# Alibaba Cloud Cloud Firewall

**Quick Start** 

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## Generic conventions

### Table -1: Style conventions

Style	Description	Example
•	This warning information indicates a situation that will cause major system changes, faults, physical injuries, and other adverse results.	Danger: Resetting will result in the loss of user configuration data.
A	This warning information indicates a situation that may cause major system changes, faults, physical injuries, and other adverse results.	Warning: Restarting will cause business interruption. About 10 minutes are required to restore business.
	This indicates warning informatio n, supplementary instructions, and other content that the user must understand.	• Notice: Take the necessary precautions to save exported data containing sensitive information.
	This indicates supplemental instructions, best practices, tips, and other content that is good to know for the user.	Note: You can use Ctrl + A to select all files.
>	Multi-level menu cascade.	Settings > Network > Set network type
Bold	It is used for buttons, menus , page names, and other UI elements.	Click OK.
Courier font	It is used for commands.	Run the cd / d C :/ windows command to enter the Windows system folder.
Italics	It is used for parameters and variables.	bae log list instanceid Instance_ID
[] or [a b]	It indicates that it is a optional value, and only one item can be selected.	ipconfig [-all -t]

Style	Description	Example
	It indicates that it is a required value, and only one item can be selected.	<pre>swich {stand   slave}</pre>

### Contents

Legal disclaimer	I
Generic conventions	I
1 Tutorial overview	1
2 Enable the firewall settings	3
3 Enable Intrusion Prevention	4
4 View network flow analysis	5
5 Configure access control policies	12

### 1 Tutorial overview

This document introduces how to quickly complete basic operations in the Cloud Firewall console.

You can perform the following operations in the Cloud Firewall console:

• Enable the Cloud Firewall service on the Firewalls page.

Cloud firewall	Firewall Settings							
Overview	Internet Firewall VPC Firev	all						Show Guide 🔵
Traffic Analysis  Business Visualization	3 Assets Disabled with Firewalls Enable	272 Assets Enabled with Firewa	alls Disable					
<ul> <li>Security Policies</li> </ul>	famourane.		ill may			<sup>†</sup> ♥ <sup>+</sup> Overall Sta	tus	×
Firewalls							abled for 3 IP Addres	ses
Logs						④ Enable	Firewall for All	
<ul> <li>Tools</li> </ul>								
Packet Capture	Asset Type All $\checkmark$ Regio	All V Firewall Status	All $\checkmark$	Instance ID/IP		Search		
	IP	Instance ID	Asset Type	Region	Bound Asset		Firewall Status	Actions
			ECS Public IP	China (Zhangjiakou)	and, etc., submitted approximate		Disabled	Enable Firewall

• Click Add Policy in the upper-right corner of the Access Control page to *Configure* access control policies.

Cloud firewall	Access	Control					
Overview	Intern	et Firewall	Interna	l Firewall	VPC Fire	wall	
Traffic Analysis	₩e	chanism					
<ul> <li>Business Visualization</li> </ul>							
Application Groups							
Business Relations							
Security Groups	Ou	tbound Policies	In	bound Policies			
<ul> <li>Security Policies</li> </ul>	Create F	Policy	ch by source.		Search by o	destination.	
Access Control	Priority	Source		Destination		Port/Application	1/Port
Intrusion Prevention Firewalls	1	1000000		1000			

### • Configure intrusion prevention policies on the Intrusion Prevention page.

Cloud firewall	Intrusion Prevention	
Overview		
Traffic Analysis	Threat Engine Settings	
<ul> <li>Business Visualization</li> </ul>		
	Modes	
Application Groups	In the monitoring mode, the system generates alerts on intrusions	Monitoring Mode 🕕 💽 Traffic Control Mod
Business Relations	instead of blocking the malicious traffic.	
	In the traffic control mode, the system automatically blocks malicious traffic.	
Security Groups	tranic.	
<ul> <li>Security Policies</li> </ul>	Basic Protection	Basic Policies 🕦
Access Control	Prevents common intrusions, such as brute-force attacks, exploitation of command execution vulnerabilities.	Threat Intelligence ()
	and connections between victim servers and C&C servers.	
Intrusion Prevention		
Firewalls		
	Virtual Patches	Patches 🕡 🗾
Logs	These patches can block attacks at the network layer in real time to	Virtual Pate
T	prevent exploitation of important vulnerabilities.	Virtual Pate
<ul> <li>Tools</li> </ul>		
Packet Capture		

 $\cdot\,$  View traffic analysis on the Traffic Analysis page. You can check traffic analysis on

## external connections, internet access, VPC access, intrusion detection, IPS analysis and all access activities.

Cloud firewall	Network flow analysis	
Overview	External Connections         Internet Access         VPC Access         Intrusion Detection (3)         IPS Analysis	All Access Activities
Traffic Analysis     Business Visualization	Time 1 Hour V	
Application Groups Business Relations	Condition    Enter a keyword.	+ Add

### 2 Enable the firewall settings

After you subscribe Cloud Firewall service, the firewall setting is disabled by default. On the Firewallpage, you can enable the firewall service for the assets in specified Internet/VPC networks. Once enabled, the Cloud Firewall service starts to monitor the Internet/VPC traffic without requiring network configurations.

**Internet Firewall** 

On the Firewalls > Internet Firewallpage of Cloud Firewall console, click Enable Firewall for All to enable the service for all assets protected by Internet Firewall, or select assets and click Enable Firewall to enable the service for specified assets.

Cloud firewall	Firewall Settings						
Overview	Internet Firewall VPC Firew	all					Show Guide 🔵
Traffic Analysis   Business Visualization	3 Assets Disabled with Firewalls Enable	271 Assets Enabled with Firewa	alls Disable				
Application Groups	⇔ Mechanism	— Enable — Disabled	⑦ FAQs			<sup>†</sup> ∲ <sup>2</sup> Overall Status	×
Business Relations						△ Firewall Disabled for 3 IP Addre	sses
Security Groups						Enable Firewall for All	
<ul> <li>Security Policies</li> </ul>							
Access Control	Asset Type All $\checkmark$ Region	All $\checkmark$ Firewall Status	Disabled $\checkmark$	Instance ID/IP		Search	
Intrusion Prevention	IP	Instance ID	Asset Type	Region	Bound Asset	Firewall Status	Actions
Firewalls			ECS Public IP	China (Zhangjiakou)	EC8_2YJ_162111501188 1932-168-0-106	Disabled	Enable Firewall

**VPC** Firewall

On the Firewalls > VPC Firewall page of Cloud Firewall console, select the assets you need to monitor and click the Firewall Settings switch to enable the service

#### for specified assets.

Cloud firewall	Firewall Settings									
Overview	Internet Firewall	VPC Firewall						S	how Guide	С
Traffic Analysis  Business Visualization	O <sub>Disabled</sub> 200	Inconfigured	5 <sub>Enabled</sub>							
Application Groups	← Mechanism		— Enable	⑦ FAQs			<sup>+</sup> ♥ <sup>+</sup> Overall Status			×
Business Relations							▲ 0 Firewalls Disat	bled		
Security Groups										
<ul> <li>Security Policies</li> </ul>										
Access Control	All Connection Ty V	All Regions	All VPC Instances V	I Statuses 🗸 🗸	Search					
Intrusion Prevention	Instance ID/Name	Connection Type	VPC Instance	Peer VPC Instance	Band	dwidth	Firewall Settings	Firewall Status	Actions	
Firewalls		Express Connect	Directinging galaxies and an and a second	Circ Copiel St. Copiel St. Colorador St. Colorador	204	18Mbps		Disabling 💥	Modify Delete	9

### **3 Enable Intrusion Prevention**

### Cloud Firewall is embedded with IPS to defend against intrusions in real time.

#### Procedure

- 1. Select the Intrusion Prevention Mode.
  - Monitoring Mode: Enable monitoring mode to monitor malicious traffic and generate alarms.
  - Traffic Control Mode: Enable traffic control mode to block the malicious traffic.

### Note:

After you subscribe to the Cloud Firewall service, Monitoring Mode is enabled for IPS by default.

- 2. In the Basic Protection module, turn on or off the Basic Policies switch to enable or disable the built-in basic intrusion prevention rules. The basic rules can intercept intrusions such as password cracking and command execution vulnerability.
- 3. Turn on or off the Threat Intelligence switch to enable or disable the function of collecting network-wide threat intelligence.
- 4. In the Virtual Patches Module, turn on or off the Patches switch to enable or disable the installation-free virtual patch function for preventing exploitation of high-risk vulnerabilities.

### Note:

After the configuration, you can view the details on different intrusion prevention activities in the IPS Analysis area on Traffic Analysis page.

### 4 View network flow analysis

Network flow analysis provides you with full visibility of flows across the entire network. You can view real-time activities in your assets, including threat events, network activities, traffic trends, access traffic blocked by IPS, and external connection activities.

### **External Connections**

The External Connections page displays the details on your assets' external connections, including the connected domain names, external IP addresses, the applied protocols and your assets' info. This helps you identify the suspicious assets activities in a timely manner.

Procedure

1. Log on to the Cloud Firewall console.

2. In the left-side navigation pane, go to Network Flow Analysis > External Connections to check your assets' external connection activities.

You can perform the follows operations on External Connections page:

• Monitor the summaries on external connection data, including the amounts of external domains, external IP addresses, assets request for external connections and the relevant protocols.

Cloud firewall	Network flow anal	ysis						
Overview	External Connections	Internet Access	VPC Access	Intrusion Detection 7	IPS Analysis	All Access A Recent	1 hours 💛 2019-04-27 20:59	- 2019-04-27 21:59
Traffic Analysis     Business Visualization	External Domain	s	External IP Ac	ddresses	Assets		Protocol Analys	sis
Application Groups	•		+		•		+	
Business Relations	0 Risky	10 All	0 Risky	14 All	1 Risky	261 All	19.97 % Unidentified	<b>3</b> All

• Monitor the outbound traffic analysis, including the average traffic and peak traffic.

Outbound Traf	fic				
		C	2		
	st Rate 745.68 Kbps quest Rate 567.42 Kb		e 20.36 Mbps Rate 14.67 Mbps		
24 Mbps				Request Rate	Response Rate
19 Mbps	a la				
14 Mbps		1:10	·····		
10 Mbps		Request Rate 6 Response Rate 1	.6 Mbps		
5 Mbps		lect a time to view dress ranking by			
20:59	21:09	21:19	21:29	21:39	21:49

• Monitor the Top 10/20/50 traffic of external connections, with the relevant IP address, request/response rate, and logs recorded by Cloud Firewall.

Ranking of IP	Addresses by Tr	Top 50	^	2019-04-27 21:54
IP	Туре	Reque 🗸 Top 50 Top 20	sponse Rate √	Actions
	ECS Public IP	261.0 Top 10	43 Mbps	View Logs
	ECS Public IP	149.82 Kbps	5.13 Mbps	View Logs
-	ECS Public IP	2.41 Kbps	8.46 Kbps	View Logs
	ECS Public IP	42.63 Kbps	7 Kbps	View Logs
	ECS Public IP	2.40 Kbps	2.27 Kbps	View Logs
	ECS Public IP	2.38 Kbps	1.11 Kbps	View Logs
	ECS Public IP	191 bps	641 bps	View Logs

• Monitor the protocol analysis for external connections, including the information on applications, ports and corresponding connection numbers.



• View the protocol details, and follow or ignore the specified protocols.

Protocol Details					Follow / Ignore
Application	Port	Requests	Responses	Visits	Actions
HTTPS	443	19.88 MB	10.91 MB	1.93 K	More V
	80	1.66 MB	1.77 MB	1.22 K	S Follow
HTTP	3333	217.42 MB	6.22 GB	112	<ul> <li>Ø Ignore</li> <li>(iii) View Logs</li> </ul>
	4343	667.43 KB	OB	1.39 K	WORE Y
Unknown	65283	57.42 KB	28.88 KB	56	More V

#### • View the protocol details, and follow or ignore the specified protocols.

Protocol Details					Follow / Ignore
Application	Port	Requests	Responses	Visits	Actions
HTTPS	443	19.88 MB	10.91 MB	1.93 K	More V
	80	1.66 MB	1.77 MB	1.22 K	S Follow
HTTP	3333	217.42 MB	6.22 GB	112	Ignore
Linknown	4343	667.43 KB	0B	1.39 K	
Unknown	65283	57.42 KB	28.88 KB	56	More 🗸

#### **Internet Access**

## The Internet Access page displays the details on the internet access traffic, including the open applications/ports/internet IP and the correlated cloud products.

Cloud firewall	Network flow	w analysis											
Overview	External Conr	Internet Access	VPC Access Intr	usion Detection 🕖 IPS Analy:	sis All Access Activities				Li Li	ast 7 D 🗸 201	9-04-21 00:1 - 2	019-04-28 00	1.60
Traffic Analysis     Business Visualiza	Open Appli	cations		Open Ports		Open Public IP	Addresses		Cloud Produ	ucts			
Application Groups	٠			٠	۲	۲			Public SLB				
Business Relations	6 Risky	<b>11</b> AII		79 Risky	159 All	141 Risky	267 AII		0 Public IP		0 Open Ports		
Security Groups													
<ul> <li>Security Policies</li> </ul>	Inbound Int	ernet Traffic						Ranking of IP	Addresses by Tr	affic Top 50	~	2019-04-27 2	3:00
Access Control			Q					IP	Туре	Request Rate √	Response Rate ↓	Actions	
Intrusion Filewalistion		Request Rate 3.75 Mbps Respo fic Request Rate 585.73 Kbps 1							ECS Public IP	666.04 Kbps	21 Mbps	View Logs	^
Logs	48 Mbps						Response Rate Request Rate		ECS Public IP	561.31 Kbps	0	View Logs	
<ul> <li>Tools</li> <li>Packet Capture</li> </ul>	29 Mbps	M	mmal	hynn	A A ~ M				ECS Public IP	69.53 Kbps	139.39 Kbps	View Logs	
	10 Mbps	v ~	- V O V		~ ^ / / • • • •				ECS Public IP	7.12 Kbps	20 bps	View Logs	
Technical Support	04/21 0	0:04	04/23 00:04		04/25 00:04		04/27 00:04		ECS Public IP	5.08 Kbps	49 bos	View	*
	Open Appl	ications Open Ports	Open Public IP Addresses	Details Cloud Products									
	All Risk L	✓ All Sugge ✓ All Appl	lic 🗸 Search by port.	Search									
	Application	Protocol	Port	Public IP Addresses	Total Ports	Percentage (7 Days)	Risk Level	Threat	Suggestio	n	Actions		
	FTP_DATA	tep	9046 💮	1	1	<0.1 %	High	BruteForce,S niffing,Over	🔞 Chec	k	View Details		
	Unknown	tcp	22,80 121A 🧿	153	4970	99.9 %	Low	-	🍙 Unkn	own	View Details		

#### **VPC Access**

The VPC Access page displays the details on the traffic in VPC networks, including the traffic between VPCs, ranking of the sessions between VPCs, and the open ports and assets in VPC firewall.

Cloud firewall	Network flow analysis							
Overview	External Connections Internet Access VPC Access	Intrusion Detection 🕖 IP	S Analysis All Access	A Recent 1 hours V 2	019-04-27 23:56 - 20	019-04-28 00:56 🛗		
Traffic Analysis	peer_test_vpc1-vpc-m5es3r > All VPC Firewalls >							
Business Visualization     Security Policies	Traffic Between VPCs	Ranking of IP Addresses by Traffic Top 50 V						
Access Control	Q		P	Inbound J1	Outbound ↓	Actions		
Intrusion Prevention	Peak Traffic         Inbound 0         Outbound 0           Average Traffic         Inbound 0         Outbound 0			No data is avai	ilable			
Firewalls								

#### **IPS Analysis**

Cloud firewall	External Connections Internet Access VPC Access Intrusion Detection 🕖	IPS Analysis All Access Activities			
Overview	Direction  Inbound Outbound Time 1 Hour 1 Day  Last 7 Days	1 Month O Custom			
Traffic Analysis  Business Visualiza					
Application Groups	The Most BlockedSourceLocations			Shanghai	
Business Relations				United States	84.95%
Security Groups				<ul> <li>4.43%</li> <li>Romania</li> </ul>	
<ul> <li>Security Policies</li> </ul>				<ul> <li>2.13%</li> <li>Hangzhou</li> </ul>	
Access Control				<ul> <li>1.97%</li> <li>Netherlands</li> </ul>	
Intrusion				<ul> <li>1.32%</li> <li>Beijing</li> </ul>	
Filesvalistion				I 0.72% Canada	
Logs				1 0.52% Wu Zhong	
▼ Tools				I 0.52% Shenzhen	
Packet Capture				0.48%	
	Blocked Destination IP Addresses	Blocked Applications		Blocking Criteria	
Technical Support					
	(Chi) ECS Public IP (Chi) ECS Public IP				
	(Chi) ECS Public IP	нттр 69.60%	<ul> <li>HTTP 69.60%</li> <li>SNMP 15.25%</li> </ul>	Basic Protection 97.92%	<ul> <li>Basic Protection 97.92%</li> <li>Virtual Patches 2.07%</li> </ul>
	Chi ECS Public IP	05.00.00	MsSQL-TDS 10.02%	91.3270	
	(Chi) ECS Public IP		Unknown 5.05% SMB 0.05%		
	All Risk L V All Criteria V All Directi V Monitor V 2019-04-20 23: - 24	019-04-27 23: 闘 Source IP V Enter a key	word. Search		
	Risk Level Event Name Events Mode Source IP Destin	ination IP	Direction Criterion	Occurred At	Action
	(High Mining beha 1 Monitor Public		Outbou Basic Protection	First Time: 2019-04-26 11:42 Last Time: 2019-04-26 11:42	View Details

### The IPS Analysis page displays the details on blocked traffic in real time.

#### Procedure

- 1. Log on to the Cloud Firewall console.
- 2. In the left-side navigation pane, go to Traffic Analysis > IPS Analysis.
- 3. In the Direction area, click Inbound or Outbound to view the corresponding blocked inbound or outbound traffic.

4. Select Time by one hour, one day, last seven days, one month, or a custom time range to display the required blocking traffic.

You could monitor the following information on the blocked traffic:

- the most blocked source locations
- · blocked destination IP addresses
- blocked applications
- · IPS settings
- blocked event list

In the blocked event list, specify the blocking source, direction, defense status, detection time, or source IP address to search for blocking events and to view details.

**All Access Activities** 

The All Access Activities page displays the details on activity data about all hosts protected by Cloud Firewall in real time. The data includes all traffic trends, top N source regions of inbound and outbound application access, the percentage of each region, top N session addresses, and the percentage of each address.

Cloud firewall	Network flow analysis		
Overview	External Connections Internet Access VPC Access Intrusion Detection 🕖	IPS Analysis All Access Activities	
Traffic Analysis			
<ul> <li>Business Visualiza</li> </ul>	Time 1 Hour (hg)		
Application Groups	15 Minutes Conditi		
Business Relations	on Villar Enter a keyword.		+ Add Query Reset
Security Groups	1 Day		
<ul> <li>Security Policies</li> </ul>	Histori 1 Week		
Access Control	Traff Custom Concurrent		
Intrusion	38 Mbp		
FiPewalistion	19 Mbps	$\frown$	
Logs			
<ul> <li>Tools</li> </ul>	23:27 23:29 23:31 23:33 23:35 23:37 23:39 23:41 2	18 23:45 23:47 23:49 23:51 23:53 23:55 23:57 23:59 00:01 00:03	00.05 00:07 00:09 00:11 00:13 00:15 00:17 00:19 00:21
Packet Capture		<ul> <li>Public Inbound Traffic</li> <li>O Public Outbound Traffic</li> </ul>	
Technical Support	Rankings of Visits by Traffic		
	Inbound Traffic		
		t IP Idle Asset IP Addresses Unusual Visits Risky Ports Applications with Non-standard Ports	
	Source Location View Detai Beijing 16	Application Protocol View Details	Session View Details 4.43%
		6%	1.05%
		Unknown	0.71%
		95.19%	0.71%
		9%	0.71%
		Unknown SIP VNC SSH QUEC HTTPS HTTP NTP	
	Shenzhen 4	5% SNMP DNS	0.71%

#### Procedure

1. Log on to the Cloud Firewall console.

2. In the left-side navigation pane, go to Traffic Analysis > All Access Activities.

You can view the historical trends for all the access activities in the last 15 minutes, 1 hour, 4 hours, 1 day, 7 days, or a custom time range.



You can specify any time range without limitations.

Select a search condition from the Condition drop-down list and enter or select the condition details. Click Search to query the historical traffic trend based on the selected condition.

External (	Connections	Internet Access	VPC Access	Intrusion Detection 🕖	IPS Analysis	All Access Activities
ime	1 Hour	~				
Condition	/					+ Add
	Direction		2			
listori	Source IP					
	Destination IP					
Traffic	Location	oncurrent				
38 Mbp	ISP					
	Asset IP				$\land$	
19 Mbp	Asset Asset Region					
		•				

In the Rankings of Visits by Traffic area, view the top 10 source regions and application types with the most requested inbound/outbound traffic and top N session addresses. You can also view the percentage of each source location, application protocol, or session address.

### 5 Configure access control policies

Cloud Firewall allows you to configure access control policies to specify the accessible ports on your assets and control the access from your assets to the Internet. You can use access control policies to control inbound and outbound traffic.

You could add a group of IP addresses or ports to the Address Books. With this Address Book, you can quickly configure the control policy with multiple IP or addresses.

Procedure

1. Log on to the Cloud Firewall console.

2. On the Access Control > Internet firewall page of the console, click Create Policy to configure an access control policy.

Cloud firewall	Acces	s Control						
Overview	Inter	met Firewall	nternal Firewall VPC	Firewall			Show Gu	ide Address Books
Traffic Analysis	0	utbound Policies	Inbound Policies					
<ul> <li>Business Visualization</li> </ul>								
Application Groups	Create	Policy Search by s	Search Search	h by destination.	Enter a description.	Protocol V Poli	cy Action ✓ Search	
Business Relations	Priority	Source	Destination	Port/Application/Port	Policy Action	Description	Hits	Actions
Security Groups	1		1000.00	1(14/10) <b>(4</b> )	Konitor	adadasdas 888	3 🖏	Modify Delete Insert Move
Security Policies     Access Control	2		1000-000	100000000	i Allow	fasfas asf	0	Modify Delete Insert Move
Intrusion Prevention	3		10.00	10494949	i Deny	11	0	Modify Delete Insert Move

Configurations are as follows:

- · Source Type: The data sender type. Select IP or Address book.
- Source: The address of data sender. If you select IP for Source Type, you must enter an IP address or CIDR block in Access Source.
- Destination Type: The type of the data's destination. You can select IP, Address Book or Domian Name.
- Destination: The data's destination address.
- Protocol: The protocol of the data. The supported protocols include TCP, UDP, and ICMP.
- Port Type: The type of the port, including Ports and Address Book.
- · Destination Port: The port of the data's recipient.
- Application: The application to which the access control policy applies in the specified protocol.
- Policy Action: The action on the access traffic. You can select Allow, Monitor or Deny.
- Description: The remarks on the access control policy.

Click Address books on the Internet Firewall page, you can create new address books, or modify/delete existing address books.

Cloud firewall	Access	Contrc	IP Addresses	F	Port Address Books			×		
Overview	Inter	net Firewa	Port Address Books		All Types 🗸	Search		+Create Address Book	SI	now Guide Address Books
Traffic Analysis	O	utbound P	Address Book Name	Туре	IP/ECS Tag	Description	Reference s	Actions		
Business Visualization								_		_
Application Groups	Create	Policy	joker	-	10.000		0	Modify Delete	tion 🗸 Se	arch
Business Relations	Priority	Source	hht测试			*****			Hits	Actions
			11110/0129/	11.1 Mar.	10.000		1	Modify Delete		Modify Delete Insert
Security Groups	1	47.98.2	zyj_4-17ecs	10.04	and strength in the second sec	-	2	Modify Delete	0	Move
Security Policies										Modify Delete Inser
Access Control	2	47.98.2	zyj_4-17_ip	A statement		100,0	1	Modify Delete	32 🖏	Move
Intrusion Prevention										Modify Delete Inser
Firewalls	3 47.98.2	47.98.2	zyj_4_16_ecs	11110		100	3	Modify Delete	74 🖏	Move



### Note:

Except for certain necessary/safe external connection activities, we recommend that you select Deny for all the other outbound access to the Internet .