



default (crl configure) through dynamic-access-policy-record Commands

default (crl configure)

To return all CRL parameters to their system default values, use the **default** command in crl configure configuration mode. The crl configuration mode is accessible from the crypto ca trustpoint configuration mode. These parameters are used only when the LDAP server requires them.

default

Syntax Description	This command l	has no arguments	or keywords.
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Defaults No default behaviors or values.

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

	Firewall M	lode	Security Context		
				Multiple	
Command Mode	Routed	Transparent	Single	Context	System
Crl configure configuration	•		•		

Command History	Release	Modification
	7.0	This command was introduced.

Usage Guidelines Invocations of this command do not become part of the active configuration.

Examples The following example enters ca-crl configuration mode, and returns CRL command values to their defaults:

hostname(config)# crypto ca trustpoint central
hostname(ca-trustpoint)# crl configure
hostname(ca-crl)# default
hostname(ca-crl)#

Related Commands	Command	Description
	crl configure	Enters crl configure configuration mode.
crypto ca trustpoin		Enters trustpoint configuration mode.
	protocol ldap	Specifies LDAP as a retrieval method for CRLs.

default (interface)

To return an interface command to its system default value, use the **default** command in interface configuration mode.

default command

Syntax Description	<i>command</i> Specifies the command that you want to set to the default. For example:								
	default activation key								
Defaults	No default behav	iors or values.							
Command Modes	The following table shows the modes in which you can enter the command:								
			Firewall N	lode	Security C	ontext			
						Multiple			
	Command Mode		Routed	Transparent	Single	Context	System		
	Interface configu	ration	•	•	•	•			
Command History	Release 7.0(1)		fication command was	s introduced.					
Usage Guidelines	This command is	a run-time co	mmand; when	you enter it, it c	loes not be	come part of th	ne active		
	configuration.								
Examples	The following ex-	ample enters in	nterface confi	guration mode, a	nd returns	the security lev			
Examples	-)# interface	gigabitethe	rnet 0/0	nd returns	the security lev			
Examples Related Commands	The following exhostname (config) # interface -if) # defaul (gigabitethe	rnet 0/0	nd returns	the security lev			

default (time-range)

To restore default settings for the **absolute** and **periodic** commands, use the **default** command in time-range configuration mode.

default {**absolute** | **periodic** *days-of-the-week time* **to** [*days-of-the-week*] *time*}

Syntax Description	absolute	Defines an ab	solute time	when a time ran	ge is in eff	ect.				
	days-of-the-week	 f-the-week The first occurrence of this argument is the starting day or day of the week that the associated time range is in effect. The second occurrence is the ending day or day of the week the associated statement is in effect. This argument is any single day or combinations of days: Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, and Sunday. Other possible values are: 								
		 daily—Monday through Sunday 								
		• weekdays	s—Monday	through Friday						
		• weekend-	—Saturday a	and Sunday						
		If the ending can omit them		week are the san	ne as the st	arting days of	the week, you			
	periodic	Specifies a ree feature.	curring (wee	ekly) time range	for functio	ns that support	the time-range			
	time	Specifies the time in the format HH:MM. For example, 8:00 is 8:00 a.m. and 20:00 is 8:00 p.m.								
	to	to Entry of the to keyword is required to complete the range "from start-time to end-time."								
Defaults Command Modes	There are no default settings for this command. The following table shows the modes in which you can enter the command:									
			Context							
			Firewall M			Multiple				
	Command Mode		Routed	Transparent	Single	Context	System			
	Time-range config	guration	•	•	•	•				
Command History	Release	Modific								
	7.0	This co	ommand was	s introduced.						
Usage Guidelines	If the end days-of-	the-week value	e is the same	e as the start valu	ie, you can	omit them.				

If a **time-range** command has both **absolute** and **periodic** values specified, then the **periodic** commands are evaluated only after the **absolute start** time is reached, and are not further evaluated after the **absolute end** time is reached.

The time-range feature relies on the system clock of the security appliance; however, the feature works best with NTP synchronization.

Examples The following example shows how to restore the default behavior of the **absolute** keyword:

hostname(config-time-range) # default absolute

Related Commands	Command	Description
	absolute	Defines an absolute time when a time range is in effect.
	periodic	Specifies a recurring (weekly) time range for functions that support the time-range feature.
	time-range	Defines access control to the security appliance based on time.

default-acl

To specify the ACL to be used as the default ACL for NAC Framework sessions that fail posture validation, use the **default-acl** command in nac-policy-nac-framework configuration mode. To remove the command from the NAC policy, use the **no** form of the command.

[no] default-acl acl-name

SyntaDescription	acl-name	Name	s the access c	control list to be	applied to	the session.		
Defaults	No default behavior o	or values.						
Command Modes	The following table s	hows the m	nodes in whic	h you can enter	the comma	nd:		
			Firewall M	lode	Security C	Context		
	Command Mode		Routed	Transparent	Single	Multiple Context	System	
	nac-policy-nac-frame configuration	ework	•		•			
Command History	Release Modification							
	7.3(0)"nac-" removed from command name. Command moved from group-policy configuration mode to nac-policy-nac-framework configuration mode.							
	7.2(1)This command was introduced.							
Usage Guidelines	Each group policy points to a default ACL to be applied to hosts that match the policy and are eligible for NAC. The security appliance applies the NAC default ACL before posture validation. Following posture validation, the security appliance replaces the default ACL with the one obtained from the Access Control Server for the remote host. It retains the default ACL if posture validation fails.							
	The security appliance also applies the NAC default ACL if clientless authentication is enabled (which is the default setting).							
Examples	The following examp hostname(config-gro hostname(config-gro	oup-policy)# default-a		ied before	posture valida	ion succeeds:	
	The following examp hostname(config-gro hostname(config-gro	oup-policy)# no defau]	•	oup policy.			

Relatedommands

S	Command	Description
	nac-policy	Creates and accesses a Cisco NAC policy, and specifies its type.
	nac-settings	Assigns a NAC policy to a group policy.
	debug nac	Enables logging of NAC Framework events
	show vpn-session_summary.db	Displays the number IPSec, WebVPN, and NAC sessions.
	show vpn-session.db	Displays information about VPN sessions, including NAC results.

default enrollment

To return all enrollment parameters to their system default values, use the **default enrollment** command in crypto ca trustpoint configuration mode.

default enrollment

Syntax Description	This command has no arguments or keywords.							
Defaults	No default behavior or v	alues.						
Command Modes	The following table show	vs the modes in whic	ch you can enter	the comma	ind:			
		Firewall N	lode	Security (Context			
					Multiple			
	Command Mode	Routed	Transparent	Single	Context	System		
	Crypto ca trustpoint configuration	•	•	•	•	•		
Command History	Release	Modification						
	7.0	This command was	s introduced.					
Usage Guidelines	Invocations of this comm	nand do not become	part of the active	e configura	tion.			
Examples		The following example enters crypto ca trustpoint configuration mode for trustpoint central, and returns all enrollment parameters to their default values within trustpoint central:						
	hostname <config># crypto ca trustpoint central hostname<ca-trustpoint># default enrollment hostname<ca-trustpoint>#</ca-trustpoint></ca-trustpoint></config>							
Related Commands	Command	Description						
	clear configure crypto	Removes all trustp	oints.					
	ca trustpoint crl configure	Enters crl configur	ration mode					
	crypto ca trustpoint	Enters trustpoint co		de				
		Enters trastpolit e						

default-domain

To set a default domain name for users of the group policy, use the **default-domain** command in group-policy configuration mode. To delete a domain name, use the **no** form of this command.

default-domain {value domain-name | none}

no default-domain [domain-name]

Syntax Description	noneIndicates that there is no default domain name. Sets a default domain name with a null value, thereby disallowing a default domain name. Prevents inheriting a default domain name from a default or specified group policy.								
	value domain-name								
Defaults No default behavior or values.									
Command Modes	The following table sho	ows the m	nodes in whic	h you can enter	the comma	nd:			
			Firewall N	lode	Security C	Context			
	Command Mode		Routed	Transparent	Single	Multiple Context	System		
	Group-policy configura	ation	•		•				
Command History	Release Modification								
	7.0(1)	This c	command was	s introduced.					
Usage Guidelines	To prevent users from in	nheriting	a domain na	me, use the defa	ult-domai	n none comma	ınd.		
	The security appliance passes the default domain name to the IPSec client to append to DNS queries that omit the domain field. This domain name applies only to tunneled packets. When there are no default domain names, users inherit the default domain name in the default group policy.								
	You can use only alphanumeric characters, hyphens (-), and periods (.) in default domain names.								
Examples	The following example shows how to set a default domain name of FirstDomain for the group policy named FirstGroup:								
LAGIIIpres	hostname(config)# group-policy FirstGroup attributes hostname(config-group-policy)# default-domain value FirstDomain								

Related Commands

Command	Description
split-dns	Provides a list of domains to be resolved through the split tunnel.
split-tunnel-network-list	Identifies the access list the security appliance uses to distinguish networks that require tunneling and those that do not.
split-tunnel-policy	Lets an IPSec client conditionally direct packets over an IPSec tunnel in encrypted form, or to a network interface in cleartext form.

default-group-policy

To specify the set of attributes that the user inherits by default, use the **default-group-policy** command in tunnel-group general-attributes configuration mode. To eliminate a default group policy name, use the **no** form of this command.

default-group-policy group-name

no default-group-policy group-name

Syntax Description	group-name	Specifi	es the name	of the default g	roup.				
Defaults	The default group	name is DfltGr	pPolicy.						
Command Modes	The following table	e shows the mo	odes in whic	h you can enter	the comma	und:			
			Firewall N	lode	Security (
	Command Mode		Routed	Transparent	Single	Multiple Context	System		
	Tunnel-group gene	eral-attributes	•		•				
Command History	Version	Modific	ation						
	7.0(1) This command was introduced.								
	7.1(1)	depreca	ated. The de	-policy comman fault-group-pol node replaces it.	licy comma				
Usage Guidelines	In Version 7.1(1), if command in tunnel	-			uration mod	de, it is transfor	med to the same		
	The default group J You can apply this				l configura	tion of the secu	arity appliance.		
Examples	The following exar users to inherit by c commands defines address pools.	lefault for an Il	PSec LAN-t	o-LAN tunnel g	roup named	l "standard-pol	icy". This set of		
	hostname(config) hostname(config) hostname(config-t hostname(config-t hostname(config-t hostname(config-t	tunnel-grou tunnel-genera tunnel-genera	p standard 1)# default 1)# account 1)# address	policy general -group-policy ing-server-gro -pool (inside)	l-attribut first-pol pup aaa-se) addrpool	icy rver123 1 addrpool2 a	ddrpool3		

hostname(config-tunnel-general)# authorization-server-group aaa-server78
hostname(config-tunnel-general)#

Related Commands	Command	Description
	clear-configure tunnel-group	Clears all configured tunnel groups.
	group-policy	Creates or edits a group policy
	show running-config tunnel group	Shows the tunnel group configuration for all tunnel groups or for a particular tunnel group.
	tunnel-group general-attributes	Specifies the general attributes for the named tunnel-group.

default-group-policy (webvpn)

To specify the name of the group policy to use when the WebVPN or e-mail proxy configuration does not specify a group policy, use the **default-group-policy** command in various configuration modes. To remove the attribute from the configuration, use the **no** version of this command.

default-group-policy groupname

no default-group-policy

Syntax Description	groupname		1	ously configured oup-policy com	0 11	•	0 1
Defaults	A default group policy default-group-policy policy for WebVPN ar	command l	ets you sub	stitute a group p	olicy that y	ou create as th	e default group
Command Modes	The following table sh	nows the mo	odes in whic	ch you can enter	the comma	ind:	
			Firewall N	Node	Security (Context	
						Multiple	
	Command Mode		Routed	Transparent	Single	Context	System
	Webvpn configuration	ı	•	—	•	—	
	Imap4s configuration		•	—	•		
	Pop3s configuration		•	—	•		
	Smtps configuration		•	—	•		_
Command History	Version	Modifi	cation				
	7.0(1)	This co	ommand wa	s introduced.			
	7.1(1)			s deprecated in v neral-attributes			le and moved
Usage Guidelines	WebVPN, IMAP4S, P For WebVPN, use this e-mail proxy mode.			-	-		
	In Version 7.1(1), if yo command in tunnel-gr				uration mod	de, it is transfor	med to the same

Attribute	Default Value
wins-server	none
dns-server	none
dhcp-network-scope	none
vpn-access-hours	unrestricted
vpn-simultaneous-logins	3
vpn-idle-timeout	30 minutes
vpn-session-timeout	none
vpn-filter	none
vpn-tunnel-protocol	WebVPN
ip-comp	disable
re-xauth	disable
group-lock	none
pfs	disable
client-access-rules	none
banner	none
password-storage	disabled
ipsec-udp	disabled
ipsec-udp-port	0
backup-servers	keep-client-config
split-tunnel-policy	tunnelall
split-tunnel-network-list	none
default-domain	none
split-dns	none
intercept-dhcp	disable
client-firewall	none
secure-unit-authentication	disabled
user-authentication	disabled
user-authentication-idle-timeout	none
ip-phone-bypass	disabled
leap-bypass	disabled
nem	disabled
webvpn attributes:	
filter	none
functions	disabled
homepage	none
html-content-filter	none
port-forward	disabled
port-forward-name	none
url-list	none

You can edit, but not delete the system DefaultGroupPolicy. It has the following AVPs:

Examples

The following example shows how to specify a default group policy called WebVPN7 for WebVPN:

hostname(config)# webvpn
hostname(config-webvpn)# default-group-policy WebVPN7

default-idle-timeout

To set a default idle timeout value for WebVPN users, use the **default-idle-timeout** command in webvpn configuration mode. To remove the default idle timeout value from the configuration and reset the default, use the **no** form of this command.

The default idle timeout prevents stale sessions.

default-idle-timeout seconds

no default-idle-timeout

Syntax Description	-	pecifies the numb conds, maximum			ime out. The m	inimum is 60
Defaults	1800 seconds (30 minutes).					
Command Modes	The following table shows the	ne modes in whic	ch you can enter	the comma	und:	
		Firewall N	Node	Security (Context	
					Multiple	
	Command Mode	Routed	Transparent	Single	Context	System
	Webvpn configuration	•	_	•		
Command History	Release M	odification				
	7.0 Tł	is command was	s introduced.			
Usage Guidelines	The security appliance uses value is 0, or if the value doe We recommend that you set t cookies (or one that prompts nevertheless appearing in the	es not fall into th his command to for cookies and sessions databas	e valid range. a short time perio then denies ther se. If the maximu	od. This is t n) can resu 1m number	because a brow It in a user not of connections	ser set to disable connecting but permitted is set
	to one (vpn-simultaneous-ld that the maximum number of phantom sessions quickly, an	f connections alr	eady exists. Sett	-		
Examples	The following example show	s how to set the	default idle time	eout to 120	0 seconds (20 i	minutes):
	hostname(config)# webvpn hostname(config-webvpn)#	default-idle-t	imeout 1200			

Related Commands	Command	Description
	vpn-simultaneous-logins	Sets the maximum number of simultaneous VPN sessions permitted. Use in group-policy or username mode.

default-information (EIGRP)

To control the candidate default route information for the EIGRP routing process, use the **default-information** command in router configuration mode. To suppress EIGRP candidate default route information in incoming or outbound updates, use the **no** form of this command.

default-information {**in** | **out**} [*acl-name*]

no default-information {in | out}

Syntax Description	acl-name	(Optional) Named	standard access	list.		
	in	Configures EIGRP	to accept exteri	or default r	outing informa	tion.
	out	Configures EIGRP	to advertise exte	ernal routir	ng information.	
efaults	Exterior routes are acce	epted and sent.				
ommand Modes	The following table sho	ows the modes in whic	h you can enter	the comma	nd:	
		Firewall N	lode	Security (ontext	
					Multiple	
	Command Mode	Routed	Transparent	Single	Context	System
	Router configuration	•	_	•		_
sage Guidelines	8.0(2) Only the no form of the	This command was e command or default onfiguration because,	-information co			-
	accepted and sent. The	no form of the comma	•	e an <i>acl-na</i>	<i>me</i> argument.	nformation i
xamples	accepted and sent. The The following example	disables the receipt of	and does not tak		-	
xamples	accepted and sent. The	disables the receipt of uter eigrp 100	and does not tak		-	
Examples Related Commands	The following example hostname(config)# rot	disables the receipt of uter eigrp 100	and does not tak		-	

default-information originate (OSPF)

To generate a default external route into an OSPF routing domain, use the **default-information originate** command in router configuration mode. To disable this feature, use the **no** form of this command.

default-information originate [always] [metric value] [metric-type {1 | 2}] [route-map name]

no default-information originate [[always] [metric value] [metric-type {1 | 2}] [route-map name]]

Syntax Description	always	(Optional) Alwa software has a d	ys advertises the d efault route.	efault route	e regardless of	whether the
	metric value	(Optional) Spec	fies the OSPF defa	ault metric	value from 0 to	o 16777214.
	metric-type {1 2}		rnal link type assoc outing domain. Val			te advertised
		• 1 —Type 1 o	external route.			
		• 2 —Type 2	external route.			
	route-map name	(Optional) Nam	e of the route map	to apply.		
Defaults	The default values are a	as follows:				
	 metric value is 1. 					
	 metric-type is 2. 					
	meene egpe is 2.					
Command Modes	The following table sho					
Command Modes	The following table sho	ows the modes in w		the comma	Context	
Command Modes	The following table sho			Security (System
Command Modes		Firewa	l Mode	Security (Context Multiple	System —
	Command Mode	Firewa Routed	l Mode	Security (Single	Context Multiple	System —
	Command Mode Router configuration	Firewa Routed •	l Mode Transparent —	Security (Single	Context Multiple	System —
Command Modes Command History Usage Guidelines	Command Mode Router configuration Release	Firewal Routed • Modification This command	I Mode Transparent — was preexisting.	Security (Single •	Context Multiple Context —	

Examples

The following example shows how to use the **default-information originate** command with an optional metric and metric type:

hostname(config-router)# default-information originate always metric 3 metric-type 2
hostname(config-router)#

Related Commands

s Command	Description
router ospf	Enters router configuration mode.
show running-config router	Displays the commands in the global router configuration.

default-information originate (RIP)

To generate a default route into RIP, use the **default-information originate** command in router configuration mode. To disable this feature, use the **no** form of this command.

default-information originate [route-map name]

no default-information originate [route-map name]]

Syntax Description	route-map name	(Optional) Name of the default route if			he routing proc	cess generates
Defaults	This command is disab	led by default.				
Command Modes	The following table sho	ows the modes in which	ch you can enter	the comma	and:	
		Firewall N	Node	Security (Context	
					Multiple	
	Command Mode	Routed	Transparent	Single	Context	System
	Router configuration	•		•		
Command History	Release	Modification				
	7.2(1)	This command wa	s introduced.			
Usage Guidelines	The route map reference list; it can use a standar		rmation originat	e comman	d cannot use an	extended acco
xamples	The following example	shows how generate	a default route ir	nto RIP:		
	hostname(config)# ro hostname(config-route hostname(config-route	er)# network 10.0.0		9		
Related Commands	Command	Description				
	router rip	Enters router confi	iguration mode f	or the RIP	routing proces	s.
	show running-config router	Displays the comm	nands in the glob	al router c	onfiguration.	

default-language

To set the default language displayed on the Clientless SSL VPN pages, use the **default-language** command from webvpn configuration mode.

default-language language

Syntax Description	language	Specifies t	he name	of a previously-i	imported tr	anslation table	
Defaults	The default language	is en-us (Engl	ish spoke	n in the United S	States).		
Command Modes	The following table s	hows the mode	es in whic	h you can enter	the comma	ind:	
		F	irewall N	lode	Security (Context	
		_				Multiple	
	Command Mode	R	louted	Transparent	Single	Context	System
	webvpn configuration	n	•	_	•		
Command History	Release	Modificatio	n				
	8.0(2)	This comma	and was in	ntroduced.			
	initiate browser-based AnyConnect VPN Cli The default language security appliance, be	ent users. is displayed to fore logging ir	the Clier Thereat	ntless SSL VPN iter, the language	user when e displayed	they initially c	onnect to the
	or group policy settin			·			
Examples	The following examp	le changes the	default la	inguage to Chine	ese:with the	e name Sales:	
	hostname(config-web	ovpn)# defaul	t-langua	ge zh			
Related Commands	Command		Descript	ion			
		1 1 1					
	import webvpn tran	islation-table	Imports	a translation tab	ole.		
	import webvpn tran revert	islation-table	-			che memory.	

default-metric

To specify the EIGRP metrics for redistributed routes, use the **default-metric** command in router configuration mode. To restore the default values, use the **no** form of this command.

default-metric bandwidth delay reliability loading mtu

no default-metric bandwidth delay reliability loading mtu

Syntax Description	bandwidth	The minimum ban are from 1 to 4294		ite in kiloby	ytes per second	l. Valid values
	delay	The route delay in	tens of microsec	onds. Valid	values are 1 to	0 4294967295.
	reliability	The likelihood of from 0 through 25 no reliability.	1		1	
	loading	The effective band (255 is 100 percent		te expresse	d as a number	from 1 to 255
	mtu	The smallest allow are from 1 to 6553		MTU, expr	essed in bytes.	Valid values
Defaults	connected routes is set			metric. The	e metric of redi	stributed
	•	t to 0.	ch you can enter	the comma	nd:	stributed
	connected routes is set	t to 0.	ch you can enter		nd: Context	stributed
	connected routes is set The following table sh	t to 0. ows the modes in which Firewall N	ch you can enter Mode	the comma	nd: Context Multiple	
	connected routes is set	t to 0.	ch you can enter	the comma	nd: Context	stributed System
	connected routes is set The following table sh	t to 0. ows the modes in which Firewall N	ch you can enter Mode	the comma	nd: Context Multiple	
Command Modes	connected routes is set The following table sh Command Mode	t to 0. ows the modes in which Firewall M Routed	ch you can enter Mode	the comma Security C Single	nd: Context Multiple	
Command Modes	connected routes is set The following table sh Command Mode Router configuration	t to 0. ows the modes in which Firewall M Routed •	ch you can enter Mode Transparent —	the comma Security C Single	nd: Context Multiple	

only when you are redistributing from static routes.

Examples The following example shows how the redistributed RIP route metrics are translated into EIGRP metrics with values as follows: bandwidth = 1000, delay = 100, reliability = 250, loading = 100, and MTU = 1500.

```
hostname(config)# router eigrp 100
hostname(config-router)# network 172.16.0.0
hostname(config-router)# redistribute rip
hostname(config-router)# default-metric 1000 100 250 100 1500
```

Related Commands	Command	Description
	router eigrp	Creates an EIGRP routing process and enters router configuration mode for that process.
	redistribute (EIGRP)	Redistributes routes into the EIGRP routing process.

delay

To set a delay value for an interface, use the **delay** command in interface configuration mode. To restore the default delay value, use the **no** form of this command.

delay delay-time

no delay

Syntax Description	<i>delay-time</i> The delay time in tens of microseconds. Valid values are from 1 to 16777215.								
Defaults	The default delay depends value for an interface.	The default delay depends upon the interface type. Use the show interface command to see the delay value for an interface. The following table shows the modes in which you can enter the command:							
Command Modes	The following table shows								
		Firewall N	lode	Security (Context				
					Multiple	t			
	Command Mode	Routed	Transparent	Single	Context	System			
	Interface configuration	•	—	•		—			
<u> </u>									
Command History	ReleaseModification8.0(2)This command was introduced.								
Usage Guidelines	The value entered is in tens in microseconds.	s of microseconds.	The delay value	displayed	in the show in t	t erface output is			
Examples	The following example cha interface command output affects the delay values. The the DLY label.	is included before	and after the d	elay comm	and to show he	w the command			
	Notice that the command entered to change the delay value to 2000 is delay 200 , not delay 2000 . This is because the value entered with the delay command is in tens of microseconds, and the show interface output displays microseconds.								
		hostname(config)# interface Ethernet0/0 hostname(config-if)# show interface Ethernet0/0							
	_		ps, DLY 1000 u Speed(100 Mbps	sec					

IP address 10.86.194.224, subnet mask 255.255.254.0
! Remainder of the output removed
hostname(config-if)# delay 200
hostname(config-if)# show interface Ethernet0/0
Interface Ethernet0/0 "outside", is up, line protocol is up
Hardware is i82546GB rev03, BW 100 Mbps, DLY 2000 usec
Auto-Duplex(Half-duplex), Auto-Speed(100 Mbps)
MAC address 0013.c480.7e16, MTU 1500
IP address 10.86.194.224, subnet mask 255.255.254.0
! Remainder of the output removed

Related Commands	Command	Description
	show interface	Displays interface statistics and settings.

delete

To delete a file in the disk partition, use the **delete** command in privileged EXEC mode.

delete [/noconfirm] [/recursive] [flash:]filename

Syntax Description	/noconfirm	n (Optional) Specifies not to prompt for confirmation.							
	/recursive (Optional) Deletes the specified file recursively in all subdirectories.								
	<i>filename</i> Specifies the name of the file to delete.								
	flash:	Specifies	s the nonrem	ovable internal I	Flash, follo	wed by a color	1.		
Defaults	If you do not spec	ify a directory,	the director	y is the current v	working dir	ectory by defa	ult.		
Command Modes	The following tabl	le 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		
	Privileged EXEC		•	•	•		•		
Command History	Release	Release Modification							
	Preexisting This command was preexisting.								
Usage Guidelines	The file is deleted when deleting files deletion.								
	The following exa	mple shows ho	w to delete a	n file named <i>test</i> .	. <i>cfg</i> in the o	current working			
		-	w to delete a	a file named <i>test</i> .	. <i>cfg</i> in the o	current workin			
Related Commands	The following exa	-		a file named <i>test</i> .	. <i>cfg</i> in the o	current workin			
Related Commands	The following exa hostname# delete	test.cfg Descri	ption	t working direct					
Related Commands	The following exa hostname# delete Command	b test.cfg Descri Chang	ption	t working direct					

deny-message (group-policy webvpn configuration mode)

To change the message delivered to a remote user who logs into WebVPN successfully, but has no VPN privileges, use the **deny-message value** command in group-webvpn configuration mode. To remove the string so that the remote user does not receive a message, use the **no** form of this command.

deny-message value "string"

no deny-message value

Syntax Description	string	-	491 alphanu inctuation.	meric characters	, including	special charac	ters, spaces,		
Defaults	The default deny n due to some specif your IT administra	ic group polic	y, you do no						
Command Modes	The following tabl	e shows the m	odes in whic	h you can enter	the comma	and:			
			Firewall N	lode	Security (Context			
						Multiple			
	Command Mode		Routed	Transparent	Single	Context	System		
	Group-webvpn co	nfiguration	•	—	•	_			
Command History	Release	Modif	ication						
	7.0(1)This command was introduced.								
	7.1(1)This command moved from tunnel-group webvpn configuration mode to group-webvpn configuration mode.								
Usage Guidelines	Before entering thi mode, then the we	bvpn commar	nd. (This assu	imes you already	y have crea	ted the policy	name.)		
	The no deny-message none command removes the attribute from the group-webvp configuration. The policy inherits the attribute value.								
	When typing the string in the deny-message value command, continue typing even if the command wraps.								
	The text appears of VPN session.	n the remote u	ser's browse	r upon login, ind	ependent o	f the tunnel po	licy used for the		
Examples	The following exa The subsequent co						named group2.		

hostname(config)# group-policy group2 internal
hostname(config)# group-policy group2 attributes
hostname(config-group-policy)# webvpn
hostname(config-group-webvpn)# deny-message value "Your login credentials are OK. However,
you have not been granted rights to use the VPN features. Contact your administrator for
more information."
hostname(config-group-webvpn)

Related Commands C

Command	Description
clear configure group-policy	Removes all group-policy configuration.
group-policy	Creates a group policy.
group-policy attributes	Enters the group-policy attribute configuration mode.
show running-config group-policy [name]	Displays the running group policy configuration for the policy named.
webvpn (group-policy or username configuration mode)	Enters group-pollicy webvpn configuration mode.

deny version

To deny a specific version of SNMP traffic, use the **deny version** command in snmp-map configuration mode, which is accessible by entering the **snmp-map** command from global configuration mode. To disable this command, use the **no** form of this command.

deny version version

no deny version version

Syntax Description	-	<i>version</i> Specifies the version of SNMP traffic that the security appliance drops. The permitted values are 1, 2, 2c, and 3.							
Defaults	No default behavior or values								
Command Modes	The following table shows the	e modes in whic	ch you can enter	the comma	nd:				
		Firewall N	Node	Security Context					
					Multiple				
	Command Mode	Routed	Transparent	Single	Context	System			
	Snmp-map configuration	•	•	•	•				
Command History	Release Mo	dification							
	7.0 Thi								
Usage Guidelines	Use the deny version comma of SNMP were less secure, so policy. You use the deny vers snmp-map command. After of command and then apply it to	o restricting SNI sion command v creating the SNI	MP traffic to Ver within an SNMP MP map, you en	rsion 2 may map, which able the ma	be specified b h you configur p using the in s	by your security re using the spect snmp			
Examples	The following example shows apply the policy to the outside		y SNMP traffic,	define a SN	MP map, defi	ne a policy, and			
	<pre>hostname(config)# access-1 hostname(config)# access-1 hostname(config)# class-ma hostname(config-cmap)# mat hostname(config-cmap)# exi hostname(config)# snmp-map hostname(config-snmp-map)# hostname(config-snmp-map)# hostname(config)# policy-m hostname(config-pmap)# cla</pre>	ist snmp-acl p ist snmp-acl p p snmp-port ch access-list t inbound_snmp deny version exit ap inbound_po	permit tcp any t snmp-acl 1						

hostname(config-pmap-c)# inspect snmp inbound_snmp hostname(config-pmap-c)# exit hostname(config-pmap)# exit hostname(config)# service-policy inbound_policy interface outside

Related Commands

Commands	Description
class-map Defines the traffic class to which to apply security actions.	
inspect snmp	Enable SNMP application inspection.
policy-map	Associates a class map with specific security actions.
snmp-map Defines an SNMP map and enables SNMP map configuration mod	
service-policy	Applies a policy map to one or more interfaces.

description

To add a description for a named configuration unit (for example, for a context or for an object group, or for a DAP record), use the **description** command in various configuration modes. The description adds helpful notes in your configuration To remove the description, use the **no** form of this command.

description text

no description

Syntax Description	text	Sets the description as a text string up to 200 characters in length. For dynamic-access-policy-record mode the maximum length is 80 characters.
		If you want to include a question mark (?) in the string, you must type Ctrl-V before typing the question mark so you do not inadvertently invoke CLI help.
Defaults	No default behavior	or values.
Command Modes	This command is av	vailable in various configuration modes.
Command History	Release	Modification
,	Preexisting	This command was preexisting.
	8.0(2)	Support added for dynamic-access-policy-record mode.
Examples	hostname(config) # hostname(config-c hostname(config-c	aple adds a description to the "Administration" context configuration: context administrator ontext)# description This is the admin context. ontext)# allocate-interface gigabitethernet0/0.1 ontext)# allocate-interface gigabitethernet0/1.1
		ontext)# allocate-interface gigabletherhet0/1.1 ontext)# config-url flash://admin.cfg
Related Commands	Command	Description
	class-map	Identifies traffic to which you apply actions in the policy-map command.
	context	Creates a security context in the system configuration and enters context configuration mode.
	gtp-map	Controls parameters for the GTP inspection engine.
	interface	Configures an interface and enters interface configuration mode.
	object-group	Identifies traffic to include in the access-list command.

Identifies actions to apply to traffic identified by the **class-map** command.

policy-map

dhcp client route distance

To configure an administrative distance for routes learned through DHCP, use the **dhcp client route distance** command in interface configuration mode. To restore the default setting, use the **no** form of this command.

dhcp client route distance distance

no dhcp client route distance distance

Syntax Description		e administrative ues are from 1 t	distance to apply o 255.	y to routes l	earned through	1 DHCP. Valid			
Defaults	Routes learned through DHCl	P are given an a	dministrative dis	stance of 1	by default.				
Command Modes	The following table shows the	e modes in whic	h you can enter	the comma	nd:				
		Firewall N	lode	Security Context					
					Multiple				
	Command Mode	Routed	Transparent	Single	Context	System			
	Interface configuration	•	—	•	—				
Command History	Release Mo	dification							
Command mistory		s command was	sintroduced						
Usage Guidelines	The dhcp client route distan	ce command is	checked only wi	hen a route	is learned fror	n DHCP. If the			
Usage Guidelines	The dhcp client route distance command is checked only when a route is learned from DHCP. If the dhcp client route distance command is entered after a route is learned from DHCP, the administrative distance specified does not affect the existing learned route. Only routes learned after the command was entered have the specified administrative distance.								
	You must specify the setroute option on the ip address dhcp command to obtain routes through DHCP.								
	If DHCP is configured on multiple interfaces, you must use the dhcp client route distance command on each of the interfaces to indicate the priority of the installed routes.								
Examples	The following example obtain tracked by tracking entry obje off of the outside interface. If GigabitEthernet0/3 is used. T	ect 1. The SLA of the SLA operation	operation monito on fails, then the	ors the avail backup roo	ability of the 1 ate obtained th	0.1.1.1 gateway rough DHCP on			
	<pre>hostname(config)# sla monitor 123 hostname(config-sla-monitor)# type echo protocol ipIcmpEcho 10.1.1.1 interface outside hostname(config-sla-monitor-echo)# timeout 1000 hostname(config-sla-monitor-echo)# frequency 3</pre>								

```
hostname(config)# sla monitor schedule 123 life forever start-time now
hostname(config)# track 1 rtr 123 reachability
hostname(config)# interface GigabitEthernet0/2
hostname(config-if)# dhcp client route track 1
hostname(config)# interface GigabitEthernet0/3
hostname(config-if)# dhcp client route track 1
hostname(config-if)# dhcp client route track 1
hostname(config-if)# dhcp client route distance 254
hostname(config-if)# ip address dhcp setroute
```

Related Commands

Description				
Associates routes learned through DHCP with a tracking entry object.				
Configures the specified interface with an IP address obtained through DHCP.				
Defines an SLA monitoring operation.				
Creates a tracking entry to poll the SLA.				

dhcp client route track

To configure the DHCP client to associate added routes with a specified tracked object number, use the **dhcp client route track** command in interface configuration mode. To disable DHCP client route tracking, use the **no** form of this command.

dhcp client route track *number*

no dhcp client route track

Syntax Description	<i>number</i> The tracking entry object ID. Valid values are from 1 to 500.					
Defaults	No default behaviors or val	lues.				
Command Modes	The following table shows	the modes in whic	ch you can enter	the comma	ınd:	
		Firewall N	Node	Security Context		
				Single	Multiple	
	Command Mode	Routed	Transparent		Context	System
	Interface configuration	•	—	•	_	
				·		
Command History Usage Guidelines	Release Modification					
	7.2(1) This command was introduced.					
	The dhcp client route track command is checked only when a route is learned from DHCP. If the dhcp client route track command is entered after a route is learned from DHCP, the existing learned routes are not associated with a tracking object. Only routes learned after the command was entered are associated with the specified tracking object.					
	You must specify the setroute option on the ip address dhcp command to obtain routes through DHCP.					
	If DHCP is configured on multiple interfaces, you must use the dhcp client route distance command on each of the interfaces to indicate the priority of the installed routes.					
Examples	The following example obtains the default route through DHCP on GigabitEhternet0/2. The route is tracked by tracking entry object 1. The SLA operation monitors the availability of the 10.1.1.1 gateway off of the outside interface. If the SLA operation fails, then the backup route obtained through DHCP on GigabitEthernet0/3 is used. The backup route is assigned an administrative distance of 254.					
	hostname(config)# sla monitor 123 hostname(config-sla-monitor)# type echo protocol ipIcmpEcho 10.1.1.1 interface outside hostname(config-sla-monitor-echo)# timeout 1000 hostname(config-sla-monitor-echo)# frequency 3 hostname(config)# sla monitor schedule 123 life forever start-time now					
```
hostname(config)# track 1 rtr 123 reachability
hostname(config)# interface GigabitEthernet0/2
hostname(config-if)# dhcp client route track 1
hostname(config)# interface GigabitEthernet0/3
hostname(config-if)# dhcp client route track 1
hostname(config-if)# dhcp client route distance 254
hostname(config-if)# ip address dhcp setroute
```

Related Commands	Command	Description
	dhcp client route distance	Assigns an administrative distance to routes learned through DHCP.
	ip address dhcp	Configures the specified interface with an IP address obtained through DHCP.
	sla monitor	Defines an SLA monitoring operation.
	track rtr	Creates a tracking entry to poll the SLA.

dhcp-client broadcast-flag

To allow the security appliance to set the broadcast flag in the DHCP client packet, use the **dhcp-client broadcast-flag** command in global configuration mode. To disallow the broadcast flag, use the **no** form of this command.

dhcp-client broadcast-flag

no dhcp-client broadcast-flag

Syntax Description This command has no arguments or keyword	ls.
---	-----

Defaults By default, the broadcast flag is disabled.

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
Global configuration	•	•	•	•	_

 Release
 Modification

 8.0(2)
 This command was introduced.

Usage Guidelines If you enable the DHCP client for an interface using the **ip address dhcp** command, then you can use this command to set the broadcast flag to 1 in the DHCP packet header when the DHCP client sends a discover requesting an IP address. The DHCP server listens to this broadcast flag and broadcasts the reply packet if the flag is set to 1.

If you enter the **no dhcp-client broadcast-flag** command, the broadcast flag is set to 0, and the DHCP server unicasts the reply packets to the client with the offered IP address.

The DHCP client can receive both broadcast and unicast offers from the DHCP server.

Examples The following example enables the broadcast flag: hostname(config)# dhcp-client broadcast-flag

Related Commands	Command	Description
	ip address dhcp	Enables the DHCP client for an interface.
	interface	Enters interface configuration mode so you can set the IP address.

dhcp-client client-idSets DHCP request packet option 61 to include the interface MAC address.dhcp-client updateEnables DNS updates for the DHCP client.dnsComparison of the transmission of transmission of the transmission of the transmission of transmi

dhcp-client client-id

To force a MAC address to be stored inside a DHCP request packet for option 61 instead of the default internally-generated string, use the **dhcp-client client-id** command in global configuration mode. To disallow the MAC address, use the **no** form of this command.

dhcp-client client-id interface interface_name

no dhcp-client client-id interface *interface_name*

Syntax Description	interface <i>interface_name</i>	Specifies the inter- option 61.	Specifies the interface on which you want to enable the MAC address for option 61.						
Defaults	By default, an inter	nally-generated ASCII s	tring is used for c	ption 61.					
Command Modes	The following table	shows the modes in wh	ich you can enter	the comma	and:				
		Firewall	Mode	Security (Context				
					Multiple				
	Command Mode	Routed	Transparent	Single	Context	System			
	Global configuration	on •	•	•	•	—			
Command History	Release	Modification							
	8.0(2)	This command was intro	duced.						
Usage Guidelines	option 61 to be the	HCP client for an interfa interface MAC address. ddress will not be assign ress for option 61.	If the MAC addre	ess is not in	cluded in the I	DHCP request			
Examples	-	xample enables the MAC address for option 61 for the outside interface: g)# dhcp-client client-id interface outside							
Related Commands	Command	Description							
	ip address dhcp	Enables the DHCP	client for an inter	face.					
	interface	Enters interface cor	figuration mode	so you can	set the IP addr	ess.			

dhcp-client broadcast-flag	Sets the broadcast flag in the DHCP client packet.
dhcp-client update dns	Enables DNS updates for the DHCP client.

dhcp-client update dns

To configure the update parameters that the DHCP client passes to the DHCP server, use the **dhcp-client update dns** command in global configuration mode. To remove the parameters that the DHCP client passes to the DHCP server, use the **no** form of this command.

dhcp-client update dns [server {both | none}]

no dhcp-client update dns [server {both | none}]

Syntax Description	both		ent requests ce records.	that the DHCP	server upda	ate both the DN	IS A and PTR	
	none	The cli	ent requests	that the DHCP	server perf	orm no DDNS	updates.	
	server Specifies the DHCP server to receive the client requests.							
Defaults	By default, the secur client does not send				ver perforr	n PTR RR upd	ates only. The	
Command Modes	The following table	shows the me	odes 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	n	•		•	•		
Command History	Release	Modifi	cation					
	7.2(1)	This co	ommand was	s introduced.				
Usage Guidelines	This command can a client update dns . V settings configured b	When entered	l in interface	mode, the dhc	o client upo			
Examples	The following example configures the client to request that the DHCP server update neither the A and the PTR RRs: hostname(config)# dhcp-client update dns server none							
	hostname(config)# dhcp-client update dns server none The following example configures the client to request that the server update both the A and PTR RRs: hostname(config)# dhcp-client update dns server both							

Related Commands

Command	Description
ddns (DDNS-update- method mode)	Specifies a DDNS update method type for a created DDNS method.
ddns update (interface config mode)	Associates a dynamic DNS (DDNS) update method with a security appliance interface or a DDNS update hostname.
ddns update method (global config mode)	Creates a method for dynamically updating DNS resource records.
dhcp client update dns	
dhcpd update dns	Enables a DHCP server to perform DDNS updates.
interval maximum	Configures the maximum interval between update attempts by a DDNS update method.

dhcp-network-scope

To specify the range of IP addresses the security appliance DHCP server should use to assign addresses to users of this group policy, use the **dhcp-network-scope** command in group-policy configuration mode. To remove the attribute from the running configuration, use the **no** form of this command. This option allows inheritance of a value from another group policy. To prevent inheriting a value, use the **dhcp-network-scope** none command.

dhcp-network-scope {*ip_address*} | none

no dhcp-network-scope

Syntax Description	ip_address	Specifies the IP subr		server sho	uld use to assig	gn IP addresse		
		to users of this group	policy.					
	none	Sets the DHCP subn	etwork to a null va	lue, thereb	y allowing no	IP addresses.		
		Prevents inheriting a	value from a defa	ult or speci	fied group pol	icy.		
Defaults	No default behavio	or or values.						
Command Modes	The following tabl	e shows the modes in w	hich you can enter	the comma	and:			
		Firewal	l Mode	Security (Context			
					Multiple			
	Command Mode	Routed	Transparent	Single	Context	System		
	Group-policy	•		•				
Command History	Release	Modification						
	7.0(1)	This command y	vas introduced.					
Examples	The following example shows how to set an IP subnetwork of 10.10.85.0 for the group policy named							
	First Group:							
	nostname(config)	# group-policy FirstG	roup attributes					

hostname(config-group-policy)# **dhcp-network-scope 10.10.85.0**

dhcp-server

To configure support for DHCP servers that assign IP addresses to clients as a VPN tunnel is established, use the **dhcp-server** command in tunnel-group general-attributes configuration mode. To return this command to the default, use the **no** form of this command.

dhcp-server [link-selection | subnet-selection] <ip1> [<ip2>...<ip10>]
[n0] dhcp-server [link-selection | subnet-selection] <ip1> [<ip2>...<ip10>]

		Address of a DHCP server (Optional) Additional DHCP servers						
	<ip2>-<ip10></ip10></ip2>	· 1	,					
		1	en may be s ultiple comi	pecified in the same	ame comm	and or spread		
	link-selection	sub-option 5, the Link Selection Sub-option for the Relay Information Option 82, defined by RFC 3527. This should only be used with servers that support this RFC.						
	subnet-selection							
Defaults	No default behavior o	or values.						
	No default behavior of The following table s				1			
	_		odes in whic		the comma	Context		
Defaults Command Modes	_				1		System	
	The following table s	hows the mo	Firewall N	1ode	Security C	Context Multiple	System —	
Command Modes	The following table s Command Mode Tunnel-group genera	hows the mo	Firewall N Routed	1ode	Security C Single	Context Multiple	System —	
	The following table s Command Mode Tunnel-group genera configuration	hows the mo	Firewall N Routed •	1ode	Security C Single	Context Multiple	System —	

Specifies the general attributes for the named tunnel-group.

Examples	•	nfig-general configuration mode, adds three DHCP servers c remote-access tunnel group "remotegrp":
	<pre>hostname(config)# tunnel-group ren hostname(config)# tunnel-group ren hostname(config-tunnel-general)# (hostname(config-tunnel-general)# (hostname(config-tunnel-general)</pre>	notegrp general default-group-policy remotegrp
Related Commands	Command	Description
	clear-configure tunnel-group	Clears all configured tunnel groups.
	show running-config tunnel group	Shows the tunnel group configuration for all tunnel groups or

tunnel-group general-attributes

for a particular tunnel group.

dhcpd address

To define the IP address pool used by the DHCP server, use the **dhcpd address** command in global configuration mode. To remove an existing DHCP address pool, use the **no** form of this command.

dhcpd address *IP_address1*[-*IP_address2*] *interface_name*

no dhcpd address *interface_name*

Note	The size of the pool	is limited to ?	32 addresse	s with a 10-user	license and	1 128 addresse	s with a 50-user	
Note	license on the Cisco appliance platforms	ASA 5505. Th	ne unlimited					
Syntax Description	interface_name	interface_name Interface the address pool is assigned to.						
	IP_address1	Start ad	dress of the	DHCP address	pool.			
	IP_address2	End add	dress of the	DHCP address	pool.			
Defaults	No default behavior	or values.						
ommand Modes	The following table	shows the mo	des in whic	h you can enter	the comma	und:		
			Firewall Mode		Security (Security Context		
						Multiple		
	Command Mode		Routed	Transparent	Single	Context	System	
	Global configuration	n	•	•	•	•	—	
ommand History	Release	Modific	ation					
	Preexisting	This co	mmand was	preexisting.				
Usage Guidelines	The dhcpd address <i>i</i> address pool of a secu interface on which it <i>interface_name</i> .	urity appliance	e DHCP ser	ver must be withi	n the same	subnet of the se	curity appliance	
	The size of the addre pool range is larger t C address (for exam	han 253 addre	esses, the ne	tmask of the sec	urity applia	ince interface c	annot be a Class	
	DHCP clients must b	e physically co	onnected to	the subnet of the	security ap	pliance DCHP	server interface.	
	The dhcpd address of character is interpret						ecause the "-"	

The **no dhcpd address** *interface_name* command removes the DHCP server address pool that you configured for the specified interface.

Refer to the *Cisco ASA 5500 Series Configuration Guide using the CLI* for information on how to implement the DHCP server feature into the security appliance.

Examples

The following example shows how to use the **dhcpd address**, **dhcpd dns**, and **dhcpd enable** *interface_name* commands to configure an address pool and DNS server for the DHCP clients on the **dmz** interface of the security appliance:

hostname(config)# dhcpd address 10.0.1.100-10.0.1.108 dmz hostname(config)# dhcpd dns 209.165.200.226 hostname(config)# dhcpd enable dmz

The following example shows how to configure a DHCP server on the inside interface. It uses the **dhcpd address** command to assign a pool of 10 IP addresses to the DHCP server on that interface.

```
hostname(config)# dhcpd address 10.0.1.101-10.0.1.110 inside
hostname(config)# dhcpd dns 198.162.1.2 198.162.1.3
hostname(config)# dhcpd wins 198.162.1.4
hostname(config)# dhcpd lease 3000
hostname(config)# dhcpd ping_timeout 1000
hostname(config)# dhcpd domain example.com
hostname(config)# dhcpd enable inside
```

Related Commands	Command	Description
	clear configure dhcpd	Removes all DHCP server settings.
	dhcpd enable	Enables the DHCP server on the specified interface.
	show dhcpd	Displays DHCP binding, statistic, or state information.
	show running-config	Displays the current DHCP server configuration.
	dhcpd	

dhcpd auto_config

To enable the security appliance to automatically configure DNS, WINS and domain name values for the DHCP server based on the values obtained from an interface running a DHCP or PPPoE client, or from a vpn server, use the **dhcpd auto_config** command in global configuration mode. To discontinue the automatic configuration of DHCP parameters, use the **no** form of this command.

dhcpd auto_config client_if_name [[vpnclient-wins-override] interface if_name]

no dhcpd auto_config *client_if_name* [[**vpnclient-wins-override**] **interface** *if_name*]

Syntax Description	client_if_name	Specifies the inte WINS, and doma	-		ent that suppli	es the DNS,		
	interface <i>if_name</i>	Specifies the interface to which the action will apply.						
	vpnclient-wins-override Overrides interface DHCP or PPPoE client WINS parameter with vpnclient parameter.							
Defaults	No default behavior or val	ues.						
Command Modes	The following table shows	s the modes in whic	h you can enter	the comma	nd:			
		Firewall N	lode	Security Context				
					Multiple			
	Command Mode	Routed	Transparent	Single	Context	System		
	Global configuration	•	—	•	•			
Command History	Release Modification							
	Preexisting	This command was	s preexisting.					
Usage Guidelines Examples	If you specify DNS, WINS, or domain name parameters using the CLI commands, then the CLI-configured parameters overwrite the parameters obtained by automatic configuration. The following example shows how to configure DHCP on the inside interface. The dhcpd auto_com command is used to pass DNS, WINS, and domain information obtained from the DHCP client on the outside interface to the DHCP clients on the inside interface.							
	<pre>hostname(config)# dhcpd address 10.0.1.101-10.0.1.110 inside hostname(config)# dhcpd auto_config outside hostname(config)# dhcpd enable inside</pre>							

Related Commands	Command	Description
	clear configure dhcpd	Removes all DHCP server settings.
	dhcpd enable	Enables the DHCP server on the specified interface.
	show ip address dhcp server	Displays detailed information about the DHCP options provided by a DHCP server to an interface acting as a DHCP client.
	show running-config dhcpd	Displays the current DHCP server configuration.

dhcpd dns

To define the DNS servers for DHCP clients, use the **dhcpd dns** command in global configuration mode. To clear defined servers, use the **no** form of this command.

dhcpd dns *dnsip1* [*dnsip2*] [**interface** *if_name*]

no dhcpd dns [dnsip1 [dnsip2]] [**interface** if_name]

	<i>dnsip1</i> IP address of the primary DNS server for the DHCP client.						
	dnsip2 (Optional) IP address of the alternate DNS server for the DHCP client.						
	interface if_nameSpecifies the interface to which values entered to the server apply. If no interface is specified, values are applied to all servers.						
Defaults	No default behavior or	values.					
Command Modes	The following table sh	ows the modes in v	hich you can enter	the comma	ind:		
		Firewa	ll Mode	Security (Context		
				Single	Multiple		
	Command Mode	Routed	Transparent		Context	System	
	Global configuration	•	•	•	•	—	
Command History	Release Modification						
	Preexisting This command was preexisting.						
			was preexisting.				
Usage Guidelines	The dhcpd dns comma client. You can specify address(es) from the co	two DNS servers.	the IP address or ad				
Usage Guidelines Examples	The dhcpd dns comma client. You can specify	two DNS servers. onfiguration. e shows how to use ands to configure a	the IP address or ad The no dhcpd dns the dhcpd address	command l , dhcpd d n	ets you remove s, and dhcpd of	e the DNS IP	

Related Commands

Command	Description
clear configure dhcpd	Removes all DHCP server settings.
dhcpd address	Specifies the address pool used by the DHCP server on the specified interface.
dhcpd enable	Enables the DHCP server on the specified interface.
dhcpd wins	Defines the WINS servers for DHCP clients.
show running-config dhcpd	Displays the current DHCP server configuration.

dhcpd domain

To define the DNS domain name for DHCP clients, use the **dhcpd domain** command in global configuration mode. To clear the DNS domain name, use the **no** form of this command.

dhcpd domain *domain_name* [**interface** *if_name*]

no dhcpd domain [domain_name] [**interface** if_name]

Syntax Description	<i>domain_name</i> The DNS domain name, for example example.com.							
	interface if_nameSpecifies the interface to which values entered to the server apply. If no interface is specified, values are applied to all servers.							
Defaults	No default behavior or	values.						
Command Modes	The following table sho	ows the modes in w	hich you can enter	the comma	and:			
		Firewa	l Mode	Security (Context			
					Multiple			
	Command Mode	Routed	Transparent	Single	Context	System		
	Global configuration	•	•	•	•	—		
Command History	Release Modification							
	Preexisting This command was preexisting.							
Usage Guidelines	The dhcpd domain cor domain command lets	• •	•			nt. The no dhcpd		
Examples	The following example shows how to use the dhcpd domain command to configure the domain name supplied to DHCP clients by the DHCP server on the security appliance:							
	<pre>hostname(config)# dh hostname(config)# dh hostname(config)# dh hostname(config)# dh hostname(config)# dh hostname(config)# dh hostname(config)# dh</pre>	cpd dns 198.162.1 cpd wins 198.162. cpd lease 3000 cpd ping_timeout cpd domain exampl	.2 198.162.1.3 1.4 1000 e.com	inside				

Related Commands

Command	Description
clear configure dhcpd	Removes all DHCP server settings.
show running-config dhcpd	Displays the current DHCP server configuration.

dhcpd enable

To enable the DHCP server, use the **dhcpd enable** command in global configuration mode. To disable the DHCP server, use the **no** form of this command. The DHCP server provides network configuration parameters to DHCP clients. Support for the DHCP server within the security appliance means that the security appliance can use DHCP to configure connected clients.

dhcpd enable interface

no dhcpd enable interface

Syntax Description	<i>interface</i> Specifies the interface on which to enable the DHCP server.						
Defaults	No default behavior or v	values.					
Command Modes	The following table show	ws the modes in whic	ch you can enter	the comma	ınd:		
		Firewall N	Node	Security (Context		
					Multiple		
	Command Mode	Routed	Transparent	Single	Context	System	
	Global configuration	•	•	•	•		
Command History	Release	Modification				<u> </u>	
	Preexisting This command was preexisting.						
Usage Guidelines	The dhcpd enable <i>inter</i> requests on the DHCP-e feature on the specified	nabled interface. The interface.	e no dhcpd enat	ole commar	nd disables the	DHCP server	
Note	Note For multiple context mode, you cannot enable the DHCP server on an interface that is used one context (a shared VLAN).					ed by more than	
	When the security applia of the interface where th in the response.	*	-				
Note	The security appliance I a security appliance inte		does not suppor	t clients the	at are not direct	tly connected to	
	Refer to the <i>Cisco ASA</i> . implement the DHCP se			•	for information	on how to	

Examples	The following example shows how to use the dhcpd enable command to enable the DHCP server on the
	inside interface:

```
hostname(config)# dhcpd address 10.0.1.101-10.0.1.110 inside
hostname(config)# dhcpd dns 198.162.1.2 198.162.1.3
hostname(config)# dhcpd wins 198.162.1.4
hostname(config)# dhcpd lease 3000
hostname(config)# dhcpd ping_timeout 1000
hostname(config)# dhcpd domain example.com
hostname(config)# dhcpd enable inside
```

Related Commands

Command	Description
debug dhcpd	Displays debug information for the DHCP server.
dhcpd address Specifies the address pool used by the DHCP server on the specifie interface.	
show dhcpd	Displays DHCP binding, statistic, or state information.
show running-config	Displays the current DHCP server configuration.
dhcpd	

dhcpd lease

To specify the DHCP lease length, use the **dhcpd lease** command in global configuration mode. To restore the default value for the lease, use the **no** form of this command.

dhcpd lease *lease_length* [**interface** *if_name*]

no dhcpd lease [lease_length] [**interface** if_name]

Syntax Description	interface if_nameSpecifies the interface to which values entered to the server apply. If no interface is specified, values are applied to all servers.							
	lease_lengthLength of the IP address lease, in seconds, granted to the DHCP client from the DHCP server; valid values are from 300 to 1048575 seconds.							
Defaults	The default <i>lease_leng</i>	t <i>lease_length</i> is 3600 seconds.						
Command Modes	The following table sh	nows the modes	in whic	h you can enter	the comma	and:		
		Fir	ewall N	lode	Security (Context		
						Multiple		
	Command Mode	Ro	uted	Transparent	Single	Context	System	
	Global configuration	•		•	•	•		
<u> </u>								
Command History	Release Preexisting	Modificatio		s preexisting.				
Usage Guidelines	The dhcpd lease command lets you specify the length of the lease, in seconds, that is granted to the DHCP client. This lease indicates how long the DHCP client can use the assigned IP address that the							
	DHCP server granted. The no dhcpd lease command lets you remove the lease length that you specified from the configuration and replaces this value with the default value of 3600 seconds.							
Examples	The following example shows how to use the dhcpd lease command to specify the length of the lease of DHCP information for DHCP clients:							
	DHCP information for DHCP clients: hostname(config) # dhcpd address 10.0.1.101-10.0.1.110 inside hostname(config) # dhcpd dns 198.162.1.2 198.162.1.3 hostname(config) # dhcpd wins 198.162.1.4 hostname(config) # dhcpd lease 3000 hostname(config) # dhcpd ping_timeout 1000 hostname(config) # dhcpd domain example.com hostname(config) # dhcpd enable inside							

Related Commands	Command	Description
	clear configure dhcpd	Removes all DHCP server settings.
	show running-config dhcpd	Displays the current DHCP server configuration.

dhcpd option

To configure DHCP options, use the **dhcpd option** command in global configuration mode. To clear the option, use the **no** form of this command.

dhcpd option *code* {**ascii** *string*} | {**ip** *IP_address* [*IP_address*]} | {**hex** *hex_string*} [**interface** *if_name*]

no dhcpd option *code* [**interface** *if_name*]

Syntax Description	ascii	Specifies th	at the o	ption parameter	is an ASC	II character str	ing.
	code	with several	l except	ting the DHCP o ions. See the "U the list of DHCI	sage Guide	elinesUsage G	uidelines"
	hex	Specifies th	at the o	ption parameter	is a hexade	ecimal string.	
	hex_string	Specifies a hexadecimal string with an even number of digits and no spaces. You do not need to use a 0x prefix.					
	interface if_name			ace to which val ed, values are ap			apply. If no
	ір			ption parameter P addresses with			specify a
	IP_address	Specifies a	dotted-	decimal IP addre	ess.		
	string	Specifies an	n ASCII	character string	g without sp	baces.	
		Firewall Mode			Security C	Context	
						Multiple	
	Command Mode	Routed		Transparent	Single	Context	System
	Global configuration	•		•	•	•	—
Command History	Release	Modificatio	n				
	Preexisting	This comma	and was	preexisting.			
Usage Guidelines	You can use the dhcpd routers.	-					
	When a DHCP option request arrives at the security appliance DHCP server, the security appliance places the value or values that are specified by the dhcpd option command in the response to the client.						

The **dhcpd option 66** and **dhcpd option 150** commands specify TFTP servers that Cisco IP Phones and routers can use to download configuration files. Use the commands as follows:

- **dhcpd option 66 ascii** *string*, where *string* is either the IP address or hostname of the TFTP server. Only one TFTP server can be specified for option 66.
- **dhcpd option 150 ip** *IP_address* [*IP_address*], where *IP_address* is the IP address of the TFTP server. You can specify a maximum of two IP addresses for option 150.

<u>Note</u>

The **dhcpd option 66** command only takes an **ascii** parameter, and the **dhcpd option 150** only takes an **ip** parameter.

Use the following guidelines when specifying an IP address for the **dhcpd option 66 | 150** commands:

- If the TFTP server is located on the DHCP server interface, use the local IP address of the TFTP server.
- If the TFTP server is located on a less secure interface than the DHCP server interface, then general outbound rules apply. Create a group of NAT, global, and **access-list** entries for the DHCP clients, and use the actual IP address of the TFTP server.
- If the TFTP server is located on a more secure interface, then general inbound rules apply. Create a group of static and **access-list** statements for the TFTP server and use the global IP address of the TFTP server.

For information about other DHCP options, refer to RFC2132.



The security appliance does not verify that the option type and value that you provide match the expected type and value for the option code as defined in RFC 2132. For example, you can enter **dhcpd option 46 ascii hello**, and the security appliance accepts the configuration although option 46 is defined in RFC 2132 as expecting a single-digit, hexadecimal value.

You cannot configure the following DHCP options with the **dhcpd option** command:

Option Code	Description			
0	DHCPOPT_PAD			
1	HCPOPT_SUBNET_MASK			
12	DHCPOPT_HOST_NAME			
50	DHCPOPT_REQUESTED_ADDRESS			
51	DHCPOPT_LEASE_TIME			
52	DHCPOPT_OPTION_OVERLOAD			
53	DHCPOPT_MESSAGE_TYPE			
54	DHCPOPT_SERVER_IDENTIFIER			
58	DHCPOPT_RENEWAL_TIME			
59	DHCPOPT_REBINDING_TIME			
61	DHCPOPT_CLIENT_IDENTIFIER			
67	DHCPOPT_BOOT_FILE_NAME			

Option Code	Description
82	DHCPOPT_RELAY_INFORMATION
255	DHCPOPT_END

Examples

The following example shows how to specify a TFTP server for DHCP option 66:

hostname(config)# dhcpd option 66 ascii MyTftpServer

Related Commands	Command	Description
	clear configure dhcpd	Removes all DHCP server settings.
	show running-config	Displays the current DHCP server configuration.
	dhcpd	

dhcpd ping_timeout

To change the default timeout for DHCP ping, use the **dhcpd ping_timeout** command in global configuration mode. To return to the default value, use the **no** form of this command. To avoid address conflicts, the DHCP server sends two ICMP ping packets to an address before assigning that address to a DHCP client. This command specifies the ping timeout in milliseconds.

dhcpd ping_timeout number [interface if_name]

no dhcpd ping_timeout [interface if_name]

Syntax Description	interface <i>if_name</i>	-		ace to which val ed, values are ap			apply. If no
	number			of the ping, in m 000. The defaul		. The minimur	n value is 10,
Defaults	The default number of r	millisecond	ls for <i>numb</i>	<i>er</i> is 50.			
Command Modes	The following table sho	ws the mod	des 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		•	•	•	•	
Command History	Release	Modifica	ation				
	Preexisting	This con	nmand was	preexisting.			
Usage Guidelines	The security appliance of DHCP client. For examp (750 milliseconds for each second sec	ple, if the de	efault value	is used, the secu	rity applia	nce waits for 15	
	A long ping timeout val	lue can adv	ersely affe	ct the performan	ce of the D	HCP server.	
Examples	The following example a value for the DHCP ser		to use the	lhcpd ping_tim	eout comm	and to change	the ping timeout
	<pre>hostname(config)# dhc hostname(config)# dhc hostname(config)# dhc hostname(config)# dhc hostname(config)# dhc hostname(config)# dhc hostname(config)# dhc</pre>	cpd dns 19 cpd wins 1 cpd lease cpd ping_t cpd domain	8.162.1.2 98.162.1.4 3000 imeout 100 example.0	198.162.1.3 1 00	inside		

Related Commands	Command	Description
	clear configure dhcpd	Removes all DHCP server settings.
	show running-config dhcpd	Displays the current DHCP server configuration.

dhcpd update dns

To enable a DHCP server to perform Dynamic DNS updates, use the **dhcpd update dns** command in global configuration mode. To disable DDNS by a DHCP server, use the **no** form of this command.

dhcpd update dns [both] [override] [interface srv_ifc_name]

no dhcpd update dns [both] [override] [interface srv_ifc_name]

	both	Specifies that the DHCP server updates both A and PTR DNS RRs.					
	interface	Specifies the secu	rity appliance inte	erface to wh	nich the DDNS	updates apply.	
	override	Specifies that the	DHCP server over	errides DH	CP client reque	ests.	
	<i>srv_ifc_name</i> Specifies an interface to apply this option to.						
Defaults	By default, the DHCP	server performs PTR	RR updates only.				
Command Modes	The following table sh	nows the modes in whi	ich you can enter	the comma	nd:		
		Firewall	Mode	Security (Context		
					Multiple		
	Command Mode	Routed	Transparent	Single	Context	System	
	Global configuration	•	_	•	•		
				1			
Command History	Release	Modification					
	7.2(1)This command was introduced.						
	7.2(1)	This command wa	as introduced.				
Usage Guidelines	7.2(1) DDNS updates the nar performed in conjuncti server.	ne to address and add	ress to name map		•	-	
Usage Guidelines	DDNS updates the nar performed in conjuncti	ne to address and add ion with a DHCP serve	ress to name map er. The dhcpd up o	date dns co	•	-	
Usage Guidelines	DDNS updates the nar performed in conjuncti server. Name and address map	ne to address and add ion with a DHCP serve ppings are contained i	ress to name map er. The dhcpd up n two types of RI	date dns co Rs:	ommand enable	-	
Usage Guidelines	DDNS updates the nar performed in conjuncti server. Name and address map • The A resource re	me to address and add ion with a DHCP serve ppings are contained i cord contains domain	ress to name map er. The dhcpd up n two types of RI name to IP addre	date dns co Rs: ess mapping	ommand enable	-	
Usage Guidelines	DDNS updates the nar performed in conjuncti server. Name and address map • The A resource re • The PTR resource	ne to address and add ion with a DHCP serve ppings are contained i cord contains domain e record contains IP ad	ress to name map er. The dhcpd up n two types of RI name to IP addre ldress to domain p	date dns co Rs: ess mapping name mapp	ommand enable gs. ings.	es updates by the	
Usage Guidelines	DDNS updates the nar performed in conjuncti server. Name and address map • The A resource re	me to address and add ion with a DHCP serve ppings are contained i cord contains domain e record contains IP ad used to maintain cons ate dns command, the	ress to name map er. The dhcpd up n two types of RI name to IP addre ldress to domain sistent informatio DHCP server can	date dns co Rs: ess mapping name mapp n between be configu	ommand enable gs. ings. the A and PTR red to perform	es updates by the RR types. both A and PRT	

Related Commands	Command	Description
	ddns (DDNS-update- method mode)	Specifies a DDNS update method type for a created DDNS method.
	ddns update (interface config mode)	Associates a DDNS update method with a security appliance interface or a DDNS update hostname.
	ddns update method (global config mode)	Creates a method for dynamically updating DNS resource records.
	dhcp-client update dns	Configures the update parameters that the DHCP client passes to the DHCP server.
	interval maximum	Configures the maximum interval between update attempts by a DDNS update method.

dhcpd wins

To define the WINS servers for DHCP clients, use the **dhcpd wins** command in global configuration mode. To remove the WINS servers from the DHCP server, use the **no** form of this command.

dhcpd wins *server1* [*server2*] [**interface** *if_name*]

no dhcpd wins [server1 [server2]] [interface if_name]

Syntax Description	interface <i>if_name</i> Specifies the interface to which values entered to the server apply. If no interface is specified, values are applied to all servers.						
	server1	Specifies the IP (WINS server).	address of the prin	nary Micro	soft NetBIOS	name server	
	server2 (Optional) Specifies the IP address of the alternate Microsoft NetBIOS name server (WINS server).						
Defaults	No default behavior or	r values.					
Command Modes	The following table sh	ows the modes in wl	nich you can enter	the comma	and:		
		Firewal	Mode	Security (Context		
				Single	Multiple		
	Command Mode	Routed	Transparent		Context	System	
	Global configuration	•	•	•	•	—	
Command History	Release	Modification					
	Preexisting	This command w	vas preexisting.				
Usage Guidelines	The dhcpd wins comm no dhcpd wins comm	• • •					
Examples	The following example that is sent to DHCP c		ne dhcpd wins com	mand to sp	ecify WINS se	rver informatio	
	<pre>that is sent to DHCP clients: hostname(config)# dhcpd address 10.0.1.101-10.0.1.110 inside hostname(config)# dhcpd dns 198.162.1.2 198.162.1.3 hostname(config)# dhcpd wins 198.162.1.4 hostname(config)# dhcpd lease 3000 hostname(config)# dhcpd ping_timeout 1000 hostname(config)# dhcpd domain example.com hostname(config)# dhcpd enable inside</pre>						

Related Commands	Command	Description
clear configure dhcp dhcpd address dhcpd dns	clear configure dhcpd	Removes all DHCP server settings.
	dhcpd address	Specifies the address pool used by the DHCP server on the specified interface.
	dhcpd dns	Defines the DNS servers for DHCP clients.
	show dhcpd	Displays DHCP binding, statistic, or state information.
	show running-config dhcpd	Displays the current DHCP server configuration.

dhcprelay enable

To enable the DHCP relay agent, use the **dhcprelay enable** command in global configuration mode. To disable DHCP relay agent, use the **no** form of this command. The DHCP relay agent allows DHCP requests to be forwarded from a specified security appliance interface to a specified DHCP server.

dhcprelay enable *interface_name*

no dhcprelay enable interface_name

Syntax Description	interface_name	<i>terface_name</i> Name of the interface on which the DHCP relay agent accepts client requests.					ts client
Defaults	The DHCP relay agent	t is disabled.					
Command Modes	The following table sh	lows the mod	les in whic	h you can enter	the comma	ind:	
			Firewall N	lode	Security (Context	
						Multiple	
	Command Mode		Routed	Transparent	Single	Context	System
	Global configuration		•	_	•	•	—
Command History	Release Modification						
	Preexisting This command was preexisting.						
Usage Guidelines	For the security applia command, you must he security appliance disp DHCPRA: Warning - Th No relaying Use the 'dhc	ave a dhcpro blays an erro nere are no can be done	elay server r message DHCP server without	command alreat similar to the fo	ndy in the c llowing: a!	onfiguration. (•
	You cannot enable DH	CP relay un	der the foll	lowing condition	ns:		
	• You cannot enable	e DHCP relag	y and the I	OHCP relay serv	er on the sa	ame interface.	
	• You cannot enable	DCHP relay	y and a DH	ICP server (dhc	pd enable)	on the same in	nterface.
	• You cannot enable	DHCP relay	y in a cont	ext at the same t	ime as the	DHCP server.	
	• For multiple conte one context (a sha	•	ı cannot er	able DHCP rela	y on an inte	erface that is us	ed by more tha
	The no dhcprelay ena the interface that is spo	•			the DHCP	relay agent co	nfiguration fo

```
Examples The following example shows how to configure the DHCP relay agent for a DHCP server with an IP address of 10.1.1.1 on the outside interface of the security appliance, client requests on the inside interface of the security appliance, and a timeout value up to 90 seconds:
```

```
hostname(config)# dhcprelay server 10.1.1.1 outside
hostname(config)# dhcprelay timeout 90
hostname(config)# dhcprelay enable inside
hostname(config)# show running-config dhcprelay
dhcprelay server 10.1.1.1 outside
dhcprelay enable inside
dhcprelay timeout 90
```

The following example shows how to disable the DHCP relay agent:

```
hostname(config)# no dhcprelay enable inside
hostname(config)# show running-config dhcprelay
dhcprelay server 10.1.1.1 outside
dhcprelay timeout 90
```

Related Commands Co	Command	Description
	clear configure dhcprelay	Removes all DHCP relay agent settings.
·	debug dhcp relay	Displays debug information for the DHCP relay agent.
	dhcprelay server	Specifies the DHCP server that the DHCP relay agent forwards DHCP requests to.
	dhcprelay setroute	Defines IP address that the DHCP relay agent uses as the default router address in DHCP replies.
	show running-config dhcprelay	Displays the current DHCP relay agent configuration.

dhcprelay server

To specify the DHCP server that DHCP requests are forwarded to, use the **dhcpreplay server** command in global configuration mode. To remove the DHCP server from the DHCP relay configuration, use the **no** form of this command. The DHCP relay agent allows DHCP requests to be forwarded from a specified security appliance interface to a specified DHCP server.

dhcprelay server *IP_address interface_name*

no dhcprelay server *IP_address* [*interface_name*]

Syntax Description	interface_name	Name of the secur	rity appliance inte	rface on wł	nich the DHCP	server resides.		
,	IP_address	Name of the security appliance interface on which the DHCP server resides.The IP address of the DHCP server to which the DHCP relay agent forwards client DHCP requests.						
Defaults	No default behavior o	or values.						
ommand Modes	The following table s	hows the modes in wh	ich you can enter	the comma	nd:			
		Firewall	Mode	Security Context				
	Command Mode	Routed	Transparent	Sinale	Multiple Context System			
	Global configuration	•	—	•	•	_		
Command History	Release Modification							
	Preexisting This command was preexisting.							
Jsage Guidelines	servers total that can server command to the server command to the server command to the server serv	ar DHCP relay servers be configured on the so he security appliance c t configure a DHCP cli	ecurity appliance. configuration befo	You must re you can	add at least on enter the dhcp	e dhcprelay orelay enable		
	The dhcprelay server command opens UDP port 67 on the specified interface and starts the DHCP relations task as soon as the dhcprelay enable command is added to the configuration.							
	When you use the no dhcprelay server <i>IP_address</i> [<i>interface_name</i>] command, the interface stops forwarding DHCP packets to that server.							
	-							

Examples	The following example shows how to configure the DHCP relay agent for a DHCP server with an IP address of 10.1.1.1 on the outside interface of the security appliance, client requests on the inside interface of the security appliance, and a timeout value up to 90 seconds:					
	hostname(config)# dhcprelay server 10.1.1.1 outside					
	hostname(config)# dhcprelay timeout 90					
	hostname(config)# dhcprelay enable inside					
	hostname(config)# show running-config dhcprelay					
	dhcprelay server 10.1.1.1 outside					
	dhcprelay enable inside					
	dhcprelay timeout 90					

Related Commands	Command	Description			
	clear configure dhcprelay	Removes all DHCP relay agent settings.			
	dhcprelay enable	Enables the DHCP relay agent on the specified interface.			
	dhcprelay setroute	Defines IP address that the DHCP relay agent uses as the default router address in DHCP replies.			
	dhcprelay timeout	Specifies the timeout value for the DHCP relay agent.			
	show running-config dhcprelay	Displays the current DHCP relay agent configuration.			

dhcprelay setroute

To set the default gateway address in the DHCP reply, use the **dhcprelay setroute** command in global configuration mode. To remove the default router, use the **no** form of this command. This command causes the default IP address of the DHCP reply to be substituted with the address of the specified security appliance interface.

dhcprelay setroute *interface*

no dhcprelay setroute interface

Syntax Description	<i>interface</i> Configures the DHCP relay agent to change the first default IP address (in								
oyntax besonption	the packet sent from the DHCP server) to the address of <i>interface</i> .								
Defaults	No default behavior	or values.							
Command Modes	The following table	shows the m	odes in whic	h you can enter	the comma	ind:			
			Firewall Mode		Security Context				
						Multiple			
	Command Mode		Routed	Transparent	Single	Context	System		
	Global configuratio	'n	•	—	•	•	—		
Command History	Release Modification								
	Preexisting This command was preexisting.								
Usage Guidelines	The dhcprelay setroute <i>interface</i> command lets you enable the DHCP relay agent to change the first default router address (in the packet sent from the DHCP server) to the address of <i>interface</i> .								
	If there is no default router option in the packet, the security appliance adds one containing the address of <i>interface</i> . This action allows the client to set its default route to point to the security appliance.								
	When you do not configure the dhcprelay setroute <i>interface</i> command (and there is a defau option in the packet), it passes through the security appliance with the router address unalter								
Examples	The following example shows how to use the dhcprelay setroute command to set the default gateway in the DHCP reply from the external DHCP server to the inside interface of the security appliance:								
	<pre>hostname(config)# dhcprelay server 10.1.1.1 outside hostname(config)# dhcprelay timeout 90 hostname(config)# dhcprelay setroute inside hostname(config)# dhcprelay enable inside</pre>								
Related Commands	Command	Description							
-------------------------	----------------------------------	--							
	clear configure dhcprelay	Removes all DHCP relay agent settings.							
	dhcprelay enable	Enables the DHCP relay agent on the specified interface.							
	dhcprelay server	Specifies the DHCP server that the DHCP relay agent forwards DHCP requests to.							
	dhcprelay timeout	Specifies the timeout value for the DHCP relay agent.							
	show running-config dhcprelay	Displays the current DHCP relay agent configuration.							

dhcprelay timeout

To set the DHCP relay agent timeout value, use the **dhcprelay timeout** command in global configuration mode. To restore the timeout value to its default value, use the **no** form of this command.

dhcprelay timeout seconds

no dhcprelay timeout

Syntax Description	seconds	Specifies the numb negotiation.	er of seconds th	at are allow	ved for DHCP	relay address
Defaults	The default value for the	e dhcprelay timeout is	s 60 seconds.			
Command Modes	The following table show	ws the modes in whic	h you can enter	the comma	ind:	
		Firewall N	lode	Security (Context	
					Multiple	
	Command Mode	Routed	Transparent	Single	Context	System
	Global configuration	•	—	•	•	—
Command History	Release Preexisting	Modification This command was	s preexisting.			
Usage Guidelines	The dhcprelay timeout from the DHCP server to	•				for responses
Examples	The following example s address of 10.1.1.1 on th interface of the security	e outside interface of	f the security ap	pliance, cli	ent requests or	
	hostname(config)# dhcp hostname(config)# dhcp hostname(config)# dhcp hostname(config)# show dhcprelay server 10.1 dhcprelay enable inside dhcprelay timeout 90	prelay timeout 90 prelay enable insid w running-config db .1.1 outside	le			

Related Commands	Command	Description
	clear configure dhcprelay	Removes all DHCP relay agent settings.
	dhcprelay enable	Enables the DHCP relay agent on the specified interface.
	dhcprelay server	Specifies the DHCP server that the DHCP relay agent forwards DHCP requests to.
	dhcprelay setroute	Defines IP address that the DHCP relay agent uses as the default router address in DHCP replies.
	show running-config dhcprelay	Displays the current DHCP relay agent configuration.

dialog

To customize dialog messages displayed to WebVPN users, use the **dialog** command in webvpn customization configuration mode. To remove the command from the configuration and cause the value to be inherited, use the **no** form of this command.

dialog {title | message | border} style value no dialog {title | message | border} style value

Syntax Description	border Specifies you are changing the border.								
	message	Specifi	es you are cha	nging the messa	ige.				
	style Specifies you are changing the style.								
	title								
	value		tual text to dis num 256 chara	play (maximum cters).	256 charac	ters), or CSS p	parameters		
Defaults	The default title	style is backgr	ound-color:#6	69999;color:wh	ite.				
	The default mess	sage style is ba	ckground-colo	or:#99CCCC;col	or:black.				
	The default bord	er style is bord	ler:1px solid b	lack;border-coll	apse:collap	se.			
			Firewall Mode		Security Context				
						Multiple			
	Command Mode		Routed	Transparent	Single	Context	System		
	Webvpn custom configuration	ization	•		•	_	_		
Command History	Webvpn custom	ization Modific		_	•				
Command History	Webvpn custom configuration	Modifie		ntroduced.	•				
	Webvpn custom configuration Release 7.1(1) The style option scope of this doc World Wide Web	Modifi This co is expressed a cument. For mo o Consortium w	cation ommand was in s any valid CS ore information zebsite at www	S parameters. D a about CSS para w3.org. Append	Describing the ameters, condix F of the	nsult CSS spec CSS 2.1 Specif	cifications a fication cont		
	Webvpn custom configuration Release 7.1(1) The style option scope of this doc World Wide Web a convenient list	Modific This co is expressed at cument. For mo o Consortium w of CSS paramo	cation ommand was in s any valid CS ore information vebsite at www eters, and is av	S parameters. D a about CSS para w3.org. Append vailable at www.	Describing the ameters, condix F of the w3.org/TR	nsult CSS spec CSS 2.1 Specif (CSS21/propid	cifications a fication cont fication cont lx.html.		
Command History Usage Guidelines	Webvpn custom configuration Release 7.1(1) The style option scope of this doc World Wide Web a convenient list Here are some ti	Modific This cc is expressed at cument. For mc o Consortium w of CSS paramo ps for making a comma-sepa	cation ommand was in or any valid CS ore information vebsite at www eters, and is av the most comm	S parameters. D a about CSS para w3.org. Append vailable at www.	escribing the ameters, co dix F of the .w3.org/TR, the WebVPl	nsult CSS spec CSS 2.1 Specif (CSS21/propid N pages—the j	cifications a fication cont lx.html. page colors:		

• HTML format is #000000, six digits in hexadecimal format; the first and second represent red, the third and fourth green, and the fifth and sixth represent blue.

```
Note
```

e To easily customize the WebVPN pages, we recommend that you use ASDM, which has convenient features for configuring style elements, including color swatches and preview capabilities.

ExamplesThe following example customizes the dialog message, changing the foreground color to blue:F1-asa1(config)# webvpnF1-asa1(config-webvpn)# customization ciscoF1-asa1(config-webvpn-custom)# dialog message style color:blue

Related Commands	Command	Description
	application-access	Customizes the Application Access box of the WebVPN Home page.
	browse-networks	Customizes the Browse Networks box of the WebVPN Home page.
	web-bookmarks	Customizes the Web Bookmarks title or links on the WebVPN Home page.
	file-bookmarks	Customizes the File Bookmarks title or links on the WebVPN Home page.

dir

To display the directory contents, use the **dir** command in privileged EXEC mode.

dir [/all] [all-filesystems] [/recursive] [flash: | system:] [path]

Syntax Description									
	/all (Optional) Displays all files.								
	all-filesystems	(Optiona	l) Displays th	ne files of all fil	esystems				
	disk0:	(Optional	1) Specifies the	he internal Flas	h memory,	followed by a	colon.		
	disk1:	(Optional	l) Specifies the	he external Flas	h memory	card, followed	by a colon		
	/recursive	/recursive (Optional) Displays the directory contents recursively.							
	system: (Optional) Displays the directory contents of the file system.								
	flash:	(Optiona	l) Displays th	ne directory con	tents of the	e default Flash	partition.		
	path	(Optional	1) Specifies a	specific path.					
Defaults	If you do not specify	y a directory,	the directory	is the current v	vorking dir	ectory by defa	ult.		
Command Modes	The following table	shows the mo			1				
			Firewall M	ode	Security Context				
						Multiple			
	Command Mode		Routed	Transparent	Single	Context	System		
			nouteu				-		
	Privileged EXEC		•	•	•		•		
					-		-		
command History		Modifi	•		-		-		
Command History	Privileged EXEC		•	•	-		-		
	Privileged EXEC Release	This co	• cation ommand was	• introduced.	•	contents of th	•		
Jsage Guidelines	Privileged EXEC Release 7.0 The dir command w	This co vithout keywo	• cation ommand was ords or argum	• introduced.	•	contents of th	•		
Command History Jsage Guidelines Examples	Privileged EXEC Release 7.0 The dir command w directory.	This co /ithout keywo	• cation ommand was ords or argum	• introduced.	•	contents of th	•		
Jsage Guidelines	Privileged EXEC Release 7.0 The dir command we directory. The following exame hostname# dir	This co /ithout keywo ple shows ho 0: / 10:0 10:0 10:0	• cation ommand was ords or argum •	• introduced. eents displays th the directory co	•		•		

host	name# di :	r /recursive	disk0:
Dire	ctory of	disk0:/*	
1	-rw-	1519	10:03:50 Jul 14 2003 my_context.cfg
2	-rw-	1516	10:04:02 Jul 14 2003 my_context.cfg
3	-rw-	1516	10:01:34 Jul 14 2003 admin.cfg
6098	5344 byt	es total (60	973056 bytes free)

Related Commands

command	Description	
cd	Changes the current working directory to the one specified.	
pwd	Displays the current working directory.	
mkdir	Creates a directory.	
rmdir	Removes a directory.	

disable

To exit privileged EXEC mode and return to unprivileged EXEC mode, use the **disable** command in privileged EXEC mode.

disable

- **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:

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

Command History	Release	Modification
	Preexisting	This command was preexisting.

Usage Guidelines Use the **enable** command to enter privileged mode. The **disable** command allows you to exit privileged mode and returns you to an unprivileged mode.

Examples The following example shows how to enter privileged mode:

hostname> **enable** hostname#

The following example shows how to exit privileged mode:

hostname# **disable** hostname>

Related Commands	Command	Description
	enable	Enables privileged EXEC mode.

disable (cache)

To disable caching for WebVPN, use the **disable** command in cache configuration mode. To reenable caching, use the **no** version of this command.

disable

no disable

Defaults Caching is enabled with default settings for each cache attribute.

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

	Firewall Mode		Security Context			
					Multiple	
Command Mode	Routed	Transparent	Single	Context	System	
Cache configuration	•		•	—	_	

Command History	Release	Modification
	7.1(1)	This command was introduced.

Usage Guidelines Caching stores frequently reused objects in the system cache, which reduces the need to perform repeated rewriting and compressing of content. It reduces traffic between WebVPN and both the remote servers and end-user browsers, with the result that many applications run much more efficiently.

Examples

s The following example shows how to disable caching, and how to then reenable it.

hostname(config)# webvpn hostname(config-webvpn)# cache hostname(config-webvpn-cache)# disable hostname(config-webvpn-cache)# no disable hostname(config-webvpn-cache)#

Related Commands	Command	Description			
	cache	Enters WebVPN Cache mode.			
	cache-compressed	Configures WebVPN cache compression.			
	expiry-time	Configures the expiration time for caching objects without revalidating them.			
	lmfactor	Sets a revalidation policy for caching objects that have only the last-modified timestamp.			

Command	Description
max-object-size	Defines the maximum size of an object to cache.
min-object-size	Defines the minimum sizze of an object to cache.

disable service-settings

To disable the service settings on IP phones when using the Phone Proxy feature, use the **disable service-settings** command in phone-proxy configuration mode. To preserve the settings on the IP phones, use the **no** form of this command.

disable service-settings

no disable service-settings

- **Syntax Description** There are no arguments or keywords for this command.
- **Defaults** The service settings are disabled by default.

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
Phone-proxy configuration	•	_	•		_

Command History	Release	Modification
	8.0(4)	This command was introduced.

Usage Guidelines By default, the following settings are disabled on the IP phones:

- PC Port
- Gratuitous ARP
- Voice VLAN access
- Web Access
- Span to PC Port

To preserve the settings configured on the CUCM for each IP phone configured, configure the **no disable** service-settings command.

Examples

The following example shows the use of the **disable service-settings** command to preserve the settings of the IP phones that use the Phone Proxy feature on the ASA:

hostname(config-phone-proxy) # no disable service-settings

Related Commands	Command	Description
	phone-proxy	Configures the Phone Proxy instance.
	show phone-proxy	Displays Phone Proxy specific information.

display

To display attribute value pairs that the security appliance writes to the DAP attribute database, enter the **display** command in dap test attributes mode.

display

Command Default No default value or behaviors.

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	
dap test attributes	•	•	•	_		

Command History	Release	Modification
	8.0(2)	This command was introduced.

Usage Guidelines Normally the security appliance retrieves user authorization attributes from the AAA server and retrieves endpoint attributes from Cisco Secure Desktop, Host Scan, CNA or NAC. For the test command, you specify the user authorization and endpoint attributes in this attributes mode. The security appliance writes them to an attribute database that the DAP subsystem references when evaluating the AAA selection attributes and endpoint select attributes for a DAP record. The **display** command lets you display these attributes to the console.

Related Commandsl	Command	Description			
	attributes	Enters attributes mode, in which you can set attribute value pairs.			
	dynamic-access-policy-record	Creates a DAP record. Enters attributes submode.			
	test dynamic-access-policy attributes				
	test dynamic-access-policy execute	Executes the logic that generates the DAP and displays the resulting access policies to the console.			

distance eigrp

To configure the administrative distances of internal and external EIGRP routes, use the **distance eigrp** command in router configuration mode. To restore the default values, use the **no** form of this command.

distance eigrp internal-distance external-distance

no distance eigrp

Syntax Description	external-distance	<i>ce</i> Administrative distance for EIGRP external routes. External routes are those for which the best path is learned from a neighbor external to the autonomous system. Valid values are from 1 to 255.						
	internal-distanceAdministrative distance for EIGRP internal routes. Internal routes are those that are learned from another entity within the same autonomous system. Valid values are from 1 to 255.							
Defaults	The default values ar	e as follows:						
	• external-distance	<i>e</i> is 170						
	• internal-distance	e is 90						
Command Modes	The following table s	shows the modes in wl	uch vou can enter	the comma	und:			
	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		
	Router configuration	n •	—	•		—		
	<u></u>							
Command History	Release Modification							
	8.0(2)	This command w	vas introduced.					
Usage Guidelines	Because every routing protocol has metrics based on algorithms that are different from the other routing protocols, it is not always possible to determine the "best path" for two routes to the same destination that were generated by different routing protocols. Administrative distance is a route parameter that the security appliance uses to select the best path when there are two or more different routes to the same destination from two different routing protocols.							
	eigrp command to ad	n one routing protocol ljust the default admin o the other routing pro	istrative distances	of routes di	scovered by th	e EIGRP routii		

Route Source	Default Administrative Distance			
Connected interface	0			
Static route	1			
EIGRP summary route	5			
Internal EIGRP	90			
OSPF	110			
RIP	120			
EIGRP external route	170			
Unknown	255			

Table 11-1Default Administrative Distances

The **no** form of the command does not take any keywords or arguments. Using the **no** form of the command restores the default administrative distance for both internal and external EIGRP routes.

Examples

The following example uses the **distance eigrp** command set the administrative distance of all EIGRP internal routes to 80 and all EIGRP external routes to 115. Setting the EIGRP external route administrative distance to 115 would give routes discovered by EIGRP to a specific destination preference over the same routes discovered by RIP but not by OSPF.

```
hostname(config)# router eigrp 100
hostname(config-router)# network 192.168.7.0
hostname(config-router)# network 172.16.0.0
hostname(config-router)# distance eigrp 90 115
```

Related Commands	Command	Description	
	router eigrp	Creates an EIGRP routing process and enters configuration mode for that	
		process.	

distance ospf

To define OSPF route administrative distances based on route type, use the **distance ospf** command in router configuration mode. To restore the default values, use the **no** form of this command.

distance ospf [intra-area d1] [inter-area d2] [external d3]

no distance ospf

Syntax Description	<i>d1</i> , <i>d2</i> , and <i>d3</i>	Distan	Distance for each route types. Valid values range from 1 to 255.						
	external		nal) Sets the 1 by redistrib	distance for rou	tes from ot	her routing do	mains that are		
	inter-area		•	distance for all	routes from	n one eree to e	nother area		
				distance for all			nother area.		
	intra-area	(Option	nai) Sets the	distance for an	routes with	nn an area.			
Defaults	The default values for	or <i>d1</i> , <i>d2</i> , and	d <i>d3</i> are 110.						
Command Modes	The following table	shows the me	odes in whic	h you can enter	the comma	nd:			
			Firewall N	lode	Security C	ontext	⇒xt		
						Multiple			
	Command Mode		Routed	Transparent	Single	Context	System		
	Router configuratio	n	•	—	•		—		
Command History	Release	Modifi	cation						
	Preexisting	This co	ommand was	s preexisting.					
Usage Guidelines	You must specify at administrative distar reenter an administr administrative distar	nce separately ative distance	y, however th e, the admini	ey appear as a si istrative distance	ngle comm e for only tl	and in the conf	iguration. If you		
	The no form of the c command restores th default administrativy you can do one of th	ne default adn ve distance fo	ninistrative d	listance for all of	f the route t	ypes. If you wa	ant to restore the		
	• Manually set the	at route type	to the defaul	lt value.					
	 Manually set that route type to the default value. Use the no form of the command to remove the entire configuration and then re-enter the configurations for the route types you want to keep. 								

Examples

The following example sets the administrative distance of external routes to 150:

```
hostname(config-router)# distance ospf external 105
hostname(config-router)#
```

The following example shows how entering separate commands for each route type appears as a single command in the router configuration:

```
hostname(config-router)# distance ospf intra-area 105 inter-area 105
hostname(config-router)# distance ospf intra-area 105
hostname(config-router)# distance ospf external 105
hostname(config-router)# exit
hostname(config)# show running-config router ospf 1
!
router ospf 1
distance ospf intra-area 105 inter-area 105 external 105
!
hostname(config)#
```

The following example shows how to set each administrative distance to 105, and then change only the external administrative distance to 150. The **show running-config router ospf** command shows how only the external route type value changed, while the other route types retained the value previously set.

```
hostname(config-router)# distance ospf external 105 intra-area 105 inter-area 105
hostname(config-router)# distance ospf external 150
hostname(config-router)# exit
hostname(config)# show running-config router ospf 1
!
router ospf 1
distance ospf intra-area 105 inter-area 105 external 150
!
hostname(config)#
```

Related Commands	Command	Description
	router ospf	Enters router configuration mode.
	show running-config	Displays the commands in the global router configuration.
	router	
	-	

distribute-list in

To filter the networks received in routing updates, use the **distribute-list in** command in router configuration mode. To remove the filtering, use the **no** form of this command.

distribute-list acl in [interface if_name]

no distribute-list *acl* **in** [**interface** *if_name*]

Syntax Description	acl Name of a standard access list.							
	<i>if_name</i> (Optional) The interface name as specified by the nameif command. Specifying an interface causes the access list to be applied only to routing updates received on that interface.							
Defaults	Networks are not f	ïltered in inco	oming update	s.				
Command Modes	The following tabl	e shows the m	nodes in whic	ch you can enter	the comma	und:		
			Firewall N	lode	Security (Context		
						Multiple		
	Command Mode		Routed	Transparent	Single	Context	System	
	Router configuration	on	•		•		—	
Command History	Release	Modif	ication					
Command mistory	7.2(1)		command was	s introduced				
Usage Guidelines	If no interface is s	pecified, the a	ccess list wil	l be applied to a	ll incoming	g updates.		
Examples	The following example the 10.0.0.0 netwo	-		dates received or	n the outsid	le interface. It a	accepts routes in	
	hostname(config) hostname(config) hostname(config) hostname(config- hostname(config-	# access-lis # router rip router)# net	t ripfilter work 10.0.0	deny any .0		e outside		
	The following examine the 10.0.0.0 network of the 10.0.0.0 network of the 10.0.0.0 network of the text of	-	-	-	l on the out	side interface.	It accepts routes	
	hostname(config) hostname(config) hostname(config) hostname(config-	# access-lis # router eig	t eigrp_fil rp 100	ter deny any	0.0.0			

hostname(config-router)# distribute-list eigrp_filter in interface outside

Related Commands

Command	Description
distribute-list out	Filters networks from being advertised in routing updates.
router eigrp	Enters router configuration mode for the EIGRP routing process.
router rip	Enters router configuration mode for the RIP routing process.
show running-config router	Displays the commands in the global router configuration.

distribute-list out

To filter specific networks from being sent in routing updates, use the **distribute-list out** command in router configuration mode. To remove the filtering, use the **no** form of this command.

distribute-list *acl* **out** [**interface** *if_name* | **eigrp** *as_number* | **rip** | **ospf** *pid* | **static** | **connected**]

no distribute-list *acl* **out** [**interface** *if_name* | **eigrp** *as_number* | **rip** | **ospf** *pid* | **static** | **connected**]

Syntax Description	acl	Name of a s	standard acc	ess list.						
	connected	(Optional)	Filters only o	connected routes						
	eigrp as_number	(Optional) Filters only EIGRP routes from the specified autonomous system number. The <i>as_number</i> is the autonomous system number of the EIGRP routing								
					us system	number of the E	EIGRP routing			
	interferenci i forman	nterface if_name (Optional) The interface name as specified by the nameif command. Specifying an interface causes the access list to be applied only to routing updates sent on								
	interface <i>ij_name</i>									
		the specifie				-) 8 -r				
	ospf pid	(Optional)	Filters only	OSPF routes dise	covered by	the specified C	OSPF process.			
	rip	(Optional)	Filters only]	RIP routes.						
	static	(Optional)	Filters only s	static routes						
Defaults	Networks are not fil	tered in sent	updates.							
	T I 0.11 1.11									
Command Modes	The following table	shows the mo	odes in whic	ch you can enter	the comma	ind:				
			1		1					
			Firewall N	lode	Security (Security Context				
						Multiple				
	Command Mode		Routed	Transparent	Single	Context	System			
	Router configuratio	n	•		•	_				
Command History	Release	Modifi	cation							
	7.2(1)	This co	ommand was	s introduced.						
	8.0(2)	The eig	grp keyword	l was added.						
Usage Guidelines	If no interface is spe	ecified, the ac	ccess list wil	l be applied to a	ll outgoing	updates.				
							_			
Examples	The following exam	ple prevents	the 10.0.0.0	network from be	eing advert	ised in RIP upd	lates sent out of			
Examples	any interface:				eing advert	ised in RIP upd	lates sent out of			
Examples	-	access-list	: ripfilter	deny 10.0.0.0	eing advert	ised in RIP upc	lates sent out of			

```
hostname(config)# router rip
hostname(config-router)# network 10.0.0.0
hostname(config-router)# distribute-list ripfilter out
```

The following example prevents the EIGRP routing process from advertising the 10.0.0.0 network on the outside interface:

```
hostname(config)# access-list eigrp_filter deny 10.0.0.0
hostname(config)# access-list eigrp_filter permit any
hostname(config)# router eigrp 100
hostname(config-router)# network 10.0.0.0
hostname(config-router)# distribute-list eigrp_filter out interface outside
```

Related Commands	Command	Description
	distribute-list in	Filters networks received in routing updates.
	router eigrp	Enters router configuration mode for the EIGRP routing process.
	router rip	Enters router configuration mode for the RIP routing process.
	show running-config	Displays the commands in the global router configuration.
	router	

dns domain-lookup

To enable the security appliance to send DNS requests to a DNS server to perform a name lookup for supported commands, use the **dns domain-lookup** command in global configuration mode. To disable DNS lookup, use the **no** form of this command.

dns domain-lookup *interface_name*

no dns domain-lookup *interface_name*

Syntax Description	interface_name	this command m	erface on which yo ultiple times to en iance tries each int	able DNS l	ookup on mult	iple interfaces,
Defaults	DNS lookup is disable	d by default.				
Command Modes	The following table sh	lows the modes in wl	hich you can enter	the comma	ind:	
		Firewal	l Mode	Security (Context	
					Multiple	
	Command Mode	Routed	Transparent	Single	Context	System
	Global configuration	•	•	•	•	
				1	I.	
Command History	Release	Modification				
	7.0(1)	This command w	vas introduced.			
Usage Guidelines	Use the dns name-ser		•		•	
	DNS requests. See the The security appliance entries. Instead of mak translation is needed, t The security appliance out automatically acco	e maintains a cache o king queries to exterr the security applianc e only makes request	of name resolutions nal DNS servers ea e caches informati s for names that ar	s that consi ach time an on returned re not in the	sts of dynamic hostname-to-I l from external c cache. The ca	ally learned P-address I DNS requests. ache entries time
Examples	The following example hostname(config)# dr		-	terface:		

Related Commands

Command	Description
dns name-server	Configures a DNS server address.
dns retries	Specifies the number of times to retry the list of DNS servers when the security appliance does not receive a response.
dns timeout	Specifies the amount of time to wait before trying the next DNS server.
domain-name	Sets the default domain name.
show dns-hosts	Shows the DNS cache.

dns-group (tunnel-group webvpn configuration mode)

To specify the DNS server to use for a WebVPN tunnel-group, use the **dns-group** command in tunnel-group webvpn configuration mode. To restore the default DNS group, use the **no** form of this command.

dns-group name

no dns-group

Syntax Description	name Specifi tunnel		of the DNS serv	ver group c	onfiguration to	o use for the
Defaults	The default value is DefaultDNS.					
Command Modes	The following table shows the mo	odes in whic	h you can enter	the comma	nd:	
		Firewall N	lode	Security (ontext	
					Multiple	
	Command Mode	Routed	Transparent	Single	Context	System
	Tunnel-group webvpn-attributes configuration	•		•		
Command History	Release Modific	ation				
	7.1(1) This co	ommand was	s introduced.			
Usage Guidelines	The name can specify any DNS gr DNS server for the tunnel group.	oup. The dn	s-group commar	nd resolves	the hostname to	o the appropriate
	You configure the DNS group usi	ng the dns s	server-group co	mmand.		
Examples	The following example shows a co "dnsgroup1":	ustomizatio	n command that	specifies th	e use of the DI	NS group named
	hostname(config)# tunnel-grou hostname(config)# tunnel-grou hostname(config-tunnel-webvpn hostname(config-tunnel-webvpn	p test web)# dns-gro	vpn-attributes			

Related Commands

Command	Description
clear configure dns	Removes all DNS commands.
dns server-group	Enters DNS-server-group mode, in which you can configure a DNS server group.
show running-config dns-server group	Shows one or all the existing DNS server-group configurations.
tunnel-group webvpn-attributes	Enters the config-webvpn mode for configuring WebVPN tunnel-group attributes.

dns-guard

To enable the DNS guard function, which enforces one DNS response per query, use the **dns-guard** command in parameters configuration mode. To disable this feature, use the **no** form of this command.

dns-guard

no dns-guard

- **Syntax Description** This command has no arguments or keywords.
- DefaultsDNS guard is enabled by default. This feature can be enabled when inspect dns is configured even if a
policy-map type inspect dns is not defined. To disable, no dns-guard must explicitly be stated in the
policy map configuration. If inspect dns is not configured, the behavior is determined by the global
dns-guard command.

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	
Parameters configuration	•	•	•	•	_	

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

Usage Guidelines The indentification field in the DNS header is used to match the DNS response with the DNS header. One response per query is allowed through the security appliance.

Examples	The following example shows how to enable DNS guard in a DNS inspection policy map						
	hostname(config)# policy-map type inspect dns preset_dns_map						
	hostname(config-pmap)# parameters						
	hostname(config-pmap-p)# dns-guard						

Related Commands	Command	Description
	class	Identifies a class map name in the policy map.
	class-map type inspect	Creates an inspection class map to match traffic specific to an application.

Command	Description
policy-map	Creates a Layer 3/4 policy map.
show running-config policy-map	Display all current policy map configurations.

dns retries

To specify the number of times to retry the list of DNS servers when the security appliance does not receive a response, use the **dns retries** command in global configuration mode. To restore the default setting, use the **no** form of this command.

dns retries number

no dns retries [number]

Syntax Description	number	Specifies the numb	er of retries betw	ween 0 and	10. The defau	lt is 2.	
Defaults	The default number of	retries is 2.					
Command Modes	The following table sho	ows the modes in whic	h you can enter	the comma	nd:		
		Firewall N	ode	Security (Context		
					Multiple		
	Command Mode	Routed	Transparent	Single	Context	System	
	Global configuration	•	•	•	•		
	<u></u>						
Command History	Release Modification 7.0(1) This commond was introduced						
	7.0(1)This command was introduced.7.1(1)This command was deprecated for WebVPN connections.						
Usage Guidelines	Add DNS servers using						
Examples	The following example time. hostname(config)# dn hostname(config)#		ries to 0. The sec	curity appli	ance only tries	each server o	
Related Commands	Command	Description					
Kelated Commands		Enables the securit	v annliance to n	erform a na	ame lookun		
Kelated Commands	dns domain-lookup dns name-server	Enables the securit Configures a DNS		erform a na	ame lookup.		

Command	Description	
domain-name	Sets the default domain name.	
show dns-hosts	Shows the DNS cache.	

dns-server

To set the IP address of the primary and secondary DNS servers, use the **dns-server** command in group-policy configuration mode. To remove the attribute from the running configuration, use the **no** form of this command.

dns-server {**value** *ip_address* [*ip_address*] | none}

no dns-server

Syntax Description	none	Sets dns-servers to a null value, thereby allowing no DNS servers. Prevents inheriting a value from a default or specified group policy.						
	value <i>ip_address</i> Specifies the IP address of the primary and secondary DNS servers.							
Defaults	No default behavior	or values.						
Command Modes	The following table	shows the m	nodes in whic	ch you can enter	the comma	ınd:		
			Firewall N	lode	Security (Context		
						Multiple		
	Command Mode		Routed	Transparent	Single	Context	System	
	Group-policy confi	guration	•		•	—	—	
Command History	Release Modification							
	7.0(1)	This c	command was	s introduced.				
Usage Guidelines	This option allows i use the dns-server			er from another g	roup policy	v. To prevent inl	neriting a server,	
	Every time you issue the dns-server command you overwrite the existing setting. For example, if you configure DNS server x.x.x. and then configure DNS server y.y.y.y, the second command overwrites the first, and y.y.y.y becomes the sole DNS server. The same holds true for multiple servers. To add a DNS server rather than overwrite previously configured servers, include the IP addresses of all DNS servers when you enter this command.							
Examples	The following exam 10.10.10.30, and 10 hostname(config)# hostname(config-g	.10.10.45 for group-poli	r the group p	olicy named Firs	stGroup.			

dns server-group

To enter the dns server-group mode, in which you can specify the domain-name, name-server, number of retries, and timeout values for a DNS server to use for a tunnel-group, use the **dns server-group** command in global configuration mode. To remove a particular DNS server group, use the **no** form of this command.

dns server -group name

no dns server-group

Syntax Description	<i>name</i> Specifies the name of the DNS server group configuration to use for the tunnel group.							
Defaults	The default value is Default	DNS.						
Command Modes	The following table shows t	he modes in whic	h you can enter	the comma	ind:			
		Firewall N	lode	Security (Context			
	Command Mode				Multiple			
		Routed	Transparent	Single	Context	System		
	Global configuration	•		•				
Command History	Release Modification							
	7.0(1)This command was introduced.							
Usage Guidelines	The name can specify any E command.	DNS group. You c	onfigure the DN	S group us	ing the dns sei	ver-group		
Examples	The following example cont	figures a DNS ser	ver group name	d "eval":				
	hostname(config)# dns se hostname(config-dns-serve hostname(config-dns-serve hostname(config-dns-serve hostname(config-dns-serve hostname(config-dns-serve	er-group)# doma: er-group)# name er-group)# retr: er-group)# time	-server 192.168 les 5					

Related Commands

Command	Description
clear configure dns	Removes all DNS commands.
show running-config dns server-group	Shows the current running DNS server-group configuration.

dns timeout

To specify the amount of time to wait before trying the next DNS server, use the **dns timeout** command in global configuration mode. To restore the default timeout, use the **no** form of this command.

dns timeout seconds

no dns timeout [seconds]

Syntax Description	seconds	econdsSpecifies the timeout in seconds between 1 and 30. The default is 2 seconds. Each time the security appliance retries the list of servers, this timeout doubles. See the dns retries command to configure the number of retries.										
Defaults	The default timeout is 2	2 seconds.										
Command Modes	The following table sho	ows 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						
	Global configuration	•	•	•	•	—						
Command History	Release Modification											
	7.0(1)This command was introduced.											
Examples	The following example hostname(config)# dn		second:									
Related Commands	Command	Description										
	dns name-server	Configures a DNS	server address.									
	dns retries					dns retries Specifies the number of times to retry the list of DNS servers when the security appliance does not receive a response.						
	dns domain-lookupEnables the security appliance to perform a name lookup.											
	dns domain-lookup	Enables the securit	y appliance to p	erform a na	ame lookup.							
	dns domain-lookup domain-name	Sets the default do		erform a na	ame lookup.							

domain-name

To set the default domain name, use the **domain-name** command in global configuration mode. To remove the domain name, use the **no** form of this command. The security appliance appends the domain name as a suffix to unqualified names. For example, if you set the domain name to "example.com," and specify a syslog server by the unqualified name of "jupiter," then the security appliance qualifies the name to "jupiter.example.com."

domain-name name

no domain-name [name]

Syntax Description	name	Sets the domain n	ame, up to 63 cha	aracters.					
Defaults	The default domain na								
Command Modes	The following table sho	ows the modes in whi	ich you can enter	the comma	ınd:				
		Firewall	Mode	Security (Context				
					Multiple				
	Command Mode	Routed	Transparent	Single	Context	System			
	Global configuration	•	•	•	•	•			
Command History	Release Modification								
	Preexisting This command was preexisting.								
Usage Guidelines	For multiple context m execution space.	ode, you can set the c	domain name for	each conte	xt, as well as w	ithin the system			
Examples	The following example sets the domain as example.com:								
	hostname(config)# do	main-name example.	com						
Related Commands	Command	Description							
	dns domain-lookup	Enables the secur	ity appliance to p	erform a na	ame lookup.				
	dns name-server	Configures a DNS	S server address.						

Command	Description
hostname	Sets the security appliance hostname.
show running-config domain-name	Shows the domain name configuration.

domain-name (dns server-group)

To set the default domain name, use the **domain-name** command in dns server-group configuration mode. To remove the domain name, use the **no** form of this command. The security appliance appends the domain name as a suffix to unqualified names. For example, if you set the domain name to "example.com," and specify a syslog server by the unqualified name of "jupiter," then the security appliance qualifies the name to "jupiter.example.com."

domain-name name

no domain-name [name]

Syntax Description	name Sets the domain name, up to 63 characters.						
Defaults	The default domain name is default.domain.invalid.						
Command Modes	The following table shows the modes in which you can enter the command:						
		Firewall Mode		lode	Security Context		
						Multiple	
	Command Mode		Routed	Transparent	Single	Context	System
	dns server-group configu	uration	•	•	•	•	•
Command History	Release Modification						
	7.1(1)This command replaces the dns domain-lookup command, which is deprecated.						
Usage Guidelines	For multiple context mode, you can set the domain name for each context, as well as within the system execution space.						
Examples	The following example sets the domain as "example.com" for "dnsgroup1":						
	hostname(config)# dns server-group dnsgroup1 hostname(config-dns-server-group)# domain-name example.com hostname(config-dns-server-group)#						
Related Commands	Command	Descri	iption				
	clear configure dns	Removes all DNS commands.					
	dns server-group	Enters DNS-server-group mode, in which you can configure a DNS server group.					
Command	Description						
---	---						
domain-name	Sets the default domain name globally.						
show running-config dns-server group	Shows one or all the current DNS server-group configurations.						

To downgrade to a previous version of the operating system software (software image), use the **downgrade** command in privileged EXEC mode.

<u>/</u> Caution

Do not load a previous version of the software if your PIX security appliance is currently running PIX Version 7.0 or later. Loading a software image from monitor mode, on a PIX security appliance that has a PIX Version 7.0 file system, results in unpredictable behavior and is not supported. We strongly recommend that you use the **downgrade** command from a running PIX Version 7.0 image that facilitates the downgrade process.

downgrade image_url [activation-key [flash | 4-part_key | file]] [config start_config_url]

Syntax Description	4-part_key	(Optional) Specifies the four-part activation key to write to the image.
		If you are using a five-part key, a warning with the list of features that might be lost by going back to the four-part key is generated.
		If the system Flash has been reformatted or erased, no default key is available for the downgrade. In that case, the CLI prompts you to enter an activation key at the command line. This is the default behavior if the activation-key keyword is not specified at the command line.
	activation-key	(Optional) Specifies the activation key to use with the downgraded software image.
	config	(Optional) Specifies the startup configuration file.
	file	(Optional) Specifies the path/URL and name of the activation key file to use after the downgrade procedure completes. If the source image file is the one saved in Flash during the upgrade process, the activation key in this file is used with the downgrade.
	flash	(Optional) Specifies to look in flash memory for the four-part activation key that was used on the device prior to using a five-part activation key. This is the default behavior if the activation-key keyword is not specified at the command line.
	image_url	Specifies the path/URL and name of the software image to downgrade to. The software image must be a version prior to 7.0.
	start_config_url	(Optional) Specifies the path/URL and name of the configuration file to use after the downgrade procedure completes.

Defaults

If the **activation-key** keyword is not specified, the security appliance tries to use the last four-part activation key used. If the security appliance cannot find a four-part activation key in Flash, the command is rejected and an error message displays. In this case, a valid four-part activation-key must be specified at the command line next time. The default activation key or the user specified activation key is compared with the activation key currently in effect. If there is a potential loss of features by using the chosen activation key, a warning displays with the list of features that could be lost after downgrade.

The security appliance uses downgrade.cfg by default if the startup configuration file is not specified.

downgrade

		Firewall N	lode	Security Context					
					Multiple				
	Command Mode	Routed	Transparent	Single	Context	System			
	Privileged EXEC	•	•	•					
ommand History	Version	Modification							
	7.0	This command was	s introduced.						
sage Guidelines		ilable only on Cisco PIX This command is not su							
Caution	-	A power failure during the downgrade process might corrupt the flash memory. As a precaution, backu all data on the flash memory to an external device prior to starting the downgrade process.							
	Recovering corrupt flash memory requires direct console access. See the format command for more information.								
	• •	ash memory requires di	rect console acc	ess. See the	e format comm	nand for more			
amples	information.				e format comm	nand for more			
amples	The following examp	le downgrades the softw tftp://17.13.2.25//	vare to Version 6	5.3.3:					
amples	information. The following examp hostname# downgrade 32c261f3 062afe24 c This command will r Do you wish to cont Buffering image	le downgrades the softw e tftp://17.13.2.25// g94ef2ea 0e299a3f reformat the flash and cinue? [confirm]	vare to Version 6 tftpboot/manant d automatically	5.3.3: thr/cdisk. y reboot t	6.3.3 activat he system.	:ion-key			
amples	information. The following examp hostname# downgrade 32c261f3 062afe24 c This command will r Do you wish to cont Buffering image	le downgrades the softw e tftp://17.13.2.25// 94ef2ea 0e299a3f reformat the flash and tinue? [confirm]	vare to Version 6 tftpboot/manant d automatically	5.3.3: thr/cdisk. y reboot t	6.3.3 activat he system.	:ion-key			
amples	information. The following examp hostname# downgrade 32c261f3 062afe24 c This command will r Do you wish to cont Buffering image	le downgrades the softw a tftp://17.13.2.25// 94ef2ea 0e299a3f reformat the flash and tinue? [confirm]	vare to Version 6 tftpboot/manant d automatically	5.3.3: thr/cdisk. y reboot t	6.3.3 activat he system.	:ion-key			
amples	information. The following examp hostname# downgrade 32c261f3 062afe24 c This command will r Do you wish to cont Buffering image 111111111111111111111111111111111111	le downgrades the softw a tftp://17.13.2.25// 294ef2ea 0e299a3f reformat the flash and tinue? [confirm] 	vare to Version 6 tftpboot/manant d automatically 	5.3.3: thr/cdisk. y reboot t !!!!!!!!!!! !!!!!!!!!!!!!!!!!!!!!!	6.3.3 activat he system. 	: ion-key !!!!!!!!!!!!!!!			

Rebooting....

Enter zero actkey:

The following example shows what happens if you enter an invalid activation key:

Enter the file option when there is no actkey in the source image (happens if the source is in tftp server).

The following example shows what happens if you specify the activation key in the source image and it does not exist:

The following example shows how to abort the downgrade procedure at the final prompt:

Buffering startup config

All items have been buffered successfully. If the flash reformat is interrupted or fails, data in flash will be lost and the system might drop to monitor mode. Do you wish to continue? [confirm] ===<typed **n** here> Downgrade process terminated.

To downgrade, the software version must be less than 7.0. The following example shows a failed attempt at downgrading the software:

The following example shows what happens if you specify an image and do not verify the activation key:

The following example shows what happens if the four-part activation key does not have all the features that the current five-part activation key has:

```
hostname# downgrade tftp://17.13.2.25//tftpboot/mananthr/cdisk.6.3.3
This command will reformat the flash and automatically reboot the system.
Do you wish to continue? [confirm]
Buffering image
1111
The following features available in current activation key in flash
are NOT available in 4 tuple activation key in flash:
VPN-3DES-AES
GTP/GPRS
5 Security Contexts
Failover is different:
current activation key in flash: UR(estricted)
4 tuple activation key in flash: R(estricted)
Some features might not work in the downgraded image if this key is used.
Do you wish to continue? [confirm]
Downgrade process terminated.
Please enter an activation-key in the command line.
```

Related Commands

Description

copy running-configSaves the current running configuration to flash memory.startup-config

Command

download-max-size

To specify the maximum size allowed for an object to download, use the **download-max-size** command in group-policy webvpn configuration mode. To remove this object from the configuration, use the **no** version of this command.

download-max-size <size>

no download-max-size

Syntax Description	<i>size</i> Specifies the maximum size allowed for a downloaded object. The range is 0 through 2147483647.								
Defaults	The default size is 21474836	647.							
Command Modes	The following table shows the	ne modes in whic	ch you can enter	the comma	nd:				
		Firewall N	lode	Security C	Context				
					Multiple				
	Command Mode	Routed	Transparent	Single	Context	System			
	Group-policy webvpn configuration mode	•		•					
Command History	Release Modification								
	8.0(2) Th	nis command was	s introduced.						
Usage Guidelines	Setting the size to 0 effective	ely disallows obj	ect downloading	ŗ.					
Examples	The following example sets	the maximum siz	ze for a downloa	ded object	to 1500 bytes:				
	hostname(config)# group-g hostname(config-group-pol hostname(config-group-web	icy)# webvpn							
Related Commands	Command	Desc	cription						
	post-max-size	Spec	ifies the maxim	um size of a	an object to po	ost.			
	upload-max-size	Spec	ifies the maxim	um size of a	an object to up	oload.			

Command	Description
webvpn	Use in group-policy configuration mode or in username configuration mode. Lets you enter webvpn mode to configure parameters that apply to group policies or usernames.
webvpn	Use in global configuration mode. Lets you configure global settings for WebVPN.

drop

To drop all packets that match the **match** command or **class** command, use the drop command in match or class configuration mode. To disable this action, use the **no** form of this command.

drop [send-protocol-error] [log]

no drop [send-protocol-error] [log]

Syntax Description	send-protocol-error Sends a protocol error message.							
	log	Logs the match. The system log message number depends on the application.						
Defaults	No default behaviors or	values.						
Command Modes	The following table show	ws 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	
	Match and class configu	uration	•	•	•	•		
Command History	Release Modification							
	7.2(1)	This c	ommand was	s introduced.				
Usage Guidelines	When using the Modular using the drop comman inspection policy map (t applications allow this a	d in mate he polic	ch or class co	onfiguration mod	de. This dro	op action is ava	ilable in an	
	An inspection policy map consists of one or more match and class commands. The exact commands available for an inspection policy map depends on the application. After you enter the match or class command to identify application traffic (the class command refers to an existing class-map type inspect command that in turn includes match commands), you can enter the drop command to drop all packets that match the match command or class command.							
	If you drop a packet, the if the first action is to du If the first action is to lo can configure both the d packet is logged before	op the page the page the page rop and	acket, then it eket, then a s the log action	t will never matc econd action, su n for the same m	ch any furth ich as dropp	er match or c loing the packet	ass commands. , can occur. You	

When you enable application inspection using the **inspect** command in a Layer 3/4 policy map (the **policy-map** command), you can enable the inspection policy map that contains this action, for example, enter the **inspect http http_policy_map** command where http_policy_map is the name of the inspection policy map.

Examples The following example drops packets and sends a log when they match the http-traffic class map. If the same packet also matches the second **match** command, it will not be processed because it was already dropped.

hostname(config-cmap)# policy-map type inspect http http-map1 hostname(config-pmap)# class http-traffic hostname(config-pmap-c)# drop log hostname(config-pmap-c)# match req-resp content-type mismatch hostname(config-pmap-c)# reset log

Related Commands	Commands	Description
	class	Identifies a class map name in the policy map.
	class-map type inspect	Creates an inspection class map to match traffic specific to an application.
	policy-map	Creates a Layer 3/4 policy map.
	policy-map type inspect	Defines special actions for application inspection.
	show running-config policy-map	Display all current policy map configurations.

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drop-connection

drop-connection

When using the Modular Policy Framework, drop packets and close the connection for traffic that matches a **match** command or class map by using the **drop-connection** command in match or class configuration mode. The connection will be removed from the connection database on the security appliance. Any subsequent packets entering the security appliance for the dropped connection will be discarded. This drop-connection action is available in an inspection policy map (the **policy-map type inspect** command) for application traffic; however, not all applications allow this action. To disable this action, use the **no** form of this command.

drop-connection [send-protocol-error] [log]

no drop-connection [send-protocol-error] [log]

Syntax Description	send-protocol-error	Sends	a protocol e	rror message.				
	log	Logs the match. The system log message number depends on the application.						
Defaults	No default behaviors or	values.						
Command Modes	The following table sho	ws the m	odes in whic	h you can enter	the comma	ind:		
			Firewall N	lode	Security C	Context		
						Multiple		
	Command Mode		Routed	Transparent	Single	Context	System	
	Match and class config	uration	•	•	•	•		
Command History	Release Modification							
	7.2(1)This command was introduced.							
Usage Guidelines	An inspection policy ma available for an inspecti command to identify app command that in turn in packets and close the co	on policy plication cludes m	y map depend traffic (the c l atch comman	ds on the applica l ass command re nds), you can ent	tion. After fers to an ex er the drop	you enter the xisting class-m - connection c	match or class ap type inspector ommand to dro	
	If you drop a packet or c map. For example, if the match any further match such as dropping the pac for the same match or c l	e first act h or class cket, can	ion is to dro commands. occur. You c	p the packet and If the first action an configure bot	close the c is to log th h the drop	connection, the ne packet, then -connection ar	n it will never a second action ad the log actio	

When you enable application inspection using the **inspect** command in a Layer 3/4 policy map (the **policy-map** command), you can enable the inspection policy map that contains this action, for example, enter the **inspect http http_policy_map** command where http_policy_map is the name of the inspection policy map.

Examples

The following example drops packets, closes the connection, and sends a log when they match the http-traffic class map. If the same packet also matches the second **match** command, it will not be processed because it was already dropped.

hostname(config-cmap)# policy-map type inspect http http-map1 hostname(config-pmap)# class http-traffic hostname(config-pmap-c)# drop-connection log hostname(config-pmap-c)# match req-resp content-type mismatch hostname(config-pmap-c)# reset log

Related Commands	Commands	Description
	class	Identifies a class map name in the policy map.
	class-map type inspect	Creates an inspection class map to match traffic specific to an application.
	policy-map	Creates a Layer 3/4 policy map.
	policy-map type inspect	Defines special actions for application inspection.
	show running-config policy-map	Display all current policy map configurations.

dtls port

To specify a port for DTLS connections, use the **dtls port** command from webvpn configuration mode. To remove the command from the configuration, use the **no** form of this command:

dtls port number

no dtls port number

Syntax Description	number	<i>number</i> The UDP port number, from 1 to 65535.						
Defaults	The default port number	er is 443.						
Command Modes	The following table she	ows the modes in whi	ch you can enter t	he command	:			
		Firew	all Mode	Security	Context			
					Multiple			
	Command Mode	Route	d Transpare	ent Single	Context	System		
	Webvpn configuration	•		•				
Command History	Release Modification							
	8.0(2) This command was introduced.							
Jsage Guidelines	This command specifies the UDP port to be used for SSL VPN connections using DTLS. DTLS avoids latency and bandwidth problems associated with some SSL connections and improves the performance of real-time applications that are sensitive to packet delays.							
xamples	The following example enters webvpn configuration mode and specifies port 444 for DTLS:							
	hostname(config)# webvpn hostname(config-webvpn)# dtls port 444							
Related Commands	Command	Description						
	dtls enable	Enables DTLS on an	n interface.					
	svc dtls	Enables DTLS for g	roups or users esta	ablishing SS	L VPN conne	ctions.		
	vpn-tunnel-protocol Specifies VPN protocols that the security appliance allows for remote access, including SSL.							

duplex

To set the duplex of a copper (RJ-45) Ethernet interface, use the **duplex** command in interface configuration mode. To restore the duplex setting to the default, use the **no** form of this command.

duplex {auto | full | half}

no duplex

Syntax Description	auto Auto-detects the duplex mode.								
	fullSets the duplex mode to full duplex.								
	half S	ets the duplex mo	de to half duple:	х.					
Defaults	The default is auto detect.								
Command Modes	The following table shows t	he modes in whic	ch you can enter	the comma	nd:				
		Firewall N	lode	Security C	Context				
					Multiple				
	Command Mode	Routed	Transparent	Single	Context	System			
	Interface configuration	•	•	•		•			
Command History	Release Modification								
	7.0(1) This command was moved from a keyword of the interface command to an interface configuration mode command.								
Usage Guidelines	Set the duplex mode on the physical interface only. The duplex command is not available for fiber media.								
	If your network does not support auto detection, set the duplex mode to a specific value.								
	For RJ-45 interfaces on the ASA 5500 series adaptive security appliance, the default auto-negotiation setting also includes the Auto-MDI/MDIX feature. Auto-MDI/MDIX eliminates the need for crossover cabling by performing an internal crossover when a straight cable is detected during the auto-negotiation phase. Either the speed or duplex must be set to auto-negotiate to enable Auto-MDI/MDIX for the interface. If you explicitly set both the speed and duplex to a fixed value, thus disabling auto-negotiation for both settings, then Auto-MDI/MDIX is also disabled.								

Examples The following example sets the duplex mode to full duplex: hostname(config)# interface gigabitethernet0/1

```
hostname(config-if)# speed 1000
hostname(config-if)# duplex full
hostname(config-if)# nameif inside
hostname(config-if)# security-level 100
hostname(config-if)# ip address 10.1.1.1 255.255.255.0
hostname(config-if)# no shutdown
```

Related Commands	Command	Description
	clear configure interface	Clears all configuration for an interface.
	interface	Configures an interface and enters interface configuration mode.
	show interface	Displays the runtime status and statistics of interfaces.
	show running-config interface	Shows the interface configuration.
	speed	Sets the interface speed.

dynamic-access-policy-config

To configure a DAP record and the access policy attributes associated with it, use the **dynamic-access-policy-config** command in global configuration mode. To remove an existing DAP configuration, use the **no** form of this command.

To activate a DAP selection configuration file, use the **dynamic-access-policy-config** command with the activate argument.

dynamic-access-policy-config name | activate

no dynamic-access-policy-config

name	Specifies the name of the DAP record. The name can be up to 64 characters long and cannot contain spaces.	
activate	Activates the DAP selection configration file	

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
Name - Global configuration	•	•	•	—	
Activeate - Privileged EXEC					

Command History	Release	Modification
8.0(2) TI		This command was introduced.

Usage Guidelines

Use the dynamic-access-policy-config command in global configuration mode to create one or more DAP records. When you use this command you enter dynamic-access-policy-record mode, in which you can set attributes for the named DAP record. The commands you can use in dynamic-access-policy-record mode include the following:

- action
- description
- network-acl
- priority
- user-message
- webvpn

Examples

The following example shows how to configure the DAP record named user1.

hostname(config)# dynamic-access-policy-config user1
hostname(config-dynamic-access-policy-record)#

Related Commands	Command	Description			
	dynamic-access-policy-record	Populates the DAP record with access policy attributes.			
	show running-config	Displays the running configuration for all DAP records, or for			
	dynamic-access-policy-record	the named DAP record.			
	[name]				

dynamic-access-policy-record

To create a DAP record and populate it with access policy attributes, use the **dynamic-access-policy-record** command in global configuration mode. To remove an existing DAP record, use the **no** form of this command.

dynamic-access-policy-record name

no dynamic-access-policy-record name

Syntax Description	<i>name</i> Specifies the name of the DAP record. The name can be up to 64 characters long and cannot contain spaces.							
Defaults	No default behavior or value	es.						
Command Modes	The following table shows the modes in which you can enter the command:							
	Firewall Mode		lode	Security Co		ntext		
					Multiple			
	Command Mode	Routed	Transparent	Single	Context	System		
	Global configuration	•	•	•				
Command History	Release M	odification						
Commanu mistory	ReleaseWoomcation8.0(2)This command was introduced.							
Usage Guidelines	Use the dynamic-access-policy-record command in global configuration mode to create one or more DAP records. When you use this command you enter dynamic-access-policy-record mode, in which you can set attributes for the named DAP record. The commands you can use in dynamic-access-policy-record mode include the following: action 							
	description							
	• network-acl							
	• priority							
	• user-message							
	• webvpn							
Examples	The following example shows how to create a DAP record named Finance. hostname(config) # dynamic-access-policy-record Finance hostname(config-dynamic-access-policy-record)#							

Related Commands	Command	Description				
	clear config dynamic-access-policy-record [name]	Removes all DAP records or the named DAP record.				
	dynamic-access-policy-config url	Configures the DAP Selection Configuration file.				
	<pre>show running-config dynamic-access-policy-record [name]</pre>	Displays the running configuration for all DAP records, or for the named DAP record.				