



show service-policy through show xlate Commands

show service-policy

To display the service policy statistics, use the **show service-policy** command in privileged EXEC mode.

show service-policy [global | interface intf] [csc | inspect | ips | police | priority | shape]

show service-policy [global | interface intf] [set connection [details]]

show service-policy [global | interface intf] [flow protocol {host src_host | src_ip src_mask}
[eq src_port] {host dest_host | dest_ip dest_mask} [eq dest_port] [icmp_number |
icmp_control_message]]

Syntax Description	csc	(Optional) Limits the output to policies that include the csc command.
	dest_ip dest_mask	The destination IP address and netmask of the traffic flow.
	details	(Optional) Displays per-client connection information, if a per-client connection limit is enabled.
	eq dest_port	(Optional) The equals operator, requiring the destination port to match the port number that follows.
	eq src_port	(Optional) The equals operator, requiring the source port to match the port number that follows.
	flow protocol	(Optional) Specifies a traffic flow for which you want to see the policies that the security appliance would apply to the flow. The arguments and keywords following the flow keyword specify the flow in ip-5-tuple format. Valid values for the <i>protocol</i> argument are listed in the "Usage Guidelines" section, below.
	global	(Optional) Limits output to the global policy, which applies to all interfaces.
	host dest_host	The host destination IP address of the traffic flow.
	host src_host	The host source IP address of the traffic flow.
	icmp_control_message	(Optional) Specifies an ICMP control message of the traffic flow. Valid values for the <i>icmp_control_message</i> argument are listed in the "Usage Guidelines" section, below.
	icmp_number	(Optional) Specifies the ICMP protocol number of the traffic flow.
	inspect	(Optional) Limits the output to policies that include an inspect command.
	interface intf	(Optional) Displays policies applied to the interface specified by the <i>intf</i> argument, where <i>intf</i> is the interface name given by the nameif command.
	ips	Limits output to policies that include the ips command.
	police	Limits output to policies that include the police command.
	priority	Limits output to policies that include the priority command.
	set connection	Limits output to policies that include the set connection command.
	shape	Limits output to policies that include the shape command.
	<pre>src_ip src_mask</pre>	The source IP address and netmask used in the traffic flow.

Defaults

No default behavior or values.

Command Modes

les The following table shows the modes in which you can enter the command:

	Firewall M	Firewall Mode		Security Context		
				Multiple		
Command Mode	Routed	Transparent	Single	Context	System	
Privileged EXEC	•	•	•	•		

Command History	
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Release	Modification
7.0(1)	This command was introduced.
7.1(1)	The csc keyword was added.
7.2(4)/8.0(4)	The shape keyword was added.

Usage Guidelines

The **flow** keyword lets you determine, for any flow that you can describe, the policies that the security appliance would apply to that flow. You can use this to check that your service policy configuration will provide the services you want for specific connections. The arguments and keywords following the **flow** keyword specifies the flow in ip-5-tuple format with no object grouping.

Because the flow is described in ip-5-tuple format, not all match criteria are supported. Following are the list of match criteria that are supported for flow match:

- match access-list
- match port
- match rtp
- match default-inspection-traffic

The **priority** keyword is used to display the aggregate counter values of packets transmitted through an interface.

The number of embryonic connections displayed in the **show service-policy** command output indicates the current number of embryonic connections to an interface for traffic matching that defined by the **class-map** command. The "embryonic-conn-max" field shows the maximum embryonic limit configured for the traffic class using the Modular Policy Framework. If the current embryonic connections displayed equals or exceeds the maximum, TCP intercept is applied to new TCP connections that match the traffic type defined by the **class-map** command.

protocol Argument Values

The following are valid values for the *protocol* argument:

- *number*—The protocol number (0 255).
- ah
- eigrp
- esp
- gre
- icmp
- icmp6
- igmp

- igrp
- ip
- ipinip
- ipsec
- nos
- ospf
- pcp
- pim
- pptp
- snp
- tcp
- udp

icmp_control_message Argument Values

The following are valid values for the *icmp_control_message* argument:

- alternate-address
- conversion-error
- echo
- echo-reply
- information-reply
- information-request
- mask-reply
- mask-request
- mobile-redirect
- parameter-problem
- redirect
- router-advertisement
- router-solicitation
- source-quench
- time-exceeded
- timestamp-reply
- timestamp-request
- traceroute
- unreachable

Examples

The following is sample output from the **show service-policy global** command:

hostname# show service-policy global

Global policy:

```
Service-policy: inbound_policy
Class-map: ftp-port
Inspect: ftp strict inbound_ftp, packet 0, drop 0, reset-drop 0
```

The following is sample output from the **show service-policy priority** command:

```
hostname# show service-policy priority
```

```
Interface outside:
Global policy:
Service-policy: sa_global_fw_policy
Interface outside:
Service-policy: ramap
Class-map: clientmap
Priority:
Interface outside: aggregate drop 0, aggregate transmit 5207048
Class-map: udpmap
Priority:
Interface outside: aggregate drop 0, aggregate transmit 5207048
Class-map: cmap
```

The following is sample output from the show service-policy flow command:

hostname# show service-policy flow udp host 209.165.200.229 host 209.165.202.158 eq 5060

```
Global policy:
Service-policy: f1_global_fw_policy
Class-map: inspection_default
Match: default-inspection-traffic
Action:
Input flow: inspect sip
Interface outside:
Service-policy: test
Class-map: test
Match: access-list test
Access rule: permit ip 209.165.200.229 255.255.255.224 209.165.202.158
255.255.255.224
Action:
Input flow: ids inline
Input flow: set connection conn-max 10 embryonic-conn-max 20
```

The following is sample output from the **show service-policy inspect http** command. This example shows the statistics of each match command in a match-any class map.

```
hostname# show service-policy inspect http
```

```
Global policy:
Service-policy: global_policy
Class-map: inspection_default
Inspect: http http, packet 1916, drop 0, reset-drop 0
protocol violations
packet 0
class http_any (match-any)
Match: request method get, 638 packets
Match: request method put, 10 packets
Match: request method post, 0 packets
Match: request method connect, 0 packets
log, packet 648
```

The following is sample output from the **show service-policy inspect waas** command. This example shows the waas statistics.

```
hostname# show service-policy inspect waas
Global policy:
Service-policy: global_policy
Class-map: WAAS
Inspect: waas, packet 12, drop 0, reset-drop 0
SYN with WAAS option 4
SYN-ACK with WAAS option 4
Confirmed WAAS connections 4
Invalid ACKs seen on WAAS connections 0
Data exceeding window size on WAAS connections 0
```

Related Commands	Command	Description
	clear configure service-policy	Clears service policy configurations.
	clear service-policy	Clears all service policy configurations.
	service-policy	Configures the service policy.
	show running-config service-policy	Displays the service policies configured in the running configuration.

show service-policy inspect ftp

To display the FTP configuration for FTP inspection, use the **show service-policy inspect ftp** command in privileged EXEC mode.

show service-policy [interface int] inspect ftp

	interface int	(Optio	onal) Identifie	es a specific inte	erface.		
Defaults	No default behavior o	or values.					
Command Modes	The following table s	hows the m	odes in whic	h you can enter	the comma	nd:	
			Firewall N	lode	Security C	Context	
						Multiple	
	Command Mode		Routed	Transparent	Single	Context	System
	Privileged EXEC		•	•	•	•	_
Command History	Release	Modifi	cation				
	7.2(1)	This c	ommand was	s introduced.			
Usage Guidelines	During FTP inspectio	n, the secu	rity appliance	e can drop packe	ets silently.	To see whethe	er the security
Usage Guidelines <u>Sage</u> Note	During FTP inspectio appliance has dropped The command output drops packets silently	d any packe does not di	ets internally,	, enter the show ounters that are	service-po zero. The s	licy inspect ft	p command.
Usage Guidelines	appliance has dropped The command output drops packets silently Table 30-1 describes	d any packe does not di ;; therefore, the output f	ets internally, isplay drop c the output o	ounters that are f this command w service-policy	service-po zero. The s rarely disp	licy inspect ft ecurity applian lays drop cour	p command.
	appliance has dropped The command output drops packets silently Table 30-1 describes	d any packe does not di ;; therefore, the output f	ets internally, isplay drop c the output o from the sho r	ounters that are f this command w service-policy	service-po zero. The s rarely disp	licy inspect ft ecurity applian lays drop cour	p command.
	appliance has dropped The command output drops packets silently Table 30-1 describes Table 30-1 FTP L	d any packe does not di ;; therefore, the output f Drop Count	ets internally, isplay drop c the output o from the sho er Descriptio Counter in If the port	ounters that are of this command w service-policy	service-po zero. The s rarely disp y inspect ft processing	licy inspect ft ecurity appliat lays drop cour p command:	p command. nce infrequentl nters.
	appliance has dropped The command output drops packets silently Table 30-1 describes Table 30-1 FTP L Drop Counter	d any packe does not di ; therefore, the output f Drop Count	ets internally, isplay drop c the output of from the sho cer Description Counter in If the port NLIST, RI	, enter the show ounters that are of this command w service-policy ons crements value is 0 when	service-po zero. The s rarely disp y inspect ft processing	licy inspect ft ecurity applia lays drop cour p command:	p command. nce infrequentl nters.
	appliance has dropped The command output drops packets silently Table 30-1 describes Table 30-1 FTP L Drop Counter Back port is zero dro	d any packe does not di ;; therefore, the output f Drop Count p onn drop	ets internally, isplay drop c the output of from the show er Description Counter in If the port NLIST, RI When an a When the s	, enter the show ounters that are of this command w service-policy ons crements value is 0 when ETR commands.	service-po zero. The s rarely disp y inspect ft processing te a second ce attempts	licy inspect ft ecurity appliat lays drop cour p command: 5 APPE, STOR ary data conne to allocate a da	p command. nce infrequently nters.

Drop Counter	Counter increments
Can't alloc FTP data structure drop	When the security appliance attempts to allocate a data structure for FTP inspection and the attempt fails.
	Check for low system memory
Can't allocate TCP proxy drop	When the security appliance attempts to allocate a data structure for a TCP proxy and the attempt fails.
	Check for low system memory
Can't append block drop	When the FTP packet is out of space and data cannot be added to the packet.
Can't PAT port drop	When the security appliance fails to configure PAT for a port.
Cmd in reply mode drop	When a command is received in REPLY mode.
Cmd match failure drop	When the security appliance encounters an internal error in regex matching.
	Contact Cisco TAC.
Cmd not a cmd drop	When the FTP command string contains invalid characters, such as numeric characters.
Cmd not port drop	When the security appliance expects to receive a PORT command but receives another command.
Cmd not supported drop	When the security appliance encounters an unsupported FTP command.
Cmd not supported in IPv6 drop	When an FTP command is not supported in IPv6.
Cmd not terminated drop	When the FTP command is not terminated with NL or CR.
Cmd retx unexpected drop	When a retransmitted packet is received unexpectedly.
Cmd too short drop	When the FTP command is too short.
ERPT too short drop	When the ERPT command is too short.
IDS internal error drop	When an internal error is encountered during FTP ID checks.
	Contact Cisco TAC.
Invalid address drop	When an invalid IP address is encountered during inspection.
Invalid EPSV format drop	When a formatting error is found in the ESPV command.
Invalid ERPT AF number drop	When the Address Family (AF) is invalid in the ERPT command.
Invalid port drop	When an invalid port is encountered during inspection.
No back port for data drop	If the packet does not contain a port when processing APPE, STOR, STOU, LIST, NLIST, RETR commands.
PORT command/reply too long drop	When the length of PORT command or passive reply is greater than 8.
Reply code invalid drop	When the reply code is invalid.
Reply length negative drop	When a reply has a negative length value.
Reply unexpected drop	If the security appliance receives a reply when a reply is not expected.
Retx cmd in cmd mode drop	When a retransmitted command is received in CMD mode.

Table 30-1	FTP Drop Counter Descriptions
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Drop Counter	Counter increments
Retx port not old port drop	When a packet is retransmitted but the port in the packet is different from the originally transmitted port.
TCP option exceeds limit drop	When the length value in a TCP option causes the length of the option to exceed the TCP header limit.
TCP option length error drop	When the length value in a TCP option is not correct.

Table 30-1	FTP Drop Counter Descriptions
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Examples

The following is sample output from the **show service-policy inspect ftp** command:

```
hostname# show show service-policy inspect ftp
```

Global policy:	
Service-polic	y: global_policy
Class-map:	inspection_default
Inspect:	ftp, packet 0, drop 0, reset-drop 0
	Can't alloc CP conn drop 1, Can't alloc proxy drop 2
I	TCP option exceeds limit drop 3, TCP option length error drop 4
	Can't alloc FTP structure drop 1, Can't append block drop 2
	PORT cmd/reply too long drop 3, ERPT too short drop 4
	Invalid ERPT AF number drop 5, IDS internal error drop 6
	Invalid address drop 7, Invalid port drop 8
	Can't PAT port drop 9, Invalid EPSV format drop 10
	Retx port not old port drop 11, No back port for data drop 12
1	Can't alloc back conn drop 13, Back port is zero drop 14
1	Cmd too short drop 15, Cmd not terminated drop 16
1	Cmd not a cmd drop 17, Cmd match failure drop 18
1	Cmd not supported drop 19, Cmd not supported in IPv6 drop 20
	Cmd not port drop 21, Retx cmd in cmd mode drop 22
	Cmd retx unexpected drop 23, Cmd in reply mode drop 24
	Reply length negative drop 25, Reply unexpected drop 26
	Reply code invalid drop 27

Related Commands	Commands	Description
	class-map	Defines the traffic class to which to apply security actions.
	inspect ftp	Configures application inspection to inspect FTP traffic.

show service-policy inspect gtp

To display the GTP configuration, use the **show service-policy inspect gtp** command in privileged EXEC mode.

show service-policy [interface int] inspect gtp {pdp-context [apn ap_name | detail | imsi
IMSI_value | ms-addr IP_address | tid tunnel_ID | version version_num] | pdpmcb | requests
| statistics [gsn IP_address] }

Syntax Description.	apn	(Optional) Displays the detailed output of the PDP contexts based on the APN specified.
	ap_name	Identifies the specific access point name for which statistics are displayed.
	detail	(Optional) Displays the detailed output of the PDP contexts.
	imsi	Displays the detailed output of the PDP contexts based on the IMSI specified.
	IMSI_value	Hexadecimal value that identifies the specific IMSI for which statistics are displayed.
	interface	(Optional) Identifies a specific interface.
	int	Identifies the interface for which information will be displayed.
	gsn	(Optional) Identifies the GPRS support node, which is interface between the GPRS wireless data network and other networks.
	gtp	(Optional) Displays the service policy for GTP.
	IP_address	IP address for which statistics are displayed.
	ms-addr	(Optional) Displays the detailed output of the PDP contexts based on the MS Address specified.
	pdp-context	(Optional) Identifies the Packet Data Protocol context
	pdpmcb	(Optional) Displays the status of the PDP master control block.
	requests	(Optional) Displays status of GTP requests.
	statistics	(Optional) Displays GTP statistics.
	tid	(Optional) Displays the detailed output of the PDP contexts based on the TID specified.
	tunnel_ID	Hexadecimal value that identifies the specific tunnel for which statistics are displayed.
	version	(Optional) Displays the detailed output of the PDP contexts based on the GTP version.
	version_num	Specifies the version of the PDP context for which statistics are displayed. The valid range is 0 to 255.

Defaults

No default behavior or values.

Command Modes	The following table	e shows the mode	es in whic	h you can enter	the comma	und:				
		F	irewall N	lode	Security (Context				
						Multiple				
	Command Mode	R	Routed Transparent	Single	Context	System				
	Privileged EXEC		•	•	•	•				
Command History	Release	Modificat	ion							
	7.0(1)	This com	nand was	s introduced.						
Usage Guidelines	You can use the ve						ons.			
	The show pdp-con	The show pdp-context command displays PDP context-related information.								
	The Packet Data Protocol context is identified by the tunnel ID, which is a combination of IMSI and NSAPI. A GTP tunnel is defined by two associated PDP Contexts in different GSN nodes and is identified with a Tunnel ID. A GTP tunnel is necessary to forward packets between an external packed data network and a mobile station user.									
	The show gtp requests command displays current requests in the request queue.									
Examples	The following is sa	ample output from	n the sho	w gtp requests o	command:					
	hostname# show gtp requests 0 in use, 0 most used, 200 maximum allowed									
	You can use the vertical bar I to filter the display, as in the following example:									
	hostname# show service-policy gtp statistics grep gsn									
	This example shows the GTP statistics with the word gsn in the output.									
	The following command shows the statistics for GTP inspection:									
	<pre>hostname# show service-policy inspect gtp statistics GPRS GTP Statistics: version_not_support 0 msg_too_short 0 unknown_msg 0 unexpected_sig_msg 0 unexpected_data_msg 0 ie_duplicated 0 mandatory_ie_missing 0 mandatory_ie_incorrect 0 optional_ie_incorrect 0 ie_unknown 0 ie_out_of_order 0 ie_unexpected 0 total_forwarded 0 total_dropped 0 signalling_msg_dropped 0 data_msg_forwarded 0 total created_pdp 0 total_deleted_pdp 0 total created_pdpmcb 0 total_deleted_pdpmcb 0 pdp_non_existent 0</pre>									

Cisco Security Appliance Command Reference

The following command displays information about the PDP contexts:

hostname# show service-policy inspect gtp pdp-context
1 in use, 1 most used, timeout 0:00:00
Version TID | MS Addr | SGSN Addr | Idle | APN
v1 | 1234567890123425 | 1.1.1.1 | 11.0.0.2 0:00:13 gprs.cisco.com
| user_name (IMSI): 214365870921435 | MS address: | 1.1.1.1
| primary pdp: Y | nsapi: 2
| sgsn_addr_signal: | 11.0.0.2 | sgsn_addr_data: | 11.0.0.2
| ggsn_addr_signal: | 9.9.9.9 | ggsn_addr_data: | 9.9.9.9
| sgsn control teid: | 0x000001d1 | sgsn data teid: | 0x000001d3
| ggsn control teid: | 0x6306ffa0 | ggsn data teid: | 0x6305f9fc
| seq_tpdu_up: | 0 | seq_tpdu_down: | 0
| signal_sequence: | 0
| upstream_signal_flow: | 0 | upstream_data_flow: | 0
| RAupdate_flow: | 0

Table 30-2 describes each column the output from the **show service-policy inspect gtp pdp-context** command.

Column Heading	Description	
Version	Displays the version of GTP.	
TID	Displays the tunnel identifier.	
MS Addr	Displays the mobile station address.	
SGSN Addr	Displays the serving gateway service node.	
Idle	Displays the time for which the PDP context has not been in use.	
APN	Displays the access point name.	

Table 30-2 PDP Contexts

Related	Commands
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Commands	Description				
class-map	Defines the traffic class to which to apply security actions.				
clear service-policy inspect gtp	Clears global GTP statistics.				
debug gtp	Displays detailed information about GTP inspection.				
gtp-map	Defines a GTP map and enables GTP map configuration mode.				
inspect gtp	Applies a specific GTP map to use for application inspection.				

show service-policy inspect radius-accounting

To display the Radius-accounting configuration for application inspection, use the **show service-policy inspect radius-accounting** command in privileged EXEC mode.

show service-policy [interface int] inspect radius-accounting

c Description.	interface int	(Optional) Identifi	es a specific inte	erface.				
ılts	No default behavior	or values.						
mand Modes	The following table	shows the modes in whic	ch you can enter	the comma	and:			
		Firewall N	lode	Security (Context			
					Multiple	Multiple		
	Command Mode	Routed	Transparent	Single	Context	System		
	Privileged EXEC	•	•	•	•			
nand History	Release Modification							
	7.2(1)	This command wa	s introduced.					
nples	The following is san command:	nple output from the sho	w show service-	policy insp	pect radius-ac	counting		
		w service-policy insp used, 200 maximum allo		ounting				
ted Commands	Commands	Description						
	class-map Defines the traffic class to which to apply security actions.							
	eines innp	Configures applica						

show shun

To display shun information, use the **show shun** command in privileged EXEC mode.

show shun [src_ip | statistics]

yntax Description	<i>src_ip</i> (Optional) Displays the information for that address.							
	<i>statistics</i> (Optional) Displays the interface counters only.							
efaults	No default behavior or	values.						
Command Modes	The following table sho	ows the modes in whic	h you can enter	the comma	nd:			
		Firewall N	lode	Security C	Context			
					Multiple			
	Command Mode	Routed	Transparent	Single	Context	System		
	Privileged EXEC	•	•	•	•			
ommand History	Release Preexisting	Modification This command was	s preexisting.					
xamples	The following is sampl hostname# show shun shun (outside) 10.1.	-		d:				
	shun (insidel) 10.1.	1.27 10.2.2.89 555						
Related Commands	shun (inside1) 10.1.	1.27 10.2.2.89 555 Description						
elated Commands	· · ·		666 6	ently enable	ed and clears th	he shun		

show sip

To display SIP sessions, use the show sip command in privileged EXEC mode.

show sip

Syntax Description This command has no arguments or keywords.

Defaults No default behavior or values.

Command Modes The following table shows the modes in which you can enter the command:

	Firewall N	Firewall Mode		Security Context		
				Multiple		
Command Mode	Routed	Transparent	Single	Context	System	
Privileged EXEC	•	•	•	•	•	

Command History	Release	Modification	
	Preexisting	This command was preexisting.	

Usage Guidelines The **show sip** command assists in troubleshooting SIP inspection engine issues and is described with the **inspect protocol sip udp 5060** command. The **show timeout sip** command displays the timeout value of the designated protocol.

The **show sip** command displays information for SIP sessions established across the security appliance. Along with the **debug sip** and **show local-host** commands, this command is used for troubleshooting SIP inspection engine issues.

Note

We recommend that you configure the **pager** command before using the **show sip** command. If there are a lot of SIP session records and the **pager** command is not configured, it will take a while for the **show sip** command output to reach its end.

Examples

The following is sample output from the show sip command:

```
hostname# show sip
Total: 2
call-id c3943000-960ca-2e43-228f@10.130.56.44
| state Call init, idle 0:00:01
call-id c3943000-860ca-7e1f-11f7@10.130.56.45
| state Active, idle 0:00:06
```

This sample shows two active SIP sessions on the security appliance (as shown in the Total field). Each call-id represents a call.

The first session, with the call-id c3943000-960ca-2e43-228f@10.130.56.44, is in the state call Init, which means the session is still in call setup. Call setup is complete only when the ACK is seen. This session has been idle for 1 second.

The second session is in the state Active, in which call setup is complete and the endpoints are exchanging media. This session has been idle for 6 seconds.

Related Co	mmands
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Commands	Description				
class-map	Defines the traffic class to which to apply security actions.				
debug sip	Enables debug information for SIP.				
inspect sip	Enables SIP application inspection.				
show conn	Displays the connection state for different connection types.				
timeout	Sets the maximum idle time duration for different protocols and session types.				

show skinny

L

To troubleshoot SCCP (Skinny) inspection engine issues, use the **show skinny** command in privileged EXEC mode.

show skinny

Syntax Description This command has no arguments or keywords.

Defaults No default behavior or values.

Command Modes The following table shows the modes in which you can enter the command:

	Firewall M	Firewall Mode		Security Context		
				Multiple		
Command Mode	Routed	Transparent	Single	Context	System	
Privileged EXEC	•	•	•	•		

Command History	Release	Modification
	Preexisting	This command was preexisting.

Usage Guidelines The **show skinny** command assists in troubleshooting SCCP (Skinny) inspection engine issues.

ExamplesThe following is sample output from the show skinny command under the following conditions. There
are two active Skinny sessions set up across the security appliance. The first one is established between
an internal Cisco IP Phone at local address 10.0.0.11 and an external Cisco CallManager at 172.18.1.33.
TCP port 2000 is the CallManager. The second one is established between another internal Cisco IP
Phone at local address 10.0.0.22 and the same Cisco CallManager.

hostname# show skinny

		LOCAL	FOREIGN	STATE	
1		10.0.0.11/52238	172.18.1.33/2000		1
	MEDIA	10.0.0.11/22948	172.18.1.22/20798		
2		10.0.0.22/52232	172.18.1.33/2000		1
	MEDIA	10.0.0.22/20798	172.18.1.11/22948		

The output indicates a call has been established between both internal Cisco IP Phones. The RTP listening ports of the first and second phones are UDP 22948 and 20798 respectively.

The following is the xlate information for these Skinny connections:

Related Commands

Commands	Description		
class-map	Defines the traffic class to which to apply security actions.		
debug skinny	Enables SCCP debug information.		
inspect skinny	Enables SCCP application inspection.		
show conn	Displays the connection state for different connection types.		
timeout	Sets the maximum idle time duration for different protocols and session types.		

show sla monitor configuration

To display the configuration values, including the defaults, for SLA operations, use the **show sla monitor configuration** command in user EXEC mode.

show sla monitor configuration [sla-id]

Syntax Description	sla-id	(Optio 21474)		number of the SI	LA operatio	on. Valid value	s are from 1 to
Defaults	If the <i>sla-id</i> is not sp	pecified, the	configuration	n values for all S	SLA operati	ions are shown	l.
Command Modes	The following table	shows the m	odes in whic	h you can enter	the comma	nd:	
			Firewall N	lode	Security C	ontext	
						Multiple	
	Command Mode		Routed	Transparent	Single	Context	System
	User EXEC		•	•	•	•	
Command History	Release	Modifi	cation				
Commanu mistory	7.2(1)		ommand was	introduced			
Examples	configuration. The following is sar values for SLA oper	ration 123. Fo	ollowing the	output of the she	ow sla mon	itor command	
	the show running-c	-		and for the same	e SLA oper	ation.	
	SA Agent, Infrast Entry number: 124 Owner: Tag: Type of operation	ructure Engi	ne-II				

Group Scheduled : FALSE Life (seconds): Forever Entry Ageout (seconds): never Recurring (Starting Everyday): FALSE Status of entry (SNMP RowStatus): Active Enhanced History: hostname# show running-config sla monitor 124

sla monitor 124
type echo protocol ipIcmpEcho 10.1.1.1 interface outside
timeout 1000
frequency 3
sla monitor schedule 124 life forever start-time now

Related Commands Command D		Description
	show running-config sla monitor	Displays the SLA operation configuration commands in the running configuration.
	sla monitor	Defines an SLA monitoring operation.

30-21

show sla monitor operational-state

To display the operational state of SLA operations, use the **show sla monitor operational-state** command in user EXEC mode.

show sla monitor operational-state [sla-id]

Syntax Description	sla-id	(Optional) The ID 2147483647.	number of the SI	LA operatio	on. Valid values	s are from 1	
Defaults	If the <i>sla-id</i> is not spec	ified, statistics for all	SLA operations	are display	ed.		
command Modes	The following table sho	ows the modes in whic	ch you can enter	the comma	nd:		
		Firewall N	lode	Security C	ontext		
				-	Multiple		
	Command Mode	Routed	Transparent	Single	-	System	
	User EXEC	•	•	•	•		
			I			I	
ommand History	Release	Modification					
	7.2(1)This command was introduced.						
sage Guidelines	Use the show running running configuration.			ay the SLA	operation cor	nmands in t	
Jsage Guidelines	Use the show running			ay the SLA	operation con	nmands in t	
	Use the show running	-config sla monitor co	ommand to displ	-	-		
	Use the show running running configuration.	-config sla monitor co e output from the sho	ommand to displ w sla monitor o	-	-		
	Use the show running running configuration. The following is sampl hostname> show sla m Entry number: 124 Modification time: 1 Number of Octets Use Number of operations Number of operations	-config sla monitor co le output from the shor conitor operationl-s 4:42:23.607 EST Wed d by this Entry: 14 attempted: 4043 skipped: 0	ommand to displ w sla monitor of tate Mar 22 2006	-	-		
	Use the show running running configuration. The following is sampl hostname> show sla m Entry number: 124 Modification time: 1 Number of Octets Use Number of operations	-config sla monitor co e output from the shor conitor operationl-s 4:42:23.607 EST Wed d by this Entry: 14 attempted: 4043 skipped: 0 in Life: Forever entry: Active was reset: Never	ommand to displ w sla monitor of tate Mar 22 2006	-	-		
	Use the show running running configuration. The following is sampl hostname> show sla m Entry number: 124 Modification time: 1 Number of Octets Use Number of operations Number of operations Current seconds left Operational state of Last time this entry	-config sla monitor co e output from the shor conitor operationl-s 4:42:23.607 EST Wed d by this Entry: 14 attempted: 4043 skipped: 0 in Life: Forever entry: Active was reset: Never rred: FALSE UE	ommand to displ w sla monitor of tate Mar 22 2006	-	-		
Usage Guidelines Examples	Use the show running running configuration. The following is sampl hostname> show sla m Entry number: 124 Modification time: 1 Number of Octets Use Number of operations Number of operations Current seconds left Operational state of Last time this entry Connection loss occur	-config sla monitor co e output from the shor conitor operationl-s 4:42:23.607 EST Wed d by this Entry: 14 attempted: 4043 skipped: 0 in Life: Forever entry: Active was reset: Never rred: FALSE UE rred: FALSE onds): NoConnection rt time: 18:04:26.6	ommand to displ w sla monitor of tate Mar 22 2006 80	perational	-		

NumOfRTT: 0 RTTSum: 0 RTTSum2: 0

Related Commands

Command	Description
show running-config sla monitor	Displays the SLA operation configuration commands in the running configuration.
sla monitor	Defines an SLA monitoring operation.

show snmp-server statistics

To display SNMP server statistics, use the **show snmp-server statistics** command in privileged EXEC mode.

show snmp-server statistics

Syntax Description This command has no arguments or keywords.

Defaults No default behavior or values.

Command Modes The following table shows the modes in which you can enter the command:

	Firewall Mode		Security Context		
				Multiple	
Command Mode	Routed	Transparent	Single	Context	System
Privileged EXEC	•	•	•	•	

Command History	Release	Modification
	7.0(1)	This command was introduced.

Example	es
---------	----

This example shows how to display the SNMP server statistics:

hostname# show snmp-server statistics
0 SNMP packets input
0 Bad SNMP version errors
0 Unknown community name
0 Illegal operation for community name supplied
0 Encoding errors
0 Number of requested variables
0 Number of altered variables
0 Get-request PDUs
0 Get-next PDUs
0 Get-bulk PDUs
0 Set-request PDUs (Not supported)
0 SNMP packets output
0 Too big errors (Maximum packet size 512)
0 No such name errors
0 Bad values errors
0 General errors
0 Response PDUs
0 Trap PDUs

Related Commands

Command	Description
snmp-server	Provides the security appliance event information through SNMP.
clear configure snmp-server	Disables the SNMP server.
show running-config snmp-server	Displays the SNMP server configuration.

show ssh sessions

To display information about the active SSH session on the security appliance, use the **show ssh sessions** command in privileged EXEC mode.

show ssh sessions [ip_address]

Syntax Description	ip_address	(Option	al) Displays so	ession inform	nation for only	the specifi	ed IP address.
Defaults	No default behavior	or values.					
Command Modes	The following table :	shows the mo	des in which y	ou can enter	the command:		
			Firewall Mod	e	Security Cont	ext	
						Multiple	
	Command Mode		Routed	Transparent	Single	Context	System
	Privileged EXEC		•	•	•	•	—
Command History	Release	Modific	ation				
	Preexisting	This co	nmand was pr	eexisting.			
	SSH only supports S SSH version 1 and SS SSH version 2, then encryption that the S as it interacts with th	SH version 2, t the Version co SH client is u se security app	then the Versic olumn display sing. The Stat	on column dis s 2.0. The Er e column sho	plays 1.99. If the cryption column ows the progress	ne SSH clie in shows th is that the c	ent only suppor
	authenticated for the SSH version 2, whic and out. For SSH ver nil ('-') and allows o	h can use the sion 1, which	same or differ uses the same	describes th ent encryptic encryption	e direction of to on algorithms, t	he SSH dat he Mode f	client is makin me that has be ta streams. For ield displays in
xamples	authenticated for the SSH version 2, whic and out. For SSH ver	h can use the rsion 1, which nly one entry	same or differ uses the same per connectio	describes th ent encryptic e encryption i n.	e direction of t on algorithms, t n both directio	ne SSH dat he Mode f ns, the Mo	client is makin me that has been ta streams. For ield displays in
zamples	authenticated for the SSH version 2, whic and out. For SSH ver nil ('-') and allows o The following examp hostname# show ssh	h can use the rsion 1, which nly one entry ple demonstra sessions	same or differ uses the same per connectio tes the output	describes th ent encryptic encryption i n. of the show	e direction of t on algorithms, t in both direction ssh sessions co	ne SSH dat he Mode f ns, the Mo mmand:	client is makin me that has be ta streams. For ield displays in de field displa
Examples	authenticated for the SSH version 2, whic and out. For SSH ver nil ('-') and allows o The following examp	h can use the rsion 1, which nly one entry ple demonstra sessions	same or differ uses the same per connectio tes the output de Encryptio aes128-cb	describes th ent encryptic encryption i n. of the show n Hmac c md5	e direction of t on algorithms, t n both directio	ne SSH dat he Mode f ns, the Mo ommand: Usernar d pat	client is makin me that has bee ta streams. For ield displays in de field display

Related Commands	Command	Description
	ssh disconnect	Disconnects an active SSH session.
	ssh timeout	Sets the timeout value for idle SSH sessions.

show startup-config

To show the startup configuration or to show any errors when the startup configuration loaded, use the **show startup-config** command in privileged EXEC mode.

show startup-config [errors]

Syntax Description	errors	· · ·	ws any errors that w tup configuration.	ere generate	ed when the se	curity appliance		
Defaults	No default behavior or	values.						
Command Modes	The following table sho	ows the modes in v	which you can enter	the comma	and:			
		Firewa	all Mode	Security (Context			
					Multiple			
	Command Mode	Routed	l Transparent	Single	Context	System ¹		
	Privileged EXEC	•	•	•	•	•		
	1. The errors keyword is c	only available in single	mode and the system ex	xecution space	,			
Command History	Release Modification							
Jsage Guidelines	In multiple context mode, this command shows the startup configuration for your current execution							
	space: the system configuration or the security context.							
	To clear the startup error	ors from memory,	use the clear start	up-config e	rrors comman	d.		
Examples	The following is sample	e output from the	show startup-conf	ig command	1:			
	hostname# show startup-config : Saved : Written by enable_15 at 01:44:55.598 UTC Thu Apr 17 2003							
	Version 7.X(X) !							
	interface GigabitEthe nameif inside security-level 100 ip address 10.86.194 webvpn enable		.0					
	interface GigabitEthe shutdown nameif test	ernet0/1						

```
security-level 0
ip address 10.10.4.200 255.255.0.0
I.
. . .
!
enable password 8Ry2YjIyt7RRXU24 encrypted
passwd 2KFQnbNIdI.2KYOU encrypted
hostname firewall1
domain-name example.com
boot system disk0:/cdisk.bin
ftp mode passive
names
name 10.10.4.200 outside
access-list xyz extended permit ip host 192.168.0.4 host 150.150.0.3
1
ftp-map ftp_map
ftp-map inbound_ftp
deny-request-cmd appe stor stou
1
. . .
```

Cryptochecksum:4edf97923899e712ed0da8c338e07e63

The following is sample output from the show startup-config errors command:

```
hostname# show startup-config errors
```

```
ERROR: 'Mac-addresses': invalid resource name
*** Output from config line 18, " limit-resource Mac-add..."
INFO: Admin context is required to get the interfaces
*** Output from config line 30, "arp timeout 14400"
Creating context 'admin'... WARNING: Invoked the stub function ibm_4gs3_context_
set_max_mgmt_sess
WARNING: Invoked the stub function ibm_4gs3_context_set_max_mgmt_sess
Done. (1)
*** Output from config line 33, "admin-context admin"
WARNING: VLAN *24* is not configured.
*** Output from config line 12, context 'admin', " nameif inside"
.....
*** Output from config line 37, " config-url disk:/admin..."
```

Related Commands	Command	Description
clear startup-config errors		Clears the startup errors from memory.
	show running-config	Shows the running configuration.

show sunrpc-server active

To display the pinholes open for Sun RPC services, use the **show sunrpc-server active** command in privileged EXEC mode.

show sunrpc-server active

show running-config

sunrpc-server

Defaults No default behavior or values. **Command Modes** The following table shows the modes in which you can enter the command: **Firewall Mode Security Context** Multiple **Command Mode** Routed Transparent Single Context System Privileged EXEC • • • • **Command History** Release Modification Preexisting This command was preexisting. **Usage Guidelines** Use the show sunrpc-server active command to display the pinholes open for Sun RPC services, such as NFS and NIS. Examples To display the pinholes open for Sun RPC services, enter the show sunrpc-server active command. The following is sample output from the show sunrpc-server active command: hostname# show sunrpc-server active LOCAL FORETGN SERVICE TIMEOUT _____ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ 192.168.100.2/0 209.165.200.5/32780 100005 00:10:00 **Related Commands** Command Description clear configure Clears the Sun remote processor call services from the security appliance. sunrpc-server Clears the pinholes opened for Sun RPC services, such as NFS or NIS. clear sunrpc-server active Enables or disables Sun RPC application inspection and configures the port inspect sunrpc used.

Displays information about the SunRPC services configuration.

show switch mac-address-table

For models with a built-in switch, such as the ASA 5505 adaptive security appliance, use the **show switch mac-address-table** command in privileged EXEC mode to view the switch MAC address table.

show switch mac-address-table

Syntax Description This command has no arguments or keywords.

Defaults No default behavior or values.

Command Modes The following table shows the modes in which you can enter the command:

	Firewall M	Firewall Mode		Security Context		
				Multiple		
Command Mode	Routed	Transparent	Single	Context	System	
Privileged EXEC	•	•	•	_		

Command History	Release	Modification
7.2(1)		This command was introduced.

Usage Guidelines This command is for models with built-in switches only. The switch MAC address table maintains the MAC address-to-switch port mapping for traffic within each VLAN in the switch hardware. If you are in transparent firewall mode, use the **show mac-address-table** command to view the bridge MAC address table in the ASA software. The bridge MAC address table maintains the MAC address-to-VLAN interface mapping for traffic that passes between VLANs.

MAC address entries age out in 5 minutes.

Examples

The following is sample output from the show switch mac-address-table command.

hostname# **show switch mac-address-table** Legend: Age - entry expiration time in seconds

Mac Address	VLAN	Туре	Age	Port
000e.0c4e.2aa4	0001	dynamic	287	Et0/0
0012.d927.fb03	0001	dynamic	287	Et0/0
0013.c4ca.8a8c	0001	dynamic	287	Et0/0
00b0.6486.0c14	0001	dynamic	287	Et0/0
00d0.2bff.449f	0001	static	-	In0/1
0100.5e00.000d	0001	static multicast	-	In0/1,Et0/0-7
Total Entries: 6				

Table 30-3 shows each field description:

Field	Description
Mac Address	Shows the MAC address.
VLAN	Shows the VLAN associated with the MAC address.
Туре	Shows if the MAC address was learned dynamically, as a static multicast address, or statically. The only static entry is for the internal backplane interface.
Age	Shows the age of a dynamic entry in the MAC address table.
Port	Shows the switch port through which the host with the MAC address can be reached.

Table 30-3 show switch mac-address-table Fields

Related Commands

Command	Description
show mac-address-table	Shows the MAC address table for models that do not have a built-in switch.
show switch vlan	Shows the VLAN and physical MAC address association.

show switch vlan

For models with a built-in switch, such as the ASA 5505 adaptive security appliance, use the **show switch vlan** command in privileged EXEC mode to view the VLANs and the associated switch ports.

show switch vlan

Syntax Description This command has no arguments or keywords.

Defaults No default behavior or values.

Command Modes The following table shows the modes in which you can enter the command:

	Firewall N	Firewall Mode		Security Context		
	Routed			Multiple		
Command Mode		Transparent	Single	Context	System	
Privileged EXEC	•	•	•		_	

Command History	Release	Modification
7.2(1)		This command was introduced.

Usage Guidelines This command is for models with built-in switches only. For other models, use the **show vlan** command.

Examples

The following is sample output from the **show switch vlan** command.

hostname# show switch vlan

VLAN	Name	Status	Ports
100	inside	up	Et0/0, Et0/1
200	outside	up	Et0/7
300	-	down	Et0/1, Et0/2
400	backup	down	Et0/3

Table 30-3 shows each field description:

	Table 30-4	show switch vlan Fields
--	------------	-------------------------

Field	Description
VLAN	Shows the VLAN number.
Name	Shows the name of the VLAN interface. If no name is set using the nameif command, or if there is no interface vlan command, the display shows a dash (-).

Field	Description	
Status	Shows the status, up or down, to receive and send traffic to and from the VLAN in the switch. At least one switch port in the VLAN needs to be in an up state for the VLAN state to be up.	
Ports	Shows the switch ports assigned to each VLAN. If a switch port is listed for multiple VLANs, it is a trunk port. The above sample output shows Ethernet 0/1 is a trunk port that carries VLAN 100 and 300.	

Table 30-4show switch vlan Fields

Related Commands C

Command	Description	
clear interface Clears counters for the show interface command.		
interface vlan	Creates a VLAN interface and enters interface configuration mode.	
show interface	Displays the runtime status and statistics of interfaces.	
show vlan	Shows the VLANs for models that do not have built-in switches.	
switchport mode	itchport mode Sets the mode of the switch port to access or trunk mode.	

show tcpstat

To display the status of the security appliance TCP stack and the TCP connections that are terminated on the security appliance (for debugging), use the **show tcpstat** command in privileged EXEC mode. This command supports IPv4 and IPv6 addresses.

show tcpstat

- **Syntax Description** This command has no arguments or keywords.
- **Defaults** No default behavior or values.

Command Modes The following table shows the modes in which you can enter the command:

	Firewall Mode		Security Context		
				Multiple	
Command Mode	Routed	Transparent	Single	Context	System
Privileged EXEC	•	•	•	•	_

Command History	Release	Modification
	Preexisting	This command was preexisting.

Usage Guidelines The **show tcpstat** command allows you to display the status of the TCP stack and TCP connections that are terminated on the security appliance. The TCP statistics displayed are described in Table 28.

 Table 30-5
 TCP Statistics in the show tcpstat Command

Statistic	Description	
tcb_cnt	Number of TCP users.	
proxy_cnt	Number of TCP proxies. TCP proxies are used by user authorization.	
tcp_xmt pkts	Number of packets that were transmitted by the TCP stack.	
tcp_rcv good pkts	Number of good packets that were received by the TCP stack.	
tcp_rcv drop pkts	Number of received packets that the TCP stack dropped.	
tcp bad chksum	Number of received packets that had a bad checksum.	
tcp user hash add	Number of TCP users that were added to the hash table.	
tcp user hash add dup	Number of times a TCP user was already in the hash table when trying to add a new user.	
tcp user srch hash hit	Number of times a TCP user was found in the hash table when searching.	

Statistic	Description	
tcp user srch hash miss	Number of times a TCP user was not found in the hash table when searching.	
tcp user hash delete	Number of times that a TCP user was deleted from the hash table.	
tcp user hash delete miss	Number of times that a TCP user was not found in the hash table when trying to delete the user.	
lip	Local IP address of the TCP user.	
fip	Foreign IP address of the TCP user.	
lp	Local port of the TCP user.	
fp	Foreign port of the TCP user.	
st	State (see RFC 793) of the TCP user. The possible values are as follows:	
	1CLOSED2LISTEN3SYN_SENT4SYN_RCVD5ESTABLISHED6FIN_WAIT_17FIN_WAIT_28CLOSE_WAIT9CLOSING10LAST_ACK11TIME_WAIT	
rexqlen	Length of the retransmit queue of the TCP user.	
inqlen	Length of the input queue of the TCP user.	
tw_timer	Value of the time_wait timer (in milliseconds) of the TCP user.	
to_timer	Value of the inactivity timeout timer (in milliseconds) of the TCP user.	
cl_timer	Value of the close request timer (in milliseconds) of the TCP user.	
per_timer	Value of the persist timer (in milliseconds) of the TCP user.	
rt_timer	Value of the retransmit timer (in milliseconds) of the TCP user.	
tries	Retransmit count of the TCP user.	

Table 30-5 TCP Statistics in the show tcpstat Command (continued)

Examples

This example shows how to display the status of the TCP stack on the security appliance:

hostname# show tcpstat CURRENT MAX TOTAL tcb_cnt 2 12 320 proxy_cnt 0 0 160 tcp_xmt pkts = 540591 tcp_rcv good pkts = 6583 tcp_rcv drop pkts = 2

```
tcp bad chksum = 0
tcp user hash add = 2028
tcp user hash add dup = 0
tcp user srch hash hit = 316753
tcp user srch hash miss = 6663
tcp user hash delete = 2027
tcp user hash delete miss = 0
lip = 172.23.59.230 fip = 10.21.96.254 lp = 443 fp = 2567 st = 4 rexqlen = 0
in0
tw_timer = 0 to_timer = 179000 cl_timer = 0 per_timer = 0
rt_timer = 0
tries 0
```

Related Commands	Command	Description
	show conn	Displays the connections used and those that are available.
show tech-support

To display the information that is used for diagnosis by technical support analysts, use the **show tech-support** command in privileged EXEC mode.

show tech-support [detail | file | no-config]

Syntax Description	detail (Optional) Lists detailed information.							
	file (Optional) Writes the output of the command to a file.							
	no-config	(Optional) I	Excludes the c	output of the run	ning config	guration.		
Defaults	No default behav	ior or values.						
Command Modes	The following tal	ble shows the r	modes in whic	h you can enter	the comma	nd:		
			Firewall N	lode	Security C	ontext		
						Multiple		
	Command Mode		Routed	Transparent	Single	Context	System	
	Privileged EXEC	2	•	•	•		•	
Command History	Release	Modi	fication					
	7.0(1)			keywords were				
	7.2(1)		output display esses that hog	was enhanced to	display mo	ore detailed inf	ormation about	
Usage Guidelines	The show tech-s you diagnose pro most information	oblems. This co	ommand comb					
				vst.			that provide the	
Examples	The following ex excluding the out	-	now to display	information tha	t is used fo	r technical sup		
Examples	_	tput of the run	now to display ning configura	information tha	t is used fo	r technical sup		
Examples	excluding the out	tput of the runn tech-support wall Version 2	now to display ning configura no-config x.x(x)	information tha	t is used fo	r technical sup		
Examples	excluding the out hostname# show Cisco XXX Firew	tput of the runn tech-support wall Version 2 anager Version	now to display ning configura no-config x.x(x) n x.x(x)	information tha	t is used fo	r technical sup		
Examples	excluding the out hostname# show Cisco XXX Firew Cisco Device Ma	tput of the runn tech-support wall Version 2 anager Version i 15-Apr-05 14	now to display ning configura no-config x.x(x) n x.x(x)	information tha	t is used fo	or technical sup		

BIOS Flash AT29C257 @ 0xfffd8000, 32KB 0: ethernet0: address is 0003.e300.73fd, irq 10 1: ethernet1: address is 0003.e300.73fe, irg 7 2: ethernet2: address is 00d0.b7c8.139e, irg 9 Licensed Features: Disabled Failover: VPN-DES: Enabled VPN-3DES-AES: Disabled Maximum Interfaces: 3 Cut-through Proxy: Enabled Guards: Enabled URL-filtering: Enabled Inside Hosts: Unlimited Throughput: Unlimited Unlimited IKE peers: This XXX has a Restricted (R) license. Serial Number: 480430455 (0x1ca2c977) Running Activation Key: 0xc2e94182 0xc21d8206 0x15353200 0x633f6734 Configuration last modified by enable_15 at 23:05:24.264 UTC Sat Nov 16 2002 ----- show clock -----00:08:14.911 UTC Sun Apr 17 2005 ----- show memory -----Free memory: 50708168 bytes 16400696 bytes Used memory: _____ _____ Total memory: 67108864 bytes ----- show conn count ------0 in use, 0 most used ----- show xlate count -----0 in use, 0 most used ----- show blocks ------MAX SIZE LOW CNT 4 1600 1600 1600 80 400 400 400 256 500 499 500 1188 795 1550 919 ----- show interface ----interface ethernet0 "outside" is up, line protocol is up Hardware is i82559 ethernet, address is 0003.e300.73fd IP address 172.23.59.232, subnet mask 255.255.0.0 MTU 1500 bytes, BW 10000 Kbit half duplex 1267 packets input, 185042 bytes, 0 no buffer Received 1248 broadcasts, 0 runts, 0 giants 0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored, 0 abort 20 packets output, 1352 bytes, 0 underruns 0 output errors, 0 collisions, 0 interface resets 0 babbles, 0 late collisions, 9 deferred 0 lost carrier, 0 no carrier input queue (curr/max blocks): hardware (13/128) software (0/2)

output queue (curr/max blocks): hardware (0/1) software (0/1) interface ethernet1 "inside" is up, line protocol is down Hardware is i82559 ethernet, address is 0003.e300.73fe IP address 10.1.1.1, subnet mask 255.255.255.0 MTU 1500 bytes, BW 10000 Kbit half duplex 0 packets input, 0 bytes, 0 no buffer Received 0 broadcasts, 0 runts, 0 giants 0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored, 0 abort 1 packets output, 60 bytes, 0 underruns 0 output errors, 0 collisions, 0 interface resets 0 babbles, 0 late collisions, 0 deferred 1 lost carrier, 0 no carrier input queue (curr/max blocks): hardware (128/128) software (0/0) output queue (curr/max blocks): hardware (0/1) software (0/1) interface ethernet2 "intf2" is administratively down, line protocol is down Hardware is i82559 ethernet, address is 00d0.b7c8.139e IP address 127.0.0.1, subnet mask 255.255.255.255 MTU 1500 bytes, BW 10000 Kbit half duplex 0 packets input, 0 bytes, 0 no buffer Received 0 broadcasts, 0 runts, 0 giants 0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored, 0 abort 0 packets output, 0 bytes, 0 underruns 0 output errors, 0 collisions, 0 interface resets 0 babbles, 0 late collisions, 0 deferred 0 lost carrier, 0 no carrier input queue (curr/max blocks): hardware (128/128) software (0/0) output queue (curr/max blocks): hardware (0/0) software (0/0) ----- show cpu usage -----CPU utilization for 5 seconds = 0%; 1 minute: 0%; 5 minutes: 0% ----- show cpu hogging process -----Process: fover_parse, NUMHOG: 2, MAXHOG: 280, LASTHOG: 140 02:08:24 UTC Jul 24 2005 LASTHOG At: PC 11a4d5 12135e 121893 121822 a10d8b 9fd061 114de6 113e56f Traceback: 777135 7a3858 7a3f59 700b7f 701fbf 14b984 ----- show process -----PC SP STATE Runtime SBASE Stack Process 0 00762ef4 3784/4096 arp_timer Hsi 001e3329 00763e7c 0053e5c8 Lsi 001e80e9 00807074 0053e5c8 0 008060fc 3832/4096 FragDBGC Lwe 00117e3a 009dc2e4 00541d18 0 009db46c 3704/4096 dbgtrace Lwe 003cee95 009de464 00537718 0 009dc51c 8008/8192 Logger 0 009df5e4 8008/8192 tcp_fast Hwe 003d2d18 009e155c 005379c8 0 009e1694 8008/8192 tcp_slow Hwe 003d2c91 009e360c 005379c8 Lsi 002ec97d 00b1a464 0053e5c8 0 00b194dc 3928/4096 xlate clean Lsi 002ec88b 00b1b504 0053e5c8 0 00b1a58c 3888/4096 uxlate clean Mwe 002e3a17 00c8f8d4 0053e5c8 0 00c8d93c 7908/8192 tcp_intercept_times Lsi 00423dd5 00d3a22c 0053e5c8 0 00d392a4 3900/4096 route_process

Hsi 002d59fc 00d3b2bc 0053e5c8

Hwe 0020e301 00d5957c 0053e5c8

Lsi 002d377c 00d7292c 0053e5c8

Hwe 0020bd07 00d9c12c 0050bb90

Mwe 00205e25 00d9e1ec 0053e5c8

Hwe 003864e3 00db26bc 00557920 Mwe 00255a65 00dc9244 0053e5c8

Lwe 002e450e 00e7bb94 00552c30

Lwe 002e471e 00e7cc44 00553368

Hwe 001e5368 00e7ed44 00730674

0 00d3a354 3780/4096 XXX Garbage Collecr

0 00d55614 16048/16384 isakmp_time_keepr

0 00d9c274 7860/8192 IPsec timer handler 0 00db0764 6952/8192 qos_metric_daemon

0 00d719a4 3928/4096 perfmon

0 00e7ad1c 3704/4096 XXX/trace

0 00e7ce9c 7228/8192 XXX/intf0

0 00dc8adc 1436/2048 IP Background

0 00e7bdcc 3704/4096 XXX/tconsole

0 00d9b1c4 3944/4096 IPSec

Hwe 001e5368 00e80e14 007305d4 0 00e7ef6c 7228/8192 XXX/intf1 Hwe 001e5368 00e82ee4 00730534 2470 00e8103c 4892/8192 XXX/intf2 H* 0011d7f7 0009ff2c 0053e5b0 780 00e8511c 13004/16384 ci/console Csi 002dd8ab 00e8a124 0053e5c8 0 00e891cc 3396/4096 update_cpu_usage Hwe 002cb4d1 00f2bfbc 0051e360 0 00f2a134 7692/8192 uauth_in Hwe 003d17d1 00f2e0bc 00828cf0 0 00f2c1e4 7896/8192 uauth_thread Hwe 003e71d4 00f2f20c 00537d20 0 00f2e294 3960/4096 udp_timer Hsi 001db3ca 00f30fc4 0053e5c8 0 00f3004c 3784/4096 557mcfix Crd 001db37f 00f32084 0053ea40 121094970 00f310fc 3744/4096 557poll Lsi 001db435 00f33124 0053e5c8 0 00f321ac 3700/4096 557timer 0 00f43294 3912/4096 fover_ip0 Hwe 001e5398 00f441dc 008121e0 20 00f44344 3528/4096 ip/0:0 Cwe 001dcdad 00f4523c 00872b48 Hwe 001e5398 00f4633c 008121bc 0 00f453f4 3532/4096 icmp0 Hwe 001e5398 00f47404 00812198 0 00f464cc 3896/4096 udp_thread/0 Hwe 001e5398 00f4849c 00812174 0 00f475a4 3832/4096 tcp_thread/0 Hwe 001e5398 00f495bc 00812150 0 00f48674 3912/4096 fover_ip1 Cwe 001dcdad 00f4a61c 008ea850 0 00f49724 3832/4096 ip/1:1 Hwe 001e5398 00f4b71c 0081212c 0 00f4a7d4 3912/4096 icmp1 Hwe 001e5398 00f4c7e4 00812108 0 00f4b8ac 3896/4096 udp_thread/1 Hwe 001e5398 00f4d87c 008120e4 0 00f4c984 3832/4096 tcp_thread/1 Hwe 001e5398 00f4e99c 008120c0 0 00f4da54 3912/4096 fover_ip2 Cwe 001e542d 00f4fa6c 00730534 0 00f4eb04 3944/4096 ip/2:2 Hwe 001e5398 00f50afc 0081209c 0 00f4fbb4 3912/4096 icmp2 Hwe 001e5398 00f51bc4 00812078 0 00f50c8c 3896/4096 udp_thread/2 Hwe 001e5398 00f52c5c 00812054 0 00f51d64 3832/4096 tcp_thread/2 0 00f77fdc 300/1024 listen/http1 Hwe 003d1a65 00f78284 008140f8 0 00f786c4 7640/8192 Crypto CA Mwe 0035cafa 00f7a63c 0053e5c8 ----- show failover -----No license for Failover ----- show traffic ----outside: received (in 205213.390 secs): 1267 packets 185042 bytes 0 bytes/sec 0 pkts/sec transmitted (in 205213.390 secs): 20 packets 1352 bvtes 0 pkts/sec 0 bytes/sec inside: received (in 205215.800 secs): 0 packets 0 bytes 0 pkts/sec 0 bytes/sec transmitted (in 205215.800 secs): 1 packets 60 bytes 0 pkts/sec 0 bytes/sec intf2. received (in 205215.810 secs): 0 packets 0 bytes 0 pkts/sec 0 bytes/sec transmitted (in 205215.810 secs): 0 packets 0 bytes 0 pkts/sec 0 bytes/sec ----- show perfmon -----PERFMON STATS: Current Average Xlates 0/s 0/s Connections 0/s 0/s

0/s

0/s

0/s

0/s

TCP Conns

UDP Conns

URL Access	0/s	0/s
URL Server Req	0/s	0/s
TCP Fixup	0/s	0/s
TCPIntercept	0/s	0/s
HTTP Fixup	0/s	0/s
FTP Fixup	0/s	0/s
AAA Authen	0/s	0/s
AAA Author	0/s	0/s
AAA Account	0/s	0/s

Related Commands	Command	Description
	show clock	Displays the clock for use with the Syslog Server (PFSS) and the Public Key Infrastructure (PKI) protocol.
	show conn count	Displays the connections used and available.
	show cpu	Display the CPU utilization information.
	show failover	Displays the status of a connection and which security appliance is active
	show memory	Displays a summary of the maximum physical memory and current free memory that is available to the operating system.
	show perfmon	Displays information about the performance of the security appliance
	show processes	Displays a list of the processes that are running.
	show running-config	Displays the configuration that is currently running on the security appliance.
	show xlate	Displays information about the translation slot.

show threat-detection rate

When you enable basic threat detection using the threat-detection basic-threat command, you can view statistics using the show threat-detection rate command in privileged EXEC mode.

show threat-detection rate [min-display-rate min_display_rate] [acl-drop | bad-packet-drop | conn-limit-drop | dos-drop | fw-drop | icmp-drop | inspect-drop | interface-drop | scanning-threat | syn-attack]

Syntax Description	acl-drop	(Optional) Shows the rate for dropped packets caused by denial by access lists.
	min-display-rate <i>min_display_rate</i>	(Optional) Limits the display to statistics that exceed the minimum display rate in events per second. You can set the <i>min_display_rate</i> between 0 and 2147483647.
	bad-packet-drop	(Optional) Shows the rate for dropped packets caused by denial by a bad packet format (such as invalid-ip-header or invalid-tcp-hdr-length).
	conn-limit-drop	(Optional) Shows the rate for dropped packets caused by the connection limits being exceeded (both system-wide resource limits, and limits set in the configuration).
	dos-drop	(Optional) Shows the rate for dropped packets caused by a detected DoS attack (such as an invalid SPI, Stateful Firewall check failure).
	fw-drop	(Optional) Shows the rate for dropped packets caused by basic firewall check failure. This option is a combined rate that includes all firewall-related packet drops in this command. It does not include non-firewall-related drops such as interface-drop , inspect-drop , and scanning-threat .
	icmp-drop	(Optional) Shows the rate for dropped packets caused by denial by suspicious ICMP packets detected.
	inspect-drop	(Optional) Shows the rate limit for dropped packets caused by packets failing application inspection.
	interface-drop	(Optional) Shows the rate limit for dropped packets caused by an interface overload.
	scanning-threat	(Optional) Shows the rate for dropped packets caused by a scanning attack detected. This option monitors scanning attacks; for example, the first TCP packet is not a SYN packet, or the TCP connection failed the 3-way handshake. Full scanning threat detection (see the threat-detection scanning-threat command) takes this scanning attack rate information and acts on it by classifying hosts as attackers and automatically shunning them, for example.
	syn-attack	(Optional) Shows the rate for dropped packets caused by an incomplete session, such as TCP SYN attack or no data UDP session attack.

If you do not specify an event type, all events are shown.

Command Modes The following table shows the modes in which you can enter the command:

		Firewall M	Firewall Mode		Security Context		
					Multiple		
	Command Mode	Routed Transparent		Single	Context	System	
	Privileged EXEC	•	•	•			
Semmond History	Release	Modification					
command History	8.0(2)	This command was	introduced.				
sage Guidelines	The display output show	vs the following:					
	• The average rate in	events/sec over fixed	time periods.				
		te in events/sec over t l or 10 seconds, whicl	-	ed burst inte	rval, which is	1/60th of the	
	• The number of time	s the rates were excee	eded				
	• The total number of The security appliance c	events over the fixed	•				
	• • • •	hecks the rate at the e burst interval present		-		-	
	intervals. The unfinshed example, if the average interval was from 3:00:0 are not included in the c	burst interval present rate interval is 10 min 0 to 3:00:10, and you	tly occurring is r utes, then the bu	not included rst interval	l in the averag is 10 seconds	ge rate. For . If the last but	
	intervals. The unfinshed example, if the average interval was from 3:00:0	burst interval present rate interval is 10 min 0 to 3:00:10, and you output. is rule is if the numbe the oldest burst interva- alculates the total even	tly occurring is r utes, then the bu use the show cou r of events in the al (#1 of 60) whe nts as the last 59	not included rst interval mmand at 3 unfinished n calculatin complete in	l in the averag is 10 seconds :00:15, then the burst interval g the total eventervals, plus	e rate. For If the last but he last 5 secon already excee ents. In that cas the events so f	
xamples	intervals. The unfinshed example, if the average r interval was from 3:00:0 are not included in the o The only exception to th the number of events in t the security appliance ca	burst interval present rate interval is 10 min 0 to 3:00:10, and you output. is rule is if the numbe the oldest burst interva- alculates the total even interval. This exceptio	tly occurring is r utes, then the bu use the show con r of events in the al (#1 of 60) whe nts as the last 59 n lets you monit	not included rst interval mmand at 3 unfinished n calculatin complete in or a large in	l in the averag is 10 seconds :00:15, then the burst interval g the total eventervals, plus nerease in eventervals	e rate. For If the last but he last 5 secon already excee ents. In that cas the events so f	
xamples	intervals. The unfinished example, if the average r interval was from 3:00:0 are not included in the o The only exception to th the number of events in t the security appliance ca in the unfinished burst in	burst interval present rate interval is 10 min 0 to 3:00:10, and you output. is rule is if the numbe the oldest burst intervat alculates the total even interval. This exception	tly occurring is r utes, then the bu use the show con r of events in the al (#1 of 60) whe nts as the last 59 n lets you monit	not included rst interval mmand at 3 unfinished n calculatin complete in or a large in	l in the averag is 10 seconds :00:15, then the burst interval g the total eventervals, plus nerease in eventervals	e rate. For If the last but he last 5 secon already excee ents. In that cas the events so f	
xamples	intervals. The unfinshed example, if the average r interval was from 3:00:0 are not included in the of The only exception to th the number of events in t the security appliance ca in the unfinished burst in The following is sample hostname# show threat	burst interval present rate interval is 10 min 0 to 3:00:10, and you output. is rule is if the numbe the oldest burst intervat alculates the total even interval. This exception output from the show -detection rate Average(eps)	tly occurring is r utes, then the bu use the show cor r of events in the al (#1 of 60) whe nts as the last 59 n lets you monit v threat-detectio Current (eps)	not included rst interval mmand at 3 unfinished n calculatin complete in or a large in on rate con	I in the averag is 10 seconds :00:15, then the burst interval g the total eventervals, plus increase in eventervals in eventer	e rate. For If the last buine last 5 secon already excee ents. In that can the events so f nts in real tim	
<u>camples</u>	<pre>intervals. The unfinished example, if the average r interval was from 3:00:0 are not included in the of The only exception to th the number of events in the the security appliance ca in the unfinished burst in The following is sample hostname# show threat 10-min ACL drop:</pre>	burst interval present rate interval is 10 min 0 to 3:00:10, and you output. is rule is if the numbe the oldest burst intervat alculates the total even interval. This exception output from the show - detection rate Average (eps) 0	tly occurring is r utes, then the bu use the show con r of events in the al (#1 of 60) whe nts as the last 59 n lets you monit v threat-detectio Current (eps)	not included rst interval mmand at 3 unfinished n calculatin complete in or a large in on rate con	I in the averag is 10 seconds :00:15, then the burst interval g the total eventervals, plus increase in eventervals in eventer	e rate. For If the last burne last 5 secon already excee ents. In that cas the events so f nts in real tim	
kamples	 intervals. The unfinished example, if the average minterval was from 3:00:0 are not included in the of The only exception to the the number of events in the the security appliance can in the unfinished burst in the unfinished burst in the following is sample hostname# show threat 10-min ACL drop: 1-hour ACL drop: 	burst interval present rate interval is 10 min 0 to 3:00:10, and you output. is rule is if the numbe the oldest burst intervat alculates the total even interval. This exception output from the show - detection rate Average (eps) 0 0	tly occurring is r utes, then the bu use the show con r of events in the al (#1 of 60) whe nts as the last 59 n lets you monit v threat-detectio Current (eps)	ot included rst interval mmand at 3 unfinished n calculatin complete in or a large in on rate con	I in the averag is 10 seconds :00:15, then the burst interval g the total eventervals, plus increase in eventervals in eventer	events 16 events 16 events 16 12	
kamples	 intervals. The unfinished example, if the average minterval was from 3:00:00 are not included in the of The only exception to the the number of events in the the security appliance can in the unfinished burst in the unfinished burst in the unfinished burst in the security appliance can be hostname# show threat 10-min ACL drop: 1-hour ACL drop: 1-hour SYN attck: 	burst interval present rate interval is 10 min 0 to 3:00:10, and you output. is rule is if the numbe the oldest burst intervat alculates the total even interval. This exception output from the show - detection rate Average (eps) 0 5	tly occurring is r utes, then the bu use the show con- r of events in the al (#1 of 60) whe nts as the last 59 n lets you monit v threat-detection Current (eps)	ot included rst interval mmand at 3 unfinished n calculatin complete in or a large in on rate con	I in the averag is 10 seconds :00:15, then the burst interval g the total eventervals, plus increase in eventervals in eventer	events 16 events 16 events 16 12 21438	
camples	intervals. The unfinshed example, if the average r interval was from 3:00:0 are not included in the of The only exception to th the number of events in the the security appliance ca in the unfinished burst in The following is sample hostname# show threat 10-min ACL drop: 1-hour ACL drop: 1-hour SYN attck: 10-min Scanning:	burst interval present rate interval is 10 min 0 to 3:00:10, and you output. is rule is if the numbe the oldest burst intervat alculates the total even interval. This exception output from the show - detection rate Average (eps) 0 0	tly occurring is r utes, then the bu use the show con r of events in the al (#1 of 60) whe nts as the last 59 n lets you monit v threat-detectio Current (eps)	ot included rst interval mmand at 3 unfinished n calculatin complete in or a large in on rate con Trigger 0 0 2 29	I in the averag is 10 seconds :00:15, then the burst interval g the total eventervals, plus increase in eventervals in eventer	events 16 16 17 16 10 10 10 10 10 10 10 10 10 10	
kamples	<pre>intervals. The unfinished example, if the average r interval was from 3:00:0 are not included in the of The only exception to th the number of events in the the security appliance ca in the unfinished burst in The following is sample hostname# show threat 10-min ACL drop: 1-hour ACL drop: 1-hour SYN attck: 10-min Scanning: 1-hour Scanning:</pre>	burst interval present rate interval is 10 min 0 to 3:00:10, and you output. is rule is if the numbe the oldest burst intervat alculates the total even interval. This exception output from the show - detection rate Average (eps) 0 5 0	tly occurring is r utes, then the bu use the show con- r of events in the al (#1 of 60) whe nts as the last 59 n lets you monit v threat-detection Current (eps)	on rate con Trigger 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	I in the averag is 10 seconds :00:15, then the burst interval g the total eventervals, plus increase in eventervals in eventer	events 16 events 16 events 16 12 21438	
kamples	intervals. The unfinshed example, if the average r interval was from 3:00:0 are not included in the of The only exception to th the number of events in the the security appliance ca in the unfinished burst in The following is sample hostname# show threat 10-min ACL drop: 1-hour ACL drop: 1-hour SYN attck: 10-min Scanning:	burst interval present rate interval is 10 min 0 to 3:00:10, and you output. is rule is if the number the oldest burst intervat alculates the total even interval. This exception output from the show -detection rate Average (eps) 0 0 5 0 106	tly occurring is r utes, then the bu use the show cor r of events in the al (#1 of 60) whe nts as the last 59 n lets you monit v threat-detection Current (eps)	on rate con Trigger 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	I in the averag is 10 seconds :00:15, then the burst interval g the total eventervals, plus increase in eventervals in eventer	events 16 events 16 events 16 112 21438 193 384776	
kamples	<pre>intervals. The unfinished example, if the average r interval was from 3:00:0 are not included in the of The only exception to th the number of events in the the security appliance ca in the unfinished burst in The following is sample hostname# show threat 10-min ACL drop: 1-hour ACL drop: 1-hour SYN attck: 10-min Scanning: 1-hour Scanning: 1-hour Bad pkts:</pre>	burst interval present rate interval is 10 min 0 to 3:00:10, and you output. is rule is if the number the oldest burst intervat alculates the total even interval. This exception output from the show -detection rate Average (eps) 0 0 5 0 106 76	tly occurring is r utes, then the bu use the show cor r of events in the al (#1 of 60) whe nts as the last 59 n lets you monit v threat-detection Current (eps)	on rate con Trigger 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	I in the averag is 10 seconds :00:15, then the burst interval g the total eventervals, plus increase in eventervals in eventer	events 16 events 16 events 16 112 21438 193 384776 274690	
camples	<pre>intervals. The unfinshed example, if the average r interval was from 3:00:0 are not included in the of The only exception to th the number of events in the the security appliance ca in the unfinished burst in The following is sample hostname# show threat 10-min ACL drop: 1-hour ACL drop: 1-hour SYN attck: 10-min Scanning: 1-hour Scanning: 1-hour Bad pkts: 10-min Firewall:</pre>	burst interval present rate interval is 10 min 0 to 3:00:10, and you output. is rule is if the number the oldest burst intervation alculates the total even interval. This exception output from the show -detection rate Average (eps) 0 0 5 0 106 76 0	tly occurring is r utes, then the bu use the show cor r of events in the al (#1 of 60) whe nts as the last 59 n lets you monit v threat-detection Current (eps)	on rate con Trigger 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	I in the averag is 10 seconds :00:15, then the burst interval g the total eventervals, plus increase in eventervals in eventer	events 16 17 17 16 17 16 17 16 17 21438 193 384776 274690 22	
kamples	<pre>intervals. The unfinshed example, if the average r interval was from 3:00:0 are not included in the of The only exception to th the number of events in the the security appliance ca in the unfinished burst in The following is sample hostname# show threat 10-min ACL drop: 1-hour ACL drop: 1-hour SYN attck: 10-min Scanning: 1-hour Syn attck: 10-min Scanning: 1-hour Bad pkts: 10-min Firewall: 1-hour Firewall:</pre>	burst interval present rate interval is 10 min 0 to 3:00:10, and you output. is rule is if the number the oldest burst intervat alculates the total even interval. This exception output from the show -detection rate Average (eps) 0 0 5 0 106 76 0 76	tly occurring is r utes, then the bu use the show cor r of events in the al (#1 of 60) whe nts as the last 59 n lets you monit v threat-detection Current (eps) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	on rate con Trigger 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	I in the averag is 10 seconds :00:15, then the burst interval g the total eventervals, plus increase in eventervals in eventer	events 16 events 16 events 16 12 21438 193 384776 274690 22 274844	
xamples	<pre>intervals. The unfinshed example, if the average r interval was from 3:00:0 are not included in the of The only exception to th the number of events in th the security appliance ca in the unfinished burst in The following is sample hostname# show threat 10-min ACL drop: 1-hour ACL drop: 1-hour ACL drop: 1-hour SYN attck: 10-min Scanning: 1-hour Scanning: 1-hour Bad pkts: 10-min Firewall: 1-hour Firewall: 10-min DoS attck:</pre>	burst interval present rate interval is 10 min 0 to 3:00:10, and you output. is rule is if the number the oldest burst intervat alculates the total even interval. This exception output from the show -detection rate Average (eps) 0 0 5 0 106 76 0 76 0	tly occurring is r utes, then the bu use the show cor r of events in the al (#1 of 60) whe nts as the last 59 n lets you monit v threat-detection Current (eps) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	on rate con Trigger 0 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	I in the averag is 10 seconds :00:15, then the burst interval g the total eventervals, plus increase in eventervals in eventer	events 16 events 16 events 16 12 21438 193 384776 274690 22 274844 6	

Related Commands

Command	Description
clear threat-detection rate	Clears basic threat detection statistics.
show running-config all threat-detection	Shows the threat detection configuration, including the default rate settings if you did not configure them individually.
threat-detection basic-threat	Enables basic threat detection.
threat-detection rate	Sets the threat detection rate limits per event type.
threat-detection scanning-threat	Enables scanning threat detection.

show threat-detection scanning-threat

If you enable scanning threat detection with the **threat-detection scanning-threat** command, then view the hosts that are categorized as attackers and targets using the **show threat-detection scanning-threat** command in privileged EXEC mode.

show threat-detection scanning-threat [attacker | target]

	attacker	(Optional) Shows a	attacking host IP	audicises.				
	target	(Optional) Shows t	targetted host IP	addresses.				
efaults	No default behavior o	r values.						
ommand Modes	The following table sh	nows the modes in whic	ch you can enter	the comma	nd:			
		Firewall N	Node	Security C	ontext			
					Multiple			
	Command Mode	Routed	Transparent	Single	Context	System		
	Privileged EXEC	•	•	•	—	_		
Command History	Release Modification							
ommand History	Release	Modification						
command History	Release 8.0(2)	Modification This command was	s introduced.					
Command History				le "& Subn	et List" in the	heading text		

Related Commands

Command	Description
clear threat-detection shun	Releases hosts from being shunned.
show threat-detection shun	Shows the currently shunned hosts.
show threat-detection statistics protocol	Shows the protocol statistics.
show threat-detection statistics top	Shows the top 10 statistics.
threat-detection scanning-threat	Enables scanning threat detection.

show threat-detection shun

If you enable scanning threat detection with the **threat-detection scanning-threat** command, and you automatically shun attacking hosts, then view the currently shunned hosts using the **show threat-detection shun** command in privileged EXEC mode.

show threat-detection shun

	show threat-detection shu	IN				
Syntax Description	This command has no arguments or keywords.					
Defaults	No default behavior or values.					
Command Modes	The following table shows the	modes in whic	ch you can enter	the comma	ind:	
		Firewall N	Aode	Security C	Context	
					Multiple	
	Command Mode	Routed	Transparent	Single	Context	System
	Privileged EXEC	•	•	•	_	
			l			
Command History	Release Modi	ification				
	8.0(2) This	command wa	s introduced.			
Usage Guidelines Examples	To release a host from being sh The following is sample output hostname# show threat-detec Shunned Host List: 10.1.1.6 198.1.6.7	from the sho				
Related Commands	Command		Description			
	clear threat-detection shun		Releases hosts fr		hunned.	
	show threat-detection statisti		Shows the host st			
	show threat-detection statisti	_	Shows the protoc		s.	
	show threat-detection statisti threat-detection scanning-thr	-	Shows the top 10			
			Enables scanning	a threat dat	ection	

show threat-detection statistics host

After you enable threat statistics with the **threat-detection statistics host** command, view host statistics using the **show threat-detection statistics host** command in privileged EXEC mode. Threat detection statistics show both allowed and dropped traffic rates.

show threat-detection statistics [min-display-rate min_display_rate] host [ip_address [mask]]

Syntax Description	ip_address	(Optional) Shows statistics for a particular host.							
	mask	(Optional) Sets the	subnet mask for	r the host I	P address.				
	min-display-rate								
	min_display_rate								
Defaults	No default behavior or	values.							
Command Modes	The following table sh	nows the modes in whic	h you can enter	the comma	nd:				
		Firewall N	lode	Security (Context				
					Multiple				
	Command Mode	Routed	Transparent	Single	Context	System			
	Privileged EXEC	•	•	•					
Command History	Release	Modification							
	8.0(2)	This command was	s introduced.						
Usage Guidelines	The display output sho	ows the following:							
	• The average rate i	• The average rate in events/sec over fixed time periods.							
	• The current burst rate in events/sec over the last completed burst interval, which is 1/60th of the average rate interval or 10 seconds, whichever is larger								
	 The number of times the rates were exceeded (for dropped traffic statistics only) 								
	 The number of times me faces were exceeded (for dropped traffe statistics only) The total number of events over the fixed time periods. 								
	The security appliance the security appliance intervals. The unfinshe	computes the event couchecks the rate at the e ed burst interval presen e rate interval is 20 min	unts 60 times over end of each burst tly occurring is nutes, then the bu	period, for not include arst interva	r a total of 60 d in the averag l is 20 seconds	completed burst ge rate. For If the last burs			

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are not included in the output.

The only exception to this rule is if the number of events in the unfinished burst interval already exceeds the number of events in the oldest burst interval (#1 of 60) when calculating the total events. In that case, the security appliance calculates the total events as the last 59 complete intervals, plus the events so far in the unfinished burst interval. This exception lets you monitor a large increase in events in real time.

Examples

The following is sample output from the show threat-detection statistics host command:

hostname# show threat-detection statistics host

			Average(eps) Ci	urrent(eps)) Tric	gger	Total	events	
Host:10.0	0.0.1	: tot-ses:28	89235 act-s	ses:22571	fw-drop:0	insp-	-drop:0 n	ull-ses:21	438 bad-acc	:0
1-hour	Sent	byte:		2938	(0	0	10	580308	
8-hour	Sent	byte:		367	(0	0	10	580308	
24-hour	Sent	byte:		122	(0	0	10	580308	
1-hour	Sent	pkts:		28	(0	0		104043	
8-hour	Sent	pkts:		3	(0	0		104043	
24-hour	Sent	pkts:		1	(0	0		104043	
20-min	Sent	drop:		9	(0	1		10851	
1-hour	Sent	drop:		3	(0	1		10851	
1-hour	Recv	byte:	2	2697	(0	0	9	712670	
8-hour	Recv	byte:		337	(0	0	9	712670	
24-hour	Recv	byte:		112	(0	0	9	712670	
1-hour	Recv	pkts:		29	(0	0		104846	
8-hour	Recv	pkts:		3	(0	0		104846	
24-hour	Recv	pkts:		1	(0	0		104846	
20-min	Recv	drop:		42	(0	3		50567	
1-hour	Recv	drop:		14	(0	1		50567	
Host:10.0	0.0.0:	: tot-ses:1	act-ses:0	fw-drop:) insp-drop	p:0 ni	ull-ses:0	bad-acc:0		
1-hour	Sent	byte:		0	(0	0		614	
8-hour	Sent	byte:		0	(0	0		614	
24-hour	Sent	byte:		0	(0	0		614	
1-hour	Sent	pkts:		0	(0	0		6	
8-hour	Sent	pkts:		0	(0	0		6	
24-hour	Sent	pkts:		0	(0	0		6	
20-min	Sent	drop:		0	(0	0		4	
1-hour	Sent	drop:		0	(0	0		4	
1-hour	Recv	byte:		0	(0	0		706	
8-hour		-		0	(0	0		706	
24-hour	Recv	byte:		0	(0	0		706	
1-hour	Recv	pkts:		0	(0	0		7	

Table 30-6 shows each field description.

Table 30-6 show threat-detection statistics host Fields

Field	Description
Host	Shows the host IP address.
tot-ses	Shows the total number of sessions for this host since it was added to the database.
act-ses	Shows the total number of active sessions that the host is currently involved in.

Field	Description
fw-drop	Shows the number of firewall drops. Firewall drops is a combined rate that includes all firewall-related packet drops tracked in basic threat detection, including access list denials, bad packets, exceeded connection limits, DoS attack packets, suspicious ICMP packets, TCP SYN attack packets, and no data UDP attack packets. It does not include non-firewall-related drops such as interface overload, packets failed at application inspection, and scanning attack detected.
insp-drop	Shows the number of packets dropped because they failed application inspection.
null-ses	Shows the number of null sessions, which are TCP SYN sessions that did not complete within the 30-second timeout, and UDP sessions that did not have any data sent by its server 3 seconds after the session starts.
bad-acc	Shows the number of bad access attempts to host ports that are in a closed state. When a port is determined to be in a null session (see above), the port state of the host is set to HOST_PORT_CLOSE. Any client accessing the port of the host is immediately classified as a bad access without the need to wait for a timeout.
Average(eps)	Shows the average rate in events/sec over each time period.
	The security appliance stores the count at the end of each burst period, for a total of 60 completed burst intervals. The unfinshed burst interval presently occurring is not included in the average rate. For example, if the average rate interval is 20 minutes, then the burst interval is 20 seconds. If the last burst interval was from 3:00:00 to 3:00:20, and you use the show command at 3:00:25, then the last 5 seconds are not included in the output.
	The only exception to this rule is if the number of events in the unfinished burst interval already exceeds the number of events in the oldest burst interval (#1 of 60) when calculating the total events. In that case, the security appliance calculates the total events as the last 59 complete intervals, plus the events so far in the unfinished burst interval. This exception lets you monitor a large increase in events in real time.
Current(eps)	Shows the current burst rate in events/sec over the last completed burst interval, which is 1/60th of the average rate interval or 10 seconds, whichever is larger. For the example specified in the Average(eps) description, the current rate is the rate from 3:19:30 to 3:20:00
Trigger	Shows the number of times the dropped packet rate limits were exceeded. For valid traffic identified in the sent and received bytes and packets rows, this value is always 0, because there are no rate limits to trigger for valid traffic.
Total events	Shows the total number of events over each rate interval. The unfinshed burst interval presently occurring is not included in the total events. The only exception to this rule is if the number of events in the unfinished burst interval already exceeds the number of events in the oldest burst interval (#1 of 60) when calculating the total events. In that case, the security appliance calculates the total events as the last 59 complete intervals, plus the events so far in the unfinished burst interval. This exception lets you monitor a large increase in events in real time.

Table 30-6 show threat-detection statistics host Fields (continued
--

Field	Description
20-min, 1-hour, 8-hour, and 24-hour	Shows statistics for these fixed rate intervals.
Sent byte	Shows the number of successful bytes sent from the host.
Sent pkts	Shows the number of successful packets sent from the host.
Sent drop	Shows the number of packets sent from the host that were dropped because they were part of a scanning attack.
Recv byte	Shows the number of successful bytes received by the host.
Recv pkts	Shows the number of successful packets received by the host.
Recv drop	Shows the number of packets received by the host that were dropped because they were part of a scanning attack.

Table 30-6 show threat-detection statistics host Fields (continued)

Related Commands

Command	Description
threat-detection scanning-threat	Enables scanning threat detection.
show threat-detection statistics top	Shows the top 10 statistics.
show threat-detection statistics port	Shows the port statistics.
show threat-detection statistics protocol	Shows the protocol statistics.
threat-detection statistics	Enables threat statistics.

show threat-detection statistics port

After you enable threat statistics with the **threat-detection statistics port** command, view TCP and UDP port statistics using the **show threat-detection statistics port** command in privileged EXEC mode. Threat detection statistics show both allowed and dropped traffic rates.

show threat-detection statistics [min-display-rate min_display_rate] port

[start_port[-end_port]]

Syntax Description	start_port[-end_port]	(Optional) Shows statistics for a particular port or range of ports, between 0 and 65535.					
	min-display-rate	min-display-rate (Optional) Limits the display to statistics that exceed the minimum display					
	min_display_rate	rate in events per s					
		2147483647.					
Defaults	No default behavior or v	values.					
	_						
Command Modes	The following table sho	ws the modes in whic	h you can enter	the comma	ind:		
		Firewall N	lode	Security C	Context		
					Multiple	Multiple	
	Command Mode	Routed	Transparent	Single	Context	System	
	Privileged EXEC	•	•	•			
Command History	Release	Modification					
	8.0(2)	This command was	s introduced.				
Usage Guidelines	The display output show	vs the following:					
	• The average rate in events/sec over fixed time periods.						
	• The current burst rate in events/sec over the last completed burst interval, which is 1/60th of the average rate interval or 10 seconds, whichever is larger						
	• The number of times the rates were exceeded (for dropped traffic statistics only)						
	• The total number of events over the fixed time periods.						
	The security appliance computes the event counts 60 times over the average rate interval; in other words, the security appliance checks the rate at the end of each burst period, for a total of 60 completed burst intervals. The unfinished burst interval presently occurring is not included in the average rate. For example, if the average rate interval is 20 minutes, then the burst interval is 20 seconds. If the last burst interval was from 3:00:00 to 3:00:20, and you use the show command at 3:00:25, then the last 5 seconds						
	the security appliance cl intervals. The unfinishe example, if the average	hecks the rate at the e d burst interval prese rate interval is 20 min 00 to 3:00:20, and you	end of each burst ntly occurring is nutes, then the bu	period, for not include arst interval	r a total of 60 o ed in the avera l is 20 seconds	1	

The only exception to this rule is if the number of events in the unfinished burst interval already exceeds the number of events in the oldest burst interval (#1 of 60) when calculating the total events. In that case, the security appliance calculates the total events as the last 59 complete intervals, plus the events so far in the unfinished burst interval. This exception lets you monitor a large increase in events in real time.

Examples

The following is sample output from the show threat-detection statistics port command:

hostname# show threat-detection statistics port

			Average(eps)	Current(eps)	Trigger	Total events
80/HTTP:	tot-s	ses:310971	act-ses:22571			
1-hour	Sent	byte:	2939	0	0	10580922
8-hour	Sent	byte:	367	22043	0	10580922
24-hour	Sent	byte:	122	7347	0	10580922
1-hour	Sent	pkts:	28	0	0	104049
8-hour	Sent	pkts:	3	216	0	104049
24-hour	Sent	pkts:	1	72	0	104049
20-min	Sent	drop:	9	0	2	10855
1-hour	Sent	drop:	3	0	2	10855
1-hour	Recv	byte:	2698	0	0	9713376
8-hour	Recv	byte:	337	20236	0	9713376
24-hour	Recv	byte:	112	6745	0	9713376
1-hour	Recv	pkts:	29	0	0	104853
8-hour	Recv	pkts:	3	218	0	104853
24-hour	Recv	pkts:	1	72	0	104853
20-min	Recv	drop:	24	0	2	29134
1-hour	Recv	drop:	8	0	2	29134

Table 30-6 shows each field description.

Table 30-7	show threat-detection	statistics port Fields

Field	Description
Average(eps)	Shows the average rate in events/sec over each time period.
	The security appliance stores the count at the end of each burst period, for a total of 60 completed burst intervals. The unfinished burst interval presently occurring is not included in the average rate. For example, if the average rate interval is 20 minutes, then the burst interval is 20 seconds. If the last burst interval was from 3:00:00 to 3:00:20, and you use the show command at 3:00:25, then the last 5 seconds are not included in the output.
	The only exception to this rule is if the number of events in the unfinished burst interval already exceeds the number of events in the oldest burst interval (#1 of 60) when calculating the total events. In that case, the security appliance calculates the total events as the last 59 complete intervals, plus the events so far in the unfinished burst interval. This exception lets you monitor a large increase in events in real time.
Current(eps)	Shows the current burst rate in events/sec over the last completed burst interval, which is 1/60th of the average rate interval or 10 seconds, whichever is larger. For the example specified in the Average(eps) description, the current rate is the rate from 3:19:30 to 3:20:00

Field	Description
Trigger	Shows the number of times the dropped packet rate limits were exceeded. For valid traffic identified in the sent and received bytes and packets rows, this value is always 0, because there are no rate limits to trigger for valid traffic.
Total events	Shows the total number of events over each rate interval. The unfinished burst interval presently occurring is not included in the total events. The only exception to this rule is if the number of events in the unfinished burst interval already exceeds the number of events in the oldest burst interval (#1 of 60) when calculating the total events. In that case, the security appliance calculates the total events as the last 59 complete intervals, plus the events so far in the unfinished burst interval. This exception lets you monitor a large increase in events in real time.
port_number/port_name	Shows the port number and name where the packet or byte was sent, received, or droppped.
tot-ses	Shows the total number of sessions for this port.
act-ses	Shows the total number of active sessions that the port is currently involved in.
20-min, 1-hour, 8-hour, and 24-hour	Shows statistics for these fixed rate intervals.
Sent byte	Shows the number of successful bytes sent from the port.
Sent pkts	Shows the number of successful packets sent from the port.
Sent drop	Shows the number of packets sent from the port that were dropped because they were part of a scanning attack.
Recv byte	Shows the number of successful bytes received by the port.
Recv pkts	Shows the number of successful packets received by the port.
Recv drop	Shows the number of packets received by the port that were dropped because they were part of a scanning attack.

Table 30-7	show threat-detection statistics port Fields (continued)
Table 30-7	snow threat-detection statistics port rields (continued)

Related Commands

Command	Description
threat-detection scanning-threat	Enables scanning threat detection.
show threat-detection statistics top	Shows the top 10 statistics.
show threat-detection statistics host	Shows the host statistics.
show threat-detection statistics protocol	Shows the protocol statistics.
threat-detection statistics	Enables threat statistics.

show threat-detection statistics protocol

After you enable threat statistics with the **threat-detection statistics protocol** command, view IP protocol statistics using the **show threat-detection statistics protocol** command in privileged EXEC mode. Threat detection statistics show both allowed and dropped traffic rates.

show threat-detection statistics [min-display-rate min_display_rate] protocol [protocol_number | protocol_name]

Syntax Description	protocol_number	(Optional) Shows statistics for a specific protocol number, between 0 and 255.
	min-display-rate <i>min_display_rate</i>	(Optional) Limits the display to statistics that exceed the minimum display rate in events per second. You can set the <i>min_display_rate</i> between 0 and 2147483647.
	protocol_name	(Optional) Shows statistics for a specific protocol name:
		• ah
		• eigrp
		• esp
		• gre
		• icmp
		• igmp
		• igrp
		• ip
		• ipinip
		• ipsec
		• nos
		• ospf
		• рср
		• pim
		• pptp
		• snp
		• tcp
		• udp

Defaults

No default behavior or values.

		Firewall N	Node	Security C	ontext				
					Multiple				
	Command Mode	Routed	Transparent	Single	Context	System			
	Privileged EXEC	•	•	•	_				
ommand History	Release	Release Modification							
,	8.0(2)	This command wa	s introduced.						
sage Guidelines	The display output sl	hows the following:							
-		in events/sec over fixed	l time periods.						
	• The current burs	at rate in events/sec over erval or 10 seconds, which	the last complete	ed burst int	erval, which is	1/60th of the			
	• The number of the								
	• The total numbe	 The number of events over the fixed time periods. 							
	the security applianc intervals. The unfinis example, if the avera interval was from 3:0	ce computes the event co re checks the rate at the shed burst interval prese age rate interval is 20 min 00:00 to 3:00:20, and you ne output.	end of each burst ontly occurring is nutes, then the bu	period, for not include trst interval	a total of 60 c ed in the avera is 20 seconds.	completed bu ge rate. For . If the last bu			
	are not included in th	The only exception to this rule is if the number of events in the unfinished burst interval already exceet the number of events in the oldest burst interval (#1 of 60) when calculating the total events. In that ca the security appliance calculates the total events as the last 59 complete intervals, plus the events so is in the unfinished burst interval. This exception lets you monitor a large increase in events in real time.							
	The only exception to the number of events the security applianc	in the oldest burst interve e calculates the total eve	val (#1 of 60) whe ents as the last 59	en calculatio complete i	ng the total events intervals, plus	nts. In that cathe events so			
xamples	The only exception to the number of events the security applianc in the unfinished bur	in the oldest burst interve e calculates the total eve	val (#1 of 60) whe ents as the last 59 on lets you monit	en calculatin) complete i tor a large i	ng the total eve ntervals, plus ncrease in eve	nts. In that ca the events so nts in real tin			
camples	The only exception to the number of events the security applianc in the unfinished bur The following is sam	in the oldest burst interv e calculates the total eve st interval. This exception	val (#1 of 60) whe ents as the last 59 on lets you moni w threat-detecti	en calculatin) complete i tor a large i	ng the total eve ntervals, plus ncrease in eve	nts. In that ca the events so nts in real tin			
camples	The only exception to the number of events the security applianc in the unfinished bur The following is sam	in the oldest burst interv e calculates the total eve st interval. This exception uple output from the sho	val (#1 of 60) whe ents as the last 59 on lets you moni w threat-detecti	en calculatin complete i tor a large i	ng the total eve intervals, plus ncrease in eve cs protocol co	nts. In that ca the events so nts in real tin			
amples	The only exception to the number of events the security applianc in the unfinished bur The following is sam hostname# show thr ICMP: tot-ses:0 ac	in the oldest burst interve e calculates the total eve st interval. This exception apple output from the sho eat-detection statist Average(eps) t-ses:0	val (#1 of 60) whe ents as the last 59 on lets you monit w threat-detection ics protocol Current (eps)	en calculatin complete i tor a large i con statistic	ng the total eve intervals, plus ncrease in eve cs protocol co	nts. In that ca the events so nts in real tin mmand:			
amples	The only exception to the number of events the security applianc in the unfinished bur The following is sam hostname# show thr ICMP: tot-ses:0 ac 1-hour Sent byte	in the oldest burst interve e calculates the total even st interval. This exception apple output from the sho eet-detection statist Average(eps) t-ses:0 :: 0	val (#1 of 60) whe ents as the last 59 on lets you moni w threat-detecti ics protocol Current (eps)	en calculatin complete i tor a large i con statistic Trigger	ng the total eve intervals, plus ncrease in eve cs protocol co	nts. In that ca the events so nts in real tim mmand: events 1000			
amples	The only exception to the number of events the security applianc in the unfinished bur The following is sam hostname# show thr ICMP: tot-ses:0 ac	in the oldest burst interve e calculates the total even st interval. This exception pple output from the sho eet-detection statist Average(eps) t-ses:0 :: 0	val (#1 of 60) whe ents as the last 59 on lets you moni w threat-detecti ics protocol Current (eps)	en calculatin complete i tor a large i con statistic	ng the total eve intervals, plus ncrease in eve cs protocol co	nts. In that ca the events so nts in real tin mmand:			
amples	The only exception to the number of events the security applianc in the unfinished bur The following is sam hostname# show thr ICMP: tot-ses:0 ac 1-hour Sent byte 8-hour Sent byte	in the oldest burst interve e calculates the total even st interval. This exception pple output from the sho eeat-detection statist Average(eps) t-ses:0 :: 0 : 0	val (#1 of 60) whe ents as the last 59 on lets you moni w threat-detecti ics protocol Current (eps	en calculatin complete i tor a large i ion statistic Trigger D 0 0 2 0	ng the total eve intervals, plus ncrease in eve cs protocol co	nts. In that ca the events so nts in real tim mmand: events 1000 1000			
camples	The only exception to the number of events the security applianc in the unfinished bur The following is sam hostname# show thr ICMP: tot-ses:0 ac 1-hour Sent byte 8-hour Sent byte 24-hour Sent byte	in the oldest burst interve e calculates the total even st interval. This exception pple output from the sho eat-detection statist Average(eps) t-ses:0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0	val (#1 of 60) whe ents as the last 59 on lets you moni w threat-detecti ics protocol Current (eps)	en calculatin complete i tor a large i ion statistic Trigger 0 0 2 0 0 0	ng the total eve intervals, plus ncrease in eve cs protocol co	nts. In that ca the events so nts in real tim mmand: events 1000 1000 1000			

Table 30-6 shows each field description.

Table 30-8	show threat-detection statistics protocol Fields
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ows the average rate in events/sec over each time period. e security appliance stores the count at the end of each burst period, for otal of 60 completed burst intervals. The unfinished burst interval esently occurring is not included in the average rate. For example, if the erage rate interval is 20 minutes, then the burst interval is 20 seconds. If e last burst interval was from 3:00:00 to 3:00:20, and you use the show mmand at 3:00:25, then the last 5 seconds are not included in the output. e only exception to this rule is if the number of events in the unfinished
otal of 60 completed burst intervals. The unfinished burst interval esently occurring is not included in the average rate. For example, if the erage rate interval is 20 minutes, then the burst interval is 20 seconds. If a last burst interval was from 3:00:00 to 3:00:20, and you use the show mmand at 3:00:25, then the last 5 seconds are not included in the output.
e only exception to this rule is if the number of events in the unfinished
rst interval already exceeds the number of events in the oldest burst erval (#1 of 60) when calculating the total events. In that case, the curity appliance calculates the total events as the last 59 complete ervals, plus the events so far in the unfinished burst interval. This ception lets you monitor a large increase in events in real time.
ows the current burst rate in events/sec over the last completed burst erval, which is 1/60th of the average rate interval or 10 seconds, ichever is larger. For the example specified in the Average(eps) scription, the current rate is the rate from 3:19:30 to 3:20:00
ows the number of times the dropped packet rate limits were exceeded. r valid traffic identified in the sent and received bytes and packets rows, s value is always 0, because there are no rate limits to trigger for valid ffic.
ows the total number of events over each rate interval. The unfinished rst interval presently occurring is not included in the total events. The ly exception to this rule is if the number of events in the unfinished burst erval already exceeds the number of events in the oldest burst interval (#1 60) when calculating the total events. In that case, the security appliance culates the total events as the last 59 complete intervals, plus the events far in the unfinished burst interval. This exception lets you monitor a ge increase in events in real time.
ows the protocol number and name where the packet or byte was sent, evived, or droppped.
ows the total number of sessions for this protocol.
ows the total number of active sessions that the protocol is currently volved in.
ows statistics for these fixed rate intervals.
ows the number of successful bytes sent from the protocol.
ows the number of successful packets sent from the protocol.
ows the number of packets sent from the protocol that were dropped cause they were part of a scanning attack.
ows the number of successful bytes received by the protocol.

Field	Description		
Recv pkts	Shows the number of successful packets received by the protocol.		
Recv drop	Shows the number of packets received by the protocol that were dropped because they were part of a scanning attack.		

Table 30-8 show threat-detection statistics protocol Fields (continued)

Related Commands

Command	Description		
threat-detection scanning-threat	Enables scanning threat detection.		
show threat-detection statistics top	Shows the top 10 statistics.		
show threat-detection statistics port	Shows the port statistics.		
show threat-detection statistics host	Shows the host statistics.		
threat-detection statistics	Enables threat statistics.		

show threat-detection statistics top

After you enable threat statistics with the **threat-detection statistics** command, view the top 10 statistics using the **show threat-detection statistics top** command in privileged EXEC mode. If you did not enable the threat detection statistics for a particular type, then you cannot view those statistics with this command. Threat detection statistics show both allowed and dropped traffic rates.

show threat-detection statistics [min-display-rate min_display_rate] top [[access-list | host | port-protocol] [rate-1 | rate-2 | rate-3] | tcp-intercept [all] [detail]]

Syntax Description	access-list	(Optional) Shows the top 10 ACEs that that match packets, including both permit and deny ACEs. Permitted and denied traffic are not differentiated in this display. If you enable basic threat detection using the threat-detection basic-threat command, you can track access list denies using the show threat-detection rate access-list command.				
	all	(Optional) For TCP Intercept, shows the history data of all the traced server				
	detail	(Optional) For TCP Intercept, shows history sampling data.				
	host	(Optional) Shows the top 10 host statistics for each fixed time period.				
		Note Due to the threat detection algorithm, an interface used for a failover link or state link could appear as one of the top 10 hosts. This occurrence is more likely when you use one interface for both the failover and state link. This is expected behavior, and you can ignore this IP address in the display.				
	min-display-rate <i>min_display_rate</i>	(Optional) Limits the display to statistics that exceed the minimum display rate in events per second. You can set the <i>min_display_rate</i> between 0 and 2147483647.				
	port-protocol	(Optional) Shows the top 10 combined statistics of TCP/UDP port and IP protocol types. TCP (protocol 6) and UDP (protocol 17) are not included in the display for IP protocols; TCP and UDP ports are, however, included in the display for ports. If you only enable statistics for one of these types, port or protocol, then you will only view the enabled statistics.				
	rate-1	(Optional) Shows the statistics for the smallest fixed rate intervals available in the display. For example, if the display shows statistics for the last 1 hour, 8 hours, and 24 hours, then when you use the rate-1 keyword, the security appliance shows only the 1 hour time interval.				
	rate-2	(Optional) Shows the statistics for the middle fixed rate intervals available in the display. For example, if the display shows statistics for the last 1 hour, 8 hours, and 24 hours, then when you use the rate-2 keyword, the security appliance shows only the 8 hour time interval.				
	rate-3	(Optional) Shows the statistics for the largest fixed rate intervals available in the display. For example, if the display shows statistics for the last 1 hour, 8 hours, and 24 hours, then when you use the rate-3 keyword, the security appliance shows only the 24 hour time interval.				
	tcp-intercept	Shows TCP Intercept statistics. The display includes the top 10 protected servers under attack.				

Defaults If you do not specify an event type, all events are shown.

Command Modes The following table shows the modes in which you can enter the command:

	Firewall Mode		Security Context		
	Routed	Transparent	Single	Multiple	
Command Mode				Context	System
Privileged EXEC	•	•	•	_	_

Command History	Release	Modification
	8.0(2)	This command was introduced.
	8.0(4)	The tcp-intercept keyword was added.

Usage Guidelines

The display output shows the following:

- The average rate in events/sec over fixed time periods.
- The current burst rate in events/sec over the last completed burst interval, which is 1/60th of the ٠ average rate interval or 10 seconds, whichever is larger
- The number of times the rates were exceeded (for dropped traffic statistics only) ٠
- The total number of events over the fixed time periods.

The security appliance computes the event counts 60 times over the average rate interval; in other words, the security appliance checks the rate at the end of each burst period, for a total of 60 completed burst intervals. The unfinished burst interval presently occurring is not included in the average rate. For example, if the average rate interval is 20 minutes, then the burst interval is 20 seconds. If the last burst interval was from 3:00:00 to 3:00:20, and you use the **show** command at 3:00:25, then the last 5 seconds are not included in the output.

The only exception to this rule is if the number of events in the unfinished burst interval already exceeds the number of events in the oldest burst interval (#1 of 60) when calculating the total events. In that case, the security appliance calculates the total events as the last 59 complete intervals, plus the events so far in the unfinished burst interval. This exception lets you monitor a large increase in events in real time.

Examples

The following is sample output from the **show threat-detection statistics top access-list** command:

hostname# show threat-detection statistics top access-list

Тор	Average(eps)	Current(eps) T	rigger	Total events
1-hour ACL hits:				
100/3[0]	173	0	0	623488
200/2[1]	43	0	0	156786
100/1[2]	43	0	0	156786
8-hour ACL hits:				
100/3[0]	21	1298	0	623488
200/2[1]	5	326	0	156786
100/1[2]	5	326	0	156786

Table 30-6 shows each field description.

Table 30-9	show threat-detection statistics top access-list Fields
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Field	Description				
Тор	Shows the ranking of the ACE within the time period, from [0] (highest count) to [9] (lowest count). You might not have enough statistics for all 10 positions, so less then 10 ACEs might be listed.				
Average(eps)	Shows the average rate in events/sec over each time period.				
	The security appliance stores the count at the end of each burst period, for a total of 60 completed burst intervals. The unfinished burst interval presently occurring is not included in the average rate. For example, if the average rate interval is 20 minutes, then the burst interval is 20 seconds. If the last burst interval was from 3:00:00 to 3:00:20, and you use the show command at 3:00:25, then the last 5 seconds are not included in the output.				
	The only exception to this rule is if the number of events in the unfinished burst interval already exceeds the number of events in the oldest burst interval (#1 of 60) when calculating the total events. In that case, the security appliance calculates the total events as the last 59 complete intervals, plus the events so far in the unfinished burst interval. This exception lets you monitor a large increase in events in real time.				
Current(eps)	Shows the current burst rate in events/sec over the last completed burst interval, which is 1/60th of the average rate interval or 10 seconds, whichever is larger. For the example specified in the Average(eps) description, the current rate is the rate from 3:19:30 to 3:20:00.				
Trigger	This column is always 0, because there are no rate limits triggered by access list traffic; denied and permitted traffic are not differentiated in this display. If you enable basic threat detection using the threat-detection basic-threat command, you can track access list denies using the show threat-detection rate access-list command.				
Total events	Shows the total number of events over each rate interval. The unfinished burst interval presently occurring is not included in the total events. The only exception to this rule is if the number of events in the unfinished burst interval already exceeds the number of events in the oldest burst interval (#1 of 60) when calculating the total events. In that case, the security appliance calculates the total events as the last 59 complete intervals, plus the events so far in the unfinished burst interval. This exception lets you monitor a large increase in events in real time.				
1-hour, 8-hour	Shows statistics for these fixed rate intervals.				
acl_name/line_nu mber	Shows the access list name and line number of the ACE that caused the denies.				

The following is sample output from the **show threat-detection statistics top access-list rate-1** command:

hostname# show threat-detection statistics top access-list rate-1

Average(eps)	Current(eps) Tri	gger	Total events
173	0	0	623488
43	0	0	156786
	173	173 0	173 0 0

100/1[2]	43	0	0	156786
----------	----	---	---	--------

The following is sample output from the **show threat-detection statistics top port-protocol** command: hostname# **show threat-detection statistics top port-protocol**

Тор	Name Id	Average(eps)	Current(eps)	Trigger	Total events
1-hou	ır Recv byte:				
1	gopher 70	71	0	0	32345678
2 btp	o-clnt/dhcp 68	68	0	0	27345678
3	gopher 69	65	0	0	24345678
4 F	rotocol-96 * 96	63	0	0	22345678
5	Port-7314 7314	62	0	0	12845678
6 BitT	Corrent/trc 6969	61	0	0	12645678
7	Port-8191-65535	55	0	0	12345678
8	SMTP 366	34	0	0	3345678
9	IPinIP * 4	30	0	0	2345678
10	EIGRP * 88	23	0	0	1345678
1-hou	ır Recv pkts:				
•••					
8-hou	ır Recv byte:				
• • •					
8-hou	ır Recv pkts:				
24-hou	ır Recv byte:				
•••					
24-hou	ır Recv pkts:				
•••					

Note: Id preceded by \star denotes the Id is an IP protocol type

Table 30-10 shows each field description.

 Table 30-10
 show threat-detection statistics top port-protocol Fields

Field	Description
Тор	Shows the ranking of the port or protocol within the time period/type of statistic, from [0] (highest count) to [9] (lowest count). You might not have enough statistics for all 10 positions, so less then 10 ports/protocols might be listed.
Name	Shows the port/protocol name.
Id	Shows the port/protocol ID number. The asterisk (*) means the ID is an IP protocol number.
Average(eps)	See the description in Table 30-6.
Current(eps)	See the description in Table 30-6.
Trigger	Shows the number of times the dropped packet rate limits were exceeded. For valid traffic identified in the sent and received bytes and packets rows, this value is always 0, because there are no rate limits to trigger for valid traffic.
Total events	See the description in Table 30-6.
<i>Time_interval</i> Sent byte	Shows the number of successful bytes sent from the listed ports and protocols for each time period.

Field	Description
<i>Time_interval</i> Sent packet	Shows the number of successful packets sent from the listed ports and protocols for each time period.
<i>Time_interval</i> Sent drop	Shows the number of packets sent for each time period from the listed ports and protocols that were dropped because they were part of a scanning attack.
<i>Time_interval</i> Recv byte	Shows the number of successful bytes received by the listed ports and protocols for each time period.
<i>Time_interval</i> Recv packet	Shows the number of successful packets received by the listed ports and protocols for each time period.
<i>Time_interval</i> Recv drop	Shows the number of packets received for each time period by the listed ports and protocols that were dropped because they were part of a scanning attack.
port_number/port _name	Shows the port number and name where the packet or byte was sent, received, or droppped.
protocol_number/ protocol_name	Shows the protocol number and name where the packet or byte was sent, received, or droppped.

The following is sample output from the **show threat-detection statistics top host** command: hostname# **show threat-detection statistics top host**

	Тор	Average(eps)	Current(eps)	Trigger	Total events
1-hour S	Sent byte:				
	10.0.0.1[0]	2938	0	0	10580308
1-hour S	Sent pkts:				
	10.0.0.1[0]	28	0	0	104043
20-min §	Sent drop:				
	10.0.0.1[0]	9	0	1	10851
1-hour F	Recv byte:				
	10.0.0.1[0]	2697	0	0	9712670
1-hour F	Recv pkts:				
	10.0.0.1[0]	29	0	0	104846
20-min F	Recv drop:				
	10.0.0.1[0]	42	0	3	50567
8-hour S	Sent byte:				
	10.0.0.1[0]	367	0	0	10580308
8-hour S	Sent pkts:				
	10.0.0[0]	3	0	0	104043
1-hour S	Sent drop:				
	10.0.0[0]	3	0	1	10851
8-hour F	Recv byte:				
	10.0.0.1[0]	337	0	0	9712670
8-hour F	Recv pkts:				
	10.0.0[0]	3	0	0	104846
1-hour F	Recv drop:				
	10.0.0[0]	14	0	1	50567
24-hour S	Sent byte:				
	10.0.0[0]	122	0	0	10580308
24-hour S	Sent pkts:				
	10.0.0[0]	1	0	0	104043
24-hour F	Recv byte:				
	10.0.0[0]	112	0	0	9712670
24-hour F	Recv pkts:				
	10.0.0.1[0]	1	0	0	104846

Table 30-11 shows each field description.

Field	Description
Тор	Shows the ranking of the host within the time period/type of statistic, from [0] (highest count) to [9] (lowest count). You might not have enough statistics for all 10 positions, so less then 10 hosts might be listed.
Average(eps)	See the description in Table 30-6.
Current(eps)	See the description in Table 30-6.
Trigger	See the description in Table 30-6.
Total events	See the description in Table 30-6.
<i>Time_interval</i> Sent byte	Shows the number of successful bytes sent to the listed hosts for each time period.
<i>Time_interval</i> Sent packet	Shows the number of successful packets sent to the listed hosts for each time period.
<i>Time_interval</i> Sent drop	Shows the number of packets sent for each time period to the listed hosts that were dropped because they were part of a scanning attack.
<i>Time_interval</i> Recv byte	Shows the number of successful bytes received by the listed hosts for each time period.
<i>Time_interval</i> Recv packet	Shows the number of successful packets received by the listed ports and protocols for each time period.
<i>Time_interval</i> Recv drop	Shows the number of packets received for each time period by the listed ports and protocols that were dropped because they were part of a scanning attack.
host_ip_address	Shows the host IP address where the packet or byte was sent, received, or droppped.

Table 30-11show threat-detection statistics top host Fields

The following is sample output from the show threat-detection statistics top tcp-intercept command:

hostname# show threat-detection statistics top tcp-intercept

Top 10 Protected Servers under Attack (sorted by average rate) Monitoring Window Size: 30 mins Sampling Interval: 30 secs <Rank> <Server IP:Port> <Interface> <Ave Rate> <Cur Rate> <Total> <Source IP (Last Attack Time)> _ _ _ _____ 1 192.168.1.2:5000 inside 1249 9503 2249245 <various> Last: 10.0.0.3 (0 secs ago) 2 192.168.1.3:5000 inside 10 10 6080 10.0.0.200 (0 secs ago) 3 192.168.1.4:5000 inside 2 6 560 10.0.0.200 (59 secs ago) 192.168.1.5:5000 inside 1 5 560 10.0.0.200 (59 secs ago) 4 192.168.1.6:5000 inside 1 4 560 10.0.0.200 (59 secs ago) 5 6 192.168.1.7:5000 inside 0 3 560 10.0.0.200 (59 secs ago) 7 192.168.1.8:5000 inside 0 2 560 10.0.0.200 (59 secs ago) 192.168.1.9:5000 inside 0 1 560 10.0.0.200 (59 secs ago) 8 9 192.168.1.10:5000 inside 0 0 550 10.0.0.200 (2 mins ago) 10 192.168.1.11:5000 inside 0 0 550 10.0.0.200 (5 mins ago)

Table 30-12 shows each field description.

Field	Description
Monitoring window size:	Shows the period of time over which the security appliance samples data for statistics. The default is 30 minutes. You can change this setting using the threat-detection statistics tcp-intercept rate-interval command. The security appliance samples data 60 times during this interval.
Sampling interval:	Shows the interval between samples. This value is always the rate interval divided by 60.
rank	Shows the ranking, 1 through 10, where 1 is the most attacked server, and 10 is the least attacked server.
server_ip:port	Shows the server IP address and the port on which it is being attacked.
interface	Shows the inerface through which the server is being attacked.
avg_rate	Shows the average rate of attack, in attacks per second over the sampling period
current_rate	Shows the current attack rate, in attacks per second.
total	Shows the total number of attacks.
attacker_ip	Shows the attacker IP address.
(last_attack_time ago)	Shows when the last attack occurred.

The following is sample output from the **show threat-detection statistics top tcp-intercept detail** command:

hostname# show threat-detection statistics top tcp-intercept detail

Top 10 Protected Servers under Attack (sorted by average rate) Monitoring Window Size: 30 mins Sampling Interval: 30 secs <Rank> <Server IP:Port> <Interface> <Ave Rate> <Cur Rate> <Total> <Source IP (Last Attack Time)> _____ 192.168.1.2:5000 inside 1877 9502 3379276 <various> Last: 10.0.0.45 (0 secs ago) Sampling History (60 Samplings):

.

Table 30-13 shows each field description.

Field	Description
Monitoring window size:	Shows the period of time over which the security appliance samples data for statistics. The default is 30 minutes. You can change this setting using the threat-detection statistics tcp-intercept rate-interval command. The security appliance samples data 60 times during this interval.
Sampling interval:	Shows the interval between samples. This value is always the rate interval divided by 60.
rank	Shows the ranking, 1 through 10, where 1 is the most attacked server, and 10 is the least attacked server.
server_ip:port	Shows the server IP address and the port on which it is being attacked.
interface	Shows the inerface through which the server is being attacked.
avg_rate	Shows the average rate of attack, in attacks per second over the rate interval set by the threat-detection statistics tcp-intercept rate-interval command (by default, the rate interval is 30 minutes). The security appliance samples the data every 30 seconds over the rate interval.
current_rate	Shows the current attack rate, in attacks per second.
total	Shows the total number of attacks.
attacker_ip or <various> Last: attacker_ip</various>	Shows the attacker IP address. If there is more than one attacker, then " <various>" displays followed by the last attacker IP address.</various>
(last_attack_time ago)	Shows when the last attack occurred.
sampling data	Shows all 60 sampling data values, which show the number of attacks at each inerval.

Table 30-13	show threat-detection statistics top tcp-intercept detail Fields
-------------	--

Related Commands

Command	Description	
threat-detection scanning-threat	Enables scanning threat detection.	
show threat-detection statistics host	Shows the host statistics.	
show threat-detection statistics port	Shows the port statistics.	
show threat-detection statistics protocol	Shows the protocol statistics.	
threat-detection statistics	Enables threat statistics.	

show tls-proxy

To display TLS proxy and session information, use the **show tls-proxy** command in global configuration mode.

show tls-proxy tls_name [session [host host_addr | detail [cert-dump | count]]

Syntax Description	cert-dump Dumps the local dynamic certificate. Output is a hex dump of the LDC.							
	count	Shows only the session counters.						
	detail	Shows detailed TLS proxy information including the cipher for each SSL leg and the LDC.						
	host host_addr	Specifies a particular host to show the sessions associated with.						
	session	Shows active TLS proxy sessions.						
	<i>tls_name</i> Name of the TLS proxy to show.							
Defaults	No default behavior or values.							
Command Modes	The following table shows the modes in which you can enter the command:							
			Firewall N	lode	Security Context			
						Multiple		
	Command Mode		Routed	Transparent	Single	Context	System	
	Privileged EXEC mode		•	•	•	•	•	
Command History	Release Modification							
	8.0(2)This command was introduced.							
Examples	The following is san	nple output fro	om the sho	w tls-proxy com	mand:			
	Client proxy: Local dynam Local dynam Cipher-sui Run-time proxi Proxy 0x44	t: local_ccm mic certifica mic certifica mic certifica te <unconfig es: 8b468: Class</unconfig 	ate issuer ate key-pa ured> -map: skir	r: ldc_signer ir: phone_comm nny_ssl, Inspec				
	Active sess 1, most sess 4, byte 3244 The following is sample output from the show tls-proxy session command:							
	hostname# show tls-proxy session outside 133.9.0.211:51291 inside 195.168.2.200:2443 P:0x4491a60(proxy)							

S:0x482e790 byte 3388

The following is sample output from the show tls-proxy session detail command:

```
hostname# show tls-proxy session detail
1 in use, 1 most used
outside 133.9.0.211:50433 inside 195.168.2.200:2443 P:0xcba60b60(proxy) S:0xcbc10748 byte
1831704
   Client: State SSLOK Cipher AES128-SHA Ch 0xca55efc8 TxQSize 0 LastTxLeft 0 Flags 0x1
   Server: State SSLOK Cipher AES128-SHA Ch 0xca55efa8 TxQSize 0 LastTxLeft 0 Flags 0x9
Local Dynamic Certificate
   Status: Available
   Certificate Serial Number: 29
   Certificate Usage: General Purpose
   Public Key Type: RSA (1024 bits)
   Issuer Name:
       cn=TLS-Proxy-Signer
   Subject Name:
       cn=SEP0002B9EB0AAD
       o=Cisco Systems Inc
       c=US
   Validity Date:
       start date: 00:47:12 PDT Feb 27 2007
       end date: 00:47:12 PDT Feb 27 2008
   Associated Trustpoints:
```

Related Commands	Command	Description
	client	Defines a cipher suite and sets the local dynamic certificate issuer or keypair.
	ctl-provider	Defines a CTL provider instance and enters provider configuration mode.
	show running-config	Shows running configuration of all or specified TLS proxies.
	tls-proxy	
	tls-proxy	Defines a TLS proxy instance and sets the maximum sessions.

show track

To display information about object tracked by the tracking process, use the **show track** command in user EXEC mode.

show track [track-id]

Syntax Description	track-id A tracking entry object ID. Valid values are from 1 to 500.						
efaults	If the <i>track-id</i> is not pro	vided, then informati	on about all trac	king object	s is displayed.		
ommand Modes	The following table show	ws the modes in whic	h you can enter	the comma	nd:		
		Firewall N	lode	Security Context			
					Multiple		
	Command Mode	Routed	Transparent	Single	Context	System	
	User EXEC	•		•	—	—	
xamples		w track orter 124 reachabil		nd:			
	Reachability is U 2 changes, last c Latest operation	hange 03:41:16					
Related Commands	2 changes, last c	hange 03:41:16 return code: OK	rtr commands i	in the runni	ng configuratio	on.	

show traffic

To display interface transmit and receive activity, use the **show traffic** command in privileged EXEC mode.

show traffic

- **Syntax Description** This command has no arguments or keywords.
- **Defaults** No default behavior or values.

Command Modes The following table shows the modes in which you can enter the command:

	Firewall N	lode	Security Context			
				Multiple	Multiple	
Command Mode	Routed	Transparent	Single	Context	System	
Privileged EXEC	•	•	•	•	•	

Release Modification 7.2(1) Special display for the ASA 5550 adaptive security appliance was added.

Usage Guidelines The **show traffic** command lists the number of packets and bytes moving through through each interface since the last show traffic command was entered or since the security appliance came online. The number of seconds is the duration the security appliance has been online since the last reboot, unless the **clear traffic** command was entered since the last reboot. If this is the case, then the number of seconds is the duration since that command was entered.

For the ASA 5550 adaptive security appliance, the **show traffic** command also shows the aggregated throughput per slot. Because the ASA 5550 adaptive security appliance requires traffic to be evenly distributed across slots fro maximum throughput, this display helps you determine if the traffic is distributed evenly.

Examples

The following example shows output from the **show traffic** command:

hostname# show traffic
outside:
 received (in 102.080 secs):
 2048 packets 204295 bytes
 20 pkts/sec 2001 bytes/sec
 transmitted (in 102.080 secs):
 2048 packets 204056 bytes
 20 pkts/sec 1998 bytes/sec
Ethernet0:

2049 packets 233027 bytes 20 pkts/sec 2282 bytes/sec transmitted (in 102.080 secs): 2048 packets 232750 bytes 20 pkts/sec 2280 bytes/sec

For the ASA 5550 adaptive security appliance, the following text is displayed at the end:

Related Commands	Command	Description				
	clear traffic	Resets the counters for transmit and receive activity.				

show uauth

To display one or all currently authenticated users, the host IP to which they are bound, and any cached IP and port authorization information, use the **show uauth** command in privileged EXEC mode.

show uauth [username]

Defaults	Omitting username displays the authorization information for all users.								
Command Modes	The following	table shows the	modes in whic	h you can enter	the comma	ind:			
			Firewall N	lode	Security Context				
						Multiple			
	Command Mo		Routed	Transparent	Single	Context	System		
	Privileged EX	EC	•	•			•		
Command History	Release	Modificatio	n						
Usage Guidelines	Preexisting This command was preexisting.								
	The show uauth command displays the AAA authorization and authentication caches for one user or for all users. This command is used with the timeout command.								
	Each user host IP address has an authorization cache attached to it. The cache allows up to 16 address and service pairs for each user host. If the user attempts to access a service that has been cached from the correct host, the security appliance considers it preauthorized and immediately proxies the connection. Once you are authorized to access a website, for example, the authorization server is not contacted for each image as it is loaded (assuming the images come from the same IP address). This process significantly increases performance and reduces the load on the authorization server.								
	The output from the show uauth command displays the username that is provided to the authorization server for authentication and authorization purposes, the IP address to which the username is bound, and whether the user is authenticated only or has cached services.								
Note	When you ena	ble Xauth, an en ess that is assign	•	the uauth table		•	uth command)		
cannot be created upon completion of Xauth. If AAA authorization or accounting services are required, you can enable the AAA authentication proxy to authenticate users behind the firewall. For more information on AAA authentication proxies, see to the aaa commands.

Use the **timeout uauth** command to specify how long the cache should be kept after the user connections become idle. Use the **clear uauth** command to delete all the authorization caches for all the users, which will cause them to have to reauthenticate the next time that they create a connection.

Examples

L

This example shows sample output from the **show uauth** command when no users are authenticated and one user authentication is in progress:

hostname(config) # show uauth Most Seen Current Authenticated Users 0 0 0 1

Authen In Progress

This example shows sample output from the show uauth command when three users are authenticated and authorized to use services through the security appliance:

```
hostname(config)# show uauth
user 'pat' from 209.165.201.2 authenticated
user 'robin' from 209.165.201.4 authorized to:
   port 192.168.67.34/telnet
                                192.168.67.11/http
                                                       192.168.67.33/tcp/8001
        192.168.67.56/tcp/25
                                192.168.67.42/ftp
user `terry' from 209.165.201.7 authorized to:
   port 192.168.1.50/http
                              209.165.201.8/http
```

Related Commands	Command	Description			
	clear uauth	Remove current user authentication and authorization information.			
	timeout	Set the maximum idle time duration.			

show url-block

To display the number of packets held in the url-block buffer and the number (if any) dropped due to exceeding the buffer limit or retransmission, use the **show url-block** command in privileged EXEC mode.

show url-block [block statistics]

Syntax Description	block statistics	(Ontional) Diral	wa blook buffer	and stati-t	ias		
Syntax Description	DIOCK STATISTICS	(Optional) Displa	ays block buffer u	sage statist	ics.		
Defaults	No default behavior or	values.					
Command Modes	The following table sh	ows the modes in wh	iich you can enter	the comma	and:		
		Firewall	Mode	Security (Context		
					Multiple		
	Command Mode	Routed	Transparent	Single	Context	System	
	Privileged EXEC	•	•	•	•	•	
					·		
Command History	Release	Modification					
	Preexisting	This command w	vas preexisting.				
Usage Guidelines Examples	The show url-block b buffer and the number The following is samp	(if any) dropped due	to exceeding the	buffer limi			
-///	The following is sample output from the show url-block command: hostname# show url-block						
	url-block url-mempool 128 url-block url-size 4 url-block block 128						
This shows the configuration of the URL block buffer.							
	The following is sample output from the show url-block block statistics command:						
	hostname# show url-block block statistics						
	URL Pending Packet H Cumulative number of Maximum number of pa Current number of pa Packets dropped due exceeding url-bloc HTTP server retran	f packets held: 89 ackets held (per UF ackets held (global to k buffer limit: 7	6 RL): 3 L): 38 546				

Related Commands	Commands	Description
	clear url-block block statistics	Clears the block buffer usage counters.
	filter url	Directs traffic to a URL filtering server.
	url-block	Manage the URL buffers used for web server responses.
	url-cache	Enables URL caching while pending responses from an N2H2 or Websense server and sets the size of the cache.
	url-server	Identifies an N2H2 or Websense server for use with the filter command.

show url-cache statistics

To display information about the url-cache, which is used for URL responses received from an N2H2 or Websense filtering server, use the **show url-cache statistics** command in privileged EXEC mode.

show url-cache statistics

Syntax Description This command has no arguments or keywords.

Defaults No default behavior or values.

Command Modes The following table shows the modes in which you can enter the command:

	Firewall N	lode	Security Context		
				Multiple	
Command Mode	Routed	Routed Transparent		Context	System
Privileged EXEC	•	•	•	•	•

Command History	Release	Modification
	Preexisting	This command was preexisting.

Usage Guidelines The

The **show url-cache statistics** command displays the following entries:

- Size—The size of the cache in kilobytes, set with the url-cache size option.
- Entries—The maximum number of cache entries based on the cache size.
- In Use—The current number of entries in the cache.
- Lookups—The number of times the security appliance has looked for a cache entry.
- Hits—The number of times the security appliance has found an entry in the cache.

You can view additional information about N2H2 Sentian or Websense filtering activity with the **show perfmon** command.

Examples

The following is sample output from the **show url-cache statistics** command:

hostname# show url-cache statistics

URL Filter	Cache Stats
Size :	1KB
Entries :	36
In Use :	30
Lookups :	300
Hits :	290

Related Commands	Commands	Description
	clear url-cache statistics	Removes url-cache command statements from the configuration.
	filter url	Directs traffic to a URL filtering server.
	url-block	Manage the URL buffers used for web server responses.
	url-cache	Enables URL caching for responses received from an N2H2 or Websense server and sets the size of the cache.
	url-server	Identifies an N2H2 or Websense server for use with the filter command.

show url-server

To display information about the URL filtering server, use the **show url-server** command in privileged EXEC mode.

show url-server statistics

- **Syntax Description** This command has no arguments or keywords.
- **Defaults** No default behavior or values.

Command Modes The following table shows the modes in which you can enter the command:

	Firewall N	Firewall Mode Security Context			
				Multiple	
Command Mode	Routed	Transparent	Single	Context	System
Privileged EXEC	•	•	•	•	•

Command History	Release	Modification
	Preexisting	This command was preexisting.

Usage Guidelines The **show url-server statistics** command displays the URL server vendor; number of URLs total, allowed, and denied; number of HTTPS connections total, allowed, and denied; number of TCP connections total, allowed, and denied; and the URL server status.

The show url-server command displays the following information:

- For N2H2, url-server (*if_name*) vendor n2h2 host *local_ip* port *number* timeout *seconds* protocol [{TCP | UDP}{version 1 | 4}]
- For Websense, url-server (*if_name*) vendor websense host *local_ip* timeout *seconds* protocol [{TCP | UDP}]

Examples

The following is sample output from the show url-server statistics command:

hostname## show url-server statistics Global Statistics: _____ URLs total/allowed/denied 994387/155648/838739 URLs allowed by cache/server 70483/85165 URLs denied by cache/server 801920/36819 HTTPSs total/allowed/denied 994387/155648/838739 HTTPs allowed by cache/server 70483/85165 HTTPs denied by cache/server 801920/36819 FTPs total/allowed/denied 994387/155648/838739 FTPs allowed by cache/server 70483/85165

FTPs denied by cache/se Requests dropped Server timeouts/retries Processed rate average Denied rate average 60s Dropped rate average 60	60s/300s /300s	801920/36819 28715 567/1350 1524/1344 requests/second 35648/33022 requests/second 156/189 requests/second
URL Server Statistics:		
192.168.0.1 Vendor Port Requests total/allowed/ Server timeouts/retries Responses received Response time average 6 192.168.0.2 Vendor Port Requests total/allowed/ Server timeouts/retries Responses received Response time average 6 	0s/300s denied	567/1350 365952 2/1 seconds/request DOWN websense 17035 0/0/0 0/0 0
URL Packets Sent and Re	ceived S	tats:
Message STATUS_REQUEST LOOKUP_REQUEST LOG_REQUEST	Sent 411 366519 0	Received 0 365952 NA
Errors:		
RFC noncompliant GET me URL buffer update failu		0 0
	The outp	or to display url-server statistics organized on a global ut is reformatted to provide: more-detailed information and
Supported Modes: privileged router transparent single multi/context		
Privilege: ATTR_ES_CHECK_CONTEXT		
Debug support: N/A		
Migration Strategy (if N/A	any):	

Commands Description		
clear url-server	Clears the URL filtering server statistics.	
filter url	Directs traffic to a URL filtering server.	
url-blockManage the URL buffers used for web server responses.		

url-cache	Enables URL caching while pending responses from an N2H2 or Websense server and sets the size of the cache.
url-server	Identifies an N2H2 or Websense server for use with the filter command.

show version

To display the software version, hardware configuration, license key, and related uptime data, use the **show version** command in user EXEC mode.

show version

Syntax Description This command has no arguments or keywords.

Defaults

No default behaviors or values.

Command Modes The following table shows the modes in which you can enter the command:

Command Mode	Firewall Mode		Security Context		
	Routed	Transparent		Multiple	
			Single	Context	System
User EXEC	•	•	•	•	•

Command History	Release	Modification
	Preexisting	This command was preexisting.
	7.2(1)	In stateful failover mode, an additional line showing cluster uptime is displayed.

Usage Guidelines

The **show version** command allows you to display the software version, operating time since the last reboot, processor type, Flash partition type, interface boards, serial number (BIOS ID), activation key value, license type (R or UR), and time stamp for when the configuration was last modified.

The serial number listed with the **show version** command is for the Flash partition BIOS. This number is different from the serial number on the chassis. When you get a software upgrade, you will need the serial number that appears in the **show version** command, not the chassis number.

• If you downgrade to an earlier release, your key for the current release might allow for more security contexts than the earlier release supports. When the value of the security contexts in the key exceeds the platform limit, the following message appears in the show activation-key output:

The Running Activation Key feature: 50 security contexts exceeds the limit in the platform, reduce to 20 security contexts.

• If you downgrade to an earlier release, your key for the current release might enable GTP/GPRS even though it is not allowed in the earlier release. When the key enables GTP/GPRS but the software version does not allow it, the following message appears in the show activation-key output:

The Running Activation Key feature: $\ensuremath{\mathtt{GTP}}\xspace{\mathsf$

The failover cluster uptime value indicates how long a failover set has been running. If one unit stops running, the uptime value continues to increase as long as the active unit continues to operate. Therefore, it is possible for the failover cluster uptime to be greater than the individual unit uptime. If you temporarily disable failover, and then reenable it, the failover cluster uptime reports the time the unit was up before failover was disabled plus the time the unit was up while failover was disabled.

Examples

The following example shows how to display the software version, hardware configuration, license key, and related uptime information. Note that in an environment where stateful failover is configured an additional line showing the failover cluster uptime is displayed. If failover is not configured, the line is not displayed:

```
hostname# show version
Cisco Adaptive Security Appliance Software Version 8.0(0)
Device Manager Version 6.0(0)
Compiled on Mon 16-April-07 03:29 by root
System image file is "disk0:/cdisk.bin"
Config file at boot was "disk0:/main_backup.cfg"
hostname up 2 days 10 hours
failover cluster up 2 days 11 hours
          ASA5520, 1024 MB RAM, CPU Pentium 4 Celeron 2000 MHz
Hardware
BIOS Flash M50FW016 @ 0xffe00000, 2048KB
Encryption hardware device : Cisco ASA-55x0 on-board accelerator (revision 0x0)
                            Boot microcode : CN1000-MC-BOOT-2.00
                            SSL/IKE microcode: CNLite-MC-SSLm-PLUS-2.01
                            IPSec microcode : CNlite-MC-IPSECm-MAIN-2.04
0: Ext: GigabitEthernet0/0 : address is 000b.fcf8.c44e, irg 9
1: Ext: GigabitEthernet0/1 : address is 000b.fcf8.c44f, irg 9
2: Ext: GigabitEthernet0/2 : address is 000b.fcf8.c450, irq 9
3: Ext: GigabitEthernet0/3 : address is 000b.fcf8.c451, irg 9
                           : address is 000b.fcf8.c44d, irq 11
 4: Ext: Management0/0
5: Int: Not used
                           : irq 11
6: Int: Not used
                           : irq 5
Licensed features for this platform:
Maximum Physical Interfaces : Unlimited
Maximum VLANs
                            : 150
Inside Hosts
                           • Unlimited
Failover
                           : Active/Active
VPN-DES
                           : Enabled
VPN-3DES-AES
                           : Enabled
Security Contexts
                           : 10
GTP/GPRS
                            : Enabled
VPN Peers
                            : 750
WebVPN Peers
                            : 500
Advanced Endpoint Assessment : Disabled
This platform has an ASA 5520 VPN Plus license.
Serial Number: P300000098
Running Activation Key: 0x7c2e394b 0x0c842e53 0x98f3edf0 0x8c1888b0 0x0336f1ac
Configuration register is 0x1
Configuration last modified by enable_15 at 14:17:59.410 EST Wed April 16 2007
hostname#
```

The following message appears if you enter the **show version** command after the **eject** command has been executed, but the device has not been physically removed:

Slot 1: Compact Flash has been ejected! It may be removed and a new device installed.

Related Commands

Command	Description				
eject	Allows shutdown of external compact Flash device before physical removal from the security appliance.				
show hardware	Displays detail hardware information.				
show serial	Displays the hardware serial information.				
show uptime	Displays how long the security appliance has been up.				

show vlan

To display all VLANs configured on the security appliance, use the **show vlan** command in privileged EXEC mode.

show vlan

Defaults No default behavior or values.

Command Modes The following table shows the modes in which you can enter the command:

	Firewall Mode		Security Context		
Command Mode	Routed	Transparent		Multiple	
			Single	Context	System
Privileged EXEC	•	•	•	_	•

Command History	Release	Modification
	7.2(1)	This command was introduced.

Examples The following example displays the configured VLANs:

hostname# **show vlan** 10-11, 30, 40, 300

Commands Command Description clear interface Clears counters for the show interface command. interface Configures an interface and enters interface configuration mode. show interface Displays the runtime status and statistics of interfaces.

show vpn load-balancing

To display the runtime statistics for the VPN load-balancing virtual cluster configuration, use the **show vpn-load-balancing** command in global configuration, privileged EXEC, or VPN load-balancing mode.

show vpn load-balancing

Syntax Description This command has no variables or arguments.

Defaults

No default behavior or values.

Command Modes The following table shows the modes in which you can enter the command:

Command Mode	Firewall N	lode	Security Context		
	Routed	Transparent	Single	Multiple	
				Context	System
Global configuration	•		•	_	_
Privileged EXEC	•		•		
vpn load-balancing	•		•		

Command History	Release	Modification
	7.0(1)	This command was introduced.
	7.1(1)	Added separate IPSec and SSL columns for both Load (%) display and Session display in the output example.

Usage Guidelines

The **show vpn load-balancing** command displays statistical information for the virtual VPN load-balancing cluster. If the local device is not participating in the VPN load-balancing cluster, this command indicates that VPN load balancing has not been configured for this device.

The load balancing cluster master receives a periodic message from each ASA in the cluster with the number of active AnyConnect and clientless sessions, as well as the maximum allowed sessions based on the configured or license limits. If an ASA in the cluster shows 100% full capacity, the cluster master cannot redirect more connections to it. Although the ASA may show as full, some users may be in Inactive/wait-to-resume state, wasting the licenses. As a workaround, each ASA provides the total number of sessions minus the sessions in inactive state, instead of the total number of sessions. In other words, the inactive sessions are not reported to the cluster master. Even if the ASA is full (with some inactive sessions), the cluster master still redirects connections to it if necessary. When the ASA receives the new connection, the session that has been inactive the longest is logged off, allowing new connections to take its license.

The asterisk (*) in the output indicates the IP address of the security appliance to which you are connected.

Examples

This example displays **show vpn load-balancing** command and its output for a situation in which the local device is participating in the VPN load-balancing cluster:

```
hostname(config-load-balancing) # show vpn load-balancing
```

Status: enabled							
Role: Master							
Failover: n/a							
Encryption: enab	oled						
Cluster IP: 192	.168.1.	100					
Peers: 1							
				Load	(%)	Sessio	ons
Public IP	Role	Pri	Model	IPSec	SSL	IPSec	SSL
* 192.168.1.40	Master	10	PIX-515	0	0	0	0
192.168.1.110	Backu	p 5 PI	IX-515	0	0	0	0
hostname(config-	-load-b	alancing	g) #				

Note

Sessions that are inactive are sorted from the longest time to the shortest time. Inactive SSL sessions are not counted and do not appear in the sessions and load totals.

If the local device is not participating in the VPN load-balancing cluster, the **show vpn load-balancing** command shows a different result:

hostname(config)# **show vpn load-balancing** VPN Load Balancing has not been configured.

Related Commands	Command	Description
	clear configure vpn load-balancing	Removes vpn load-balancing command statements from the configuration.
	show running-config vpn load-balancing	Displays the the current VPN load-balancing virtual cluster configuration.
	vpn load-balancing	Enters vpn load-balancing mode.

show vpn-sessiondb

To display information about VPN sessions, use the show **vpn-sessiondb** command in privileged EXEC mode. The command includes options for displaying information in full or in detail, lets you specify type of sessions to display, and provides options to filter and sort the information. The syntax table and usage notes organize the choices accordingly.

show vpn-sessiondb [detail] [full] {remote | 121 | index indexnumber | webvpn | email-proxy | svc}
[filter {name username | ipaddress IPaddr | a-ipaddress IPaddr | p-ipaddress IPaddr |
tunnel-group groupname | protocol protocol-name | encryption encryption-algo | inactive}]
[sort {name | ipaddress | a-ipaddress | p-ip address | tunnel-group | protocol | encryption |
inactivity}]

Syntax Descriptions	Granularity of Display	Description
	detail	Displays extended details about a session. For example, using the detail option for an IPSec session displays additional details such as the IKE hashing algorithm, authentication mode, and rekey interval.
		If you choose detail , and the full option, the security appliance displays the detailed output in a machine-readable format.
	filter filter_criteria	(Optional) Filters the output to display only the information you specify by using one or more of the filter options. For more information, see usage notes.
	full	Displays streamed, untruncated output. Output is delineated by characters and a string between records.
	sort	Sorts the output according to the sort option you specify. For more information, see usage notes.
	Session Type to Display	Description
	email-proxy	Displays email-proxy sessions. You can display this information for e-mail proxy sessions, or you can filter it by using the following filter and sort options: name (connection name), ipaddress (client), encryption .
	index indexnumber	Displays a single session by index number. Specify the index number for the session, 1 - 750. Filter and sort options do not apply.
	121	Displays VPN LAN-to-LAN session information. You can display this information for all groups or you can filter it by using the following filter and sort options: name , ipaddress , protocol , encryption .
	remote	Displays remote-access sessions. You can display this information for all groups or you can filter it by using the following filter options: name , a-ipaddress , p-ipaddress , tunnel-group , protocol , encryption .
	webvpn	Displays information about WebVPN sessions. You can display this information for all groups or you can filter it by using the following filter and sort options: name , ipaddress , encryption .
	svc	Configures SSL VPN client attributes.

Defaults

No default behavior or values.

Command Modes The following table shows the modes in which you can enter the command:

	Firewall Mode			Security Context		
	Routed	Transparent		Multiple		
Command Mode			Single	Context	System	
Privileged EXEC	•	•	_		•	

Command History	Release	Modification
	7.3(0)	Added VLAN field description.
	7.2(1)	This command was introduced.
	8.0(5)	Added inactive as a filter option and inactivity as a sort option.

Usage Guidelines

You can use the following options to filter and to sort the session display:

Filter/Sort Option	Description		
filter a-ipaddress IPaddr	Filters the output to display information for the specified assigned IP address or addresses only.		
sort a-ipaddress	Sorts the display by assigned IP addresses.		
filter encryption encryption-algo	Filters the output to display information for sessions using the specified encryption algorithm(s) only.		
sort encryption	Sorts the display by encryption algorithm. Encryption algorithms include: aes128, aes192, aes256, des, 3des, rc4		
filter inactive	Filters inactive sessions which have lost connectivity. Each session is time stamped with the SSL tunnel drop time. If the session is active, 00:00m:00s is displayed.		
sort inactivity	Sorts inactive sessions.		
filter ipaddress IPaddr	Filters the output to display information for the specified inside IP address or addresses only.		
sort ipaddress	Sorts the display by inside IP addresses.		
filter name username	Filters the output to display sessions for the specified username(s).		
sort name	Sorts the display by usernames in alphabetical order.		
filter p-address IPaddr	Filters the output to display information for the specified outside IP address only.		
sort p-address	Sorts the display by the specified outside IP address or addresses.		
filter protocol protocol-name	Filters the output to display information for sessions using the specified protocol(s) only.		
sort protocol	Sorts the display by protocol. Protocols include: IKE, IMAP4S, IPSec, IPSecLAN2LAN, IPSecLAN2LANOverNatT, IPSecOverNatT, IPSecoverTCP, IPSecOverUDP, SMTPS, userHTTPS, vcaLAN2LAN		
filter tunnel-group groupname	Filters the output to display information for the specified tunnel group(s) only.		

Filter/Sort Option	Description
sort tunnel-group	Sorts the display by tunnel group.
l character	Modifies the output, using the following arguments: {begin include exclude grep [-v]} {reg_exp}
<cr></cr>	Sends the output to the console.

The following example, entered in privileged EXEC mode, shows detailed information about LAN-to-LAN sessions:

```
hostname# show vpn-sessiondb detail 121
Session Type: LAN-to-LAN Detailed
Connection : 172.16.0.1
Index
                                   IP Addr : 172.16.0.1
       : 1
           : IPSecLAN2LAN
: 48484156
                                   Encryption : AES256
Protocol
Bytes Tx
                                    Bytes Rx : 875049248
Login Time
           : 09:32:03 est Mon Aug 2 2004
Duration
            : 6:16:26
Filter Name :
IKE Sessions: 1 IPSec Sessions: 2
TKE:
 Session ID : 1
 UDP Src Port : 500
                                     UDP Dst Port : 500
 IKE Neg Mode : Main
                                      Auth Mode : preSharedKeys
 Encryption : AES256
                                      Hashing
                                                   : SHA1
 Rekey Int (T): 86400 Seconds
                                     Rekey Left(T): 63814 Seconds
 D/H Group
             : 5
IPSec:
 Session ID : 2
 Local Addr : 10.0.0/255.255.255.0
 Remote Addr : 209.165.201.30/255.255.255.0
                                      Hashing : SHA1
PFS Group : 5
 Encryption : AES256 Hashing
 Encapsulation: Tunnel
 Encapsulation: funnelRekey Int (T): 28800 SecondsRekey Left(T): 10903 SecondsBytes Tx: 46865224Bytes Rx: 2639672
 Bytes Tx : 46865224
Pkts Tx : 1635314
                                                 : 37526
                                     Pkts Rx
IPSec:
 Session ID : 3
 Local Addr : 10.0.0.1/255.255.255.0
 Remote Addr : 209.165.201.30/255.255.255.0
 Encryption : AES256
                                     Hashing
                                                  : SHA1
                                      PFS Group : 5
 Encapsulation: Tunnel
 Rekey Int (T): 28800 Seconds
                                    Rekey Left(T): 6282 Seconds
  Bytes Tx : 1619268
                                     Bytes Rx : 872409912
  Pkts Tx
             : 19277
                                     Pkts Rx
                                                  : 1596809
```

hostname#

The following example shows the details of single session:

```
AsaNacDev# show vpn-sessiondb detail full index 4
Session Type: Remote Detailed |
```

```
Index: 2 | EasyVPN: 0 | Username: uuuu | Group: DfltGrpPolicy | Tunnel Group:
regr3000multigroup | IP Addr: 192.168.2.80 | Public IP: 161.44.173.216 | Protocol:
IPSecOverUDP | Encryption: 3DES | Login Time: 12:51:54 EDT Wed Jun 21 2006 |Duration:
0h:02m:44s | Bytes Tx: 2134 | Bytes Rx: 8535 | Client Type: WinNT | Client Ver: 4.0.5
(Rel) | Filter Name: | NAC Result: N/A | Posture Token: : | VM Result: Static | VLAN: 10
||
```

IKE Sessions: 1 | IPSecOverUDP Sessions: 1 |

Type: IKE | Session ID: 1 | Authentication Mode: preSharedKeys | UDP Source Port: 500 | UDP Destination Port: 500 | IKE Negotiation Mode: Aggressive | Encryption: 3DES | Hashing: SHA1 | Diffie-Hellman Group: 2 | Rekey Time Interval: 40000 Seconds | Rekey Left(T): 39836 Seconds ||

Type: IPSecOverUDP | Session ID: 2 | Local IP Addr: 0.0.0.0/0.0.0/0/0 | Remote IP Addr: 192.168.2.80/255.255.255.255.255/0/0 | Encryption: 3DES | Hashing: SHA1 | Encapsulation: Tunnel | UDP Destination Port: 10000 | Rekey Time Interval: 28800 Seconds | Rekey Left(T): 28636 Seconds | Idle Time Out: 30 Minutes | Idle TO Left: 30 Minutes | Bytes Tx: 2134 | Bytes Rx: 8535 | Packets Tx: 15 | Packets Rx: 2134 | ||

VLAN Mapping: VLAN: 10

AsaNacDev# show vpn-sessiondb detail index 1

Session Type: Remote Detailed

```
: dbrownhi
Username
Index
            : 1
Assigned IP : 192.168.2.70
                                   Public TP
                                                : 10.86.5.114
Protocol
          : IPSec
                                   Encryption : AES128
Hashing
           : SHA1
Bytes Tx
          : 0
                                    Bytes Rx
                                                : 604533
Client Type : WinNT
                                   Client Ver : 4.6.00.0049
Tunnel Group : bxbvpnlab
Login Time : 15:22:46 EDT Tue May 10 2005
            : 7h:02m:03s
Duration
Filter Name :
NAC Result
            : Accepted
Posture Token: Healthy
VM Result : Static
VLAN
            : 10
IKE Sessions: 1 IPSec Sessions: 1 NAC Sessions: 1
TKE:
 Session ID : 1
 UDP Src Port : 500
                                     UDP Dst Port : 500
 IKE Neg Mode : Aggressive
                                     Auth Mode : preSharedKeysXauth
 Encryption : 3DES
                                     Hashing
                                                 : MD5
 Rekey Int (T): 86400 Seconds
                                     Rekey Left(T): 61078 Seconds
 D/H Group : 2
IPSec:
  Session ID
             : 2
             : 0.0.0.0
  Local Addr
 Remote Addr : 192.168.2.70
 Encryption : AES128
                                      Hashing
                                                  : SHA1
 Encapsulation: Tunnel
 Rekey Int (T): 28800 Seconds
                                     Rekey Left(T): 26531 Seconds
  Bytes Tx : 0
                                     Bytes Rx : 604533
  Pkts Tx
             : 0
                                     Pkts Rx
                                                  : 8126
```

NAC:		
Reval Int (T): 3000 Seconds	Reval Left(T):	286 Seconds
SQ Int (T) : 600 Seconds	EoU Age (T) :	2714 Seconds
Hold Left (T): 0 Seconds	Posture Token:	Healthy
Redirect URL : www.cisco.com		

As shown in the examples, the fields displayed in response to the **show vpn-sessiondb** command vary, depending on the keywords you enter. Table 30-14 explains these fields.

Table 30-14 show vpn-sessiondb Command Fields

Field	Description			
Auth Mode	Protocol or mode used to authenticate this session.			
Bytes Rx	Total number of bytes received from the remote peer or client by the security appliance.			
Bytes Tx	Number of bytes transmitted to the remote peer or client by the security appliance.			
Client Type	Client software running on the remote peer, if available.			
Client Ver	Version of the client software running on the remote peer.			
Connection	Name of the connection or the private IP address.			
D/H Group	Diffie-Hellman Group. The algorithm and key size used to generate IPSec SA encryption keys.			
Duration	Elapsed time (HH:MM:SS) between the session login time and the last screen refresh.			
EAPoUDP Session Age	Number of seconds since the last successful posture validation.			
Encapsulation	Mode used to apply IPSec ESP (Encapsulation Security Payload protocol) encryption and authentication (that is, the part of the original IP packet that has ESP applied).			
Encryption	Data encryption algorithm this session is using, if any.			
Encryption	Data encryption algorithm this session is using.			
EoU Age (T)	EAPoUDP Session Age. Number of seconds since the last successful posture validation.			
Filter Name	Username specified to restrict the display of session information.			
Hashing	Algorithm used to create a hash of the packet, which is used for IPSec data authentication.			
Hold Left (T)	Hold-Off Time Remaining. 0 seconds if the last posture validation was successful. Otherwise, the number of seconds remaining before the next posture validation attempt.			
Hold-Off Time Remaining	0 seconds if the last posture validation was successful. Otherwise, the number of seconds remaining before the next posture validation attempt.			
IKE Neg Mode	IKE (IPSec Phase 1) mode for exchanging key information and setting up SAs: Aggressive or Main.			
IKE Sessions	Number of IKE (IPSec Phase 1) sessions; usually 1. These sessions establish the tunnel for IPSec traffic.			
Index	Unique identifier for this record.			

Field	Description					
IP Addr	Private IP address assigned to the remote client for this session. This is also known as the "inner" or "virtual" IP address. It lets the client appear to be a host on the private network.					
IPSec Sessions	Number of IPSec (Phase 2) sessions, which are data traffic sessions through the tunnel. Each IPSec remote-access session can have two IPSec sessions: one consisting of the tunnel endpoints, and one consisting of the private networks reachable through the tunnel.					
Local IP Addr	IP address assigned to the local endpoint of the tunnel (that is the interface on the security appliance).					
Login Time	Date and time (MMM DD HH:MM:SS) that the session logged in. Time is displayed in 24-hour notation.					
NAC Result	State of Network Admission Control Posture Validation. It can be one of the following:					
	• Accepted—The ACS successfully validated the posture of the remote host.					
	• Rejected—The ACS could not successfully validate the posture of the remote host.					
	• Exempted—The remote host is exempt from posture validation according to the Posture Validation Exception list configured on the security appliance.					
	• Non-Responsive—The remote host did not respond to the EAPoUDP Hello message.					
	• Hold-off—The security appliance lost EAPoUDP communication with the remote host after successful posture validation.					
	• N/A—NAC is disabled for the remote host according to the VPN NAC group policy.					
	• Unknown—Posture validation is in progress.					
NAC Sessions	Number of Network Admission Control (EAPoUDP) sessions.					
Packets Rx	Number of packets received from the remote peer by the security appliance.					
Packets Tx	Number of packets transmitted to the remote peer by the security appliance.					
PFS Group	Perfect Forward Secrecy group number.					
Posture Token	Informational text string configurable on the Access Control Server. The ACS downloads the posture token to the security appliance for informational purposes to aid in system monitoring, reporting, debugging, and logging. A typical posture token is Healthy, Checkup, Quarantine, Infected, or Unknown.					
Protocol	Protocol the session is using.					
Public IP	Publicly routable IP address assigned to the client.					

Table 30-14	show vpn-sessiondb Command Fields
-------------	-----------------------------------

Field	Description
Redirect URL	Following posture validation or clientless authentication, the ACS downloads the access policy for the session to the security appliance. The Redirect URL is an optional part of the access policy payload. The security appliance redirects all HTTP (port 80) and HTTPS (port 443) requests for the remote host to the Redirect URL if it is present. If the access policy does not contain a Redirect URL, the security appliance does not redirect HTTP and HTTPS requests from the remote host.
	Redirect URLs remain in force until either the IPSec session ends or until posture revalidation, for which the ACS downloads a new access policy that can contain a different redirect URL or no redirect URL.
Rekey Int (T)	Lifetime of the IPSec (IKE) SA encryption keys.
Rekey Left (T)	Lifetime remaining of the IPSec (IKE) SA encryption keys.
Rekey Time Interval	Lifetime of the IPSec (IKE) SA encryption keys.
Remote IP Addr	IP address assigned to the remote endpoint of the tunnel (that is the interface on the remote peer).
Reval Int (T)	Revalidation Time Interval. Interval in seconds required between each successful posture validation.
Reval Left (T)	Time Until Next Revalidation. 0 if the last posture validation attempt was unsuccessful. Otherwise, the difference between the Revalidation Time Interval and the number of seconds since the last successful posture validation.
Revalidation Time Interval	Interval in seconds required between each successful posture validation.
Session ID	Identifier for the session component (subsession). Each SA has its own identifier.
Session Type	Type of session: LAN-to-LAN or Remote
SQ Int (T)	Status Query Time Interval. Time in seconds allowed between each successful posture validation or status query response and the next status query response. A status query is a request made by the security appliance to the remote host to indicate whether the host has experienced any changes in posture since the last posture validation.
Status Query Time Interval	Time in seconds allowed between each successful posture validation or status query response and the next status query response. A status query is a request made by the security appliance to the remote host to indicate whether the host has experienced any changes in posture since the last posture validation.
Time Until Next Revalidation	0 if the last posture validation attempt was unsuccessful. Otherwise, the difference between the Revalidation Time Interval and the number of seconds since the last successful posture validation.
Tunnel Group	Name of the tunnel group referenced by this tunnel for attribute values.
UDP Dst Port	Port number used by the remote peer for UDP.
or UDP Destination Port	

Table 30-14 show vpn-sessiondb Command Fields

Field	Description
UDP Src Port or UDP Source Port	Port number used by the security appliance for UDP.
Username	User login name with which the session is established.
VLAN	Egress VLAN interface assigned to this session. The security appliance forwards all traffic to that VLAN. One of the following elements specifies the value:
	Group policy
	• Inherited group policy

Table 30-14show vpn-sessiondb Command Fields

Related Commands	Command	Description		
	show running-configuration vpn-sessiondb			
		configuration.		
	show vpn-sessiondb ratio	Displays VPN session encryption or protocol ratios.		
	show vpn-sessiondb summary	Displays a summary of all VPN sessions.		

show vpn-sessiondb ratio

To display the ratio of current sessions as a percentage by protocol or encryption algorithm, use the **show vpn-sessiondb ratio** command in privileged EXEC mode.

show vpn-sessiondb ratio {protocol | encryption} [filter groupname]

aes128 des aes192 3des aes256 rc4 filter Filters the output to include session ratios only for the tunnel group you specify. groupname Identifies the protocols you want to display. Protocols include: IKE SMTPS IMAP4S userHTTPS IPSec vcaLAN2LAN IPSecLAN2LAN IPSecLAN2LAN IPSecOverNatT IPSecOverTCP IPSecOverUDP IPSecOverUDP	Syntax Description	encryption	Identifies the encryption protocols you want to display. Refers to phase 2 encryption. Encryption algorithms include:						
re4 filter protocol protocol Identifies the protocols you want to display. Protocols include: IKE SMTPS IMAP4S userHTTPS IPSec vcaLAN2LAN IPSecLAN2LAN IPSecLAN2LAN IPSecOverNatT IPSecOverNatT IPSecOverVDP IPSecOverUDP Defaults No default behavior or values. Firewall Mode Firewall Mode Multiple Command Mode Privilege EXEC o - o Privilege EXEC o - o Command History			•••••••						
filter groupname Filters the output to include session ratios only for the tunnel group you specify. groupname Identifies the protocols you want to display. Protocols include: IKE SMTPS IMAP4S userHTTPS IPSec vcaLAN2LAN IPSecLAN2LAN IPSecLAN2LAN IPSecLAN2LAN IPSecOverNatT IPSecOverVDP IPSecOverUDP Defaults No default behavior or values. Firewall Mode Security Context Command Modes Firewall Mode Security Context System Privileged EXEC • - •			aes192		3des				
groupname Interviewent of the transport of transpor			aes256		rc4				
IKE SMTPS IMAP4S userHTTPS IPSec vcaLAN2LAN IPSecLAN2LANOverNatT IPSecOverNatT IPSecOverUDP IPSecOverUDP Defaults No default behavior or values. The following table shows the modes in which you can enter the command: Image: Security Context Image: Command Mode Privileged EXEC • Image: Command History Release Modification			Filters the outp	put to include	session ratios o	nly for the	tunnel group y	ou specify.	
IMAP4S userHTTPS IPSec vcaLAN2LAN IPSecLAN2LAN IPSecLAN2LANOverNatT IPSecOverNatT IPSecOverNatT IPSecOverUDP IPSecOverUDP Defaults No default behavior or values. The following table shows the modes in which you can enter the command: IPSecOverUDP Security Context IPSecOverUDP IPSecOverUDP IPSecOverUDP		protocol	Identifies the p	protocols you	want to display.	Protocols	include:		
IPSec vcaLAN2LAN IPSecLAN2LANOverNatT IPSecOverNatT IPSecOverUDP IPSecOverUDP Defaults No default behavior or values. The following table shows the modes in which you can enter the command: Example And Mode Firewall Mode Noted Transparent Privileged EXEC • Privileged EXEC • Modification			IKE		SMTPS				
IPSecLAN2LAN IPSecLAN2LANOverNatT IPSecOverNatT IPSecOverTCP IPSecOverUDP Defaults No default behavior or values. The following table shows the modes in which you can enter the command:			IMAP4S		userHTTPS				
IPSecLAN2LANOverNatT IPSecOverNatT IPSecOverUDP Defaults No default behavior or values. The following table shows the modes in which you can enter the command: Security Context Multiple Multiple Command Mode Routed Transparent Single Context System Privileged EXEC • • - • •			IPSec		vcaLAN2LAN	N			
IPSecOverNatT IPSecOverUDP Defaults No default behavior or values. Command Modes The following table shows the modes in which you can enter the command: Firewall Mode Security Context Multiple Multiple Command Mode Routed Transparent Single Context System Privileged EXEC • • - • • Release Modification			IPSecLAN2LA	AN					
IPSecoverTCP IPSecOverUDP Defaults No default behavior or values. Command Modes The following table shows the modes in which you can enter the command: Firewall Mode Security Context Command Mode Routed Transparent Single Ontext System Command History Release Modification Image: Command History Modification			IPSecLAN2LA	ANOverNatT					
IPSecOverUDP Defaults No default behavior or values. Command Modes The following table shows the modes in which you can enter the command: Firewall Mode Security Context Multiple Multiple Command Mode Routed Transparent Single Context System Privileged EXEC • • – • • Command History Release Modification Command Command <t< th=""><th></th><th></th><th colspan="7">IPSecOverNatT</th></t<>			IPSecOverNatT						
Defaults No default behavior or values. Command Modes The following table shows the modes in which you can enter the command: Firewall Mode Security Context Multiple Multiple Command Mode Routed Transparent Single Context System Privileged EXEC • • – • <th rowspan="2"></th> <th></th> <th>IPSecoverTCP</th> <th>,</th> <th></th> <th></th> <th></th> <th></th>			IPSecoverTCP	,					
Command Modes The following table shows the modes in which you can enter the command: Firewall Mode Security Context Multiple Multiple Context System Privileged EXEC • • — • Multiple Context System Privileged EXEC • • — • Command History Release Modification		IPSecOverUDP							
Command Mode Routed Transparent Single Multiple Privileged EXEC • • — — •	Defaults Command Modes			odes in whic	h you can enter	the comma	nd:		
Command Mode Routed Transparent Single Multiple Privileged EXEC • • — — •			Firewall Mode Security Context						
Command Mode Routed Transparent Single Context System Privileged EXEC • • - - •						-			
Command History Release Modification		Command Mor	le	Routed	Transparent	Single	Context	System	
			EC	•	•			•	
		Privileged EX			•	—		•	

Examples

The following is sample output for the **show vpn-sessiondb ratio** command, with **encryption** as the argument:

hostname# show vpn-sessiondb ratio enc Filter Group : All Total Active Sessions: 5 Cumulative Sessions : 9

Sessions		Percent
0		0%
1		20%
0		0%
4	80%	
0		0%
0		0%
	0 1 0 4 0	0 1 0 4 80% 0

The following is sample output for the **show vpn-sessiondb ratio** command with **protocol** as the argument:

hostname# show vpn-sess Filter Group : Total Active Sessions: Cumulative Sessions :	All 6	protocol
Protocol	Sessions	Percent
IKE	0	0%
IPSec	1	20%
IPSecLAN2LAN	0	0%
IPSecLAN2LANOverNatT	0	0%
IPSecOverNatT	0	0%
IPSecOverTCP	1 20%	
IPSecOverUDP	0	0%
L2TP	0	0%
L2TPOverIPSec	0	0%
L2TPOverIPSecOverNatT	0	0%
PPPoE	0	0%
vpnLoadBalanceMgmt	0	0%
userHTTPS	0	0%
IMAP4S	3 30%	
POP3S	0	0%
SMTPS	3 30%	

Related Commandss

Command	Description	
show vpn-sessiondb	Displays sessions with or without extended details, optionally filtered and sorted by criteria you specify.	
show vpn-sessiondb summary	Displays a session summary, including total current session, current sessions of each type, peak and total cumulative, maximum concurrent sessions	

show vpn-sessiondb summary

To display the number of IPSec, Cisco AnyConnect, and NAC sessions, use the **show vpn-sessiondb summary** command in privileged EXEC mode.

show vpn-sessiondb summary

Defaults No default behavior or values.

Command Modes The following table shows the modes in which you can enter the command:

	Firewall N	Firewall Mode		Security Context	
				Multiple	
Command Mode	Routed	Transparent	Single	Context	System
Privileged EXEC	•	•	—	_	•

Command History	Release	Modification
	7.3(0)	Added the VLAN Mapping Sessions table.
	7.2(1)	This command was introduced.
	8.0(5)	Added new output for active, cumulative, peak concurrent, and inactive.

Examples

The following is sample output for the **show vpn-sessiondb summary** command on an active device:

Note A device in standby does not differentiate active from inactive sessions.

```
hostname# show vpn-sessiondb summary
Active Session Summary
Sessions
                Active :Cumulative :Peak Concurrent :Inactive :
 SSL VPN : 0 : 1 : 1 :
   Clientless only 0 :
With client 6 :
                                               0:
                            0 :
                                                          0
                                               1 :
                             6 :
                                                          4
Totals
                    0 :
                              10
License Information:
   Shared VPN License Information:
                                  : 12000
      SSL VPN
          Allocated to this device : 0
          Allocated to network
                                 :
                                      0
          Device limit
                                  : 750
          750
                Configured :750 Active : 0
                                               Load : 0%
IPsec :
                Configured :750
SSL VPN :
          750
                                 Active : 0
                                             Load : 0%
                    Active : Cumulative : Peak Concurrent
SSL VPN
             :
                       6 :
                                1 :
                                               1
                       0 :
                                  10 :
Totals
             :
```

Active NAC Sessions:		
Accepted	:	0
Rejected	:	0
Exempted	:	0
Non-responsive	:	0
Hold-off :	0	
N/A	:	0
Active VLAN Mapping Sessi	Loi	ns:
Active VLAN Mapping Sessi Static	Loi :	ns: 0
		0
Static	:	0 0
Static Auth	:	0 0
Static Auth Access	: : :	0 0 0 0
Static Auth Access Guest	: : :	0 0 0 0

F1-asa1#

A session is a VPN tunnel established with a specific peer. An IPSec LAN-to-LAN tunnel counts as one session, and it allows many host-to-host connections through the tunnel. An IPSec remote access session is one remote access tunnel that supports one user connection.

The Active SSL VPN With Client column shows the number of active SSL tunnel sessions that are able to pass data. The Inactive column shows sessions that have lost the SSL tunnel session and are not able to pass data. The inactive session may resume a connection at a later point. Inactive sessions are not reported, for load balancing purposes, as a load to the master. For example, if a cluster member has 10 total sessions, 6 of which are active and 4 inactive, the load reported to the master is 6 sessions.

The Total SSL VPN column shows both Active and Inactive sessions.



Both Active and Inactive sessions take up a license just like before. Any existing session on the device will take a license irrespective of the state.

The Cumulative SSL VPN With Client column shows the number of active sessions that have been established. The Peak Concurrent SSL VPN With Client column shows the peak number of concurrently active sessions that are passing data.

Table 30-15 explains the fields in the Active Sessions and Session Information tables.

Field Description	
Concurrent Limit	Maximum number of concurrently active sessions permitted on this security appliance.
Cumulative Sessions	Number of sessions of all types since the security appliance was last booted or reset.
LAN-to-LAN	Number of IPSec LAN-to-LAN sessions that are currently active.
Peak Concurrent	Highest number of sessions of all types that were concurrently active since the security appliance was last booted or reset.

 Table 30-15
 show vpn-sessiondb summary Command: Active Sessions and Session Information

 Fields
 Fields

Field	Description
Percent Session Load	Percentage the vpn session allocation in use. This value equals the Total Active Sessions divided by the maximum number of sessions available, displayed as a percentage. The maximum number of sessions available can be either of the following:
	• Maximum number of IPSec and SSL VPN sessions licensed.
	• Maximum number of sessions configured using the following commands:
	 vpn-sessiondb max-session-limit
	 vpn-sessiondb max-webvpn-session-limit
Remote Access	Number of PPTP, L2TP, IPSec remote-access user, L2TP over IPSec, and IPSec through NAT sessions that are currently active.
Total Active Sessions	Number of sessions of all types that are currently active.

Table 30-15	show vpn-sessiondb summary Command: Active Sessions and Session Information
	Fields

The Active NAC Sessions table shows general statistics about remote peers that are subject to posture validation.

The Cumulative NAC Sessions table shows general statistics about remote peers that are or have been subject to posture validation.

Table 30-14 explains the fields in the Active NAC Sessions and Total Cumulative NAC Sessions tables.

Table 30-16	show vpn-sessiondb summary Command: Active NAC Sessions and Total Cumulative
	NAC Sessions Fields

Field	Description	
Accepted	Number of peers that passed posture validation and have been granted an access policy by an Access Control Server.	
Exempted	Number of peers that are not subject to posture validation because they match an entry in the Posture Validation Exception list configured on the security appliance.	
Hold-off	Number of peers for which the security appliance lost EAPoUDP communications after a successful posture validation. The NAC Hold Timer attribute (Configuration > VPN > NAC) determines the delay between this type of event and the next posture validation attempt for each peer.	
N/A	Number of peers for which NAC is disabled according to the VPN NAC group policy.	
Non-responsive	Number of peers not responsive to Extensible Authentication Protocol (EAP) over UDP requests for posture validation. Peers on which no CTA is running do not respond to these requests. If the security appliance configuration supports clientless hosts, the Access Control Server downloads the access policy associated with clientless hosts to the security appliance for these peers. Otherwise, the security appliance assigns the NAC default policy.	
Rejected	Number of peers that failed posture validation or were not granted an access policy by an Access Control Server.	

The Active VLAN Mapping Sessions table shows general statistics about remote peers that are subject to posture validation.

The Cumulative VLAN Mapping Sessions table shows general statistics about remote peers that are or have been subject to posture validation.

Table 30-17 explains the fields in the Active VLAN Mapping Sessions and Cumulative VLAN Mapping Sessions tables.

Table 30-17show vpn-sessiondb summary Command: Active VLAN Mapping Sessions and
Cumulative Active VLAN Mapping Sessions Fields

Field	Description	
Access	Reserved for future use.	
Auth	Reserved for future use.	
Guest	Reserved for future use.	
N/A	Reserved for future use.	
Quarantine	Reserved for future use.	
Static	This field shows the number of VPN sessions assigned to a pre-configured VLAN.	

Related Commands	Command	Description
	show vpn-sessiondb	Displays sessions with or without extended details, optionally filtered and sorted by criteria you specify.
	show vpn-sessiondb ratio	Displays VPN session encryption or protocol ratios.

show wccp

To display global statistics related to Web Cache Communication Protocol (WCCP), use the **show wccp** command in privileged EXEC mode.

show wccp {web-cache | service-number}[detail | view]

Syntax Description	web-cache	Specifies	statistics	for the web-cacl	he service.			
	service-number	(Optional) Identification number of the web-cache service group being controlled by the cache. The number can be from 0 to 256. For web caches using Cisco Cache Engines, the reverse proxy service is indicated by a value of 99.						
	detail	(Optional	l) Display	s information ab	out the rou	ter and all web	caches.	
	view	· •	l) Display been dete	s other members cted.	of a partic	ular service gr	oup have or	
Defaults	This command is d	lisabled by defau	lt.					
Command Modes	The following table	e shows the mode	es in whic	h you can enter	the comma	nd:		
		F	Firewall N	lode	Security C	ontext		
						Multiple		
	Command Mode	F	Routed	Transparent	Single	Context	System	
	Privileged EXEC		•	•	•	•		
Command History	Release Modification							
	7.2(1)	This com	mand was	s introduced.				
Examples	Protocol Service Iden Number o: Number o:	# show wccp rmation: mation: dentifier: Version: tifier: web-cac f Cache Engines f routers:	he ::	-not yet 2.0 0 0	tion: determine	d-		
	Number of Cache Engines: Number of routers: Total Packets Redirected: Redirect access-list: Total Connections Denied Redirect: Total Packets Unassigned: Group access-list: Total Messages Denied to Group:			0 foo				

Total Authentication failures: 0 Total Bypassed Packets Received: 0 hostname(config)#

Related Commands

5	Commands	Description
	wccp	Enables support of WCCP with service groups.
	wccp redirect	Enables support of WCCP redirection.

show webvpn csd

To determine whether CSD is enabled and, if so, display the CSD version in the running configuration, or test a file to see if it is a valid CSD distribution package, use the **show webvpn csd** command in privileged EXEC mode.

show webvpn csd [image filename]

Syntax Description	filenameSpecifies the name of a file to test for validity as a CSD distribution paceIt must take the form securedesktop_asa_ <n>_<n>*.pkg.</n></n>							
lefaults	No default behavi	or or values						
Command Modes	The following tab	le shows the	modes in whic	h you can enter	the comma	ind:		
			Firewall N	lode	Security C	Context		
						Multiple		
	Command Mode		Routed	Transparent	Single	Context	System	
	privileged EXEC mode		•	—	•	—		
ommand History	Release Modification							
	7.1(1) This command was introduced.							
sage Guidelines	Use the show webvpn csd command to check the operational status of CSD. The CLI responds with one of the following messages when you enter this command:							
	 Secure Desktop is not enabled. CSD is in the running configuration, but it is disabled. Go to webvpn configuration mode and enter the csd enable command to enable CSD. 							
	• Secure Desktop version <i>n.n.n.n</i> is currently installed and enabled.							
	CSD is enabled. The distribution package read from the flash device determines the version number. You can access Cisco Secure Desktop Manager through the ASDM Configuration > CSD menu path. CSD is accessible to users only if the CSD configuration contains a location.							
	Use the show webvpn csd image command to test a file to see if it is a valid CSD distribution package. Similarly, the csd image command, when entered in webvpn configuration mode, installs CSD only if the file you name in the command is a valid CSD distribution package. Otherwise, it displays an "ERROR: Unable to use CSD image" message.							

The **show webvpn csd image** command tests a file to see if it is a valid CSD distribution package without installing CSD automatically if the file is valid. The CLI responds with one of the following messages when you enter this command:

• ERROR: This is not a valid Secure Desktop image file.

Make sure the filename is in the form the form securedesktop_asa_<n>_<n>*.pkg. If it is, replace the file with a fresh one obtained from the following website:

http://www.cisco.com/cisco/software/navigator.html

Then reenter the **show webvpn csd image** command. If the image is valid, use the **csd image** and **csd enable** commands in webvpn configuration mode to install and enable CSD.

• This is a valid Cisco Secure Desktop image: Version : 3.1.0.25 Built on : Wed 10/19/2005 14:51:23.82

Note that the CLI provides both the version and date stamp if the file is valid.

Examples

The following example indicates CSD is installed in the running configuration and enabled:

hostname# show webvpn csd Secure Desktop version 3.1.0.25 is currently installed and enabled. hostname#

The following example shows the file specified is a valid CSD image:

hostname#show webvpn csd image securedesktop_asa_3_1_0_25.pkg

This is a valid Cisco Secure Desktop image: Version : 3.1.0.25 Built on : Wed 10/19/2005 14:51:23.82

hostname#

Related Commands

Command	Description
csd enable	Enables CSD for management and remote user access.
csd image	Copies the CSD image named in the command, from the flash drive specified in the path to the running configuration.

show webvpn group-alias

To display the aliases for a specific tunnel-group or for all tunnel groups, use the **group-alias** command in privileged EXEC mode.

show webvpn group-alias [tunnel-group]

Syntax Description	tunnel-group	(Optional) Specifie aliases.	es a particular tu	nnel group	for which to sl	now the group		
Defaults	If you do not enter a tunn	nel-group name, this	command displa	iys all the a	lliases for all th	e tunnel groups		
Command Modes	The following table show	vs the modes in whic	h you can enter	the comma	ind:			
		Firewall N	lode	Security (Context			
				-	Multiple			
	Command Mode	Routed	Transparent	Single	Context	System		
	Privileged EXEC	•		•				
Usage Guidelines	7.1 WebVPN must be runnin Each tunnel group can ha		e show webvpn	group-alia	as command.			
Examples	The following example shows the show webvpn group-alias command that displays the aliases for the tunnel group "devtest" and the output of that command:							
	hostname# show webvpn QA Fra-QA	group-alias devte:	ŝt					
Related Commands	Command	Description						
	group-alias	-	e or more URLs	-	1			
	tunnel-group webvpn-attributes	Enters the c tunnel-grou	onfig-webvpn m p attributes.	node for con	nfiguring Web	VPN		

show webvpn group-url

To display the URLs for a specific tunnel-group or for all tunnel groups, use the **group-url** command in privileged EXEC mode.

show webvpn group-url [tunnel-group]

Syntax Description	tunnel-group	(Optional) Specifies a particular tunnel group for which to show the URI						
Defaults	If you do not enter a tur	nnel-group name, this	command displa	ays all the	URLs for all th	e tunnel groups		
Command Modes	The following table sho	ows the modes in whic	h you can enter	the comma	nd:			
		Firewall N	lode	Security (Context			
				-	Multiple			
	Command Mode	Routed	Transparent	Single	Context	System		
	Privileged EXEC	•		•				
Command History	Release Modification							
	7.1(1)This command was introduced.							
Usage Guidelines	WebVPN must be runni multiple URLs or no U		snow webvpn g	group-uri c	ommand. Each			
Examples	The following example	shows the show web		ommand th	at displays the			
Examples	-	shows the show web " and the output of the		ommand th	at displays the			
	The following example tunnel group "frn-engl" hostname# show webvpn http://www.cisco.com https://fra1.vpn.com	shows the show web " and the output of the		ommand th	at displays the			
Examples Related Commands	The following example tunnel group "frn-engl" hostname# show webvpn http://www.cisco.com https://fra1.vpn.com https://fra2.vpn.com	shows the show web " and the output of than group-url Description Specifies or		s for the gro	oup.	e URLs for the		

show webvpn sso-server

To display the operating statistics for Webvpn single sign-on servers, use the **show webvpn sso-server** command in privileged EXEC mode.

show webvpn sso-server [name]

Syntax Description	<i>name</i> Optionally specifies the name of the SSO server. The server name must be between four and 31 characters in length.							
Defaults	No default values or behavior.							
Command Modes	The following table shows the	modes in whic	ch you can enter	the comma	und:			
		Firewall N	/lode	Security (Context			
					Multiple			
	Command Mode	Routed	Transparent	Single	Context	System		
	config-webvpn-sso-saml	•		•	—	—		
	config-webvpn-sso-siteminde	r •	—	•	—	—		
	Privileged EXEC	•	—	•				
ommand History	Release Modification							
	7.1(1)This command was introduced.							
Jsage Guidelines	Single sign-on support, availad different servers without enter sso-server command displays device.	ing a username operating statis	e and password n stics for any and	nore than o all SSO ser	nce. The show vers configure	webvpn		
	If no SSO server name argument is entered, statistics for all SSO servers display.							
xamples	The following example, entered in privileged EXEC mode, displays statistics for a SiteMinder-type SSC server named example:							
	hostname# show webvpn sso Name: example Type: SiteMinder Authentication Scheme Vers Web Agent URL: http://www. Number of pending requests Number of auth requests: Number of retransmissions: Number of accepts:	ion: 1.0 example.com/w						

Number of rejects: 0 Number of timeouts: 0 Number of unrecognized responses: 0 hostname#

The following example of the command issued without a specific SSO server name, displays statistics for all configured SSO servers on the security appliance:

hostname#(config-webvpn)# show webvpn sso-server Name: high-security-server Type: SAML-v1.1-POST Assertion Consumer URL: Issuer: Number of pending requests: 0 Number of auth requests: 0 Number of retransmissions: 0 Number of accepts: 0 Number of rejects: 0 Number of timeouts: 0 Number of unrecognized responses: 0 Name: my-server Type: SAML-v1.1-POST Assertion Consumer URL: Tssuer: Number of pending requests: 0 Number of auth requests: 0 Number of retransmissions: 0 Number of accepts: 0 Number of rejects: 0 Number of timeouts: 0 Number of unrecognized responses: 0 Name: server Type: SiteMinder Authentication Scheme Version: 1.0 Web Agent URL: Number of pending requests: 0 Number of auth requests: 0 Number of retransmissions: 0 Number of accepts: 0 Number of rejects: 0 Number of timeouts: 0 Number of unrecognized responses: 0 asa1(config-webvpn)#

Related Commands	Command	Description		
	max-retry-attempts	Configures the number of times the security appliance retries a failed SSO authentication attempt.		
	policy-server-secretCreates a secret key used to encrypt authentication re a SiteMinder-type SSO server.			
	request-timeout	Specifies the number of seconds before a failed SSO authentication attempt times out.		
	sso-server	Creates a single sign-on server.		
	web-agent-url	Specifies the SSO server URL to which the security appliance makes SiteMinder SSO authentication requests.		

show webvpn svc

To view information about SSL VPN client images installed on the security appliance and loaded in cache memory, or to test a file to see if it is a valid client image, use the **show webvpn svc** command from privileged EXEC mode.

show webvpn svc [image filename]

yntax Description	image <i>filename</i> Specifies the name of a file to test as an SSL VPN client image file.								
efaults	This command has no	o default be	ehavior or val	ues.					
ommand Modes	The following table s	shows the n	nodes in whic	h you can enter	the comma	nd:			
			Firewall N	lode	Security C	Context			
						Multiple			
	Command Mode		Routed	Transparent	Single	Context	System		
	Global configuration	1	•		•				
mmand History	Release Modification								
	7.1(1)	7.1(1) This command was introduced.							
	in cache memory and available for download to remote PCs. Use the image <i>filename</i> keyword and argument to test a file to see if it is a valid image. If the file is not a valid image, the following messag appears:								
	ERROR: This is not a valid SSL VPN Client image file.								
xamples	The following example shows the output of the show webvpn svc command for currently installed images:								
	hostname# show web 1. windows.pkg 1 SSL VPN Client CISCO STC win2k+ 1	-							

The following example shows the output of the **show webvpn svc image** *filename* command for a valid image:

F1(config-webvpn)# show webvpn svc image sslclient-win-1.0.2.127.pkg

```
This is a valid SSL VPN Client image:
CISCO STC win2k+ 1.0.0
1,0,2,127
Fri 07/22/2005 12:14:45.43
```

Related Commands	Command	Description
	svc enable	Enables the security appliance to download the SSL VPN client to remote PCs.
	svc image	Causes the security appliance to load SSL VPN client files from flash memory to cache memory, and specifies the order in which the security appliance downloads portions of the client image to the remote PC as it attempts to match the client image with the operating system.
	vpn-tunnel-protocol	Enables specific VPN tunnel protocols for remote VPN users, including SSL used by an SSL VPN client.

show xlate

To display information about the translation slots, use the **show xlate** command in privileged EXEC mode.

show xlate [global ip1[-ip2] [netmask mask]] [local ip1[-ip2] [netmask mask]]
[gport port1[-port2]] [lport port1[-port2]] [interface if_name] [state state] [debug] [detail]

show xlate count

Syntax Description	count	Displays the translation count.					
	debug	(Optional) Displays xlate debug information.					
	detail	(Optional) Displays detail xlate information.					
	global ip1[-ip2]	(Optional) Displays the active translations by global IP address or range of addresses.					
	<pre>gport port1[-port2]</pre>	Displays the active translations by the global port or range of ports.					
	interface <i>if_name</i>	(Optional) Displays the active translations by interface.					
	local ip1[-ip2]	(Optional) Displays the active translations by local IP address or range of addresses.					
	<pre>lport port1[-port2]</pre>	Displays the active translations by local port or range of ports.					
	netmask mask	(Optional) Specifies the network mask to qualify the global or local IP addresses.					
	state state	(Optional) Displays the active translations by state. You can enter one or more of the following states:					
		• static—specifies static translations.					
		• portmap —specifies PAT global translations.					
		• norandomseq —specifies a nat or static translation with the norondomseq setting.					
		• identity—specifies nat 0 identity address translations.					
		When specifying more than one state, separate the states with a space.					

Defaults No default behavior or values.

Command Modes The following table shows the modes in which you can enter the command:

	Firewall Mo	le	Security Context		
				Multiple	
Command Mode	Routed	Transparent	Single	Context	System
Privileged EXEC	•	•	•	•	—

Command History	Release	Modification
	Preexisting	This command was preexisting.

Usage Guidelines

The **show xlate** command displays the contents of the translation slots. The **show xlate detail** command displays the following information:

- {ICMP|TCP|UDP} PAT from interface:real-address/real-port to interface:mapped-address/mapped-port flags translation-flags
- **NAT from** *interface:real-address/real-port to interface:mapped-address/mapped-port* **flags** *translation-flags*

The translation flags are defined in Table 30-18.

Table 30-18 Translation Flags

Flag	Description		
S	Static translation slot		
d	Dump translation slot on next cleaning cycle		
r	Port map translation (Port Address Translation)		
n	No randomization of TCP sequence number		
i	Inside address translation		
D	DNS A RR rewrite		
Ι	Identity translation from nat 0		



When the **vpnclient** configuration is enabled and the inside host is sending out DNS requests, the **show xlate** command may list multiple xlates for a static translation.

Examples

The following is sample output from the **show xlate** command. It shows how translation slot information with three active PATs.

hostname# **show xlate**

```
3 in use, 3 most used
PAT Global 192.150.49.1(0) Local 10.1.1.15 ICMP id 340
PAT Global 192.150.49.1(1024) Local 10.1.1.15(1028)
PAT Global 192.150.49.1(1024) Local 10.1.1.15(516)
```

The following is sample output from the **show xlate detail** command. It shows the translation type and interface information with three active PATs.

The first entry is a TCP PAT for host port (10.1.1.15, 1025) on the inside network to host-port (192.150.49.1, 1024) on the outside network. The r flag indicates that the translation is a PAT. The i flag indicates that the translation applies to the inside address port.

The second entry is a UDP PAT for host port (10.1.1.15, 1028) on the inside network to host port (192.150.49.1, 1024) on the outside network. The r flag indicates that the translation is a PAT. The i flag indicates that the translation applies to the inside address port.

The third entry is an ICMP PAT for host-ICMP-id (10.1.1.15, 21505) on the inside network to host-ICMP-id (192.150.49.1, 0) on the outside network. The r flag indicates that the translation is a PAT. The i flag indicates that the translation applies to the inside address ICMP ID.

The inside address fields appear as source addresses on packets traversing from the more secure interface to the less secure interface. They appear as destination addresses on packets traversing from the less secure interface to the more secure interface.

hostname# show xlate detail

```
3 in use, 3 most used
Flags: D - DNS, d - dump, I - identity, i - dynamic, n - no random,
        r - portmap, s - static
TCP PAT from inside:10.1.1.15/1026 to outside:192.150.49.1/1024 flags ri
UDP PAT from inside:10.1.1.15/1028 to outside:192.150.49.1/1024 flags ri
ICMP PAT from inside:10.1.1.15/21505 to outside:192.150.49.1/0 flags ri
```

The following is sample output from the **show xlate** command. It shows two static translations. The first translation has one associated connection (called "nconns"), and the second translation has four associated connections.

hostname# show xlate

```
Global 209.165.201.10 Local 209.165.201.10 static nconns 1 econns 0 Global 209.165.201.30 Local 209.165.201.30 static nconns 4 econns 0
```

Related Commands	Command	Description
	clear xlate	Clears current translation and connection information.
	show conn	Displays all active connections.
	show local-host	Displays the local host network information.
	show uauth	Displays the currently authenticated users.