 2024-10-16 20:55:08
		Singapore	NAT firewalls	cfw_v4.3.2.1230 2024-10-16 20:55:08
	1.00	Hong Kong	Inter-VPC firewalls	cfw_v4.4.0.1260 2024-10-17 11:04:43
		Singapore	Inter-VPC firewalls	cfw_v4.3.2.1230 2024-10-16 20:55:05

Total: 5; Selected: 1

4. Click **Confirm Upgrade** to initiate the upgrade task.

Note:

The upgrade may take several minutes during which the firewall switch and rules cannot be configured. After the upgrade is completed, the status of the switch and rules will be automatically recovered.

During the upgrade, the secondary machine will be upgraded first, followed by the primary machine. In addition, a primary-secondary switch operation will be triggered, which may cause slight network jitter, but the service will not be interrupted.

Scheduling the Upgrade Time

1. After Steps 1 and 2 in the previous section are completed, click **Select appoir** at the indicated location.



	[Preview Version]cfw_v4.4.0.1260	▼	
Version information: [Preview Ver	rsion]cfw_v4.4.0.1260		
Release time: 2024-10-16 20:08:36			
Version Update Description:			
1. [Optimization] Fixed some defects.			
This undets applies to NAT firstually and	Inter VIDC firewalls. For more version undets information	plagas visit. Engine Undetes	
		, please visit Engine opuates .	•
One Click Ungrade Value	wanth, bays 2 firewall instances that can be unavailed to	the automatica	
One-Click Upgrade You cu	irrently have 3 firewall instances that can be upgraded to	the current version	
One-Click Upgrade You cu After selection, you can upgrade t	urrently have 3 firewall instances that can be upgraded to the regionally upgradeable firewall instances to the selec	the current version	
One-Click Upgrade You cu After selection, you can upgrade	urrently have 3 firewall instances that can be upgraded to the regionally upgradeable firewall instances to the selec	the current version	
One-Click Upgrade You cu After selection, you can upgrade Custom Upgrade You curre Selected 1 instance Select again	urrently have 3 firewall instances that can be upgraded to the regionally upgradeable firewall instances to the select ently have 3 firewall instances that can be upgraded to the	the current version eted version with one click.	
One-Click Upgrade You cu After selection, you can upgrade Custom Upgrade You curre Selected 1 instance Select again	urrently have 3 firewall instances that can be upgraded to the regionally upgradeable firewall instances to the select ently have 3 firewall instances that can be upgraded to the	the current version eted version with one click.	
One-Click Upgrade You cu After selection, you can upgrade Custom Upgrade You curre Selected 1 instance Select again	urrently have 3 firewall instances that can be upgraded to the regionally upgradeable firewall instances to the select ently have 3 firewall instances that can be upgraded to the	o the current version eted version with one click.	
One-Click Upgrade You cu After selection, you can upgrade Custom Upgrade You curre Selected 1 instance Select again Rollback to current version	urrently have 3 firewall instances that can be upgraded to the regionally upgradeable firewall instances to the select ently have 3 firewall instances that can be upgraded to the n The selected engine version is newer, and there are r	the current version eted version with one click.	or r
One-Click Upgrade You cu After selection, you can upgrade Custom Upgrade You curre Selected 1 instance Select again Rollback to current version You can customize the instance s being unavailable.	urrently have 3 firewall instances that can be upgraded to the regionally upgradeable firewall instances to the select ently have 3 firewall instances that can be upgraded to the n The selected engine version is newer, and there are reselection to rollback to the selected version. Please note	the current version eted version with one click. The current version the firewall instances available for that rolling back may result in s	or n
One-Click Upgrade You cu After selection, you can upgrade Custom Upgrade You curre Selected 1 instance Select again Rollback to current version You can customize the instance s being unavailable.	urrently have 3 firewall instances that can be upgraded to the regionally upgradeable firewall instances to the select ently have 3 firewall instances that can be upgraded to the n The selected engine version is newer, and there are reselection to rollback to the selected version. Please note	the current version eted version with one click. The current version the firewall instances available for that rolling back may result in s	or r
One-Click Upgrade You cu After selection, you can upgrade Custom Upgrade You curre Selected 1 instance Select again Rollback to current version You can customize the instance s being unavailable.	urrently have 3 firewall instances that can be upgraded to the regionally upgradeable firewall instances to the select ently have 3 firewall instances that can be upgraded to the main The selected engine version is newer, and there are re- selection to rollback to the selected version. Please note tes, during which the firewall switches and rules cannot be	the current version eted version with one click. ne current version no firewall instances available for that rolling back may result in s be operated	or r
One-Click Upgrade You cu After selection, you can upgrade Custom Upgrade You curre Selected 1 instance Select again Rollback to current version You can customize the instance s being unavailable. Upgrade process may take several minut After the upgrade is complete, the status	urrently have 3 firewall instances that can be upgraded to the regionally upgradeable firewall instances to the select ently have 3 firewall instances that can be upgraded to the main The selected engine version is newer, and there are reselection to rollback to the selected version. Please note tes, during which the firewall switches and rules cannot be of switches and rules will be automatically restored	the current version ted version with one click. ne current version no firewall instances available for that rolling back may result in s	or n
One-Click Upgrade You cu After selection, you can upgrade Custom Upgrade You curre Selected 1 instance Select again Rollback to current version You can customize the instance s being unavailable. Upgrade process may take several minut After the upgrade is complete, the status	arrently have 3 firewall instances that can be upgraded to the regionally upgradeable firewall instances to the select ently have 3 firewall instances that can be upgraded to the main The selected engine version is newer, and there are re- selection to rollback to the selected version. Please note tes, during which the firewall switches and rules cannot the of switches and rules will be automatically restored	the current version ted version with one click. ne current version no firewall instances available for that rolling back may result in s be operated	or r
One-Click Upgrade You cu After selection, you can upgrade Custom Upgrade You curre Selected 1 instance Select again Rollback to current version You can customize the instance s being unavailable. Upgrade process may take several minut After the upgrade is complete, the status	urrently have 3 firewall instances that can be upgraded to the regionally upgradeable firewall instances to the select ently have 3 firewall instances that can be upgraded to the methy h	 b the current version cted version with one click. ne current version no firewall instances available for that rolling back may result in s be operated 	or r
One-Click Upgrade You cu After selection, you can upgrade Custom Upgrade You curre Selected 1 instance Select agair Rollback to current version You can customize the instance s being unavailable. Upgrade process may take several minut After the upgrade is complete, the status	arrently have 3 firewall instances that can be upgraded to the regionally upgradeable firewall instances to the select ently have 3 firewall instances that can be upgraded to the main of the selected engine version is newer, and there are re- selection to rollback to the selected version. Please note tes, during which the firewall switches and rules cannot be of switches and rules will be automatically restored	 b the current version cted version with one click. ce current version no firewall instances available for that rolling back may result in some operated 	or n

Enter the corresponding firewall instance page, where you can view the scheduled upgrade task in the indicated engine version area. You can click **Cancel appoir** or re-execute the engine upgrade operation to cancel the schedule.



Firewall instance	i t	▼		Network topology	Adjust 🛞 📊 🗘 🚥
Instance ID		Addition Mode (i)	Quota 🤅)	
Instance name	ľ		20	/bps	5000
Egress public IP	1.00			nopo	Published rules: 25
Private IP	Multiple(4)				
Public domain name	-				
Region	Southeast Asia(Sing	gapore), Singapore Zone 1 (Prima	ary),		
	Singapore Zone 1 (Secondary)			
Engine version	cfw_v4.3.2.1230	10			
Port forwarding	Egress rules	Access VPC and publi	c IP Rate limiting	Secondary route	
Access VPC				Associated EIPs	
Add VPC	Select VPC again			Bind 1 to 8 EIPs	
ID/name	IPV4 CIDR	DNS	DNS traffic	IP	Operation
				$\mathbf{u} = \mathbf{u}$	Unbind
				+ Bind an EIP	

Alert Management Features Overview

Last updated : 2024-01-24 15:48:25

Alarm management presents the data of cyber attacks and risk events detected by the Intrusion defense and Security baseline modules. The data is divided into Attack alerts, Blocked attacks, and Honeypot events based on the action taken by CFW.

Attack alerts: all detected cyber attacks and risk events, which need to be blocked or ignored manually by users. Blocked attacks: all detected cyber attacks and risk events that are automatically blocked by the system. The data is used for subsequent audits and troubleshooting.

Honeypot events: all detected cyber attacks and risk events against probes and honeypots. You can set the system to block or allow such attacks and events.

Attack Alerts

Last updated : 2024-01-24 15:48:25

The **Attack alerts** module displays all monitored risk events and allows you to analyze and resolve all events detected by CFW.

Visual representation of attack alerts

1. Log in to the Cloud Firewall console. In the left navigation pane, click **Alert Management** -> **Attack alerts** to open the **Attack alerts** page.

2. In this module, you can analyze existing security alert events by **Opersonal assets** and **Otime range** (24 hours, 7 days, or a custom time range) with a graph. The left section displays the trend curve of recent security events, with the x-axis indicating time and the y-axis indicating the number of alerts at each point in time. In addition, you can view the statistics about compromised servers, pending events, network scans, and exploit attacks. The right section displays the list of the top 10 IPs with the most attack alerts so that you can take early action to prevent attacks of those IPs.

tack alerts Blocked atta	cks Honeypot events			2
assets 💌	1			24 hours 7 days 2022-05-18 00:00:00 ~ 2022-11-14 16:59
Attack alerts				Top 10 Most Alerted IPs
Compromised servers	Pending events (i)	Network scan detection	Vulnerability exploits	
4	4	O times	38	1034
1				538
0.8				427
0.4				414
0.2				307

Attack alert list

In this module, you can analyze alert events under different **①** event types, **②** batch resolve events, **③** filter events by conditions, and **④** specify custom keywords.

		Reconnaissance		Brute force	Delive	ry	Exploit (3		Comm	nand & control	Lateral moveme	ents (1)	Server	compron	nised
l	Batch b	lock Open	2 Ignore	Not resolved 3.]					Separate	keywords with " "; pres	ss Enter to separate f	ilter tags	3) Q	φ
	V	Attack type ¥	3 Severi	Y Access source	e (Extern Source P	ort Access of	destination (Mi D	estination	Pr T Od	ccurrence time ↓	Source T	Alert counts \$	0	peration	n (i)
	•		High)	3 HTTP 20	022-11-08 15:50:18	3 Virtual Patch	2	B	lock Inore	Open
	• 🔽		High						HTTP 20	022-11-08 15:50:15	Virtual Patch	2	B	lock Inore	Open
	÷ ۲		High						HTTP 20	022-11-08 15:50:13	Virtual Patch	2	B	lock Inore	Open

- ① Alert event type
- ② Batch resolve events
- ③ Filter events by conditions
- ④ Specify custom keywords

Click the tabs in the area marked "①" to view the details of the alerts of different types.

Note

The relevant security event types are displayed only after you configure the security policies required by CFW in Intrusion defense, and Security baseline.

You can click **Block all** for all selected events, or **Allow** or **Ignore** them in batch mode.

Note

These buttons are only available when one or more events are selected.

Select values from the drop-down lists marked "③" to filter the alert events. The following capabilities are supported: View the information of unresolved, blocked, allowed, and ignored alert events.

Filter alert events by severity.

Filter alert events by security event type, protocol, and source.

Filter events by keywords.

Click the icon marked "⁽⁴⁾" to specify custom keywords. A maximum of 10 keywords are allowed.

Display settings			
Attack type	Severity level	Access sourc	Source Port
Access destin	Destination port	Protocol	Cccurrence time
Source	 Alert counts 		
		O	K Cancel
event details			

Click

Q.

next to a malicious IP to filter out all security events of that IP under the current type.

Batch	block Open	Ignore Not re:	solved v					[Separate keywords with " "; p	ress Enter to separate filter t	ags Q ¢	þ
	Attack type T	Severi T	Access source (Extern	Source Port	Access destination (Mi	Destination	Pr ▼	Occurrence tim	e↓ Source ▼	Alert counts \$	Operation (i))
•		High	Q				HTTP	2022-11-08 15:5	D:18 Virtual Patch	2	Block Oper	n

Click

on the left to view the details of an event.

Note

You need to purchase CWPP to use the enhanced detection features of CWPP.



	Attack type T	Severi T	Access source (Extern	Source Port	Access destination (Mi	Destination	Pr T	Occurrence time \$\$	Source T	Alert counts \$	Operati	on 🛈
•		High					HTTP	2022-11-08 15:50:18	Virtual Patch	2	Block	Open
	Public network access target					Firewall i	nstance ID					
	Public network destination port					Firewall i	nstance name					
	Hit rule					Asset typ	De					
	Rule description					Instance	ID					
						Instance	name					
	Location					Asset reg	gion	Singapore				
	payload information					Asset de	tails	Click here for details				
		Details										
	Thread profile	Click here f	or details									

Click Learn more to view the threat profile.

ŀ	ligh	НТТР	2022-11-08 15:50:18	Virtual Patch 2	Block
Public network access target		Firewall instance ID			
Public network destination port		Firewall instance name			
Hit rule		Asset type			
Rule description		Instance ID			
		Instance name			
Logation		Asset region	Singapore		
pavload information		Asset details	Click here for details		
poplana mananan					
	Details				

Click Block, Allow, or Ignore on the right to resolve alert events individually.

Note

The following operations also apply to batch processing and events for other types of IPs.

To modify your operation, undo the operation in Intrusion defense -> Blocklist.

Attack type T	Severi Y	Access source (Extern	Source Port	Access destination (Mi	Destination	Pr T	Occurrence time \downarrow	Source T	Alert counts \$	Operation (i)
•	High					HTTP	2022-11-08 15:50:18	Virtual Patch	2	Block Open

Block: For security events with a higher severity or a larger number of alerts, click **Block** to add the IP to the blocklist in Intrusion defense. CFW automatically blocks that IP from accessing all of your assets within the specified period.



Allow: For repeated or possible false alerts, you can click **Allow** to add the IP to the allowlist in Intrusion defense. CFW allows traffic from the IP by skipping attack detection for the IP in Intrusion defense within the specified period.



Ignore: If you do not want to take action on an alert, click **Ignore**. The log is not deleted. You can view the log in the list of ignored alerts.

Ignore the	Ignore the selected alert events $\qquad \qquad \qquad$										
Ignored alerted events are not displayed in the alert list and not counted to the statistics. But the logs are not deleted. No alerts are triggered if the same event happened again. You can check details in the "Ignored" list. This operation cannot be undone.											
Alert event	1 event(s) selected										
	ОК	Cancel									

Blocked Attacks

Last updated : 2024-01-24 15:48:25

The **Blocked attacks** module presents all the security events blocked by CFW based on configured rules and threat intelligence, and allows you to analyze and resolve all blocked attacks.

Visual representation of blocked attacks

1. Log in to the Cloud Firewall console. In the left navigation pane, click **Alert Management** -> **Blocked attacks** to open the **Blocked attacks** page.

2. In this module, you can analyze existing security alert events by **① personal assets**, **② region**, and **③ time range** (24 hours, 7 days, or a custom time range) with a graph. The left section displays the trend curve of recently blocked events, with the x-axis indicating time and the y-axis indicating the number of blocked attacks at each point in time. In addition, you can view the statistics about blocked malicious outgoing access, attacks blocked by blocklist, blocked brute-force attacks, and exploit attacks. On the right, you can view the ranking of blocked events by blocked IP, geographic location, and destination port.

Note

This page is automatically refreshed at an interval. You can set **Auto refresh rate** to **30s** or **60s**.

I assets	All regions China	Outside China	24 1	3 nours 7 days	2022-11-02 20:44:43 ~ 2022-11-09 20:44
Blocked attacks	Disclored by the bischilist	Diali hwita faraa attacka	Vuleanekilia avalaita	Blocked IPs	Location Destination por
requests				_	
0 times	09	U times	U times	Blocking hist ranking Last bloc	ked Blocking statistics
5				Blocking	frequency
4 3 2			A	Page refresh frequency	O 30 seconds O 60 seconds
1				Blocking frequency	
11-02 22:00 11-04 0	4:00 11-05 10:00	11-06 16:00 11-07 22:00	0 11–09 04:00	statistics	O minute(s) hour day(s)

List of blocked attacks

Blocked events are divided into Inbound, Lateral movements, and Outbound based on the traffic direction.

Inbound Outbour	nd								3	(4)
Open all 1 Block	Ignore A	All policies	✓ All statuses	• 2	Separate keywor	rds with " "; press Ente	er to separate filter	tags C	a ¢ ⊚ []	Asset vie
Access source	Devis	Acces	s destination		Real-time blocking	Real-time blocking statistics36			ense: Block	Pin to top
Location Mose	Location Moscow,Hussia Destination pont				Avg. blocked frequency0/ minute(s)					Open More ▼

- 1) Batch resolve events
- ② Filter events by conditions
- 3 Full-screen display
- ④ Switch view

You can click **Block all**, **Block**, or **Ignore** for selected events.

Note

These buttons are only available when one or more events are selected.

Select values from the drop-down lists marked "2" to filter blocked events. The following capabilities are supported: Display blocked events by intrusion defense policy and resolution status.

Sort blocked events by blocking time, blocking statistics, and average blocking frequency.

Record blocked events at a frequency of minutes, hours, or days.

Filter events by keywords.

Click

to switch to the full-screen display mode. Click

to switch back to the original display mode. Click **Asset view** or **Event view** to switch between the two views.

Asset view

In this view, the blocked events from the same access source are displayed based on attacker assets.

You can click the IP of the access source on the left to view the threat profile.


Access source	Access destination	Real-time blocking statistics38	Courses	Intrusion defense: Block	Pin to to
Location Moscow,Russia	Destination port	Last blocked 2022-11-10 06:55:19	Source	List	Open
	Asset name	Avg. blocked frequency0/ minute(s)			More •
			J		

Click **Pin to top** or **Allow**, or click **More** -> **Quarantine**/**Block**/**Ignore** on the right to pin, allow, quarantine, block, or ignore an IP.

Note

The available buttons on the right vary depending on the state of the assets.

The following operations also apply to batch processing and event view.

To modify your operation, undo the operation in Intrusion defense -> Blocklist.

	Access destination	Access source	Real-time blocking statistics52	Courses	Intrusion defense: Threat	Pin to to
	Destination port	Asset name	Last blocked 2022-11-11 11:58:55	Source	Intelligence	Open
	Location China		Avg. blocked frequency0.05/ minute(s)			More •
						Quarantine
-						Block
	Access destination	Access source	Real-time blocking statistics17	Courses	Intrusion defense: Threat	Ignore
	Destination port	Asset name	Last blocked 2022-11-11 11:57:49	Source	Intelligence	Open
	Location Noord-Holland,Netherlands		Avg. blocked frequency0.02/ minute(s)			More T

Pin to top/Unpin: You can pin or unpin assets. Note: A maximum of 5 items can be pinned for **Outbound** or **Inbound**.

Allow: Click **Allow** for an IP that does not need to be blocked. Then, select **Reason** and **Validity**. Within the selected validity period, the IP is in the access control allowlist and is not blocked. If you are not certain about whether the reason is "false positive", you can select **Allow for emergency**, and modify it later if necessary.



Quarantine: Click **Quarantine**. When an asset instance is quarantined, the system automatically publishes the blocking rule for enterprise security groups to block network access to the selected asset in the specified blocking direction. This makes the subsequent troubleshooting easy and prevents the asset from being attacked.



Block: For assets with a high threat level, click **Block**. Then, specify a validity period to add the IP to the blocklist in Intrusion defense. CFW automatically blocks that IP from accessing all of your assets within the specified period.



Ignore: For repeated or possible false alerts, you can click **Ignore**. The ignored alert events are not included in the alert list and statistics, but their logs are retained. You are no longer notified of the ignored alert events when they trigger alerts again. You can select **Ignored** in the list to view all the ignored events. **The ''Ignore'' operation is irreversible**.



Event view

For more information about operations in this view, please see Attack alerts - Event details.

Honeypot Events

Last updated : 2024-01-24 15:48:25

The **Honeypot events** page records the scans and attacks on all probes and honeypots and presents the data in a graph and list so that you can analyze and resolve all blocked events.

Visual representation of honeypot events

1. Log in to the Cloud Firewall console. In the left navigation pane, click **Alert Management** -> **Honeypot events** to open the **Honeypot events** page.

2. You can **①** select the probes to analyze, and analyze the data of selected probes based on **②Honeypot** attacker IP, **③Probe scan IP**, **④** Distribution of honeypot events and **⑤Time** (24 hours or 7 days). You can view the number of hit honeypots, the number of intrusion events, the number of network scans, and the number of attacker IPs for the selected or all probes within different periods.

Security alerts				
Attack alerts	Blocked attacks Honeypot events			5
All assets	1.		[24 hours 7 days 2022-11-02 00:00:00 ~ 2022-11-09 15:59:59
Honeypot resu	lt			Attacker IP Probe IP Distribution of honey
Hit honeypot	Intrusion events	Network scan detection	Attacker IPs	
4	0_{times}	12.302 к times	1.786 K times	2816 2371 2021
12000				1910
10000				1390
8000				1210
6000				973
4000				898
2000				896
11-02 00:00	11-03 08:00 11-04 16:00	11-06 00:00 11-07 08:00	11-08 16:00	

List of honeypot events

Log in to the Cloud Firewall console. In the left navigation pane, click Alert Management -> Honeypot events.
 On the Honeypot events page, honeypot events are divided into Intrusion events and Port detection, depending on whether the honeypots are attacked.

	Intru	sion e	events	Port detec	ction	Lateral movement	nts (Captured attacke	ers					(
	Bat	tch blo	ck	Open	Ignore	Not resolved 2		All honeypots	3 •	s	Separate keywords with " ";	press Enter to separat	e filter tags	Qφ
(1)		н т	Severi T	Acce	Source Port	Acce	Destination	Pr T	Occurrence time \downarrow	Attack T	Hit honeypot 🔻	Al \$	Operation (i)
	•		SSH	Low		Multiple (25)			TCP	First: 2022-11-09 14:50 Latest: 2022-11-09 15:3	9:41 39:36	SSH honeypot 测试ssh蜜罐	49	Block Open
	•		SSH	Low		Multiple (50)			TCP	First: 2022-11-09 14:25 Latest: 2022-11-09 15:3	5:27 39:25	SSH honeypot 测试ssh蜜罐	244	Block Open

You can perform the following operations in the list:

① Select **Block all** or **Allow all** for selected events. (The buttons are available only when one or more events are selected.)

^②Filter events based on the event status (whether the events have been resolved).

③Filter events based on the honeypot type.

④Specify custom keywords (4 to 10 keywords are allowed).

Operation Guide Alert Analysis and Handling

Last updated : 2024-01-24 15:48:25

This topic describes the operations in **Alert Management**. Log in to the **Cloud Firewall console** and open the **Alert** Management page, and then click **Attack alerts** to go to the **Attack alerts** page. On this page, you can view the trend chart of security events and the number of recent security events, and then adjust your defense policies to prevent attacks.

Filtering alert events

This section describes how to locate the alert events you want to view through filtering.

- ① Select the assets for which you want to view the alert events;
- ② Select the type of alert events.
- 3 Select whether to view unresolved events or resolved events;

④ Sort events in the order of occurrence time and the number of occurrences, or filter events by attack event type, severity, protocol, and source.

Security alerts					
Attack alerts Blocked att	acks Honeypot events				
All assets 💌	1			24 hours 7 days 2022-05-14	00:00:00 ~ 2022-11-10 11:59:59
Attack alerts				Top 10 Most Alerted IPs	
Compromised servers	Pending events ① O	Network scan detection O times	Vulnerability exploits 36		1454
0.8				427	727
0.4				414 385 307	
0 05–14 00:00 06–13 03:0	00 07–13 06:00	08–12 09:00 09–11 12:00	10–11 15:00	291	
Reconnaissance	Brute force	Delivery	2 Exploit	Command & control	Server compromised
Batch block Open	Ignore Not resolved	• 3	Sep	arate keywords with " "; press Enter to separa	ate filter tags Q 🗘 🌣
Attack Y Sever	ri 🔻 Access so Source	Port Access de Destination	on Pr T Occurre	ence time \downarrow 4 Source \intercal A	lert co \$ Operation (i)
▶ Pror	npt		TCP First: 20 Latest: 2	22-10-24 08:41:41 Basic Rule 2 2022-10-24 14:53:31 Basic Rule 2	7 Block Open
▶ Pror	npt		TCP First: 20 Latest: 2	22-10-24 13:14:50 2022-10-24 14:51:04 Basic Rule 5	Block Open Ignore

Note

To view all critical or high-risk events, select the level from the **@Severity** column and then view the events by clicking different types of **@alert events**.

You can also enter keywords in the search bar on the right to search for the events you need.

Resolving alert events

This section describes how to resolve alert events. For more information about how to filter alert events, please see "Filtering alert events".

Reconnaissance	Brute force	Delivery	Exploit (4)	Command & control	Lateral movements (1)	Server compromised
Batch block Open	3 Ignore Not resolv	ed 🔻		Separate keywords with	" "; press Enter to separate filter t	ags Q Ø
Attack T	Severi T Access so	Source Port Access de	. Destination Pr	C Occurrence time ↓	Source T Alert co	• O peration (i)
	High		80 HTTP	2022-11-08 15:50:18	Virtual Patch 2	Block Open Ignore
2 ▶ ☑	High		80 HTTP	2022-11-08 15:50:15	Virtual Patch 2	Block Open Ignore
•	High		80 HTTP	2022-11-08 15:50:13	Virtual Patch 2	Block Open
► []	High		80 HTTP	First: 2022-11-04 19:16:30 Latest: 2022-11-04 19:20:37	, Virtual Patch 15	Block Open

① You can click **Block**, **Allow**, or **Ignore** to resolve an alert.

Note

To modify your operation, undo the operation in Intrusion defense -> Blocklist.

Block: For security events with a higher severity or a larger number of alerts, click **Block** to add the IP to the blocklist in Intrusion defense. CFW automatically blocks access from this IP to all your assets within the specified period.



Allow: For repeated or possible false alerts, you can click **Allow** to add the IP to the allowlist in Intrusion defense. CFW allows traffic from the IP by skipping attack detection for the IP in Intrusion defense within the specified period.



Ignore: If you do not want to take action on an alert, click **Ignore**. The log is not deleted. You can view the log in the list of ignored alerts.

Caution

"Ignore" operation is irreversible.



⁽²⁾ Select multiple alert events in the area marked "⁽²⁾" on the left.

Note

To select alert events across pages, select the target events on the current page and then go to another page to select more events.

This applies to all multi-selection scenarios.

③ You can click **Block all**, **Allow**, or **Ignore** to batch resolve multiple events.

Searching for security events of an IP

This section describes how to search for all security events of an IP. Locate a security event of the IP of your interest, and click



to the right of the IP to list all security events of the IP.

High		DNS First: 2022-10 Latest: 2022-	0-14 12:33:59 10-14 12:34:08	Threat Inte	18	Block Quarantir
Public network access source		Firewall instance ID				
Public network source port		Firewall instance name				
Event details		Asset type				
		Instance ID				
Threat intelligence tags		Instance name				
Event description		Asset region	Singapore			
		Asset details	Click here for deta	ails		
Location	China					
payload information	-					
Thread profile	Click here for details					

Note

This applies to all the scenarios where you need to filter security events of IPs, regardless of the IP types.

Searching for security events of an asset

This section describes how to search for all security events of an asset.

Method 1: In the drop-down list in the upper-left corner of the view, select the target asset.

BIOCREU a					
assets 🔻				24 hours 7 days	s 2022-05-14 00:00:00 ~ 2022-11-1
ttack alerts				Тор 10 Мо	ost Alerted IPs
Compromised servers	Pending events (i) 0	Network scan detection O times	Vulnerability exploits 36	-	1034 808
0.8					538 427
0.4				-	414 365

Method 2: Locate a security event of your interest, and click

Т

to the right of the asset.

• =	High	Q	нттр	2022-10-18 15:50:18	Virtual Patch 2	Block Open
•	High		HTTP	2022-10-18 15:50:15	Virtual Patch 2	Block Open

Note

This applies to all scenarios where you need to view events by asset.

Viewing recent security events

To view the recent security events, select all assets and all sources, and then click the arrow to the right of **Occurrence time** to sort the security events in reverse chronological order. You can switch between different alert types by clicking the tabs on the top. For more information, see **Filtering alert events**.

В	ock Open	Ignore	Not resolv	ved v				Separate keywords with " "	press Enter to se	parate filter tags	Q Ø
	Attack T	Severi T	Access so	Source Port	Access de	Destination	Pr T	Occurrence time ↓	Source T	Alert co \$	Operation (i)
Þ		High					HTTP	2022-10-18 15:50:18	Virtual Patch	2	Block Open
Þ		High					HTTP	2022-10-18 15:50:15	Virtual Patch	2	Block Open

Blocked Attack Analysis and Handling

Last updated : 2024-01-24 15:48:25

This topic describes the operations in **Alert Management**. Log in to the **Cloud Firewall console**. In the Alert **Management** page, click **Blocked attacks** to open the **Blocked attacks** page. This page displays a trend chart of blocked attacks, blocked IPs, regions, and destination ports to help you analyze and protect your assets.

Filtering blocked attacks

This section describes how to find the blocked attacks you want to view through filtering.

- ① Select the assets and regions for which you want to view the blocked attacks;
- 2 Select Inbound, Lateral movement, or Outbound.
- ③ Select the intrusion defense policy and resolution status. You can filter the records by specifying Blocking history

ranking, Page refresh frequency, and Blocking frequency statistics.

Security alerts Attack alerts Blocked atta All assets	All regions China	Outside China	24 ho	urs 7 days	2022-05-13 17:06:39 ~ 2022-	11-09 17:06:39
Blocked attacks Block malicious outgoing requests 28	Blocked by the blocklist	Block brute-force attacks	Vulnerability exploits	Blocked IPs	E Location Desti	nation port
700 600 500 400 200 100 0 2022-05-13 2022-06-	14 2022-07-16	2022-08-17 2022-09-18	2022-10-20	Blocking his ranking Page refrest frequency Blocking frequency statistics	Last blocked Blo	cking statistics econds day(s)
Inbound Lateral movement Open atl Block Access source Location Hongkong Chir	ts Outbound	All statuses	Separate keywords with "I"; press Real-time blocking statistics174	Enter to separate filter Source	tags Q Ø Ø Intrusion defense: Virtual Patrob	Cancel Cancel Pin to top Open
Location Hongkong,Chir	Asset name	ort	Last blocked 2022-10-25 15:14:10 Avg. blocked frequency88.48/ minu	te(s)	Patch	Open More ▼

Note

The above describes the operations in the asset view. For more information about operations in the event view, please see **Filtering alert events**.

Resolving blocked attacks

1. This section describes how to resolve blocked attacks. For more information about how to filter blocked attacks, please see "Filtering blocked attacks".

Access source	Access destination Destination port Asset name	Real-time blocking statistics36 Last blocked 2022-11-09 19:26:55 Avg. blocked frequency0/ minute(s)	Source	Intrusion defense; Block List	Pin to top Open More ▼ Block
Access source:	Access destination Destination port	Real-time blocking statistics1 Last blocked 2022-11-09 18:59:27 Avg. blocked frequency0/ minute(s)	Source	Intrusion defense: Block List	Ignore Pin to top Open More ▼

Note

To modify your operation, undo the operation in Intrusion defense -> Blocklist, Allowlist, or Quarantined list.

2. On the **Blocked attacks** page, you can search for different assets and IPs by selecting **Inbound**, **Lateral movement**, or **Outbound**.

You can pin or allow the access source IPs that have been blocked in the inbound direction. For the allowed IPs, you can select **More** -> **Block** to block them if necessary.

Access source	Access destination Destination por Asset name	Real-time blocking statistics36 Last blocked 2022-11-09 19:26:55 Avg. blocked frequency0/ minute(s)	Source	Intrusion defense: Block List	Pin to top Open More ▼ Block
Access source	Access destination Destination port Asset name	Real-time blocking statistics1 Last blocked 2022-11-09 18:59:27 Avg. blocked frequency0/ minute(s)	Source	Intrusion defense: Block List	Ignore Pin to top Open More ▼

For the assets and IPs involving lateral movement attacks, you can view the blocking history here.



Inbound Lateral movements	Outbound			
Batch quarantine Open Ignor	All policies All statuses 	▼ Separate keywords with " "; press Enter to sep	parate filter tags Q Ø 🖸	Asset v
Access source	Access destination	Real-time blocking statistics54272	Intrusion defense: Virtual	Pin to to
Asset name	Destination port	Last blocked 2022-10-18 18:17:43	Patch	Quarant
	Asset name	Avg. blocked frequency3.47/ minute(s)		More v

You can pin, allow, quarantine, block, or ignore the assets/IPs blocked by the **Intrusion defense** module in the outbound direction.

Inbound Lateral movements Outbound						
Open all Quarantine Block Ignore	All policies All statuses	Separate keywords with " "; press	Enter to sepa	arate filter tags Q	¢ © []] Asset
Access destination	Access source	Real-time blocking statistics52	Source	Intrusion defense: Threat		Pin to top
Destination port	Asset name	Last blocked 2022-11-11 11:58:55	000100	Intelligence		Open
Location China		Avg. blocked frequency0.05/ minute(s)				More 🔻
					L [Quarantine
						Block
Access destination	Access source	Real-time blocking statistics17	Course	Intrusion defense: Threat		Ignore
Destination port	Asset name	Last blocked 2022-11-11 11:57:49	Source	Intelligence		Open
Location Amsterdam,Noord-Holland,Netherla		Avg. blocked frequency0.02/ minute(s)				More 🔻

3. You can perform the following operations on different assets/IP addresses:

Pin to top/Unpin: You can pin or unpin assets. Note: A maximum of 5 items can be pinned for **Outbound** or **Inbound**.

Allow: Click Allow for an IP that does not need to be blocked. Then, select **Reason**, **Direction**, and **Validity**. The IP will be in the allowlist in the **Intrusion defense** module within the selected period. CFW allows traffic from the IP by skipping attack detection for the IP in **Intrusion defense** within the specified period. If you are not certain about whether the reason is "false positive", you can select **Allow for emergency**, and modify it later if necessary.



Block: For assets with a high threat level, click **Block**. Then, specify a validity period and direction to add the IP to the blocklist in **Intrusion defense**. CFW automatically blocks that IP from accessing all of your assets within the specified period.



Quarantine: Click **Quarantine**. When an asset instance is quarantined, the system automatically publishes the blocking rule for enterprise security groups to block network access to the selected asset in the specified blocking direction. This makes the subsequent troubleshooting easy and prevents the asset from being attacked.

Quarantine the	selected instances	X
When an asset insta published by the en access to the selec	ance is quarantined, a blocking rule is automatic iterprise security group, to block the network ted asset in the specified direction.	ally
Address	1 instance selected. Hide details 🔺	
Blocked direction	 Edge inbound Edge outbound Private network access 	
	O Do not enable Custom IP	
Effective period	1 day(s) O 7 day(s) Permanent	
	OK Cancel	

Ignore: For repeated or possible false alerts, you can click **Ignore**. The ignored alert events are not included in the alert list and statistics, but their logs are retained. You are no longer notified of the ignored alert events when they trigger alerts again. You can select **Ignored** in the list to view all the ignored events. **The ''Ignore'' operation is irreversible**.



Resolving false alerts

You can add the IP to the allowlist. On the **Blocked attacks** page, select the target asset/IP, click **Allow**, select **False positive** for **Reason**, and then click **OK**.



Searching for attack events from an IP

In the **Asset view**, place the pointer over the value of **Access destination**, **Access source**, or **Asset name**, and click **Check in intrusion defense log** to view all attack events.



Attack Y Severi	Access so	Source Port Access d	le	Destination	Pr ▼	Occurrence time ↓	Source T	Interce \$	Operation (i)
High	٩	Multiple (4)	Q	80	HTTP	2022-11-09 14:42:35	Virtual Patch	88	Open Block Ignore
Total 1 items	Check in	n intrusion defense logs					10 🔻 / page		/1 page 🕨

Note

The figure above shows the process.

Viewing the blocked attacks for an asset

Method 1: Select the specified asset in the upper-left corner to filter the records.

Security alerts							
Attack alerts Blocked att	acks Honeypot events						
All assets 🗸				24 hours	7 days 20	22-05-13 20:02:35	~ 2022-11-09 20:02:35
Blocked attacks					Blocked IPs	Location	Destination port
Block malicious outgoing requests	Blocked by the blocklist 0 times	Block brute-force attacks 0 times	Vulnerability exploits		7		
20					-		350
600 500					-	100	204
300 200 100]		
0 2022-05-13 2022-06	-14 2022-07-16	2022-08-17 2022-09-18	2022-10-20				

Method 2: Select the target asset by clicking Event details -> Asset name to view its records of blocked attacks.

Viewing recently blocked attacks

The Blocked attacks page is automatically refreshed. Click

 \odot

in the upper part of the page, select *Last blocked for Blocking history ranking*, and then click OK* to view the recently blocked attacks.



Inbound Lateral movements	Dutbound		
Open all Block Ignore	All policies All statuses	Separate keywords with " "; press Enter to	o separate filter tags Q 🗘 💿 🖸 Asset vi
Access source	Access destination Destination port Asset name	Real-time blocking statistics174 Last blocked 2022-10-25 15:14:10 Avg. blocked frequency88.48/ minute(s)	Blocking histor ranking Last blocked Blocking statistics Page refresh frequency 30 seconds 60 seconds Blocking
Total 1 items			frequency statistics O minute(s) hour day(s) OK Cancel

Traffic Monitoring

Last updated : 2024-01-24 15:48:25

Traffic Monitoring provides incoming access statistics, outgoing access analysis, and inter-VPC activities tabs based on inbound, outbound, and inter-VPC traffic. This topic describes how to view the traffic status and understand the visual information on the three tabs in Traffic Monitoring.

Incoming access statistics

On the **Incoming access statistics** page, you can view the IP addresses, access count, and volume of the inbound traffic. You can also view details about the access to specific assets in different time periods in specified regions on the map, and view the ranking of traffic in different regions.

Directions

1. Log in to the Cloud Firewall console, click **Traffic Monitoring** in the left navigation pane, and click the **Incoming access statistics** tab.

2. In the **Incoming access statistics** tab, click **All assets** to view the access to each asset in the current region. You can also view the traffic in different time periods, such as the last 24 hours or the last 7 days.

asset	S	.			24 hours
				C	All regions
	Instance	Instance ID	Asset	IP address	a provide the second se

3. View the incoming access to assets in regions around the world and within China on the map.

Select **All regions** to view the distribution of traffic in each country or region around the world.

Select China to view the distribution of traffic in each province of China.

Caution

The carousel slider on the left side displays the top 5 countries/regions or provinces with the highest traffic volume and access count. You can hover the mouse cursor over a country/region or province to view the access by IP addresses. The color depth on the map indicates the traffic volume in each region. A darker color indicates higher traffic. You can hover the mouse cursor over a country/region or province to view details.

The icons on the right side are used to refresh data in the carousel slider, reset the map to the initial position, expand the map, and zoom in and out the map.



4. On the right side of the map, click



to view the traffic statistics in the global mode.

5. In the global mode, view the rankings in different dimensions.

The carousel slider on the left side of the map displays top 10 countries/regions or provinces with the highest traffic volume and access count.

The carousel slider on the right side of the map displays the top 5 ports with the most visits, the protocol distribution of incoming access, the top 5 assets with the most visits, and the top 5 assets with the highest traffic volume.

Note

When a specific asset is selected, the asset ranking is not displayed in the carousel slider on the right side.

The line chart below the map shows the traffic bandwidth of incoming access within the current time range. You can also view the peak bandwidth in and the total traffic volume in the last 7 days or 24 hours.



6. In the lower part of the page, view details of the incoming access IP addresses.

Note

For brevity, the list only displays the access information of top 500 IP addresses by default.

The features of the **Incoming access** list under **Internet access** are described below, and those of other lists are similar.

1. In the **Incoming access** list, enter an **exact** IP address of an access source in the **External address** search box, enter an **exact** IP address of an asset in the **Destination port** search box, or enter an **exact or fuzzy** place name in the **Location** search box, and then click **Start search** to search for access details.

Incoming access											
External address	Support exact search	Destination port	Support exact sea	ırch	Location	Suppor	t fuzzy search	Search now	Reset filters		
Access source (E.	Location	Access destination	Destination	Asset region	ş	Sessio	Access traffic	Occurrence time	Operation	1	
	Singapore, Singapore		80	Singapore	2	207	Request: 870.38B Outgoing response: 84.04B	First: 2022-11-05 17:1 Latest: 2022-11-08 21	17:47 1:26:52 Traffic log:	s More 1	
	Staten Island,New Yo		80	Singapore	Ş	96	Request: 212.69B Outgoing response: 21.11B	First: 2022-11-03 02:2 Latest: 2022-11-09 13	25:35 3:37:28 Traffic log:	s More	

2. View data details. You can view traffic logs, threat profile, or asset details in the access list.

View traffic logs

2.1.1 Click Traffic logs in the action column on the right.

2.1.2 On the **Traffic logs** page, you can view details about the access between specified IP addresses. You can also filter the results by access source and access destination to obtain the details about the access from the same source to the same asset.

View the threat profile

2.1.1 Select More -> Threat profile in the action column on the right.

2.1.2 On the **Threat profile** page, view the threat profile of the external address and then perform tracing and auditing.

View asset details

2.1.1 Select More -> Asset details in the action column on the right.

2.1.2 On the Asset details page, view exposed assets and security events about the asset.

Outgoing access analysis

You can view details about the outgoing access from assets in the last 7 days, and learn about the outgoing traffic, outgoing domain names, and outgoing destinations on the **Outgoing access** page.

Directions

1. Log in to the Cloud Firewall console, click **Traffic Monitoring** in the left navigation pane, and click the **Outgoing access** tab.

In the **Outgoing access overview** module, you can view the access status of outbound traffic in the last 7 days or 24 hours. You can also filter the results by time and asset to obtain the outgoing access statistics of specific assets within a time range.

On the left side of the **Outgoing access overview** module, you can view the outgoing domain names and outgoing destinations of assets, the number of outgoing assets, and the number of alerts. You can select an asset from the **All assets** drop-down list to view the outgoing access of the asset.

In the line chart in the lower part, you can view the bandwidth in the last 7 days or 24 hours. Hover the mouse cursor over the line chart to view the bandwidth at a point in time.

On the right side of the **Outgoing access overview** module, you can view the top 5 most requested domain names, the top 5 most requested addresses, the address with the most access traffic, the top 5 assets with the most outgoing access requests, and the top 5 assets with the highest outgoing traffic in the last 7 days or 24 hours.



Outgoing access overview								
Outgoing domain name	Outgoing access destination address	Outgoing asset	•	Address with the r	nost access traffic	Assets with mo	ost outgoing acc	ess requests
0	10	3		1				
Risk domain names: 0	43	Compromised assets: 1						4.44M
	Risk destination addresses: 0							4.43M
400 201/boo				-				
390.63Kbps				1			3.4Mbps	
292.97Kbps						2.4Mbps		
195.31Kbps	1			-				
Obps	hand have been a second s	l				2.4Mbps		
11-04 13:00 11-05 15:0	00 11-06 17:00 11-07 19:00	11-08 21:00 11-09 23:00		_				1

2. You can view the access statistics of outgoing traffic, outgoing domain names, outgoing destinations, and outgoing assets in the lists below. Access details are available in all the lists except the **Outgoing traffic**.

Outgoing traffic	Outgoing domain name	e Outgoing dest	ination Outgoir	ng asset						
External address S	upport exact search	Destination port	Support exact search		Location	Support	fuzzy search	Search now	Reset filters	
Access source (M.	. Asset region	Access destination	Destination L	ocation	S	Sessio	Access traffic	Occurrence time	Operatio	n
	Singapore		9922		3	3700	Request: 0 Outgoing response: 650.39B	First: 2022-11-03 00:4 Latest: 2022-11-09 14	18:28 1:48:26 Traffic log	gs More 🔻
	Singapore		9922		3	3684	Request: 0 Outgoing response: 647.58B	First: 2022-11-03 00:4 Latest: 2022-11-09 14	18:08 1:48:05	gs More ▼

3. The **Outgoing destination** list is used as an example of how to view access details. Click **Outgoing destination**, and click **Access details** in the action column on the right side of an IP address to enter the **Outgoing destination details** page.

Outgoing traffic	Outgoing domain name	Outgoing destina	tion Outgoing as	set			
Descending by latest acc	cessed v Display only	y risks			Search by keywords, filte	er by the dropdown list	Q ¢
Destination address	Location	Risk assessment Y	Destination port	Sessions	Access traffic	Occurrence time	Operati
		Unknown	9922	17326	Request: 2892916 Outgoing response: 0	First: 2022-11-03 00:08:03 Latest: 2022-11-09 14:48:48	Access Deta
		Unknown	9922	17350	Request: 2896564 Outgoing response: 0	First: 2022-11-03 00:07:57 Latest: 2022-11-09 14:48:47	Access Deta

4. On the **Outgoing destination details** page, you can view the access count and traffic volume of assets to the IP address in the last 7 days or 24 hours, and the location of the IP address. You can also view the assets accessed from the IP address. To learn more about the traffic logs and threat profile, please see Incoming access statistics.

Outgoing acces	s details						>
9.4.0.10 Unkno	wn			Thread	l profile	24 hours	7 days
Sessions		Location	United Sta	ates of Am	erica		
17326 ti	mes	Last accessed	2022-11-0	09 14:48:48	8		
Request traffic: 28 Outbound traffic:0	92916	Threat intelligence tags					
Asset instanc	Primary IP	Requests \$	Access tra	ffic 💠	Occurrence	time 💲	Operatior
	Public network: Private network:	8063	Request: 12 Outgoing response: 0	225576	First: 2022-1 Latest: 2022 14:48:48	1-03 00:08:03 -11-09	Traffic logs Outgoing deta
	Public network: Private network:	4630	Request: 8 ⁻ Outgoing response: 0	13.87B	First: 2022-1 Latest: 2022 14:47:47	1-03 00:08:43 -11-09	Traffic logs Outgoing deta
	Public network: Private network:	4633	Request: 8 ⁻ Outgoing response: 0	14.39B	First: 2022-1 Latest: 2022 14:46:56	1-03 00:09:22 -11-09	Traffic logs Outgoing deta
Total 3 items			10) 🔻 / page		1 /	′1 page ► ►

5. To learn more about the outgoing access of an asset in the list, click **Traffic logs** or **Outgoing details** in the action column on the right side of the instance list to view the traffic logs of the asset or the IP addresses and domain names accessed by the asset in the last 7 days or 24 hours.

Asset instanc	Primary IP	Requests ‡	Access traffic \$	Occurrence time \$	Operatior
	Public network: Private network:	8063	Request: 1225576 Outgoing response: 0	First: 2022-11-03 00:08:03 Latest: 2022-11-09 14:48:48	Traffic logs Outgoing deta
	Public network: Private network:	4630	Request: 813.87B Outgoing response: 0	First: 2022-11-03 00:08:43 Latest: 2022-11-09 14:47:47	Traffic logs Outgoing deta
	Public network: Private network:	4633	Request: 814.39B Outgoing response: 0	First: 2022-11-03 00:09:22 Latest: 2022-11-09 14:46:56	Traffic logs Outgoing deta
Total 3 items			10 💌 / pa	age 🛛 🚽 1 /	1 page 🕨 🕨

Inter-VPC activities

You can view traffic access between VPCs and the protocol distribution on the Inter-VPC activities page.

Directions

1. Log in to the Cloud Firewall console, click **Traffic Monitoring** in the left navigation pane, and click the **Inter-VPC Activities** tab.

2. In the Inter-VPC activities tab, select a VPC instance from the filter box in the upper part and select a time period.



Traffic monitoring										
Incoming access stati	istics	Outgoing access	Inter-VPC activities							
All firewall toggles	v							1 hour	Today	7 d
	Q									
All firewall toggles							Protoco	ol distributio	n	
953.67Mbps					M			No data	1 a yet	
11–04 16:00		11–05 17:00	11-06 18:00 11 Inter-VPC ban	1–07 19:00 dwidth	11–08 20:00	11–09 21:00				

3. Hover the mouse cursor over the line chart of traffic statistics to view the bandwidth at a specific time. Hover the mouse cursor over the donut chart of protocol distribution on the right to view the distribution of protocols.

Traffic monitoring					
Incoming access statistics	Outgoing access	Inter-VPC activities			
All firewall toggles					1 hour Today 7 d
Traffic statistics					Protocol distribution
4.66Gbps					
3.73Gbps	Г			<u> </u>	
1.86Gbps			11–07 20:00		
953.67Mbps			Inter-VPC bandwidth: 3.72Gbps		No data yet
11–04 16:00	11-05 17:00	11–06 18:00 11–07	19:00 11–08 20:00	11-09 21:00	
		Inter-VPC bandwid	th		

4. In the lower part of the page, view the IP addresses in access between VPCs, and view the access source, access destination, and access count of IP addresses in the VPCs. Enter an access source, access destination, or destination port in the search boxes to start an exact search. For more information, please see Incoming access statistics.

Access source	Support exact search	Access destination	Support exact search	Destination port	Support	exact search	Search now	Reset filters
Access source	Asset region	Access destination	Destination	Asset region	Sessio	Access traffic	Occurrence time	Operatio
	Shanghai				326	Request: 4135811 Outgoing response: 3732448	First: 2022-11-10 10:56 Latest: 2022-11-10 14:3	18 Traffic log
				-	284	Request: 2091856 Outgoing response: 3508642	First: 2022-11-10 13:05 Latest: 2022-11-10 13:5	:30 Traffic log :6:00

More information

For questions about Traffic Monitoring, please see Bandwidth.

Access Control NAT Firewall Rules

Last updated : 2024-01-24 16:06:49

Access control rules can filter specific domain names or filter traffic by geographic location. NAT firewall has two access control rule lists, namely inbound rules and outbound rules. **Inbound rules** apply to the incoming north-south traffic over the edge firewall, while **outbound rules** apply to the outgoing north-south traffic over the edge firewall, while **outbound rules** apply to the outgoing north-south traffic over the edge firewall. This topic describes operations related to inbound rules, and those for outbound rules are similar.

Operation guide

1. Log in to the Cloud Firewall console, select Access Control in the left navigation pane, and then select NAT firewall rules.

2. On the "NAT firewall rules" page, select a region, and then click Inbound rules.

Access control	Guangzhou			Backup rule
Edge firewall rules	NAT firewall rules Enter	prise security groups Intra	net rules	
Rule list Latest back	up: 2022-10-24 20:47:54		Recent operations (i)	View operation log
Inbound rule	Outbound rules	Rule quota 🕦	No data yet	
2	25	2000		
Enabled rules: 2	Enabled rules: 25			
	Jound Tules			
Add rule Import r	ule Sort Batch ope	eration More actions	Separate keywords with " "; press l	Enter to separate filter tags Q
All statuses v				

3. On the **Inbound rules** page, you can create access control rules for different regions, and view the details about rule lists (the used quota of inbound or outbound rules and the total quota of rule lists), recent operations, and access control rules. "Recent operations" show your recent operations on the rule lists:

Click **Details** to view details of a specific operation.

Click View operation logs to view detailed operation records.

	-			
Recent operations	(i)		View operation	n logs
	No data y	/et		
Inbound rules page, add a	rule and configure it. Here is	an example for adding	inbound rules.	
id rule on the Inbound rule	e s page.			
Access control	Singapore Guangz	hou		
	ongaporo duange			
Edge firewall rules	NAT firewall rules	Enterprise sec	urity groups	Intra
Rule list Latest b	ackup: 2022-10-24 20:47:54	ŀ		
Inbound rule	Outbound rule	es Ru	lle quota 🕠	
2	25	2	000	
		25	.000	
Enabled rules. 2	Enabled fulles.	20		
Inbound rule C	Outbound rules			
Add rule Impo	ort rule Sort	Batch operation	More actions	•
All statuses •				

ii. Configure the inbound rule in the **Add inbound rule** window displayed. The "Access source type" can be an IP address, geographic location, cloud vendor, or address template. The "Access destination type" can be an IP


address, asset instance, resource tag, address template, or asset group. Select priority for rules based on their importance. After selecting the access source and destination, enter the destination port, select the protocol and the policy to implement, enter rule descriptions, and then click **OK** to complete the configuration.

Note

Access destination type region: The region where the cloud instance is located.

Access source type: The type of an external source when an inbound rule is added.

Access source type	IP address	Location Address ter	nplate				
Access destination type	O IP address	Asset instance Resour	ce tag Addres	s template			
Rule priority	Earliest	O Last					
Priority 🛈	Access source (i)	Access destination (i)	Destination port	Protocol	Policy (i)	Description (i)	Operation
3	0.0.0/0	0.0.0/0	-1/-1	ANY	▼ Please selec ▼	Enter description of the rule. Up to	Copy Delet

Field description:

Priority: The priority of the access control rule. The priorities of outbound and inbound rules are independent of each other. The rule with the highest priority is evaluated first. If a given rule is matched, rules with lower priorities will not be evaluated. When you modify the priority of a given rule, the priorities of the original rule with that priority and all the subsequent rules will increase by 1. When you delete a given rule, the priorities of all the subsequent rules will decrease by 1.

Access source: The access source of an inbound rule can be any public IP. It supports an IP, CIDR block, and location.

Access destination: The access destination of an inbound rule can be any private network asset in the current region. It supports an IP address, asset instance, resource tag, address template, and asset group. The supported access source and destination types of an outbound rule are the opposite.

Destination port: TCP/UDP rules support single port numbers (e.g., "80"), port ranges (e.g., "80/80", "-1/-1", "0/65535"), and discrete port numbers separated with commas (e.g., "80,443,3380/3389"). For ICMP rules, port configuration is not required.

Protocol: For the current CFW edition, supported inbound protocols include TCP and UDP, and supported outbound protocols include TCP, UDP, ICMP, HTTP, HTTPS, SMTP, SMTPS, DNS, and FTP.

Policy description:

Allow: Allow the matched traffic and record the hit count and traffic logs, but not access control logs.

Observe: Allow the matched traffic and record the hit count, access control logs, and traffic logs.

Block: Block the matched traffic and record the hit count and access control logs, but not traffic logs.

Description: The rule description with up to 50 characters. You can use a pair of # to insert special settings. Your current CFW edition supports #long connection#.

NAT firewall wildcard rules:

CFW provides different wildcard rules for IP address, port, and domain name.

Input field	Input example	Description
Access source/Access destination	0.0.0/0	Indicates all IP addresses.
Domain name	*	Indicates all domain names.
Domain name	*.aa.com	Indicates second-level domain names starting with an asterisk (*): aa.com.
Destination port	-1/-1	Indicates all ports.
Destination port	0/65535	Indicates all ports.
Destination port	80,443,3389	Indicates ports 80, 443, and 3389.
Destination port	80/443	Indicates all ports between port 80 and port 443.
Destination port	80/443,3389	Indicates all ports between port 80 and port 443, as well as port 3389.

5. Click **Copy** in the action column on the right to add multiple rules.

Note

In the **Add inbound rule** window, one rule uses one line, and a new rule is added to the end of the list by default. The last rule added has the largest priority number or the lowest priority.

Scenario 1: You have configured the rule list, and need to add rules in batch.

5.1 Click **Copy** in the action column on the right to add a rule to the next line of the current rule. A maximum of 10 rules can be added at a time.

Add Inbound ru Access source type Access destination	Access Target re O IP address IP address IP address	gion Singapore	mplate rce tag OAddres	s template					
Rule priority	Earliest	Last							
Priority 🛈	Access source 🛈	Access destination (i)	Destination port	Protocol		Policy (i)	Description	Oper	ration
3	0.0.0.0/0	0.0.0.0/0	-1/-1	ANY	•	Please selec v	Enter description of the rule. Up to	Сору	Delet
4	0.0.0.0/0	0.0.0/0	-1/-1	ANY	•	Please selec v	Enter description of the rule. Up to	Сору	Delet
5	0.0.0/0	0.0.0/0	-1/-1	ANY	▼	Please selec v	Enter description of the rule. Up to	Сору	Delet
			ОК	Cancel					

5.2 Complete all fields in the list.

5.3 Check whether the priority of the rules added in batch meets your expectations.

5.4 Click **OK** to submit the rules configured.

Scenario 2: You need to configure multiple rules for an IP address.

5.1 Edit a rule to fill in the fields that need to be input repeatedly.

5.2 Click Copy in the action column on the right to add a rule to the next line of the current rule, with the fields

automatically populated with the same values as from the edited rule. A maximum of 10 rules can be added at a time.

Access source type Access destination type	 IP address IP address 	Location Address ter Asset instance Resourt	mplate rce tag Addres	s template					
Rule priority	Earliest	Last							
Priority 🛈	Access source (i)	Access destination (Destination port	Protocol		Policy 🛈	Description (3)	Ope	ration
3	0.0.0/0	0.0.0/0	-1/-1	ANY	•	Please selec v	Enter description of the rule. Up to	Сору	Dele
4	0.0.0/0	0.0.0/0	-1/-1	ANY	•	Please selec v	Enter description of the rule. Up to	Сору	Delet
5	0.0.0.0/0	0.0.0.0/0	-1/-1	ANY	•	Please selec 🔻	Enter description of the rule. Up to	Сору	Delet



5.3 Complete other fields in the list.

5.4 Check whether the priority of the rules added in batch meets your expectations.

5.5 Click **OK** to submit the rules configured.

6. Import rules: Click **Import rule** to import rules from a local file. You can specify the import location, download the import template, or export existing rules.

Import rule	NAT firewall rules - Inbound rule(Singapo	ore)	
 Up to 1, Location 	,000 rules can be uploaded in one time. To n-based access control rules cannot be in	īo add more than 1,000 mported. When you ex) rules, please try multiple uploads and select "Add to the end". port location-base rules, they will be converted to global rules.
1 Select a	file > (2) Import settin	igs	
	\bigcirc		
Save to	Overwrite the current list	Attach to the end	Download import template Export existing rules (i)
Save to Select a file	Overwrite the current list	Attach to the end D	Download import template Export existing rules (i) Delete
Save to Select a file	Overwrite the current list O	Attach to the end D Select a file	Download import template Export existing rules (i)
Save to Select a file	Overwrite the current list	Attach to the end D Select a file	Download import template Export existing rules (

7. Back up and roll back rules: Click **Backup rules** in the upper right corner to back up existing NAT firewall rules.

When the rules are greatly changed, you can click **Roll back** to the right of the backup file to recover the rules.

8. Click **Backup rules** in the upper right corner to enter the **Back up and roll up rules** page. Click **Create backup**, select **NAT firewall rules** from the drop-down list and enter a description, and then click **OK** to complete the backup.

Back up and roll u	p rules			;
i 1. Backup: Ye2. Roll back:3. Backups ayou can delet	ou can create up to 10 backups of a rule li Overwrite the current rules with the ones i are cleared when the service is expired or t te the early backups.	st. The direction is not limi n the selected backup. Ba he related resources are re	ted. ck up current rules be eleased. When the quo	fore rolling back. ta limit is reached,
Create backup	NAT firewall rules (Singapore) 🔹		Search by the descri	ption of the rule Q
Rule list (i)	Description	Backup time	Rules	Operatio
NAT firewall rules (Sir	ngapore)			Roll back Delet
Total 1 items		20 💌 / pa	ge 🛛 🖛 1	/1 page 🕨 🕨

9. To roll back rules, click **Roll back** on the right side of the backup file, and you can recover the rules after confirmation.





Confirm to roll back with the backup

Rolling back to the selected rule backup will overwrite the corresponding rule list, and the existing rules will be deleted. To ensure data security, it is recommended to back up the current list first.



More information

For the information about how to control the inbound and outbound traffic over the edge firewall on the Cloud Firewall console, please see Edge Firewall Rules.

For information about how to set inter-VPC firewall rules on the Cloud Firewall console, please see Inter-VPC Firewall Rules.

For the special scenarios of the Cloud Firewall access control feature, please see Special Scenarios. For questions about NAT firewall rules, please see NAT Firewall.

Inter-VPC Firewall Rules

Last updated : 2024-01-24 16:06:49

Inter-VPC firewall rules provide multiple access control lists (ACLs), each of which is associated with a pair of connected VPCs and an inter-VPC firewall toggle. This topic describes how to set up inter-VPC firewall rules on the Cloud Firewall console.

Operation guide

1. Log in to the Cloud Firewall console, select Access Control in the left navigation pane, and then select Inter-VPC firewall rules.

2. In the upper left corner of the **Inter-VPC firewall rules** page, you can switch between different inter-VPC ACLs from the drop-down list of "Firewall toggle name".

Add rule								:
Rule priority	🔵 Earliest 🛛 🔾 L	ast						
Priority 🕄	Access source (i)	Access destination (Destination port	Protocol	Policy (j)	Scope	Description (j)	Operation
9	0.0.0/0	0.0.0/0	-1/-1	ANY	▼ Please selec ▼	-	Enter description of the rule. Up to	Copy Dele
	Associated: 5 Details	Associated: 5 Details						
				ОК	Cancel			

Note

Unlike the edge firewall and NAT firewall ACLs, inter-VPC ACLs have no direction limitations.

The local and peer VPCs are equivalent. When configuring rules, you can determine the VPC based on the CIDR block where the access source and destination are located to differentiate the direction.

3. On the Inter-VPC firewall rules page, click Add rule.

4. On the **Add rule** page, the information of local and peer VPCs and firewall toggle of the inter-VPC ACLs is already available. You only need to enter the access source IP, access destination IP, destination port, and other information to complete the configuration.

ule priority	Earliest	Last						
riority 🛈	Access source (j)	Access destination (Destination port	Protocol	Policy (j)	Scope	Description (j)	Operat
9	0.0.0/0	0.0.0/0	-1/-1	ANY	▼ Please selec ▼		Enter description of the rule. Up	to Copy C
	Associated: 5 Details	Associated: 5 Details						
10	0.0.0/0	0.0.0/0	-1/-1	ANY	▼ Please selec ▼		Enter description of the rule. Up	to Copy D
	Associated: 5 Details	Associated: 5 Details						
11	0.0.0/0	0.0.0/0	-1/-1	ANY	▼ Please selec ▼		Enter description of the rule. Up	to Copy D
	Associated: 5 Details	Associated: 5 Details						

Field description:

Priority: The priority of the access control rule, which is independent of that of the rule list for the firewall toggles. The outbound and inbound rules are executed independently. The rule with the highest priority is evaluated first. If a given rule is matched, rules with lower priorities will not be evaluated. When you modify the priority of a given rule, the priorities of the original rule with that priority and all the subsequent rules will increase by 1. When you delete a given rule, the priorities of all the subsequent rules will decrease by 1.

Access source: It can be an IP in the CIDR block of the local/peer VPC or a subnet range of it. Note that it cannot be in the same VPC network range as the access destination. You can also enter 0.0.0.0/0 as a wildcard access source.

Access destination: It can be an IP in the CIDR block of the local/peer VPC or a subnet range of it. Note that it cannot be in the same VPC network range as the access source. You can also enter 0.0.0.0/0 as a wildcard access destination.

Destination port: Supports single port numbers (e.g., "80"), port ranges (e.g., "80/80", "-1/-1", "0/65535"), and discrete port numbers separated with commas (e.g., "80,443,3380/3389").

Protocol: The current CFW edition supports UDP, TCP, and ICMP.

Policy description:

Allow: Allow the matched traffic and record the hit count and traffic logs, but not access control logs.

Observe: Allow the matched traffic and record the hit count, access control logs, and traffic logs.

Block: Block the matched traffic and record the hit count and access control logs, but not traffic logs.

Description: The rule description with up to 50 characters. You can use a pair of # to insert special settings. Your current CFW edition supports #long connection#.

Inter-VPC wildcard rules: For more information about the IP address ranges that support wildcard, please see the wildcard rules in Edge Firewall Rules.

Caution

The CIDR blocks of the local and peer VPCs cannot be the same or overlap. Otherwise, the firewall cannot be enabled.

In the inter-VPC access control rules, the access source and access destination can only be an IP in the CIDR block of the local/peer VPC or a sub-network range of it. As the CIDR blocks of the local and peer VPCs cannot be the same, the direction of the traffic controlled by a rule can be distinguished by the "Access source" or "Access destination".

The rule will not take effect if you enter an address other than those in the CIDR block of the local or peer VPC. If you enter 0.0.0.0/0 for "Access source" and "Access destination", it indicates all the addresses of the VPC. 5. Click **Copy** in the action column on the right to add multiple rules.

Note

In the **Add inbound rule** window, one rule uses one line, and a new rule is added to the end of the list by default. The last rule added has the largest priority number or the lowest priority.

Scenario 1: You have configured the rule list, and need to add rules in batch.

5.1 Click **Copy** in the action column on the right to add a rule to the next line of the current rule. A maximum of 10 rules can be added at a time.

5.2 Complete all fields in the list.

5.3 Check whether the priority of the rules added in batch meets your expectations.

5.4 Click **OK** to submit the rules configured.

Scenario 2: You need to configure multiple rules for an IP address.

5.1 Edit a rule to fill in the fields that need to be input repeatedly.

5.2 Click Copy in the action column on the right to add a rule to the next line of the current rule, with the fields

automatically populated with the same values as from the edited rule. A maximum of 10 rules can be added at a time.

Rule priority	Earliest	Last						
Priority 🛈	Access source (i)	Access destination (i)	Destination port	Protocol	Policy (i)	Scope	Description (1)	Ope
9	0.0.0.0/0	0.0.0/0	-1/-1	ANY	▼ Please selec ▼		▼ Enter description of the rule. Up to	Сору
	Associated: 5 Details	Associated: 5 Details						
10	0.0.0.0/0	0.0.0/0	-1/-1	ANY	▼ Please selec ▼		▼ Enter description of the rule. Up to	Сору
	Associated: 5 Details	Associated: 5 Details						
11	0.0.0.0/0	0.0.0/0	-1/-1	ANY	▼ Please selec ▼		▼ Enter description of the rule. Up to	Сору
	Associated: 5 Details	Associated: 5 Details						

5.3 Complete other fields in the list.

5.4 Check whether the priority of the rules added in batch meets your expectations.

5.5 Click **OK** to submit the rules configured.

6. After the rules are added, you can view them in the rule list.

7. Import rules: Click **Import rule** to import rules from a local file. You can specify the import location, download the import template, or export existing rules.

Import rule Intr	ranet rules									
(i) Up to 1,00	J0 rules can be uploaded in one time. To add more than 1,000 rules, please try multiple uploads and select "Add to the end".									
1 Select a file > 2 Import settings										
Save to Overwrite the current list O Attach to the end Download import template Export existing rules (
Select a file	No files selected Select a file Delete									
	Upload an XLSX file with up to 1,000 rules.									
	Cancel Next									

8. Back up and roll back rules: Click **Backup rules** in the upper right corner to back up existing NAT firewall rules.
 When the rules are greatly changed, you can click **Roll back** to the right of the backup file to recover the rules.
 1. Click **Backup rules** in the upper right corner to enter the **Back up and roll up rules** page. Click **Create backup**, select **Inter-VPC firewall rule group** from the drop-down list and enter a description, and then click **OK** to complete the backup.



2. To roll back rules, click **Roll back** on the right side of the backup file, and you can recover the rules after confirmation.



More information

For the information about how to control the inbound and outbound traffic over the edge firewall on the Cloud Firewall console, please see Edge Firewall Rules.

For the information about how to control the inbound and outbound traffic over the NAT firewall on the Cloud Firewall console, please see NAT Firewall Rules.

For the special scenarios of the Cloud Firewall access control feature, please see Special Scenarios.

For questions about inter-VPC firewall rules, please see Inter-VPC Firewall.

Enterprise Security Group Feature Overview

Last updated : 2024-01-24 16:06:49

Enterprise security group is a new security group control plane that replaces the security group administration interface in the CVM console. The configuration logic of security groups has been redesigned and a centralized access control administration page has been maintained, which improves the user experience of security groups. CFW provides five-tuple-based rule configuration and automatically publishes security group rules through intelligent transformation algorithms, which simplifies the configuration of security groups.



Features

It simplifies the configuration of security groups based on the 5-tuple rules.

It supports inter-VPC, inter-subnet, and direct connect access control.

It provides access control logs of security groups for easy backtracking of blocking and routine troubleshooting.

It requires no change in the network architecture, and has no impact on network stability and network performance.

Restrictions

Enterprise security group is developed based on the underlying architecture of the CVM security group, and thus is restricted by the underlying functional implementation and resource quotas of the security group.

Rules

Rule composition

Access source and access destination: Depending on the inbound or outbound direction, they can be IPs, CIDR blocks, instances, subnets, or private networks.

Destination port: The destination port number. Not required when the protocol type is ICMP or ANY.

Protocol type: TCP, UDP, and ICMP are supported. ANY indicates all supported protocols.

Policy: the operation performed after the rule is hit.

Allow: Allow the matched traffic but do not record access control logs.

Block: Block the matched traffic and record access control logs.

Rule priorities

The security group rules are prioritized in a way that the rule at the top of the list has the highest priority while the rule at the bottom has the lowest priority.

The rule with the highest priority is evaluated first. If a given rule is matched, rules with lower priorities will not be evaluated.

The inbound and outbound rules are in different lists and independent of each other.

Auto two-way publishing

Enterprise security group provides the "Auto two-way publishing" feature to improve the configuration efficiency of security groups. This eliminates the need to configure two identical rules in both directions to block or allow traffic between private networks, thus reducing the workload of rule configuration.

When the access source address is an instance, subnet, or private network address, an identical outbound rule (with the highest priority) can be automatically configured using "Auto two-way publishing".

Note:

It only applies to communication between private networks.

For example, there are two instances, instance 1 and instance 2, and their IP address is IP1 and IP2, respectively. If you have configured a "deny all" policy for the security group for instances 1 and 2, respectively, and want to allow the access from instance 1 to instance 2, you need to manually configure two security group rules: Instance 1: Allow IP2 in the outbound direction.

Instance 2: Allow IP1 in the inbound direction.

Logs

Security group blocking logs

The security group blocking logs record the implementation of all blocking policies for enterprise security groups. This is only available to specified models.

Enterprise security group operation logs

The enterprise security group operation logs record the operations performed by an account on the "Enterprise security groups" page.

Configurations

Last updated : 2024-01-24 16:06:49

Adding rules

1. Log in to the Cloud Firewall console, select Access Control in the left navigation pane, and then select Enterprise security groups.

- 2. On the Enterprise security groups page, click Add rule.
- 3. In the Add rule window displayed, configure the parameters and click OK.

(i) Suggest When se If the ass	tion: When your assets de lecting an IP address, if ar sets are changed, making d	o not have duplicate IP addr n IP address corresponds to m one IP in the list associated w	esses, you can quid nultiple instances, the ith multiple instances	ckly configure ente e rule will be publish s, the rules to the IP	rprise security group red to all instances. will also be applied to	p rules through IP a	addresses.	>
Access source typ Access destination type	e IP/CIDR	Parameter templates A Parameter templates A	Asset instance	Resource tag	Region Po Region Ru	ort protocol type ule priority	Custom Parameter tem Earliest	plates
Priority 🛈	Access source (i)	Access destination (j)	Destination port	Protocol	Policy (j)	Description (i)		Operation (i)
25	0.0.0/0	0.0.0.0/0	-1/-1	Please selec V	Please selec v	Enter description	on of the rule. Up to	Copy De

Parameters

Priority: The execution order of access control rules. The rule with the highest priority is evaluated first. If a given rule is matched, rules with lower priorities will not be evaluated. When you modify the priority of a given rule, the priorities of the original rule with that priority and all the subsequent rules will increase by 1. When you delete a given rule, the priorities of all the subsequent rules by 1.

Access source: It can be an IP/CIDR, parameter template, asset instance, asset group, resource tag, region, and other types.

Access destination: It can be an IP/CIDR, parameter template, asset instance, asset group, resource tag, region, and other types.

Note

You can select any type for the access source and access destination as listed above. But you cannot select region for the access source and access destination at the same time.

Destination port: Supports single port numbers (e.g., "80"), port ranges (e.g., "80/80", "-1/-1", "1/65535"), and discrete port numbers separated with commas (15 at most).

Protocol: The current CFW edition supports UDP, TCP, and ICMP.

Policy:

Allow: Allow the matched traffic but do not record the hit logs of enterprise security groups.

Block: Block the matched traffic and record the hit logs of enterprise security groups.

Description**: The rule description with up to 50 characters. You can use a pair of # to insert special settings. Your current CFW edition supports #Only publish to source# and #Only publish to destination#.

Note

When the access destination address is an instance, subnet, or private network address, an identical inbound rule can be automatically assigned using "Auto two-way publishing". To cancel auto two-way publishing, you can add keywords to the description: #Only publish to source# (the security group rules are only published to the source); #Only publish to destination# (the security group rules are only published to the destination).

4. Once added, the rules will be displayed in the rule list.

Priority 🛈	Access source (i)	Access destination	Destination port (i)	Protocol	Policy (j)	Description (j)	Status	Opera
1				ANY	Block			Modify Add one above De
2				UDP	Block			Modify Add one above De

5. Once the rules are added and published successfully, you can view security groups on the **CFW security group details** page or the <u>Security group page</u> on the VPC console, which are associated with instances automatically.

Viewing security group details

1. Log in to the Cloud Firewall console, select Access Control in the left navigation pane, and then select Enterprise security groups.

2. On the Enterprise security group page, click Security group details.

Access control			
Edge firewall rules	NAT firewall rules	Enterprise security groups Intranet r	ul
Rule list Rule quota	a: 1000 rules		
Total rules	Enabled rule	s Security groups (i)	
24	23	24	
		Security group details Increase quota	2

3. On the **Security group details** page, you can view the regions of instances and quota information. The quota can be increased as needed.

Security group details	🔇 Guangzhou	 Increase quota]	
 1. Enterprise securit and policies are not 2. When your quota 3. Rules published b by enterprise security 	ty groups count towards your t affected. is used up, click "Manage quo by the enterprise security grou rity groups manually in the S	the your security group quota. ota" to purchase more. ps are with the highest priority Security Group console.	But you existing and custom s Please do not modify the ru	security groups
Existing security groups	Security group quota	Security rule quota (i)	Number of instances per security group	Quota of security groups bound to the instance

4. At the bottom of the **Security group details** page, you can view associated instances, security group lists, and security group rules.

Associated instances: Display information of all instances in a region, such as instance name, instance type, network, and IP address. Click the number in the "Security group" or "Security group rule" column to go to the security group list or rule details page of an instance. Click **View details** to go to the instance details page.

Associated instanc	es Secur	ity group list	Security group rules			
All security groups	▼		Separate keywords with	" "; press Enter to	separate filter tags	; (
Instance ID/name	Instance t	VPC	IP address	Sec \$	Security 🗲	Operatio
	CVM		Public network: Private network:	2	56	View deta
	CVM		Public network: Private network:	2	53	View deta

Security group list: It displays all the security group lists for the current region, the instances associated with each security group, the number of security group rules, the creation time, and other information. Click the number in the "Associated instance" or "Security group rule" column to go to the security group list or rule details page of an instance. Click **View details** to go to the security group details page in the VPC console.

Associated instances	Security group list		Security group rules				
All Instances	•		Separate keyword	s with " "; press Enter to separate filter ta	igs		
Security group ID/name	Assoc \$	Security \$	Note	Creation time	Operatio		
	0	16		2022-09-01 11:23:57	View deta		
	3	38		2022-11-01 16:02:42	View deta		

Security group rules: Display the inbound and outbound rules of all security groups in the current region. Click

►

to view the rule details, or check whether the enterprise security group rules are published successfully.

Associated instances	Security group list	Security group rules								
All Instances	▼ All security groups	•								
Inbound rules Outbound rules										
•										
Source	Protocol and port	Policy	Note							
	icmp	Allow	Ping							

5. Log in to the VPC console, click **Security** -> **Security groups** in the left navigation pane, and select the regions and items.

Tencent Cloud	Overview Products - C	Cloud Firewall Virtual P	Private Cloud Cloud Virtual	Machine +
Virtual Private Cloud	Security groups	Singapore All project	cts 💌	
铝 Network Topology Map	Create Delete	Edit tags		
Virtual Private Cloud	ID/Name	Associated inst	Notes	Туре
Subnet				
Route Tables				
IP and Interface v				
Shared Bandwidth Pack				
📋 NAT Gateway				
A Peering Connections				
😳 VPN Connection 👻				
Direct Connect Gateway				
Cloud Connect Network				
E Security ^				
Security Group				
Network ACL				

6. Click the ID/name of a security group to view its inbound rules, outbound rules, and associated instances.



sg-d28hkw0u(cfwsg_7	0b669af980eaed644c3	751901be9682)			
Security group rules Asso	ciated to Snapshot ro	llback			
Inbound rules Outboun	d rules				
Add rule Import rule	Sort Delete	Open all common ports	How to Set 🛂	Separate keywords with " "; press Ent	er to separate filter Q
Source (i) T	Protocol+port (i)	Policy	Notes	Modification time	Operation
	UDP:1-65535	Reject		2022-11-01 16:02:30	Edit Insert T Delete
	ALL	Allow		2022-11-01 16:02:30	Edit Insert T Delete

Managing rules

After setting enterprise security group rules, you can modify, insert, delete, or sort the rules on the **Enterprise security group** page.

Editing rules

On the Enterprise security groups page, select a rule, click **Modify** to modify the parameters, and then click **OK**.

Priority 🛈	Access source (i)	Access destination	Destination port (Protocol	Policy (j)	Description (i)	Status	Operat
1				ANY	Block			Modify Add one above Del
2				UDP	Block			Modify Add one above Del

Disabling rules

On the Enterprise security groups page, you can disable or enable rules. Once you disable a rule, it will no longer be matched.

Priority 🛈	Access source (i)	Access destination	Destination port (i)	Protocol	Policy (i)	Description (j)	Status	Operat
1				ANY	Block			Modify Add one above Del
2				UDP	Block			Modify Add one above Del



Inserting rules

On the Enterprise security groups page, select a rule, click **Insert**, enter parameters, and click **OK** to add a rule above the current rule. The new rule has higher priority than the current rule.

Priority (i)	Access source 🛈	Access destination	Destination port (Protocol	Policy 🛈	Description (i)	Status	Operat
1				ANY	Block			Modify Add one above Del
2				UDP	Block			Modify Add one above Del

Deleting rules

On the Enterprise security groups page, select a rule and click **Delete** to delete it upon second confirmation.

Priority (i)	Access source (i)	Access destination	Destination port (i)	Protocol	Policy (i)	Description (i)	Status	Operat
1				ANY	Block			Modify Add one above Del
2				UDP	Block			Modify Add one above Del

Sort

The priority of a rule depends on its order in the list.

1. On the Enterprise security groups page, click **Sort**, select a rule, and click and hold the rule to drag it to the desired position.

Add rule	Sort Batch operation	n More actions v	All statuses v		Automatic publi	ish (j) 🚺 Separat	te keywords with " "; press Enter to s	separate filter tags Q
Priority	Access source (i)	Access destination (Destination port (i)	Protocol	Policy (i)	Description (i)	Status	Oper
1				ICMP	Pass			Modify Add one above C
2				TCP	• Pass	-		Modify Add one above C
3				TCP	Block	-		Modify Add one above D

2. Click **Save**, and the new priority of rules will take effect and be automatically published to the instance.

Exporting rules

1. On the Enterprise security groups page, click



<u>+</u>

in the upper right corner of the rule list, and the **Export custom list** window will pop up.

Add rule	Sort Batch operation	More actions v	All statuses v		Automatic publis	sh (j) 🚺	Separate keywords with " "; press E	nter to separate filter tags
Priority (Access source (i)	Access destination (i)	Destination port	Protocol	Policy (i)	Descriptio	on (i) Status	Open
1				ICMP	• Pass	-		Modify Add one above D
2				TCP	• Pass	-		Modify Add one above D
3				TCP	Block			Modify Add one above D

2. In the pop-up window, select "Export all" or "Export matched results", and then click **Export**.

Export custom list								
C Export all	Export matched results	6						
Priority	 Access source 	✓ Access destin ✓ D	estination port					
Protocol	Policy	Description						
		Export	Cancel					

Special Scenarios

Last updated : 2024-01-24 16:06:49

This topic describes special scenarios of the Cloud Firewall access control feature.

Managing the execution priority of the rule lists

You can manage the execution priority of edge firewall rules, NAT firewall rules, and inter-VPC rules. The following takes **Edge firewall rules** as an example.

Scenario 1: Sorting rules in the list

Log in to the Cloud Firewall console and select Access Control -> Edge firewall rules in the left navigation pane.
 On the Edge firewall rules page, click Sort on the top of the list to enter the modification mode.

Access control	Singapore Guangzhou			Backup rul
Edge firewall rules	NAT firewall rules Enterprise se	curity groups Intranet rules		
Rule list Latest bac	kup: 2022-10-24 20:47:54		Recent operations ①	View operation lo
Inbound rule	Outbound rules	Rule quota	No	Jata yet
2	25	2000		
Enabled rules: 2	Enabled rules: 25			
Inbound rule Ou	tbound rules			
Add rule Import	trule Sort Batch operation	More actions v All statu	Ises Separate keywords with	"; press Enter to separate filter tags Q

3. You can move the positions and priority of rules in batch within the current page, and sort the rules by dragging the icons on their left.

You	need to click Save	the save the change.								
S	ave Reset	Recover	Cancel							
	Priority 🛈	Access source (i)	Access destination	Destination port (i)	Protocol	Policy (j)	Description (i)	Hit count		Operati
	1	⊮ 0.0.0/0	匣 0.0.0.0/0	-1/-1	ANY	• Pass	test	7886 🛱	Modify	Add one above Dele
	2	₪ 136.163.111.123	匣 10.0.0/24	80	ANY	Observe	789	0	Modify	Add one above Deli

4. When you are done, click **Save**.

Sort operations:

If you change the **position** of any rule when you release the mouse cursor, one sort operation has taken place.

If you do not change the **position** of any rule when you release the mouse cursor, no sort operation has taken place.

After a sort operation takes place, the **Cancel** button becomes active.

Click **Recover** once to return the list to the state before the last sort operation.

If you click **Save**, you will see a **Sorted successfully** toast at the top of the page.

If you click Cancel, the list will return to the initial state and all sort operations will not take effect.

Scenario 2: Modifying a rule to move it to a specified position

When you need to move a rule within a large range, sorting is inefficient. Instead, you can use the modification feature. You can modify the execution priority of only one rule at a time.

- 1. Log in to the Cloud Firewall console and select Access Control -> Edge firewall rules in the left navigation pane.
- 2. On the Edge firewall rules page, find the rule you want to move in the list, and determine the new position.
- 3. Click **Modify** on the right to enter the rule modification mode.
- 4. Modify the execution priority to the desired value.

Note:

Execution priority values cannot be repeated and are continuous. As such, the minimum value is 1 and the maximum value is the total number of rules in the current list.

bound rule	Outbound ru	ules							
Add rule	Import rule	Sort Batch operatio	n More actions	✓ All statu	ises v	Separate keyw	vords with " "; press	s Enter to separate filter tags	Q
Priority 🛈	Access source (i	Access destination	Destination port (i)	Protocol	Policy (i)	Description (i)	Hit count	Status	Oper
				ANY	Pass		7886	Modify Add c	one above D

5. Click **Complete** and check the rule priority.

Note:

When you modify the execution priority of a rule in the list, the positions of all other rules will be automatically adjusted.

Scenario 3: Inserting a rule to a specified position in an existing list



Cloud Firewall allows you to insert a rule between any two rules, and the inserted rule will be executed in the priority. The rule will be inserted above the selected position. In the following example, we want to insert a rule between the rules in positions **2** and **3**:

1. Log in to the Cloud Firewall console and select Access Control -> Edge firewall rules in the left navigation pane.

- 2. On the Edge firewall rules page, find the rule in position 3 in the list, and click Add one above on the right.
- 3. The rule modification box will be displayed above the rule in position 3.

4. In the box, enter the fields of the new rule and click *Complete** to insert the rule.

Note:

The inserted rule will take the position of the rule below it, and the execution priority of all the rules below the new rule will be **moved down by one position**.

Add rule	Import rule	Sort Batch operat	tion More actions	▼ All st	atuses 🔻	Separate key	vords with " "; pres	s Enter to separate f	ilter tags Q 🗘
Priority 🛈	Access source (i)	Access destination	Destination port (j)	Protocol	Policy (i)	Description (i)	Hit count	Status	Operatio
1				ANY	Pass		7886	Modify	y Add one above Delet
2				ANY	Observe		0 🚍	Modif	y Add one above Dele
Access sour	ce type O IP addr ination type O IP ad	ress Location	Address template	Address templ	ate				
3	0.0.0.0/0	0.0.0.0/0	-1/-1	TCP	▼ Please selec ▼	Enter description	of the rule. Up to	C	Complete Cancel

Checking if rules are effective

Method 1: Check the hit counts in the access control list. If there are hits, the rules have taken effect.

Note:

If a rule has zero hits, it does not necessarily mean that the rule is incorrectly configured. The rule may simply have no hits for the time being.

ς	parate filter tags Q	; press Enter to se	ywords with " "	Separate key	atuses 🔻	▼ All	More actions	Batch operation	Sort	Import rule	Add rule
ati	Oper	unt Status	Hit cou	Description (i)	Policy (j)	Protocol	Destination port (i)	cess destination 🛈) Acc	Access source 🛈	Priority (i)
eli	Modify Add one above		7886		Pass	ANY					1
eli	Modify Add one above		0		Observe	ANY					2
el	Modify Add one above I		0		Pass	ANY					3

Method 2: Select **Log Auditing** -> **Access Control Logs** in the left navigation pane to view the access control logs (rule hit logs). If a rule is included in the log, the rule has taken effect.



Access control	logs									
Edge firewall rule	s NAT firewall rules	Intranet ru	lles							
All assets	▼ 2022-04-01 00:0	00:00 ~ 2022	-11-09 23:59:59 📋				Separate keywords	with " "; press Enter to sep	parate filter tags	Q (
Inbound rule	Outbound rules									
Hit time	Access source (M	Sourc	Access destination	Destin	Pr T	Domain name	Policy T	Firewall instance T	Effective rules	Deta
2022-11-09 17:18	:22				TCP	-	Observe			View
2022-11-09 17:18	:21				TCP	-	Observe			View
2022-11-09 17:18	:19				TCP	-	Observe			View

Operation locking

At any one time, only one user is allowed to execute any one of the following operations on a single access control list with the same AppID (the firewall ID is used for VPCs): **Add rule**, **Import rule**, **Sort**, **Modify**, and **Add one above**. When performing operations on a list, you may see the toast **The list is being modified by others. Please wait**. This means that another user is performing operations on the list.

Note

Operations are locked for 5 minutes, and will be automatically unlocked after that time period.

Access control Singapore Guangsho Edge firewall rules NAT firewall rules	Beijing Toronto Enterprise security groups Intranet rules				The list is being modified by others. Ple
Rule list Latest backup: 2022-11-01 16:56:50			Recent operations ①		View ope
Inbound rule 61 Enabled rules: 4	Outbound rules 38 Enabled rules: 1	Rule quota ① 5000		No data yet	

More information

For more information, please see Access Control.

Intrusion Defense Enabling Threat Intelligence

Last updated : 2024-01-24 16:09:41

After threat intelligence is enabled, CFW feeds network perimeter traffic to the threat intelligence detection and analysis engine to identify unknown risks beyond access control rules. Prioritized protection packages are also available to enhance risk resistance capabilities in prioritized protection scenarios.

Directions

1. Log in to the Cloud Firewall console and click Intrusion Protection System in the left navigation pane.

2. On the Intrusion protection system page, click



next to **Threat intelligence** to enable this feature.

Note:

Only when threat intelligence and edge firewall are both enabled for a public IP address, CFW monitors and analyzes the north-south traffic on this IP address based on the threat intelligence.

Threat Intellige	ence	View details	Basic Rule	View rules
Accurate identify a names, and auton Support automation expired IPs in the	access traffic from malicious I natic updates in seconds. c false positive review, delete blocklist	Ps and domain false positive and	Features intrusion detection rules ac cover common network attack types recognition rate and low false positiv The rules are continuously updated.	ccumulated in Tencent Cloud, s and malicious codes, with hig ve rate.
Virtual Patch		View rules		
Hotfix protection f and high-risk vuln or install real patc Supports automat	or popular vulnerabilities, con erabilities without the need to hes in the business system. ic update of detection rules fo	nmon vulnerabilities, restart the business or 0-day vulnerabilities		
at the hourly level		,,		
Protection	Observe 4	Block 13	? Advanced settings	Powered by: 🧭 🌘

3. After threat intelligence is enabled, CFW feeds network perimeter traffic to the threat intelligence detection and analysis engine to identify unknown risks beyond access control rules:

Malicious incoming access: CFW detects malicious scanning, brute-force attacks, and remote control from malicious IP addresses to cloud assets, as well as mining Trojans, ransomware, and other threat samples. Outgoing access: CFW detects outgoing access from cloud assets to external malicious IP addresses or domain names, and identifies potential server compromise risks through the comparative analysis of big data provided by threat intelligence.

More Information

For questions about intrusion defense, please see Intrusion Protection System.

Enabling Basic Protection

Last updated : 2024-01-24 16:09:41

After basic protection is enabled, the north-south traffic on public IP addresses can be monitored based on intrusion defense rules.

Directions

- 1. Log in to the Cloud Firewall console and click Intrusion Protection System in the left navigation pane.
- 2. On the Intrusion protection system page, click View rules in the Basic protection module.

Threat Intelligence	View details	Basic Rule	View rules
Accurate identify access traffic from m names, and automatic updates in seco Support automatic false positive review expired IPs in the blocklist	alicious IPs and domain onds. w, delete false positive and	Features intrusion detection rules acc cover common network attack types recognition rate and low false positive The rules are continuously updated.	cumulated in Tencent Cloud, and malicious codes, with hig e rate.
Virtual Patch	View rules		
Hotfix protection for popular vulnerabi and high-risk vulnerabilities without the or install real patches in the business s Supports automatic update of detection	lities, common vulnerabilities, e need to restart the business system. on rules for 0-day vulnerabilities		
at the hourly level			
Protection Observe	4 🔿 Block 13	? Advanced settings	Powered by: 🧭 🚳

3. In the **Basic protection rules** window displayed, you can view the description of any rule.

Basic protection rules							
Edge firewalls & NAT firewalls	Inter-VPC firewall						
Rule name	Event type	Severity level	Confidence level				
Authentication brute force	Brute force	Prompt	Medium				
 Batch server control exploit 	Network attack	Medium	High				
Cobalt Strike communication	Network attack	Medium	Medium				
 Command injection 	Web attack	High	High				
Communication with malicious IP	Network attack	High	Medium				
 Credential stuffing 	Brute force	Prompt	Medium				
 Cryptomining botnet 	Network attack	High	High				
File inclusion	Network attack	Medium	High				
 FireEye red team tool 	Exploit attack	High	Medium				
► FTP exploit	Exploit	Medium	Medium				
General attack	Network attack	High	High				
General attack (extended)	Network attack	Medium	Medium				

4. After viewing the rules, click



in the **Basic protection** module to enable this feature.

Note

When basic protection is disabled, the basic protection rules no longer take effect.

Only when basic protection and edge firewall are both enabled for a public IP address, CFW monitors the north-south traffic on this IP address based on intrusion defense rules.

In the Block mode, malicious behaviors that hit high-confidence rules are automatically blocked, and security event alerts are generated when other rules are hit.

More information

For questions about intrusion defense, please see Intrusion Protection System.

Enabling Virtual Patching

Last updated : 2024-01-24 16:09:41

After virtual patching is enabled, CFW automatically identifies and blocks north-south traffic that may exploit vulnerabilities to launch attacks, preventing CVM vulnerabilities from being exposed to the Internet.

Directions

- 1. Log in to the Cloud Firewall console and click Intrusion Protection System in the left navigation pane.
- 2. On the Intrusion protection system page, click View rules in the Virtual patching module.

Threat Intelligence	View details	Basic Rule	View rules
Accurate identify access traffic from malicious names, and automatic updates in seconds. Support automatic false positive review, delet expired IPs in the blocklist	s IPs and domain e false positive and	Features intrusion detection rules acc cover common network attack types recognition rate and low false positive The rules are continuously updated.	cumulated in Tencent Cloud, and malicious codes, with high e rate.
Virtual Patch Hotfix protection for popular vulnerabilities, cr and high-risk vulnerabilities without the need or install real patches in the business system.	View rules		
at the hourly level	Direk 40		
Protection Observe 4	Block 13	? Advanced settings	Powered by: 🧭 🚳

3. In the **Virtual patch rules** window displayed, you can view all the patches applied and the description of corresponding vulnerabilities.

d	ge firewalls & NAT firewalls	Inter-VPC firewall		
	Rule name	Event type	Severity level	Confidence level
	Apache component exploit	Exploit attack	High	High
Þ	BT exploit	Exploit attack	High	High
Þ	Chrome exploit	Exploit attack	High	High
	Deserialization exploit	Exploit attack	Medium	High
•	Drupal exploit	Exploit attack	High	High
•	Ecshop exploit	Exploit attack	High	High
ŀ	EL injection	Exploit attack	High	High
ŀ	Elasticsearch exploit	Exploit attack	High	High
	Fastjson exploit	Exploit attack	High	High
,	FRP NAT traversal	Network attack	High	Medium
,	GitLab exploit	Exploit attack	High	High
	Heartbleed exploit	Exploit attack	High	High

4. After viewing patch rules, click

next to Virtual patching in the Virtual patching module to enable this feature.

Caution

When virtual patching is enabled, the virtual patch rules take effect for public IP addresses with this feature enabled.

When virtual patching is disabled, the virtual patch rules do not take effect. In the Block mode, all intrusions are automatically blocked.

More information

For questions about intrusion defense, please see Intrusion Protection System.

Managing Defense Operations

Last updated : 2024-01-24 16:11:14

This topic describes how to use the Intrusion Protection System (IPS) to identify unknown risks beyond access control rules, monitor the north-south traffic of public IP addresses based on intrusion defense rules, and prevent CVM vulnerabilities from being exposed to the Internet.

Selecting a protection mode

1. Log in to the Cloud Firewall console and click Intrusion Protection System in the left navigation pane.

2. On the Intrusion protection system page, configure the protection mode in the Protection mode module.

Three protection modes are available: Observe, Block, and Strict.

Note :

The default protection mode is Observe.

In the Observe mode, threat intelligence, basic protection, and virtual patching only detect and send alerts against malicious access or network attacks without interrupting the connections.

In the Block mode, threat intelligence automatically blocks outbound malicious access, basic protection blocks network attacks that trigger high-confidence rule alerts, and virtual patching blocks all the traffic detected as vulnerability exploits.

In the Strict mode, threat intelligence (except for detection of outbound domain names), basic protection, and virtual patching block any detected malicious behaviors that trigger alerts while interrupting the connections. Note that this can cause false positives and is only suggested when the asset is under attack.
Threat Intelligence	View details	Basic Rule	View rules
Accurate identify access traffic from malicious names, and automatic updates in seconds. Support automatic false positive review, delete expired IPs in the blocklist	IPs and domain false positive and	Features intrusion detection cover common network atta recognition rate and low fals The rules are continuously u	rules accumulated in Tencent Cloud, ack types and malicious codes, with hig se positive rate. updated.
Virtual Patch Hotfix protection for popular vulnerabilities, co and high-risk vulnerabilities without the need to or install real patches in the business system. Supports automatic update of detection rules i	View rules mmon vulnerabilities, p restart the business for 0-day vulnerabilities		
at the hourly level			

3. Click **Advanced settings** on the right side of the **Protection mode** module.

4. In the **Advanced settings** window displayed, configure the protection mode for each asset under **Edge firewall**,

NAT firewall, and Inter-VPC firewall respectively.

rotection m	ode settings				? >
Edge firewa	lls NAT f	irewalls Inter-V	/PC firewall	Disable 0 Observe	1 Block 1 Strict (
Switch mod	e All Mod	es 🔻	Separate keywords with "	"; press Enter to separate filte	r tags Q
Subn	et ID/name	IPv4 CIDR	VPC T	Associated inst Y	Protection mode
					Disable Observe Block Strict
					Disable Observe Block Strict



IPS overview

1. Log in to the Cloud Firewall console and click Intrusion Protection System in the left navigation pane.

2. On the right side of the **Intrusion protection system** page, feature updates and feature descriptions are displayed.

Feature updates: You can view the features of IPS modules.

trusion defense — Powered by lencent Threat Intelligence	and Tencent TianMu		Rule library version: V2.5.0.9 (i) 🖬 Feature
Threat Intelligence View details	Basic Rule	View rules	Updates
Accurate identify access traffic from malicious IPs and domain names, and automatic updates in seconds. Support automatic false positive review, delete false positive and expired IPs in the blocklist	Features intrusion detection rules accumulate cover common network attack types and mali recognition rate and low false positive rate. The rules are continuously updated.	d in Tencent Cloud, cious codes, with high	Apache Log4j2 Remote Code Execution Vuln bility Risk Emergency Notice, Tencent Securi Ily supports detection and interception Released time 2021-12-10
Virtual Patch View rules View rules Hotfix protection for popular vulnerabilities, common vulnerabilities, and high-risk vulnerabilities without the need to restart the business or install real patches in the business system. Supports automatic update of detection rules for 0-day vulnerabilities			Risk level high risk Vulnerability Tencent Security has noticed that the of description of a high-risk vulnerability in Apache Lo have been disclosed. There is a JNDI in n vulnerability in Log4j-2. When the pro- logs the data entered by the user, this of
at the hourly level Protection mode Observe 5 Block 12 Strict 0	? Advanced settings Pov	vered by: Ø @ Ø	ability can be triggered. Successfully ex ng this vulnerability can be used in the server

Intelligence center:

2.1.1 Click **Intelligence center** at the upper right corner of feature updates to view security threat intelligence information.

2.1.2 In the **Intelligence center** window displayed, click an intelligence title to view details about vulnerability description and threat level. You can also scan your assets for the threats reported in the vulnerability intelligence.

Managing lists

1. Log in to the Cloud Firewall console and click Intrusion Protection System in the left navigation pane.

2. At the bottom of the Intrusion protection system page, you can view the Blocklist, Allowlist, and Quarantined list.

Blocklist

Viewing the blocklist

1. Click **Blocklist** to enter the blocklist.

Block List	Allowed list Quaran	ntined list						B	3ackup
Add address	Delete address A	Il directions	▼ Sort by valid	date in reverse 🔻	Enable blocklist	Separate keywords with "	"; press Enter to separate filter tags	Q	¢
IP address	Severity T	Location	Blocked dir	Event source T	Effective period		Intercep \$	Oţ	peratio
	Unknown		Edge outbo	Add manually	2022-11-09 15:14:44 t	o 2022-11-16 15:14:44	0	Modify	Delet
	Prompt		Edge outbo	Add manually	2022-11-09 15:14:29 t	o 2022-11-16 15:14:29	0	Modify	Delet

2. In the blocklist, you can view the IP addresses marked as "Blocked" in Alert Management -> Attack alerts and their information. You can also manually add IP addresses to the blocklist.

Disabling the blocklist

1. In case of emergency, click

to turn off Enable blocklist, and then go to Alert Management -> Blocked attacks to view all blocking statistics and locate the alert source.

Block List	Allowed list	Quarantined list					Ba	ckup
Add address	Delete address	All directions	¥	Sort by valid date in reverse v	Enable blocklist	Separate keywords with *[*; press Enter to separate filter tags	Q	φ

2. After the fault is located and fixed, click



Managing the effective period in the blocklist

An IP address whose effective period expires will be automatically removed from the blocklist, and traffic of this IP address will not be blocked by the firewall anymore. To prevent risky IP addresses from being automatically removed from the blocklist, you can click **Edit** in the action column on the right side of the blocklist to modify the expiration time for IP addresses.

Note:

For IP addresses in the blocklist, their inbound or outbound traffic that goes through CFW will be blocked and recorded in **Log Auditing** -> Intrusion Defense Logs.

Block List Al	llowed list Quarar	ntined list													B	ackup
Add address	Delete address	All directions	Ŧ	Sort by valid	date in reverse 🔻	Enable blocklist	Separat	e keywo	ords wit	h " "; pr	ess Ente	er to se	parate fil	ter tags	q	φ.
IP address	Severity T	Location		Blocked dir	Event source 🔻	Effective period						Inte	rcep	\$	Oţ	peratio
	Prompt			Edge outbo	Add manually	2022-11-09 15:17:23 to	2022-	11-16 15	5:17:23		ö	Pe	ermanen	t	ОК	Canc
	Unknown			Edge outbo	Add manually	2022-11-09 15:17:23 to	Nov 2	2022	T	14/-	TI.	•	• •		Modify	Delet
	Unknown			Edge outbo	Add manually	2022-11-09 15:17:23 to	30	MO 31	1	2	3	Fr	5a		Modify	Delet
	Unknown			Edge inbound	Add manually	2022-11-09 15:17:23 to	6	7	8	9	10	11	12		Modify	Delet
				0	,		13	14	15	16	17	18	19			
	Prompt			Edge inbound	Add manually	2022-11-09 15:17:23 to	20	21	22	23	24	25	26		Modify	Delet
	Unknown			Edge inbound	Add manually	2022-11-09 15:17:23 to	27	28	29	30	1	2	3		Modify	Delet
	Unknown			Edge outbo	Add manually	2022-11-09 15:17:01 to	Selec	t time					OK		Modify	Delet

Allowlist

Viewing the allowlist

1. Click **Allowlist** to enter the allowlist.

Block List	Allowed list	Quaranti	ned list						в	ackup
Add address	Delete addre	All o	directions	Sort by valid da	ate in reverse 🔻		Separate keywords with	" "; press Enter to separate filter tags	Q	¢
IP/Do	Severity T	Locati	Allowed dir	Event source T	Reason T	Effective period		Allowed \$	Op	eratio
	Prompt		Edge outbo	Add manually	Others	2022-11-09 15:18:52 to	Permanent	0	Modify	Delet
	Unknown		Edge outbo	Add manually	Others	2022-11-09 15:18:52 to	Permanent	0	Modify	Delet

2. In the allowlist, you can view the IP addresses marked as "Allowed" in Alert Management -> Attack alerts and their information. You can also manually add IP addresses to the allowlist.

Note:

IP addresses in the allowlist will directly bypass the IDPS.

Managing the effective period in the allowlist

An IP address whose effective period expires will be automatically removed from the allowlist, and traffic of this IP address will not bypass CFW IDPS anymore. To prevent trusted IP addresses from being automatically removed from the allowlist, you can click **Edit** in the action column on the right side of the allowlist to modify the expiration time for IP addresses.

Block List	Allowed list	Quarant	ined list												В	ackup
Add address	Delete addre	ss All	directions	Sort by valid date	e in reverse 🔻		Separa	ite keyw	ords wi	ith " "; p	ress En	ter to s	eparate fi	ilter tags	Q	φ
IP/Do.	Severity T	Locati	Allowed dir	Event source T	Reason T	Effective period						All	owed	\$	Op	peratio
	Prompt		Edge outbo	Add manually	Others	2022-11-09 15:18:52 to	2022-1	11-09 15	5:19:31		ö	F	Permaner	nt	ОК	Cano
	Unknown		Edge outbo	Add manually	Others	2022-11-09 15:18:52 to	Nov 2	2022	Ŧ		Th		• •		Modify	Delet
	Prompt		Edge inbound	Add manually	Others	2022-11-09 15:18:52 to	30	MO 31	1u	vve 2	3	Fr	5a		Modify	Delet
	Unknown		Edge inbound	Add manually	Others	2022-11-09 15:18:52 to	6 13	7	8 15	9	10 17	11 18	12 19		Modify	Delet
	Prompt		Edge outbo	Add manually	Others	2022-11-09 15:18:35 to	20	21	22	23	24	25	26		Modify	Delet
	Prompt		Edge inbound	Add manually	Others	2022-11-09 15:18:35 to	27	28	29	30	1	2	3		Modify	Delet
Total 6 items							Selec	t time					ОК	1	/1 page	•

Quarantined list

Viewing the quarantined list

1. Click **Quarantined list** to enter the quarantined list.

Block List A	llowed list	list					
All statuses	▼ Sort by valid date in ▼				Separate keywords with " "; p	press Enter to separ	rate filter tags Q
Quarantined i	IP address Asset	T Region T VPC	Quarantined dir	Effective period	Allov	wlist T	Operation
	Public network: * Private network:	Guangzhou	Edge inbound	Start: 2022-11-10 00: Ended: 2022-11-11 00	00:00 IP all 0:00:00	llowlist	view rules Modify Delete

2. In the quarantined list, you can view the IP addresses marked as "Quarantined" in Alert Management -> Attack alerts -> Server compromised and their information.

	•		High	Multiple (18)	53	DNS	First: 2022-11-04 12:33:59 Latest: 2022-11-04 12:34:08	Threat Inte	18	Block <mark>Quaranti</mark> More ▼
Viewi	ng rule	es								

IP addresses of compromised servers are quarantined using security groups. Click **View rules** to go to the enterprise security group page and view detailed rule information.

Access c	ontrol								Enterprise security group descripti
Edge fire	wall rules	NAT firew	vall rules Enter	prise security groups	Intranet ru	ules			
Rule lis	t Rule quota	: 1000 rules				Recen	t operations 🛈		View operation logs
Total ru	ules		Enabled rules	Security g	roups (j)	2022-	11-09 14:29:49		Details
24			22	24					
				Security group details	Increase quota 🗹				
Add rule All statuses	Sort	Batch	h operation More	actions v		Automatic pub	lish 🚯 🌔 Separ	rate keywords with " "; press E	nter to separate filter tags Q
Priority	Access	source (j	Access destination	Destination port (i)	Protocol	Policy (j)	Description (j)	Status	Operatior
1				-1/-1	ANY	Block	Block internet outbou	nd	Modify Add one above Delete
2				-1/-1	UDP	Block	33333		Modify Add one above Delete

Managing the effective period in the quarantined list

An IP address whose effective period expires will be automatically removed from the quarantined list, and the security group rules of this IP address will be deleted as well. To prevent IP addresses of compromised servers from being automatically removed from the quarantined list, you can click **Edit** in the action column on the right side of the quarantined list to modify the expiration time for IP addresses.

Backing up and rolling back rules

Click **Backup rules** to back up existing blocklist and allowlist rules. When the rules are greatly changed, you can click **Roll back** to the right of the backup file to recover the rules.

對時效 成詞表 隔刻表 隔刻表 最近報告: 2022-05-16 16:07:21 1. On the **Back up and roll up rules** page, click **Create backup**, select **Blocklist** or **Allowlist** from the drop-down list, enter a description, and click **OK** to complete the backup.

Back up and roll up rules					>
 1. Backup: You can cre 2. Roll back: Overwrite 3. Backups are cleared you can delete the ear 	eate up to 10 backups of a rule list. T the current rules with the ones in th d when the service is expired or the r ly backups.	The direction is not limited. le selected backup. Back up related resources are released	current rules befo d. When the quota	ore rolling back. a limit is reached,	
Create backup All	▼	Sear	ch by the descrip	tion of the rule $\mid \mathbf{Q}$	¢
Rule list (j)	Description	Backup time	Rules	Ope	eration
Intranet rules		2022-10-25 09:49:40	4	Roll back	Delete
Intranet rules		2022-10-25 09:42:27	2	Roll back	Delete
NAT firewall rules (Singapore)		2022-10-24 20:47:54	2	Roll back	Delete
Total 3 items		20 💌 / page	⊌ ◀ 1	/ 1 page	

2. To roll back rules, click **Roll back** on the right side of the backup list to recover the rules.





Confirm to roll back with the backup

Rolling back to the selected rule backup will overwrite the corresponding rule list, and the existing rules will be deleted. To ensure data security, it is recommended to back up the current list first.



More information

For questions about intrusion defense, please see Intrusion Protection System.

Honeypot Overview

Last updated : 2024-01-24 16:17:26

What is a network honeypot?

A network honeypot is a network-attached system that simulates businesses. Network honeypots expose probes in your network. When an attacker probes a honeypot, the attacker's information and attack method are traced and recorded, which can help you counter the attack. In prioritized protection scenarios, honeypots buy you time to protect businesses.

The Cloud Firewall honeypot service is deployed in Tencent Cloud's honeynet, and does not occupy your network space. The honeypots are isolated from each other as they are deployed in different VPCs. Thus, attackers will not gain lateral movement. Honeypot probes are deployed in your network based on an IP or domain name. Traffic of the specified ports/paths will be forwarded to different honeypot services so as to **trap** attackers.

Features and principles

The Cloud Firewall honeypot service has three main features as follows:

Lures attackers with highly realistic simulations.

Collects attacker information to help you counter attacks.

Delays attackers and secures time to protect networks.

Increase your business security by setting more probes, which require little network resources. Using the highly realistic fake services in the honeynet, you can **deceive** attackers.

Checking the overview

1. Log in to the Cloud Firewall console and click Network Honeypots in the left navigation pane.

2. On the **Network honeypot** page, the overview will be displayed in the upper left corner, and you can quickly check the number of honeypot services, probes, hit honeypots, scanned probes, attacker IPs, and scanned IPs.



3. In the overview, click **View alerts** to go to the **Honeypot events** page, or click **View logs** to go to the **Honeypots** page of the intrusion defense logs.



Viewing the honeypot policy map

The honeypot policy map includes a policy list and a policy view, which take the form of a table and a path chart, respectively. It shows the different paths, honeypot service types, and bait types corresponding to different probe addresses.

Policy list

The policy list shows the honeypot information corresponding to different probe addresses in detail.

Policy list	Policy view			All regions 💌
Probe address	Port/Path	Forwarder	Honeypots	Bait
		-		Weak password
		-		Weak password
		-		Weak password
		-		Capture 0-day exploit
		-		cve-2014-3120

Policy view

The policy view intuitively displays the honeypot information corresponding to different probe addresses in different regions.



You can query specific probe addresses in the view by honeypot filter conditions. For example, you can hover the mouse cursor over **OProbe address** and **OProbe service** to find the corresponding probe and bait of the



honeypot. You can select the checkbox for any condition on this page to find the corresponding service and visualize the information.



Honeypot Service

Last updated : 2024-01-24 16:17:26

The network honeypot service must be associated with a probe to run properly. The **Probes** page is displayed by default after you enter the network honeypot console. You are advised to create a probe first, and then create a honeypot and associate it with the probe.

Creating a honeypot

- 1. Log in to the Cloud Firewall console and click **Network Honeypots** in the left navigation pane.
- 2. On the **Network honeypots** page, select **Honeypots**, and then click **Create honeypot**.

ŀ	lone	ypots Probe	es									
l	Crea	te honeypot	Enable honeypot	Disable honeypot	Delete ho	oneypot	All probes	▼	Separate keywords with	n " "; press Enter to separate f	ilter tags	Q, Ø 1
		Honeypot ID/nam	e Honeypots 🔻	Region ▼	Intera T	Bait		Associated pr	Hit count \$	Captured atta \$	Toggle	Operat
				Singapore				1	0	292		Modify Del
				Singapore				2	0	544		Modify Del

3. In the Create honeypot service window displayed, configure the parameters, and then click OK.

Note

Parameters to be configured vary with the honeypot service selected. For more information, please see Parameters.

1 Select a honeypot	> (2) Set up the he	oneypot > (3) As	sociate with probes	
Prioritized protection				
E Nginx honeypot	WebLogic honeypot	Seeyon OA honeypot	Weaver OA honeypot	MySQL honeypot
Capture 0-day exploit	Counterattack and tracing	Counterattack and tracing	Counterattack and tracing	Counterattack and tracing
Web honeypot	IE honeypot	MongoDB counterattack honeypot	All-port honeypot	
Custom bait	Custom bait	Custom bait		
Database				
Elasticsearch honeypot	Solr honeypot	KeEn Mongo honeypot	Redis honeypot	MongoDB honeypot
cve-2014-3120	Log4j2 remote code executio	0-day exploit capturing	Weak password	Weak password
Web service				
≣	:=	:=		

Parameters

Region: All regions in China are available. The region cannot be modified after the instance is created.

Instance name: Custom instance name.

Honeypot service: Honeypots include ELASTICSEARCH, MYSQL, NGINX, SALTSTACK, SSH, STRUSTS,

WEBLOGIC, and WEB honeypots. Except for the WEB honeypot, all the other honeypots have built-in baits and vulnerabilities.

Interaction type

Real service: High interaction. Real services and baits run on the backend, which actually respond to every request of attackers to deceive attackers, allowing you time to deploy protection measures.

Fake service: Medium interaction. Fake services and baits run on the backend, which generate simulated responses to some requests of attackers and induce attackers to continue their operations, allowing you time to deploy protection measures.

Bait ELASTICSEARCH honeypot: cve-2014-3120. SALTSTACK honeypot: cve-2020-11651. SSH honeypot: weak token. STRUSTS honeypot: cve-2017-12611. WEBLOGIC honeypot: cve-2017-10271. Other honeypots: none. Custom bait MYSQL honeypot, SSH honeypot: You can select a login token and set a password. WEB honeypot: You can select an existing SSH or MySQL honeypot as a custom bait. If you have no SSH or MySQL honeypot, create one and associate it with a probe. Other honeypots: none. Associated probe: You can add an existing probe or create one.

Add existing: Click Add existing, and then select the required probe instance and port number.

Hone	eypots Probes													
Cre	ate honeypot En	able honeypot	Disable honeypot	Delete ho	neypot A	All probes	Ŧ	Sep	arate keywords with " "; p	ress Enter to separa	te filter	tags	Q	¢
	Honeypot ID/name	Honeypots T	Region Y	Intera T	Bait		Associated pr	\$	Hit count \$	Captured atta	\$	Toggle	С)pera
			Singapore				1		0	292			N	<i>I</i> odi1 D
			Singapore				2		0	544			N	Nodif D
			Singapore				2		0	1985			N	/lodi l D
			Frankfurt				1		0	651			N	<i>I</i> odif D
			Frankfurt				0		0	0			N	<i>I</i> odif D



Create: Click **Create**, configure the parameters, and click **OK** to add the probe to the **Create honeypot service** window.

Select a	a honeypot > 2 Set up the honeypot >
3 Associa	ate with probes
Honeypots	
	Deploy the WebLogic service (default port 7001) in the honeyfarm. The actual service uses vulnerabilities as bait. The simulated service supports tracing and counterattack features and can obtain the attacker's device fingerprint, browser fingerprint, egress IP, and third-party social accounts.
Region	\mathbf{v}
	It supports all Chinese regions. The instance cannot be changed after the creation.
Instance name	Please enter the instance name
	60 more character(s) allowed
Interaction type	O Actual service i Simulated service i
Bait	O cve-2017-10271

Managing honeypots

Filtering/Sorting



On the Network honeypots page, click the search box to filter honeypot service events by keywords such as

Honeypot ID or Honeypot name.

Click Honeypots, Region, or Interaction type in the header of the honeypot list to filter honeypot service events.

Click **Associated probes** or **Hit count** in the header of the honeypot list to sort honeypot service events in ascending or descending order.

Enabling honeypots

1.1 On the **Network honeypots** page, you can enable honeypots individually or in batch as follows.

Select a honeypot ID and click



or Enable honeypot.

Select multiple honeypot IDs and click Enable honeypot.

1.2 In the confirmation window displayed, click **OK** to enable the honeypot(s).

Note

When a honeypot is enabled, the traffic of associated probes will be forwarded to it.

Disabling honeypots

1.1 On the **Network honeypots** page, you can disable honeypots individually or in batch as follows.

Select a honeypot ID and click



or Disable honeypot.

Select multiple honeypot IDs and click **Disable honeypot**.

1.2 In the confirmation window displayed, click **OK** to disable the honeypot(s).

Note

When a honeypot is disabled, the traffic of associated probes will not be forwarded to it.

Editing honeypots

1. On the Network honeypots page, select Honeypots, and then click Edit.

2. In the **Modify honeypot service** window displayed, modify the instance name and associated probes, and then click **OK** to save the modification.

Deleting honeypots

1. On the **Network honeypots** page, you can delete honeypots individually or in batch as follows. Select a honeypot ID and click **Delete** or **Delete honeypot**. Select multiple honeypot IDs and click **Delete honeypot**.

2. In the confirmation window displayed, click **OK** to delete the honeypot(s).

Note

After a honeypot is deleted, the virtual environment in which the service runs and related resources will be deleted, and traffic forwarding by associated probes will be automatically canceled. Please proceed with caution.

Probe

Last updated : 2024-01-24 16:17:26

To use the network honeypot service, please associate probes first. You can create probes as follows.

Creating probes

- 1. Log in to the Cloud Firewall console and click **Network Honeypots** in the left navigation pane.
- 2. On the Network honeypot page, click Probes.

Honeypot — Powered	by Tencent TianMu and Tencent Keen Securit	y Lab ——			honeypot quota: 10 Purc	nase & Upgrade 🛽	User docume
Overview	Purchase quota 🗳	Policy list Po	licy view				All regions 🔻
Honeypots	Hit honeypot	Probe address	Port/Path	Forwarder	Honeypots	Bait	
5	0	10.0.0.3	22	-	测试ssh蜜罐	Weak passwo	ord
Remaining quota: 5	Attacker IPs: 0	162.62.126.9	22	-	global_ssh	Weak passwo	ord
Probe	Scanned probes Δ	43.156.157.123	22	-	测试ssh蜜罐	Weak passwo	ord
7	Scanned IPs: 1429	43.156.157.123	80		测试nginx蜜罐	Capture 0-da	y exploit
View alerts View	v logs Powered by: K) 🕅	43.156.157.123	9200	-	123	cve-2014-312	20
Honeypots Probes							

3. On the **Probes** page, click **Create probe**.

4. In the **Create probe** window displayed, select a region, instance name, deployment mode, and honeypot service, and then click **OK**.

Note

Different deployment modes require different parameters. For more information, please see Parameters.

Create probe		×
1 Create pro	be > 2 Associate with probes	
Region	Beijing	
	It supports all Chinese regions. The instance cannot be changed after the creation.	
Instance name	Please enter the instance name	
	60 more character(s) allowed	
Deployment mode	Private IP (i) O Public IP (i) Load balancer	i
EIP	Create EIP 💌	
	Next Cancel	

Parameters

Region: All regions in China are available. The region cannot be modified after the instance is created. Instance name: Enter the name of the instance.

Deployment mode

Private IP: Select a subnet, and an ENI and private IP will be created. You can set the specified port of this IP to forward traffic to the honeypot service.

Public IP: Deploy a probe on an existing public IP to forward all traffic to the specified port of this IP to the honeypot service.

Load balancer: Deploy a probe on an existing CLB instance to forward all traffic of the path on the specified domain name to the honeypot service.

Select a subnet: This should be set when the deployment mode is private IP.

IP address: This should be set when the deployment mode is private IP.

Elastic IP: This should be set when the deployment mode is public IP. Select Create EIP.

Deployment instance: This should be set when the deployment mode is load balancer. Set this as needed.

Domain name: This should be set when the deployment mode is load balancer. Set this as needed.

Forwarder: This should be set when the deployment mode is load balancer. Select a CVM instance in the VPC of the current CLB instance as the backend service of the current listener. Only Linux CVMs are supported.

Honeypot service: Choose **Quick select** or **Advanced settings**.

Quick select: Click **Quick select** and select the desired honeypot service.

Note

As the web honeypot service needs to use an existing SSH/MySQL honeypot as bait, the web honeypot will not automatically associate bait after quick selection. If you click **Quick select** and select the web honeypot when creating a probe, the honeypot service will not be effective right away. You need to find the corresponding web honeypot editor and associate it with an SSH/MySQL honeypot, and then the web honeypot service will take effect.

Create probe				
Create probe	2 Associate with pr	robes		
Create honeypot Select	ct from existing Set later			
Prioritized protection				
E Nginx honeypot	E WebLogic honeypot	Seeyon OA honeypot	Weaver OA honeypot	HySQL honeypot
Capture 0-day exploit	Counterattack and tracing	Counterattack and tracing	Counterattack and tracing	Counterattack and tracing
E Web honeypot	IE honeypot	All-port honeypot		
Custom bait	Custom bait			
Database				
Elasticsearch honeypot	Solr honeypot	KeEn Mongo honeypot	Redis honeypot	E MongoDB honeypot
cve-2014-3120	vulnerability	0-day exploit capturing	Weak password	Weak password
Web service				
∷≡	∷≣	∷≣		
0 selected		Back OK		

Advanced settings: You can add an existing honeypot or create one to associate.

Add existing: Click **Add existing**, select the desired honeypot, and modify the listening port or input path as required.

Note

When the deployment mode is public IP, you can modify the listening port.

When the deployment mode is load balancer, you can modify the input path.



Create: Click **Create**, configure the parameters, and click **OK** to add the honeypot service to the **Create probe** window.

Managing probes

Filtering/Sorting

On the **Probes** page, click the search box to filter probe events by keywords such as **probe ID** or **probe name**.

Click **Region**, **VPC**, **Deployment method**, **Deployment instance**, and **Forwarder** in the header of the probe list to filter probe events.

Click **Forward to honeypot** and **Hit count** in the header of the probe list to display probe events in ascending or descending order.

Enabling probes

1.1 On the **Probes** page, you can enable probes individually or batch enable probes as follows.

Select a probe ID and click



Select multiple probe IDs and click Enable probe.

1.2 In the confirmation window displayed, click **OK** to enable the probe(s).

Disabling probes

1.1 On the **Probes** page, you can disable probes individually or batch disable probes as follows.

Select a probe ID and click

or **Disable probe**.

Select multiple probe IDs and click **Disable probe**.

1.2 In the confirmation window displayed, click **OK** to disable the probe(s).

Modifying probes

1. Log in to the Cloud Firewall console and click Network Honeypots in the left navigation pane.

2. On the Network honeypot page, click Probes.

3. On the **Probes** page, select a probe event and click **Modify**.

4. In the **Modify probe** window displayed, modify the instance name and honeypot service type, and then click **OK** to save the modifications.

Deleting probes

- 1. Log in to the Cloud Firewall console and click Network Honeypots in the left navigation pane.
- 2. On the **Network honeypot** page, click **Probes**.
- 1. On the **Probes** page, you can delete probes individually or batch delete probes.

Select a probe ID and click **Delete** or **Delete probe**.

Select multiple probe IDs and click Delete probe.

2. In the confirmation window displayed, click **OK** to delete the probe(s).

Log Audit

Last updated : 2024-01-24 16:17:26

This topic describes how to view Cloud Firewall logs.

Viewing access control logs

Log in to the Cloud Firewall console and select Log Auditing -> Access Control Logs in the left navigation pane.
 On the Access control logs page, you can view the rule hit logs generated by Cloud Firewall based on the configured access control rules for edge firewalls, NAT firewalls, inter-VPC firewalls, and enterprise security groups.
 On the Edge firewall and NAT firewall pages, you can view two hit lists for inbound rules and outbound rules.

A	Access control logs											
	Edge firewall rules	NAT firewall r	rules	Intranet ru	les							
	All assets	▼ 2021-	-12-09 00:00	D:00 ~ 2022-	-11-09 23:59:59				Separate keywords	with " "; press Enter to sep	parate filter tags	Q, (
	Inbound rule	Outbound rules	i									
	Hit time	Access so	urce (M	Sourc	Access destination	Destin	Pr T	Domain name	Policy T	Firewall instance T	Effective rules	Deta
	2022-11-09 17:18:22						TCP	-	 Observe 			View
	2022-11-09 17:18:21						TCP	-	 Observe 			View

3. Click View in the action column on the right side of the rule hit list.

All assets	▼ 2022-04-01 00:00	0:00 ~ 2022	-11-09 23:59:59 💼	Separate keywords	with " "; press Enter to se	parate filter tags	Q, (
Inbound rule	Outbound rules									
Hit time	Access source (M	Sourc	Access destination	Destin	Pr T	Domain name	Policy T	Firewall instance \mathbf{Y}	Effective rules	Deta
2022-11-09 17:18:22					TCP	-	Observe			View
2022-11-09 17:18:21					TCP	-	 Observe 			View

4. On the **Details of hit rule** page, you can view the hit details of the rule.



etails of h	it rule						
Priority	Access source	Access destination	Destination	Protocol	Policy	Description	Status (j)
1				ANY	• Observe		Add

Note

If the rule is deleted after generation of the log, the status is **Deleted**.

If the rule is modified after generation of the log, the status is **Modified**.

If the rule is not modified or deleted after generation of the log, the status is New.

5. To retrieve and filter access control logs more quickly, you can click

Q,

on the right of an access source or access destination to view all rule hits from or to an IP address.

Access contr	ol logs									
Edge firewall r	ules NAT firewall rules	Intranet r	ules							
All assets	▼ 2022-04-0	1 00:00:00 ~ 202	2-11-09 23:59:59 📋				Separate keywords	with " "; press Enter to sep	parate filter tags	Q
Inbound ru	e Outbound rules									
Hit time	Access source	(M Sourc	Access destination	Destin	Pr T	Domain name	Policy T	Firewall instance T	Effective rules	Det
2022-11-09 17	:18:22	т	Q		TCP	-	 Observe 			Viev

6. Click

<u>+</u>

on the right side of the page to download the logs. You can also set filters, and download up to 60,000 records each time.

Viewing intrusion defense logs

1. Log in to the Cloud Firewall console and select Log Auditing -> Intrusion Defense Logs in the left navigation pane.

2. On the **Intrusion defense logs** page, you can view all the security events generated and recorded by Cloud Firewall in the **Observe** and **Block** modes. There are four lists for intrusions, compromised servers, lateral movements, and network honeypots, and you can view details of inbound and outbound security events.

I	ntrusion defens	e logs	l								
	All assets		▼ 2022-11-	04 00:00:00 ~ 2022-11-10 2	23:59:59 💼						
	Intrusion	Server	compromised	Lateral movements	Honeypot						
	All policies	•	All sources	~				Separate keyw	ords with " "; press Enter to sep	arate filter tags	Q
	Attack type T		Severi T	Access source (Exter	Source Port	Access destination (Destination	Pr T	Occurrence time	Policy	Source
	Þ							TCP	2022-11-10 12:11:22	-	Threat I
	Þ							TCP	2022-11-10 12:11:21	-	Threat I
	ŀ							TCP	2022-11-10 12:11:21	-	Threat I
	F							TCP	2022-11-10 12:11:09	-	Threat I

Viewing traffic logs

1. Log in to the Cloud Firewall console and select Log Auditing -> Traffic Logs in the left navigation pane.

2. On the **Traffic logs** page, you can view the 10-tuple information of north-south traffic generated by edge firewalls and NAT firewalls based on outbound and inbound traffic, as well as east-west traffic between VPCs.

Traffic logs Edge firewalls NAT firew	alls Inter-V	PC firewall										
All assets 💌	2022-11-03 00:	00:00 ~ 202	2-11-09 23:59:59									
Traffic in Traffic out												
All protocols 🔻							Separat	te keywords with " "	press Enter to separ	ate filter tags	Q	¢
Time	Access source	Sourc	Public netwo	Public	Private netw	Privat	Protocol	Stream bytes	Flow messages	Region	ISP	
Started: 2022-11-09 11:04:33 Ended: 2022-11-09 11:06:36									3	-	-	
Started: 2022-11-09 11:04:29 Ended: 2022-11-09 11:06:38									3	-	-	
Started: 2022-11-09 11:04:26 Ended: 2022-11-09 11:06:35									3	United States	-	
Started: 2022-11-09 11:04:25 Ended: 2022-11-09 11:06:28									3	-	-	

3. Query and filter logs by asset instance name. You can click **All assets** in the upper left corner, and select an asset instance name in the drop-down list to filter the logs and query all traffic logs of the asset.



ll assets		▼ 2022-11	2-11-03 00:00:00 ~ 2022-11-09 23:59:59		
	Instance	Instance ID	Asset	IP address	

4. To retrieve and filter logs more quickly, you can click

Q,

on the right of an access source or access destination to view all traffic from or to an IP address.



Traffic in Traffic out										
All protocols					Acces	s source:	Public netw	ork	Q	Φ
Time	Access source Sourc.	. Public netwo Public	Private netw	Privat	Protocol	Stream bytes	Flow messages	Region	ISP	
Started: 2022-11-09 18:13:46 Ended: 2022-11-09 18:14:46	Q	Q	Q		TCP	40	1	Ashburn,Virgin	-	

Authorizing private network traffic logs

1. Log in to the Cloud Access Management console, and select Roles in the left navigation pane.

2. On the Roles page, click Create Role, select your Tencent Cloud account, and enter the role creation page.

3. On the page, select Other root account, enter the traffic log public account 91000000202, and click Next.

4. Search for the keyword log service, authorize full read/write permissions for the log service

QcloudCLSFullAccess, and click Next.

5. Enter the role name **FlowLogClsRole**, and click **Complete** to create the role.

Viewing operation logs

Log in to the Cloud Firewall console and select Log Auditing -> Operation Logs in the left navigation pane.
 On the Operation logs page, you can view all actions performed on the Security Policies and Toggles pages of the account and their details.

Operation logs					
Firewall toggles Asset	management Access contro	Intrusion defense	Address template Log	shipping Network hone	/pot Logins
Toggle Instance configura	ation 2022-11-03 00:00:00 ~ 20	22-11-09 23:59:59			Search by operator account/operation Q
Time	Operator account	Access control type 🔻	Action T	Details	Severity level T
2022-11-09 11:39:24					Prompt
2022-11-09 11:31:07					Prompt
2022-11-09 11:30:53					Medium
2022-11-09 11:30:45					Medium

Tabs:

Firewall toggles: Records firewall toggle operations.

Instance configuration: Records the configuration details of instances.

Access control: Records add, modify, and delete operations on access control rules.

Intrusion defense: Records the operation details of intrusion defense modules. Security baseline: Records security baseline operations. Address templates: Records the operation details of address templates. Enterprise security groups: Records the operations on enterprise security groups. Log shipping: Records the details of log shipping operations. Logins: Records the login status of all accounts of the user.

More information

For questions about log auditing, please see Log.

Log Analysis

Last updated : 2024-01-24 16:17:26

Log Analysis allows you to view details of all traffic logs of the login account stored in Cloud Firewall for the past 6 months, query logs with search statements, and use reporting and analysis services. This topic describes how to use Log Analysis.

Viewing log analysis data

1. Log in to the Cloud Firewall console and click Log Analysis in the left navigation pane.

2. Drag your mouse on the bar chart in blue to quickly select a time range to search and click a bar to check the logs.

Note

Cancel: Click **Cancel** in the upper right corner of the bar chart and the bar chart will show the number of logs for today by default.

If you change the time and log type or enter new keywords to search again, the bar chart will show the number of logs for today by default.



3. The log list displays the field details of each traffic log in the order the fields appear in **Display fields**. When the **Display fields** module only contains **source**, the list displays the field details of each traffic log in the order the fields appear in **Hide fields**.

Display fields		[]
_source	Time ↓	_source
Hide fields		timestamp: 2022-11-09T11:49:34.000+08:00 src_ip: 192.168.5.13 src_port: 46958 dst_ip: 100.115.0.57
Time timestamp		dst_port: 9922 protocol: TCP direction: Outbound domain: - address_en: - country_en: -
Text src_ip	▶ 2022-11-09 11:49:34	end_time: 2022-11-09 11:51:37 fwsid: cfwnat-cca8546c fw_region: ap-singapore
Value src port		instance_id: ins-gw1le6ku in_pkt_count: 0 in_pkt_len: 0 nat_ip: 43.156.152.131 nat_port: 5201
		out_pkt_count: 3 out_pkt_len: 180 province_en: - retans: 1 start_time: 2022-11-09 11:49:34
Text dst_ip		status: O supplier_en: - tags_en: - timeout: O total_pkt_count: 3 total_pkt_len: 180
Value dst_port		
Text protocol		timestamp: 2022-11-09T11:49:32.000+08:00 src_ip: 192.168.5.8 src_port: 35894 dst_ip: 9.4.0.10
Text direction		dst_port: 9922 protocol: TCP direction: Outbound domain: - address_en: United States of America
		country_en: United States of America end_time: 2022-11-09 11:51:36 fwsid: cfwnat-cca8546c
Text domain	2022-11-09 11:49:32	<pre>fw_region: ap-singapore instance_id: ins-90txh2u8 in_pkt_count: 0 in_pkt_len: 0</pre>
Text address_en		<pre>nat_ip: 43.156.152.131 nat_port: 28400 out_pkt_count: 3 out_pkt_len: 180 province_en: -</pre>
Text country_en		retans: 1 start_time: 2022-11-09 11:49:32 status: 0 supplier_en: - tags_en: - timeout: 0
		total_pkt_count: 3 total_pkt_len: 180
lext end time		

Show: Hover your mouse over a hidden field and click **Show**. This field will appear under **Display fields** and its details will be displayed in the log list on the right.

Display fields			
_source		Time ↓	_source
Hide fields			timestamp: 2022-11-09T11:49:34.000+08:00 src_ip: 192.168.5.13 src_port: 46958 dst_ip: 100.115.0.5
lime timestamp	Show		dst_port: 9922 protocol: TCP direction: Outbound domain: - address_en: - country_en: -
Text src ip		2022-11-00 11:40:34	end_time: 2022-11-09 11:51:37 fwsid: cfwnat-cca8546c fw_region: ap-singapore
		F 2022-11-09 11.49.04	<pre>instance_id: ins-gw1le6ku in_pkt_count: 0 in_pkt_len: 0 nat_ip: 43.156.152.131 nat_port: 52</pre>
Value src_port			out_pkt_count: 3 out_pkt_len: 180 province_en: - retans: 1 start_time: 2022-11-09 11:49:34
Text dst in			status: O supplier en: - tags en: - timeout: O total pkt count: 3 total pkt len: 180

Hide: Hover your mouse over a displayed field and click **Hide**. This field will be deleted from **Display fields** and its details will not be displayed in the log list on the right.

Display fields					Ę
Time timestamp	<u>Hide</u>		Time ↓	_source	
Text src_ip		•	2022-11-09 11:49:34	timestamp: 2022-11-09T11:49:34.000+08:00 src_ip: 192.168.5.13	
Hide fields Value src_port		•	2022-11-09 11:49:32	timestamp: 2022-11-09T11:49:32.000+08:00 src_ip: 192.168.5.8	
Text dst_ip Value dst_port		•	2022-11-09 11:49:29	timestamp: 2022-11-09T11:49:29.000+08:00 src_ip: 192.168.5.13	

Log shipping

You can use log shipping to automatically ship Cloud Firewall logs to specified Cloud Kafka (CKafka) instances. This section describes how to use the log shipping feature of Log Analysis.

Background

You can ship logs to specified CKafka topics based on Cloud Firewall log types.

Log shipping supports two network access methods: public domain name and supported environment.

For access via public domain name, logs are shipped through the public network.

For access via supported environment, logs are shipped through Tencent Cloud private network, which effectively enhances the performance.

Prerequisites

You need to purchase Cloud Kafka instances first, and set the bandwidth of the CKafka instance based on the Cloud Firewall bandwidth.

Please see Cloud Kafka for more information, and contact us to enable the allowlist for "access via public domain name" or "access via supported environment".

You can only use one CKafka account for log shipping.

Configurations

1. Log in to the Cloud Firewall console and click Log Analysis in the left navigation pane.

2. Click Log shipping in the upper left corner.

Log analysis				
Log shipping	Today	Yesterday	Last 7 days	Last 30 days

3. Configure the initial settings on the log shipping page.

3.1 Select the network access method: public domain name or supported environment.

Method 1: Select Public domain name and then select the message queue instance and public domain name.

Enter the user name and password of the selected instance.

Network	🔵 Public domain name	Supported en	vironment	
access				
1000000	Diagon polocit	- 0	Lloornomo	Diagon onter the upername
oueue	Please select	Ψ ų	G	Flease enter the username
nstance			Ŭ	
Public	Please select	•	Password	Please enter the user password

Method 2: Select **Supported environment** (Tencent Cloud products that you purchased and can be used with CKafka), and then select the message queue instance and IP port.


Configure log shipping								
Network access	Public domain name	O Suppo	orted environment					
Message queue instance	Please select	•	¢					
Supported environment	Please select	•						

3.2 Associate a CKafka topic on the log shipping page.

Note

You can ship multiple types of Cloud Firewall logs to their specified CKafka topics. One CKafka topic can only be associated with one Cloud Firewall log type.

Log type	Log topic	Topic ID/name (j)
internetFlowLog	Traffic logs - Edge firewalls	Please select
natFlowLog	Traffic logs - NAT firewall	Please select
vpcFlowLog	Traffic logs - VPC edge	Please select

5. After configuration, you can view the log shipping details.



Log shipping				View user documen	t 🗹 Go to CMQ console 🗹
Instance name		Public domain name		Instance ID	
Status	Healthy	Region	Singapore	Edition	1.1.1
Availability zone	-	Peak bandwidth	320	Network	
Disk capacity	500	Subnet		Username	
Enable all	Suspend all	View monitoring	Reset configu	ration Chan	ge password
Log type		Topic ID/name	Ship	Shippin	Operat
internetFlowLog Traffic logs - Edg	ge firewalls		-		Modify View monitor
natFlowLog Traffic logs - NAT	「firewall		Normal		Modify View monitor
vpcFlowLog Traffic logs - VPC	Cedge		Normal		Modify View monitor

Basic info: shows the basic information of CKafka instances.

Note

When you see **Unhealthy** in the **Status** field, click **View monitoring** to check whether CKafka is abnormal or whether the quota is insufficient.

Shipping status: Toggles the log shipping on/off to control a specified log type.

Method 1: Toggle on or off under **Shipping status** on the right side of each log type.

Method 2: Disable/enable in batch. You can select **Enable all** or **Disable all**.

Change CKafka topic: In the action column on the right side of a log type, click **Edit** to configure it individually. You can select a CKafka topic not associated with other Cloud Firewall log types in the specified CKafka instance.

Note

One CKafka topic can only be associated with one Cloud Firewall log type.

View monitoring: In the action column on the right side of a log type, click **View monitoring** to go to the monitoring page of the CKafka console, where you can view network traffic, peak bandwidth, message quantity, disk usage, etc. **Change configuration**: Click **Change configuration** above the log type list, and then select the message queue instance to ship, network access method, and user name/password.

Note

This will interrupt the current shipping process.

Change password: click **Change password** above the log type list to modify the user name and password of CKafka.

Log Fields Log Subfield

Last updated : 2024-09-06 17:46:24

Log Type ID	Log Type Name
CFWRuleAcl	Access control logs - Edge Firewall
CFWRuleVpcAcl	Access control logs - NAT Firewall and Inter-VPC Firewall
HoneyPotHost	Intrusion defense logs - honeypot - host logs
HoneyPotNetwork	Intrusion defense logs - honeypot - network logs
BlockList	Intrusion defense logs - interception list logs
ldsLog	Intrusion defense logs - virtual patches and basic defense logs
TiLog	Intrusion defense logs - threat intelligence logs
BaseLineLog	Intrusion defense logs - security baseline logs
CFWOnline	Traffic logs - Edge Firewall
CFWNetflowVpc	Traffic logs - VPC
CFWNetflowNat	Traffic logs - NAT
CFWNetflowFl	Traffic logs - private network traffic
CFWOperateLogAll	Operation logs

Access Control Logs

Last updated : 2024-09-06 17:47:53

Field Identifier	Field Type	Field Name	Field Description	Reference Values	Specific Types
src_ip	string	Source IP	-	192.168.0.1	CFWRuleAcl,CFWRuleVpcAc
dst_ip	string	Destination IP	-	192.168.0.1	CFWRuleAcl,CFWRuleVpcAc
src_port	uint16	Source port	-	22	CFWRuleAcl,CFWRuleVpcAc
dst_port	uint16	Destination port	-	22	CFWRuleAcl,CFWRuleVpcAc
protocol	string	Protocol	-	tcp	CFWRuleAcl,CFWRuleVpcAc
info	string	URL information	URL of HTTP hit log	domain/testphp	CFWRuleAcl
direction	int8	Direction	Specify the traffic direction of a rule	Outbound	CFWRuleAcl,CFWRuleVpcAc
detail	string	Rule alarm description (including rule description)	Alarm details information	-	CFWRuleAcl,CFWRuleVpcAc
rule_info	string	Rule alarm details (for associating with rules)	-	-	CFWRuleAcl
strategy	string	Policies	Action policy for rule execution		CFWRuleAcl,CFWRuleVpcAc
time	int64	Events	Time of rule hit	-	CFWRuleAcl,CFWRuleVpcAc

🔗 Tencent Cloud

appid	string	appid	Account appid	-	CFWRuleAcl
instance_id	string	Victim- related asset ID	Victim- related asset ID	-	CFWRuleAcl,CFWRuleVpcAc
uuid	string	Unique ID of the original alarm log	Unique ID of the original alarm log	-	CFWRuleAcl
uid	int64	Unique ID of the rule	Unique ID of the rule (for internal use)	-	CFWRuleAcl
insert_time	int64	Log insertion time	Time of recording this log	-	CFWRuleAcl,CFWRuleVpcAc
mode	uint8	Firewall attributes	0: bypass 1: serial	-	CFWRuleAcl
type	uint8	Protocol TYPE	Protocol TYPE: 1: TCP 3: HTTP	-	CFWRuleAcl
fw_type	string	Firewall type	Firewall type to which the rule belongs	NAT Firewall	CFWRuleAcl,CFWRuleVpcAc
timestamp	string	Timestamp	Current time	-	CFWRuleAcl,CFWRuleVpcAc
fws_id	string	Engine instance ID		cfwnat-fd7f678e	CFWRuleVpcAcl
nat_ins_name	string	NAT instance name	-	-	CFWRuleVpcAcl
log_type	uint8	Log type (for internal	Current log type fixed	-	CFWRuleVpcAcl





		use)	value: 5		
dst_vpc	string	Victim assets VPCID	-	-	CFWRuleVpcAcl
fws_name	string	Engine instance name	-	-	CFWRuleVpcAcl
src_vpc	string	Attacker assets VPCID	-	-	CFWRuleVpcAcl
region	string	Region	-	-	CFWRuleVpcAcl
dst_domain	string	External domain name	External domain name information	-	CFWRuleVpcAcl
l7proto	string	Seven- Layer protocol name	-	DNS,SMTP,HTTP	CFWRuleVpcAcl
src_vpc_name	string	Access source VPC name	-	-	CFWRuleVpcAcl



dst_vpc_name	string	Access destination VPC name	-		CFWRuleVpcAcl
ew_ins_id	string	VPC wall instance ID	-	-	CFWRuleVpcAcl
ew_ins_name	string	VPC wall instance name	-	-	CFWRuleVpcAcl
src_ins_id	string	Access source asset ID	-	-	CFWRuleVpcAcI
dst_ins_id	string	Access destination asset ID	-	-	CFWRuleVpcAcl



src_ins_name	string	Access source instance name	-	-	CFWRuleVpcAcl
dst_ins_name	string	Access destination instance name	-	-	CFWRuleVpcAcl

Intrusion Defense Logs

Last updated : 2024-09-06 17:49:46

Field Identifier	Field Type	Field Name	Field Description	Reference Values
instance_id	string	Victim- related asset ID	-	-
time	int64	Alarm occurrence time	-	-
src_ip	string	Source IP	-	192.168.0.1
dst_ip	string	Destination IP	-	192.168.0.1
src_port	int64/int	Source port	-	-
dst_port	int64/int	Destination port	-	-
direction	int64	Direction	0: outbound 1: inbound	-



			TCP protocol alarm: session direction Session protocol: traffic direction	
protocol	string	Protocol	-	TCP
strategy	string	Alarm action	Handling action for alarms 0: observe 1: block 2: allow 3: deceive	0
strategy_res	string	Alarm action identification ID	-	strage_alert
event_name	string	Attack event type	-	Log4j2 vulnerability exploitation
eventname_res(event_name_res)	string	Attack event type identification ID	-	log4j2_exploit
dst_domain	string	External domain name	-	-
level	string	Alarm level	Alarm severity level	Critical
level_res	string	Alarm level	-	level_serious



		identification ID		
level_int	int	Alarm level number	-	5
address	string	City where the attack IP is located	-	Shenzhen, Guangdong Province, China
address_en	string	City where the attack IP is located	-	Shenzhen, China
insert_time	int64	Alarm storage time	-	2023/1/1 0:00:00
service_id	string	Honeypot ID	-	-
type	string	Alarm sub- type identification	-	ti
sub_source_type	string	Alarm sub- type	Alarm classification, including Virtual Patching, Basic Defense, Ban List, Network Honeypot, etc.	Virtual Patching
sub_source_type_res	string	Alarm sub- type identification ID	Alarm sub-type identification ID, source_virtualpatch Virtual Patching, source_basicrule Basic Defense, etc.	source_virtualpatch



payload	string	Attack payload	Payload information of attack traffic	-
cmdline	string	Command	Network honeypot host event, sensitive command executed in the honeypot	bash -c ifconfig execve /bin/bash m=100755 o₌
template_id	string	Network honeypot template ID	-	-
docker_id	string	Unique ID of network honeypot	-	-
proc_chan	string	Process tree	Process tree of the network honeypot host event	bashP{
kill_chain	string	Attack chain	Attack chain, attack phase of the alarm event	Vulnerability exploitatio
kill_chain_res	string	Attack chain identification ID	-	kill_chain_exploit
event_id	string	Alarm ID	-	-
exe	string	Executable file path	-	/sbin/ifconfig
probe_id	string	Probe ID	-	probe-id
service_type	string	Network honeypot type	Network honeypot type	SSH Honeypot
service_type_res	string	Network honeypot type	-	ssh_honeypot



		identification ID		
script_name	string	Network honeypot script name	-	-
log_source	string	Data source	The alarm values for Inter-VPC Firewalls and intranet honeypots are set to move. The alarm value for honeypot hosts is set to host. The alarm value for public network honeypots is set to network.	move
login_user	string	Attack a logged-in user	-	[root, 1qaz!QAZ]
visible_tag	int	Visibility	-	-
timestamp	string	Alarm timestamp	-	2023-01- 01T00:00:00+08:00
ti_type	string	Associated intelligence threat type tag (included in the alarm)	-	["SSH Honeypot Attack","Conventional Network Brute Force","Brute Force Attack"]
ti_type_en	string	Associated intelligence threat type tag (included in the alarm)	-	["SSH honeypot attack","General netwo cracking","Brute force"]

🔗 Tencent Cloud

ti_white	string	Allowlist tag (included in the alarm)	-	Intelligence allowlist
ti_white_res	string	Allowlist tag (included in the alarm) identification ID	-	intelligence_allowlist
src_country	string	Source country	The country where the source IP is located	United States of Americ
src_country_en	string	Source country - English	The country where the Source IP is located - English	United States of Americ
dst_country	string	Destination country	The country where the destination IP is located	United States of Americ
dst_country_en	string	Destination country - English	The country where the destination IP is located - English	United States of Americ
attack_vector	string	Attack exploitation method	-	code-exec
attack_count	int	Number of alarms	-	-
nat_ip	string	NAT IP	NAT public IP address	8.8.8.8
nat_port	int	NAT port	NAT public network port	-
fws_id	string	Firewall ID	-	-
fw_type	string	Firewall type	Firewall type, including: vpc: Inter-VPC Firewall nat: NAT Firewall	nat





			sg: enterprise security group empty: edge firewall	
src_vpc	string	ID of the VPC where the attacker asset is located	-	-
dst_vpc	string	ID of the VPC where the victim asset is located	-	-
src_ins_id	string	Attacker- related asset ID	-	-
dst_ins_id	string	Victim- related asset ID	-	-
nat_ins_id	string	NAT instance ID	-	-
nat_ins_name	string	NAT instance name	-	-

Traffic Logs

Last updated : 2024-09-06 17:50:48

Field Identifier	Field Type	Field Name	Field Description	Reference Values	Specific Types	Rema
appid	string	appid	-	-	CFWOnline, CFWNetflowVpc, CFWNetflowNat, CFWNetflowFl	-
instance_id	string	Asset instance ID	-	-	CFWOnline, CFWNetflowNat	-
src_ip	string	Source IP	-	192.168.0.1	CFWOnline, CFWNetflowVpc, CFWNetflowNat, CFWNetflowFl	-
dst_ip	string	Destination IP	-	192.168.0.1	CFWOnline, CFWNetflowVpc, CFWNetflowNat, CFWNetflowFl	-
src_port	uint16	Source port	-	-	CFWOnline, CFWNetflowVpc, CFWNetflowNat, CFWNetflowFl	-
dst_port	uint16	Destination port	-	_	CFWOnline, CFWNetflowVpc, CFWNetflowNat, CFWNetflowFl	-
protocol	string	Protocol	-	-	CFWOnline, CFWNetflowVpc, CFWNetflowNat, CFWNetflowFl	-
direction	int8	Direction	Traffic direction	Outbound	CFWOnline, CFWNetflowVpc, CFWNetflowNat, CFWNetflowFl	sd-wa
dst_domain	string	Access	-	-	CFWOnline,	-



		destination domain name			CFWNetflowNat	
in_pkt_count	uint64	Number of inbound packets	-	-	CFWOnline, CFWNetflowVpc, CFWNetflowNat, CFWNetflowFl	-
in_pkt_len	uint64	Inbound packet size	-	-	CFWOnline, CFWNetflowVpc, CFWNetflowNat, CFWNetflowFl	-
out_pkt_count	uint64	Number of outbound packets	-	-	CFWOnline, CFWNetflowVpc, CFWNetflowNat, CFWNetflowFl	-
out_pkt_len	uint64	Outbound packet size	-	-	CFWOnline, CFWNetflowVpc, CFWNetflowNat, CFWNetflowFl	-
total_pkt_count	uint64	Number of total packets	-	-	CFWOnline, CFWNetflowVpc, CFWNetflowNat, CFWNetflowFl	-
total_pkt_len	uint64	Total packet size	-	-	CFWOnline, CFWNetflowVpc, CFWNetflowNat, CFWNetflowFl	-
ti_tag	string	Associated intelligence tags (included in the alarm)	-	-	CFWOnline, CFWNetflowNat	-
start_time	int64	Session start time	-	-	CFWOnline, CFWNetflowVpc, CFWNetflowNat, CFWNetflowFl	-
end_time	int64	Session end time	-	-	CFWOnline, CFWNetflowVpc, CFWNetflowNat, CFWNetflowFl	-



supplier	string	ISP	-	-	CFWOnline, CFWNetflowVpc, CFWNetflowNat	sd-wa
supplier_en	string	ISP - English	-	-	CFWOnline, CFWNetflowVpc, CFWNetflowNat	sd-wa
src_country	string	Source country	The country where the source IP is located	-	CFWOnline, CFWNetflowVpc, CFWNetflowNat	sd-wa
src_country_en	string	Source country - English	-	-	CFWOnline, CFWNetflowVpc, CFWNetflowNat	sd-wa
dst_country	string	Destination country	The country where the destination IP is located	-	CFWOnline, CFWNetflowVpc, CFWNetflowNat	sd-wa
dst_country_en	string	Destination country - English	-	-	CFWOnline, CFWNetflowVpc, CFWNetflowNat	sd-wa
src_province	string	Source province	-	-	CFWOnline, CFWNetflowVpc, CFWNetflowNat	sd-wa
src_province_en	string	Source province - English	-	-	CFWOnline, CFWNetflowVpc, CFWNetflowNat	sd-wa
dst_province	string	Destination province	-	-	CFWOnline, CFWNetflowVpc, CFWNetflowNat	sd-wa
dst_province_en	string	Destination province - English	-	-	CFWOnline, CFWNetflowVpc, CFWNetflowNat	sd-wa
src_city	string	Source city	-	-	CFWOnline, CFWNetflowVpc, CFWNetflowNat	sd-wa
dst_city	string	Destination	-	-	CFWOnline,	sd-wa



		city			CFWNetflowVpc, CFWNetflowNat	
district	string	Region	-	-	CFWOnline, CFWNetflowNat	-
address	string	Detailed address	Inbound is the source detailed address Outbound is the destination detailed address	-	CFWOnline, CFWNetflowVpc, CFWNetflowNat	sd-wa
address_en	string	Detailed address - English	Inbound is the source detailed address - English Outbound is the destination detailed address - English	-	CFWOnline, CFWNetflowVpc, CFWNetflowNat	sd-wa
src_lat	float32	Source dimension	-	-	CFWOnline, CFWNetflowVpc, CFWNetflowNat	sd-wa
dst_lat	float32	Destination dimension	-	-	CFWOnline, CFWNetflowVpc, CFWNetflowNat	sd-wa
src_lon	float32	Source longitude	-	-	CFWOnline, CFWNetflowVpc, CFWNetflowNat	sd-wa
dst_lon	float32	Destination longitude	-	-	CFWOnline, CFWNetflowVpc, CFWNetflowNat	sd-wa
insert_time	int64	The time when the log is generated and written into the database	-	-	CFWOnline, CFWNetflowNat	-



count	uint64	Number of alarms	-	-	CFWOnline	-
url	string	Layer-7 URL	-	-	CFWOnline	-
domain_flag	uint8	Whether the domain name exists	1: exist 0: not exist	-	CFWOnline	-
port_status	uint8	Port status	1: open 0: close	-	CFWOnline	-
bot_flag	uint8	Reserved field	-	-	CFWOnline	-
mode	uint8	Firewall attributes	1: serial 0: bypass	-	CFWOnline	-
argus_ip	uint32	Reserved field	-	-	CFWOnline	-
tcp_flag	uint8	TCP label	1: OUTSyn 2: OUTRst 3: OutSynAck 4: OUTFin 5: INSyn 6: INRst 7: INSynAck 8: InFin	_	CFWOnline	-
timestamp	string	Unified timestamp	-	-	CFWOnline, CFWNetflowVpc, CFWNetflowNat, CFWNetflowFl	sd-wa
cvm_id	string	Reserved field	-	-	CFWNetflowVpc	-
ew_ins_id	string	VPC Firewall instance ID	-	-	CFWNetflowVpc	-
fws_id	string	VPC Firewall edge ID	-	-	CFWNetflowVpc, CFWNetflowNat	-
fws_name	string	VPC Firewall name	-	-	CFWNetflowVpc	-
log_type	uint8	Log type (for internal use)	Current log type fixed value: 2	-	CFWNetflowVpc	-



if_pair_key	string	Reserved field	-	-	CFWNetflowVpc	-
uuid	int64	Unique ID of original alarm log	-	-	CFWNetflowVpc	-
flow_id	int65	Internal field	-	-	CFWNetflowVpc	-
src_vpc	string	ID of the VPC where the attacker asset is located	-	-	CFWNetflowVpc	-
dst_vpc	string	ID of the VPC where the victim asset is located	-	-	CFWNetflowVpc	-
dst_vpc_name	string	Destination VPC name	-	-	CFWNetflowVpc	-
src_vpc_name	string	Source VPC name	-	-	CFWNetflowVpc	-
retans	int8	ls there a retransmission	1: retransmission 0: no retransmission	-	CFWNetflowVpc, CFWNetflowNat	-
status	uint8	Disposition status	-	-	CFWNetflowVpc, CFWNetflowNat	-
timeout	int64	Session duration	-	-	CFWNetflowVpc, CFWNetflowNat	-
src_ins_id	string	Attacker- related asset ID	-	-	CFWNetflowVpc, CFWNetflowFl	-
dst_ins_id	string	Victim-related asset ID	-	-	CFWNetflowVpc, CFWNetflowFl	-
src_ins_name	string	Source asset name	-	-	CFWNetflowVpc	-
dst_ins_name	string	Destination asset name	-	-	CFWNetflowVpc	-

🔗 Tencent Cloud

is_out	int8	Identifier of SD-WAN firewall accessing the public network	1: access public network 0: normal access	_	CFWNetflowVpc	sd-wa
ti_tag_en	string	Attacker IP intelligence tag - English	-	-	CFWNetflowNat	-
fw_type	string	Alarm sub- type	-	-	CFWNetflowNat	-
fw_region	string	Region where the firewall is located	-	-	CFWNetflowNat	-
nat_ip	string	NAT IP	NAT IP address	-	CFWNetflowNat	-
nat_port	uint16	NAT port	-	-	CFWNetflowNat	-
if_id	string	Network interface ID	-	-	CFWNetflowFl	-
action	string	Alarm action	Alarm handling action	Block, allow	CFWNetflowFl	-

Operation Logs

Last updated : 2024-09-06 17:52:07

Field Identifier	Field Type	Field Name	Specific Types
level	string	Danger level	CFWOperateLogAll
operator	string	Operator	CFWOperateLogAll
result	string	Operation result	CFWOperateLogAll
fw_type	string	Firewall type	CFWOperateLogAll

action	string	Firewall switch - operation behavior Asset center operation - operation behavior Access control operation - operation behavior Zero trust protection operation - operation behavior Intrusion defense operation - operation operation - operation behavior Network honeypot operation - operation behavior Network honeypot operation - operation behavior Settings operation - operation	CFWOperateLogAll
opt_type	string	Operation	CFWOperateLogAll



		logs category	
detail	string	Firewall Switch - operation details Asset center operation - operation details Access control operation - operation details Zero trust protection operation - operation details Intrusion defense operation - operation behavior Address template operation - template operation - template description Network honeypot operation - operation operation - operation details	CFWOperateLogAll,CFWOperateWebAccess



		operation details	
time	string	Occurrence time	CFWOperateLogAll
app_id	string	Unique ID of the tenant	CFWOperateLogAll
info	string	Access control operation - rule description Intrusion defense operation - operation details Address template operation - operation details	CFWOperateLogAll
longitude	float32	Source longitude	CFWOperateLogAll



address	string	Source city	CFWOperateLogAll,CFWOperateRemoteOM
district	string	District and county of the source city	CFWOperateLogAll
more_info	string	Additional information	CFWOperateLogAll
rule	string	Rule list	CFWOperateLogAll



instance_region	string	Asset instance region	CFWOperateLogAll
public_ip	string	Honeypot public IP	CFWOperateLogAll
remote_type	string	Operation type General settings operation - log type	CFWOperateLogAll
services	string	Honeypot detailed information	CFWOperateLogAll



template_id	string	Honeypot template ID	CFWOperateLogAll
region	string	Asset region	CFWOperateLogAll,CFWOperateWebAccess
instance_id	string	Related asset ID	CFWOperateLogAll,CFWOperateRemoteOM
asset_type	string	Asset classification	CFWOperateLogAll



addr_name	string	Template name	CFWOperateLogAll
base_type	string	Baseline type	CFWOperateLogAll
timestamp	string	Alarm timestamp	CFWOperateLogAll,CFWOperateRemoteOM,CFWOperateW
level_res	string	Danger level identification ID	CFWOperateLogAll



action_res	string	Operation behavior identification ID	CFWOperateLogAll
detail_res	string	Operation detail identification ID	CFWOperateLogAll
rulelist	string	Rule list	CFWOperateLogAll



appid	string	appid	CFWOperateLogAll,CFWOperateWebAccess
instance_region_res	string	Asset instance region identification ID	CFWOperateLogAll



rule_res	string	Rule list identification ID	CFWOperateLogAll
natinsid	string	NAT instance ID	CFWOperateLogAll



remote_type_res	string	Operation type identification ID	CFWOperateLogAll
detail_id	string	Operation details asset ID	CFWOperateLogAll
base_type_res	string	Security baseline type	CFWOperateLogAll


Notifications and Settings

Last updated : 2024-09-06 17:53:51

Subscribing to Message Center

CFW adopts non-subscription push by default. Refer to the Notification Settings for the Notification Account configuration. CFW will automatically recognize accounts used for login to the CFW console and add them to the optional list.

1. Log in to the CFW console, and click Notification Settings in the left sidebar.

2. On the Notification Settings page, configure push notifications for the firewall. If you need to switch to subscriptionbased push or enable Message Center configurations, you can click the the **Switch** of the **Enable message subscription**.

Enable message subscription
The settings in Message Center prevails the notification setting of CFW. For details, see Message Subscription 🗹.
Enable message subscription

Note:

After the Message Center is enabled, all alert objects in the Notification Settings for all alarm types will be invalid. Details are subject to the Message Center settings.

Notification settings		
Enable message subsc The settings in Message Cen Enable message subscription	r ription Iter prevails the notification setting of CFW. For details, see M	lessage Subscription 🗹 .
Security alert settings CFW supports SMS and inte Sent to (j)	rnal message notifications for security event alarms in the alar	m center. Please select the recipients and alarm sources.

Configure Notification Settings

On the Notification Settings Page, you can configure common firewall alarms and notifications.

Notification Type	Notification Content	Supported Configuration Items
Security Alarm Notification	CFW supports SMS, message center, and WeChat notifications for security event alarms in the Alarm Center. You can configure objects and alarm sources in the console.	Supports configuring Tencent Cloud security WeChat service account alarms. Supports triggering notifications based on alarm type.
Bandwidth Alarm Notification	We provide three-tier bandwidth alarms. When the firewall bandwidth reaches the threshold percentage you set, it will trigger alarm notifications via SMS, message center, and WeChat for the selected account.	Supports distinguishing different cascaded alerts based on firewall type.
Capacity Alarm Notification	We provide two-tier storage alarms. When the firewall storage reaches the threshold percentage you set, it will trigger alarm notifications via SMS, message center, and WeChat for the selected account.	Supports configuring cascaded alarms.
Disaster Recovery Alarm Notification	When your NAT Firewall or Inter-VPC Firewall triggers BYPASS, it will trigger alarm notifications via SMS, message center, and Email for the selected account.	-
Enterprise Security Group Changes Notification	When changes are detected in your account's Enterprise Security Group, we will send you relevant notifications regardless of whether you have enabled automatic delivery.	-
Automatic Task Exception Notification	When an exception is detected in your automatic task, we will send you relevant notifications.	-
System Log Shipping Notification	When new system logs are generated, we will notify you according to your settings.	Supports triggering notifications by system log event type.

General Settings



Configuration Item Name	Configuration Item Description	Notes
Log Storage Settings	The users of Enterprise Edition and later can modify the log storage type and storage duration. This can be done only once every 2 months. Expired logs will be automatically deleted. You can also manually clear logs, but please note that each user is limited to 4 manual clearances per natural month.	After the log settings are changed, the historical logs will not be affected. Only new logs starting from the time of the editing will be effective. For example, if you change the log storage time from 180 days to 90 days, the historical logs will still be stored for 180 days, while new logs will be stored for 90 days.
Access Control Rules Settings	In the access control rule list, each time you add, insert, or import control rules, the startup status of the rule should be set.	-
Honeypot Auto- rebuild Settings	In the Network Honeypot, if the honeypot is compromised, you can choose whether to automatically rebuild the honeypot and set the interval time.	-
Tag Settings	CFW has no resource attributes. It only supports adding Tags to billing resources associated with the account. You can modify the Tag values here.	-

On the General Settings page, the general settings consolidate some commonly used configurations.

Common Tools Address Template

Last updated : 2024-01-23 17:37:00

This topic describes how to batch manage IP addresses in an address template and match the created templates with access control rules.

Operation guide

1. Log in to the Cloud Firewall console, and then click **Address template** in the left navigation pane.

2. On the **Address template** page, you can create and modify templates, and call templates to add rules on the **Access Control** page.

Create template

a. On the Address template page, click Create template.

b. In the **Create address template** window displayed, enter the address template name and IP address, and then click **OK** to complete the template creation.

Note

For a single IP address, Press Enter.

For multiple IP addresses, separate them with commas before pasting.

Duplicate IP addresses are merged automatically.

emplate type	O IP address template Oomain name template
lame	(Required) Enter a unique name within 20 characters.
^D address	1 2
	Supported formats: 10.0.0.1, 10.0.1.0/24, 10.0.0.1-10.0.0.
	For manually input items, one per line. For copied and pas ted domain names, separate each of them with a comma (,). Duplicate entries are merged automatically.
	(Optional) Up to 50 characters

Modify template

After a template is created, it will be displayed in the address template list, and you can add, delete, or modify IP addresses in the list.

a. In the action column on the right of the destination address template, click Modify.

b. Select the IP address to modify or delete in the **Modify address template** window displayed, or enter the IP address in the search box, and then click **OK** to complete the modification.



Import an address template for configuring rules

After creating an address template, you can go to the Edge firewall rules or NAT firewall rules page to call the template for configuring access control rules. The following example shows how to import an address template for configuring edge firewall rules. This also applies to NAT firewall rules.

Note

The access rules configured with the address template are valid for all IP addresses in the template.

Address templates can only be used to configure edge firewall rules and NAT firewall rules, rather than inter-VPC firewall rules.

Inbound rules only allow importing address templates for **Access source**, while **Outbound rules** only allow importing templates for **Access destination**.

Import an address template for inbound rules

a. On the Edge firewall rules page, select Inbound rules -> Add rule.

b. In the "Add inbound rule" window displayed, select "Address template" for "Access destination type", and click the "Access source" drop-down list to select an existing address template for configuring rules.

Access source type Access destination type	 IP address IP address 	Address ter Address ter Asset instance	nplate ce tag Addres	s template			
Rule priority	Earliest O	Last					
Priority (i)	Access source (i)	Access destination (j)	Destination port	Protocol	Policy (i)	Description (i)	Operation
4	0.0.0.0/0	0.0.0.0/0	-1/-1	ANY	▼ Please selec ▼	Enter description of the rule. Up to	Copy Dele

Import an address template for outbound rules

a. On the Edge firewall rules page, select **Outbound rules** -> **Add rule**.

b. In the "Add outbound rule" window displayed, select "Address template" for "Access destination type", and click the "Access destination" drop-down list to select an existing address template for configuring rules.

Add Outbound	rule Access Source	region Singapore					
Access source typ	pe 🜔 IP address 🗌	Asset instance Resour	rce tag	ss template			
Access destination type	n OIP/Domain name	Location	ess template				
Rule priority	Earliest	Last					
Priority (i)	Access source (i)	Access destination (i)	Destination port	Protocol (i)	Policy (i)	Description (1)	Operation
26	0.0.0/0	0.0.0/0	-1/-1	ANY -	Please selec V	Enter description of the rule. Up to	Copy Dele
			ОК	Cancel			

Rule Backups

Last updated : 2024-09-06 17:56:10

When modifying access control rules, you can back up existing rules and roll back rules in different defense statuses.

Creating Backup

1. Log in to the Cloud Firewall console, and click Access Control in the left sidebar.

2. On the Access Control page, click **Rule backups** in the upper right corner to open the Policy Backup and Rollback Popup.

Access control							Rule backu
Edge firewall rules	NAT firewall rules	Enterprise security groups(new)	Inter-VPC rules				
Rule list Latest bac	kup: 2023-12-26 00:00:00		Recent operations	i			View operation le
Inbound rules	Outbound rules	Rule quota (i)	101-0-0.000	1000	International Action		
45	23	2000	2010/07/07 12:00:00	10000	811.0	10127-008	
Enabled rules: 0	Enabled rules: 1	2000	2010/07/08 10:00:00	her(100174)	lass tarts	**	
			2010/07/07 12:00	100,000,000	Balling cite	**	

3. In the policy backup and rollback popup, click Create backup.

Back up and rol	l back rules							
 1. Backup between i 2. Rollbac performing 3. Backup limit, pleas files. 	 1. Backup: The current version supports up to 10 backups for each access control rule list. The backup does not differentiate between inbound and outbound rules (i.e., each backup includes both inbound and outbound rules). 2. Rollback: Overwrite the selected backup onto the current list of rules. It is recommended to backup the current rules before performing a rollback. 3. Backups will not be cleared when the product expires or is reclaimed. Therefore, when the number of backups reaches the limit, please delete the earlier backups first. If automatic backup is enabled, we will automatically eliminate the earliest backup files. 							
Create backup	Auto-backup	Edge firewall rules	▼ S	earch by the description (of the rule backL Q			
Backups (i)	Descript	ion	Backup time	Policies	Operatio			
	Engelmont uns AutoBaltup				Roll back Delet			

4. Select the rule list for backup, fill in the remarks, and click **OK** to complete creating the rule backup.

Back up and re	oll back rules								
 1. Backt betweer 2. Rollba perform 3. Backt limit, ple files. 	 1. Backup: The current version supports up to 10 backups for each access control rule list. The backup does not differentiate between inbound and outbound rules (i.e., each backup includes both inbound and outbound rules). 2. Rollback: Overwrite the selected backup onto the current list of rules. It is recommended to backup the current rules before performing a rollback. 3. Backups will not be cleared when the product expires or is reclaimed. Therefore, when the number of backups reaches the limit, please delete the earlier backups first. If automatic backup is enabled, we will automatically eliminate the earliest backup files. 								
				Search by the descripti	on of the rule backL Q				
Backups (j)		Description	Backup time	Policies	Operatio				
Edge firewall r	rules 🔻	Please enter the descripti	on		OK Cancel				
		Andiatop			Roll back Dele				

Rollback from Backup

1. On the Access Control Page, click **Rule backups** in the upper right corner to open the Policy Backup and Rollback Popup.

2. Select the backed-up rule, and click **Roll back**.

Back up and roll ba	nck rules								
(i) 1. Backup: The between inbo 2. Rollback: C performing a t 3. Backups w limit, please d files.	 1. Backup: The current version supports up to 10 backups for each access control rule list. The backup does not differentiate between inbound and outbound rules (i.e., each backup includes both inbound and outbound rules). 2. Rollback: Overwrite the selected backup onto the current list of rules. It is recommended to backup the current rules before performing a rollback. 3. Backups will not be cleared when the product expires or is reclaimed. Therefore, when the number of backups reaches the limit, please delete the earlier backups first. If automatic backup is enabled, we will automatically eliminate the earliest backup files. 								
Create backup	Auto-backup Edge firewal	I rules 🔻 S	earch by the description c	of the rule back. Q					
Backups	Description	Backup time	Policies	Operatio					
Edge firewall rules	Edge firewall rules AutoBackup		00:00 58	Roll back Dele					

3. In the Confirm to roll back with the backup pop-up window, click **OK** to roll back the backed-up rules and overwrite the current rule list.

Caution

The rule rollback operation will overwrite the corresponding rule list. The current policies will be deleted. To ensure data security, it is recommended to back up the current list first.

Deleting Backup

1. On the Access Control Page, click **Rule backups** in the upper right corner to open the Policy Backup and Rollback Popup.

2. Select the backed-up rule, click **Delete**.

Back up and roll ba	ck rules								
 1. Backup: The between inbod 2. Rollback: O performing a r 3. Backups will limit, please d files. 	 1. Backup: The current version supports up to 10 backups for each access control rule list. The backup does not differentiate between inbound and outbound rules (i.e., each backup includes both inbound and outbound rules). 2. Rollback: Overwrite the selected backup onto the current list of rules. It is recommended to backup the current rules before performing a rollback. 3. Backups will not be cleared when the product expires or is reclaimed. Therefore, when the number of backups reaches the limit, please delete the earlier backups first. If automatic backup is enabled, we will automatically eliminate the earliest backup files. 								
Create backup	Auto-backup	Edge firewall rules	▼	Search b	y the description	on of the rule back. ${\sf C}$)		
Backups (i)	Descript	tion	Backup tim	е	Policies	Op	eratio		
Edge firewall rules	AutoBac	kup	2023-12-26	00:00:00	58	Roll back	Delet		
Edge firewall rules AutoBackup		kup	2023-12-25	00:00:00	58	Roll back	Delet		

3. In the Confirm Deletion pop-up window, click **OK** to delete the backed-up rules.

Caution

Once the rule backup is deleted, it cannot be retrieved/recovered. Please proceed with caution.