



I2tp tunnel hello through log-adj-changes Commands

l2tp tunnel hello

To specify the interval between hello messages on L2TP over IPSec connections, use the **l2tp tunnel hello** command in global configuration mode. To reset the interval to the default, use the **no** form of the command:

12tp tunnel hello interval

no l2tp tunnel hello interval

Syntax Description	<i>interval</i> Interval between hello messages in seconds. The Default is 60 seconds. The range is 10 to 300 seconds.									
Defaults	The default is 60 second	s.								
Command Modes	The following table show	ws the mode	es in whic	h you can enter	the comma	nd:				
		F	irewall N	lode	Security C	ontext				
						Multiple				
	Command Mode	F	Routed	Transparent	Single	Context	System			
	Global configuration		•	•	•	_				
							·			
Command History	Release Modification									
	7.2(1) This command was introduced.									
Usage Guidelines	The l2tp tunnel hello collayer of the L2TP connet that are experiencing pro-	ction. The c	lefault is	60 secs. If you c						
Examples	The following example configures the interval between hello messages to 30 seconds:									
	<pre>hostname(config)# 12t;</pre>	p tunnel h	ello 30							
Related Commands	Command		Descript	ion						
	show vpn-sessiondbdet filter protocol L2TPOv		•	s the details of L	2TP conne	ctions.				
	vpn-tunnel-protocol l2	tp-ipsec	Enables	L2TP as a tunne	ling protoc	ol for a specifi	ic tunnel group.			

OL-12173-03

Idap-attribute-map (aaa-server host mode)

To bind an existing mapping configuration to an LDAP host, use the **ldap-attribute-map** command in aaa-server host configuration mode. To remove the binding, use the **no** form of this command.

ldap-attribute-map map-name

no ldap-attribute-map map-name

Syntax Description	map-name Specifie	s an LDAP a	ttribute mapping	configurat	tion.				
Defaults	No default behavior or values.								
Command Modes	The following table shows the m		-	1					
		Firewall N	lode	Security (Multiple				
	Command Mode	Routed	Transparent	Single	Context	System			
	Aaa-server host configuration	•	•	•	•				
Command History	Release Modifi	ication							
	7.1(1) This command was introduced.								
Jsage Guidelines	 If the Cisco-defined LDAP attribucereate your own attribute names, configuration to an LDAP server 1. Use the ldap attribute-map attribute map. This comman "Idap" in this command. 	, map them to : Your typica command in d enters ldap	Cisco attributes Il steps would in I global configur	s, and then clude: ration mode node. Note	bind the result e to create an u that there is no	ing attribute			
	2. Use the map-name and map-value commands in ldap-attribute-map mode to populate the attribut mapping configuration.								
			nands in ldap-att	ribute-map	mode to popu	late the attribu			
			-	-					
Examples	mapping configuration.3. Use the ldap-attribute-map	erver. ds, entered in	n aaa-server host n aaa-server host	t mode to b	ind the attribu	e map			

Cisco ASA 5580 Adaptive Security Appliance Command Reference

Related Commands	Command	Description
	ldap attribute-map (global configuration mode)	Creates and names an LDAP attribute map for mapping user-defined attribute names to Cisco LDAP attribute names.
	map-name	Maps a user-defined LDAP attribute name with a Cisco LDAP attribute name.
	map-value	Maps a user-defined attribute value to a Cisco attribute.
	show running-config ldap attribute-map	Displays a specific running ldap attribute mapping configuration or all running attribute mapping configurations.
	clear configure ldap attribute-map	Removes all LDAP attribute maps.

Idap attribute-map (global configuration mode)

To create and name an LDAP attribute map for mapping user-defined attribute names to Cisco LDAP attribute names, use the **ldap attribute-map** command in global configuration mode. To remove the map, use the **no** form of this command.

ldap attribute-map map-name

no ldap attribute-map map-name

Syntax Description	<i>map-name</i> Specifies a user-defined name for an LDAP attribute map.								
Defaults	No default behavi	or or values.							
Command Modes	The following tab	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		Context	System		
	Global configurat	tion	•	•	•	•			
Command History	Release	Modifi	ication						
	7.1(1) This command was introduced.								
Usage Guidelines	 With the ldap attrattrattribute names. Y would be as follow 1. Use the ldap attribute map. 2. Use the mapmap. 	You can then bin ws: attribute-map . This comman	nd the resulti command in ds enters Ida	ng attribute map nglobal configu p-attribute-map	o to an LDA ration mode mode.	AP server. Your	typical steps		
	3. Use the Idap - LDAP server.	-		n aaa-server hos in this comman		ind the attribut	e map to an		
Note	To use the attribut names and values			•••			LDAP attribute		
Examples	The following exa named myldapma hostname(config)	p prior to popu	lating it or b	inding it to an L			AP attribute map		

Cisco ASA 5580 Adaptive Security Appliance Command Reference

hostname(config-ldap-attribute-map)#

Related Commands

Command	Description
ldap-attribute-map (aaa-server host mode)	Binds an LDAP attribute map to an LDAP server.
map-name	Maps a user-defined LDAP attribute name to a Cisco LDAP attribute name.
map-value	Maps a user-defined attribute value to the Cisco attribute name.
show running-config ldap attribute-map	Displays a specific running LDAP attribute map or all running attribute maps.
clear configure ldap attribute-map	Removes all LDAP attribute maps.

Idap-base-dn

To specify the location in the LDAP hierarchy where the server should begin searching when it receives an authorization request, use the **ldap-base-dn** command in aaa-server host configuration mode. Aaa-server host configuration mode is accessibile from aaa-server protocol configuration mode. To remove this specification, thus resetting the search to start at the top of the list, use the **no** form of this command.

ldap-base-dn string

no ldap-base-dn

Syntax Description	stringA case-sensitive string of up to 128 characters that specifies the location in the LDAP hierarchy where the server should begin searching when it receives an authorization request; for example, OU=Cisco. Spaces are not permitted in the string, but other special characters are allowed.								
Defaults	Start the search a	t the top of the	list.						
Command Modes	The following tab	ole shows the m	odes in whic	ch you can enter	the comma	ind:			
			Firewall N	lode	Security (Context			
						Multiple			
	Command Mode		Routed	Transparent	Single	Context	System		
	Aaa-server host o	configuration	•	•	•	•	—		
Command History	Release Modification								
	7.0(1)	Pre-exist	ting commar	nd, modified for	this release)			
Usage Guidelines	This command is	valid only for l	LDAP server	'S.					
Examples	The following example configures an LDAP AAA server named srvgrp1 on host 1.2.3.4, sets a timeout of 9 seconds, sets a retry-interval of 7 seconds, and configures the LDAP base DN as starthere.								
	hostname(config hostname(config hostname(config hostname(config hostname(config	-aaa-server-gi -aaa-server-ho -aaa-server-ho -aaa-server-ho	roup)# aaa - ost)# timeo ost)# retry ost)# ldap-	server svrgrp1 ut 9 7		3.4			

Related Commands

Command	Description
aaa-server host	Enters AAA server host configuration mode so you can configure AAA server parameters that are host-specific.
ldap-scope	Specifies the extent of the search in the LDAP hierarchy that the server should make when it receives an authorization request.
ldap-naming-attribute	Specifies the Relative Distinguished Name attribute (or attributes) that uniquely identifies an entry on the LDAP server.
ldap-login-dn	Specifies the name of the directory object that the system should bind as.
ldap-login-password	Specifies the password for the login DN.

Idap-defaults

To define LDAP default values, use the **ldap-defaults** command in crl configure configuration mode. Crl configure configuration mode is accessible from crypto ca trustpoint configuration mode. These default values are used only when the LDAP server requires them. To specify no LDAP defaults, use the **no** form of this command.

ldap-defaults server [port]

no ldap-defaults

Syntax Description	<i>port</i> (Optional) Specifies the LDAP server port. If this parameter is not specified, the security appliance uses the standard LDAP port (389).								
	<i>server</i> Specifies the IP address or domain name of the LDAP server. If one exist within the CRL distribution point, it overrides this value.								
	The default setting is no	ot set.							
ommand Modes	The following table sho	ws the modes in wh	ich you can enter	the comma	ind:				
		Firewall	Mode	Security (Context				
					Multiple				
	Command Mode	Routed	Transparent	Single •	Context	System			
	Crl configure configura	tion •	•		•	•			
ommand History	Release Modification								
	7.0(1)This command was introduced.								
Examples	The following example defines LDAP default values on the default port (389):								
xamples	The following example	defines LDAP defau	ilt values on the d	efault port	(389):				
Examples	The following example hostname(config)# cry hostname(ca-trustpoin hostname(ca-crl)# lda	pto ca trustpoint nt)# crl configure	central	efault port	(389):				
Examples	hostname(config)# cry hostname(ca-trustpoin	pto ca trustpoint nt)# crl configure	central	efault port	(389):				
	hostname(config)# cry hostname(ca-trustpoin	pto ca trustpoint nt)# crl configure	central	efault port	(389):				
	hostname(config)# cry hostname(ca-trustpoin hostname(ca-crl)# 1da	npto ca trustpoint ht)# crl configure np-defaults ldapdo	central main4 8389	efault port	(389):				
Examples Related Commands	hostname(config)# cry hostname(ca-trustpoin hostname(ca-crl)# 1da	ppto ca trustpoint at)# crl configure ap-defaults ldapdo Description	central main4 8389 figuration mode. configuration mode	de.					

ldap-dn

To pass a X.500 distinguished name and password to an LDAP server that requires authentication for CRL retrieval, use the **ldap-dn** command in crl configure configuration mode. Crl configure configuration mode is accessible from crypto ca trustpoint configuration mode. These parameters are used only when the LDAP server requires them. To specify no LDAP DN, use the **no** form of this command.

ldap-dn x.500-name password

no ldap-dn

Syntax Description	password	Defines a password for this distinguished name. The maximum field lengt is 128 characters.							
	<i>x.500-name</i> Defines the directory path to access this CRL database, for example: cn=crl,ou=certs,o=CAName,c=US. The maximum field length is 128 characters.								
Defaults	The default setting is n	ot on.							
Command Modes	The following table sho	ows the m	nodes in whic	eh you can enter	the comma	nd:			
			Firewall N	lode	Security C	Context			
					Single	Multiple			
	Command Mode		Routed	Transparent		Context	System		
	Crl configure configur	ation	•		•				
Command History	Release Modification								
	7.0(1)This command was introduced.								
Examples	The following example xxzzyy for trustpoint c	-	an X.500 nai	ne CN=admin,O	U=devtest,	O=engineerin	g and a passwo		
	<pre>hostname(config)# crypto ca trustpoint central hostname(ca-trustpoint)# crl configure hostname(ca-crl)# ldap-dn cn=admin,ou=devtest,o=engineering xxzzyy</pre>								
Related Commands	Command	Descr	iption						
	crl configure		-	e configuration					
	crypto ca trustpoint	Enters	s ca trustpoin	t configuration 1	node.				
	protocol ldapSpecifies LDAP as a retrieval method for CRLs.								

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ldap-group-base-dn

To specify the base group in the Active Directory hierarchy used by dynamic access policies for group searches, use the **ldap-group-base-dn** command in aaa-server host configuration mode. To remove the command from the running configuration, use the **no** form of the command:

ldap-group-base-dn [*string*]

no ldap-group-base-dn [string]

Syntax Description	stringA case-sensitive string of up to 128 characters that specifies the location in the Active Directory hierarchy where the server should begin searching. For example, ou=Employees. Spaces are not permitted in the string, but other special characters are allowed.									
Defaults	No default behavior or	values. If you	ı do not spe	ecify a group se	earch DN, t	he search begir	ns at the base DN			
Command Modes	The following table sh	ows the mode	es in which	you can enter	the comm	and:				
			Firewall	Mode	Security (Context				
						Multiple				
	Command Mode		Routed	Transparent	Single	Context	System			
	aaa-server host configu	ration mode	•		•	_				
Command History	Release Modification									
	8.0(4)This command was introduced.									
Usage Guidelines	The Idap-group-base-c Active Directory heirard groups retrieved from th	chy level that	the show a	d-groups comm	nand uses to	o begin its grou	p search. The			
Examples	The following example sets the group base DN to begin the search at the organization unit (ou) level Employees:									
	hostname(config-aaa-	server-host)# ldap-g:	roup-base-dn	ou=Employ	ees				
Related Commands	Command	Descripti	on							
	group-search-timeout			security appli a list of groups		for a response	from an Active			
	show ad-groups			are listed on an		ectory server.				

ldap-login-dn

To specify the name of the directory object that the system should bind this as, use the **ldap-login-dn** command in aaa-server host configuration mode. Aaa-server host configuration mode is accessibile from aaa-server protocol configuration mode. To remove this specification, use the **no** form of this command.

ldap-login-dn string

no ldap-login-dn

Syntax Description	<i>string</i> A case-sensitive string of up to 128 characters that specifies the name directory object in the LDAP hierarchy. Spaces are not permitted in the but other special characters are allowed.								
Defaults	No default behav	iors or values.							
Command Modes	The following tab	ole shows the m	nodes in whic	ch you can enter	the comma	nd:			
			Firewall N	Node	Security (Context			
						Multiple			
	Command Mode		Routed	Transparent	Single	Context	System		
	Aaa-server host	configuration	•	•	•	•			
Command History	Release	Modifica	ation						
Command History	The second se								
Usage Guidelines	This command is Some LDAP serv applianceestablis LDAP operations DN field to the us characteristics of administrator priv For the <i>string</i> var	vers, including t h a handshake v The security a ser authenticati the security ap vileges.	he Microsoft via authentica ppliance iden on request. T pliance. Thes name of the	t Active Director ated binding befor ntifies itself for a the Login DN fic se characteristics directory object	ry server, re ore they wi authenticate eld describe s should con	equire that the Il accept reque ed binding by a es the authention respond to tho Concentrator au	security sts for any other ttaching a Login cation se of a user with thenticated		
Examples	binding, for exam anonymous acces The following ex of 9 seconds, sets hostname(config hostname(config	ample configur a retry-interva	ld blank. es an LDAP l of 7 second svrgrp1 pr	AAA server nam ls, and configure otocol ldap	ned svrgrp1 es the LDA	on host 1.2.3. P login DN as	4, sets a timeout		

```
hostname(config-aaa-server-host)# timeout 9
hostname(config-aaa-server-host)# retry 7
hostname(config-aaa-server-host)# ldap-login-dn myobjectname
hostname(config-aaa-server-host)#
```

Related Commands

Command	Description
aaa-server host	Enters AAA server host configuration mode so you can configure AAA server parameters that are host-specific.
ldap-base-dn	Specifies the location in the LDAP hierarchy where the server should begin searching when it receives an authorization request.
ldap-login-password	Specifies the password for the login DN. This command is valid only for LDAP servers.
ldap-naming-attribute	Specifies the Relative Distinguished Name attribute (or attributes) that uniquely identifies an entry on the LDAP server.
ldap-scope	Specifies the extent of the search in the LDAP hierarchy that the server should make when it receives an authorization request.

Idap-login-password

To specify the login password for the LDAP server, use the **ldap-login-password** command in aaa-server host configuration mode. Aaa-server host configuration mode is accessibile from aaa-server protocol configuration mode. To remove this password specification, use the **no** form of this command:

ldap-login-password string

no ldap-login-password

Syntax Description	string	stringA case-sensitive, alphanumeric password, up to 64 characters long. The password cannot contain space characters.					
Defaults	No default beha	vior or values.					
Command Modes	The following ta	able shows the m	odes in whic	ch you can enter	the comma	ind:	
			Firewall N	lode	Security (Context	
						Multiple	
	Command Mode)	Routed	Transparent	Single	Context	System
	Aaa-server host	configuration	•	•	•	•	_
Command History	Release	Modifica	ation				
	7.0(1)	This cor	nmand was i	ntroduced.			
Usage Guidelines	This command i	s valid only for I	LDAP server	s. The maximun	n password	string length i	s 64 characters.
Examples	The following e of 9 seconds, se obscurepasswor	•			• •		
		g)# aaa-server g-aaa-server)# g-aaa-server)# g-aaa-server)#	svrgrp1 ho timeout 9 retry 7	st 1.2.3.4	urepasswor	ď	

Related Commands

Command	Description
aaa-server host	Enters AAA server host configuration mode so you can configure AAA server parameters that are host-specific.
ldap-base-dn	Specifies the location in the LDAP hierarchy where the server should begin searching when it receives an authorization request.
ldap-login-dn	Specifies the name of the directory object that the system should bind as.
ldap-naming-attribute	Specifies the Relative Distinguished Name attribute (or attributes) that uniquely identifies an entry on the LDAP server.
ldap-scope	Specifies the extent of the search in the LDAP hierarchy that the server should make when it receives an authorization request.

Idap-naming-attribute

To specify the Relative Distinguished Name attribute, use the **ldap-naming-attribute** command in aaa-server host configuration mode. Aaa-server host configuration mode is accessibile from aaa-server protocol configuration mode. To remove this specification, use the **no** form of this command:

Idap-naming-attribute *string*

no ldap-naming-attribute

Syntax Description	consist LDAP	tring The case-sensitive, alphanumeric Relative Distinguished Name attribute, consisting of up to 128 characters, that uniquely identifies an entry on the LDAP server. Spaces are not permitted in the string, but other special characters are allowed.				
Defaults	No default behaviors or values					
Command Modes	The following table shows the	modes in whic	ch you can enter	the comma	ind:	
		Firewall N	/lode	Security C	Context	
					Multiple	
	Command Mode	Routed	Transparent	Single	Context	System
	Aaa-server host configuration	•	•	•	•	—
Command History	ReleaseModifi7.0(1)This co	cation ommand was i	ntroduced.			
Usage Guidelines	Enter the Relative Distinguishe Common naming attributes are This command is valid only for	Common Nat	me (cn) and User	ID (uid).	·	
Examples	The following example configured of 9 seconds, sets a retry-intervent hostname(config)# aaa-server-hostname(config-aaa-server-hos	<pre>ral of 7 second r svrgrp1 pr group)# aaa- host)# timeo host)# retry host)# ldap-</pre>	ls, and configure otocol ldap server svrgrpl ut 9 7	s the LDAI	P naming attrib	

Related Commands Command aaa-server host Idap-base-dn Idap-login-dn Idap-login-password	Description	
	aaa-server host	Enters AAA server host configuration mode so you can configure AAA server parameters that are host-specific.
	ldap-base-dn	Specifies the location in the LDAP hierarchy where the server should begin searching when it receives an authorization request.
	ldap-login-dn	Specifies the name of the directory object that the system should bind as.
	ldap-login-password	Specifies the password for the login DN. This command is valid only for LDAP servers.
	ldap-scope	Specifies the extent of the search in the LDAP hierarchy that the server should make when it receives an authorization request.

Idap-over-ssl

To establish a secure SSL connection between the security appliance and the LDAP server, use the **ldap-over-ssl** command in aaa-server host configuration mode. To disable SSL for the connection, use the **no** form of this command.

ldap-over-ssl enable

no ldap-over-ssl enable

Syntax Description	enable Specifies	s that SSL se	ecures a connecti	on to an L	DAP server.	
Defaults	No default behavior or values.					
Command Modes	The following table shows the m	odes in whic	ch you can enter	the comma	ind:	
		Firewall N	/lode	Security (Context	
					Multiple	
	Command Mode	Routed	Transparent	Single	Context	System
	Aaa-server host configuration	•	•	•	•	_
		·			·	
Command History	Release Modifi	cation				
	7.1(1) This c	ommand wa	s introduced.			
Usage Guidelines <u>Note</u>	Use this command to specify that server. We recommend enabling this fea command.					
Examples	The following commands, entered between the security appliance as configure the plain SASL authen hostname(config)# aaa-server hostname(config-aaa-server-ho hostname(config-aaa-server-ho hostname(config-aaa-server-ho	nd the LDAH tication med ldapsvr1 p pst)# aaa-s pst)# ldap-	P server named lo chanism. rotocol ldap erver ldapsvrl	lapsvrl at l host 10.1	P address 10.1	

Related Commands

Command	Description
sasl-mechanism	Specifies SASL authentication between the LDAP client and server.
server-type	Specifies the LDAP server vendor as either Microsoft or Sun.
ldap attribute-map (global configuration mode)	Creates and names an LDAP attribute map for mapping user-defined attribute names to Cisco LDAP attribute names.

Idap-scope

To specify the extent of the search in the LDAP hierarchy that the server should make when it receives an authorization request, use the **ldap-scope** command in aaa-server host configuration mode. Aaa-server host configuration mode is accessibile from aaa-server protocol configuration mode. To remove this specification, use the **no** form of this command.

ldap-scope scope

no ldap-scope

Syntax Description	<i>scope</i> The number of levels in the LDAP hierarchy for the server to search when it receives an authorization request. Valid values are:						
				h only one level			
	• subtree —Search all levels beneath the Base DN						
Defaults	The default value	is onelevel .					
Command Modes	The following tab	le shows the m	odes in whic	h you can enter	the comma	nd:	
			Firewall N	lode	Security (Context	
						Multiple	
	Command Mode		Routed	Transparent	Single	Context	System
	Aaa-server host c	onfiguration	•	•	•	•	
Command History	Release	Modifica	ntion				
	7.0(1)	Pre-exist	ting comman	d, modified for	this release	5	
Usage Guidelines	Specifying the sco is searched. Speci This command is	fying subtree	is slower, bec	cause all levels b	•		
Examples	The following exa of 9 seconds, sets levels. hostname(config) hostname(config- hostname(config- hostname(config- hostname(config-	a retry-interva # aaa-server aaa-server-ho aaa-server-ho	<pre>svrgrp1 pro coup)# aaa-s ost)# timeoo ost)# retry</pre>	s, and configure btocol ldap server svrgrp1 it 9 7	s the LDAI	P scope to incl	

Related Commands	Command	Description
	aaa-server host	Enters AAA server host configuration mode so you can configure AAA server parameters that are host-specific.
	ldap-base-dn	Specifies the location in the LDAP hierarchy where the server should begin searching when it receives an authorization request.
	ldap-login-dn	Specifies the name of the directory object that the system should bind as.
	ldap-login-password	Specifies the password for the login DN. This command is valid only for LDAP servers.
	ldap-naming-attribute	Specifies the Relative Distinguished Name attribute (or attributes) that uniquely identifies an entry on the LDAP server.

leap-bypass

To enable LEAP Bypass, use the **leap-bypass enable** command in group-policy configuration mode. To disable LEAP Bypass, use the **leap-bypass disable** command. To remove the LEAP Bypass attribute from the running configuration, use the **no** form of this command. This option allows inheritance of a value for LEAP Bypass from another group policy.

leap-bypass {enable | disable}

no leap-bypass

Syntax Description	disable Disables LEAP Bypass.							
	enable	enableEnables LEAP Bypass.						
Defaults	LEAP Bypass is d	isabled.						
Command Modes	The following tabl	le shows the n	nodes in whic	h you can enter	the comma	ind:		
			Firewall N	lode	Security (Context		
	0		Dented	T	0:	Multiple	Court our	
	Command Mode Group-policy con	figuration	Routed	Transparent	Single •	Context	System	
	Group-poncy con	inguration	•		•			
Command History	Release	Modi	fication					
	7.0(1)	This	command was	introduced.				
Usage Guidelines	When enabled, LE to travel across a v access point device authentication.	VPN tunnel pi	rior to user au	thentication. Th	is lets worl	stations using	Cisco wireless	
	This feature does not work as intended if you enable interactive hardware client authentication						itication.	
•	For further inform	ation, see the	Cisco Securi	ty Appliance Co	mmand Lin	e Configuratio	n Guide.	
Note	There may be secu	ırity risks in a	llowing any ı	inauthenticated	traffic to tra	averse the tunn	el.	
Examples	The following exa	mple shows h	low to set LE	AP Bypass for th	ie group po	licy named "F	irstGroup":	
	hostname(config) hostname(config-							

Related Commands	Command	Description		
	secure-unit-authentication	Requires VPN hardware clients to authenticate with a username and		
		password each time the client initiates a tunnel.		
	user-authentication	Requires users behind VPN hardware clients to identify themselves to		
		the security appliance before connecting.		

lifetime (ca server mode)

To specify the length of time that the Local Certificate Authority (CA) certificate, each issued user certificates, or the Certificate Revocation List (CRL) is valid, use the **lifetime** command in CA server configuration mode. To reset the lifetime to the default setting, use the **no** form of this command.

lifetime {ca-certificate | certificate | crl} time

no lifetime {ca-certificate | certificate | crl}

Syntax Description	ca-certificate	Specifies the lifeti	Specifies the lifetime of the local CA server certificate.					
	certificate	Specifies the lifeti	me of all user ce	rtificates is	sued by the CA	A server.		
	crl	Specifies the lifeti	me of the CRL.					
	<i>time</i> For the CA certificate and all issued certificates, <i>time</i> specifies the number of days the certificate is valid. The valid range is from 1 to 3650 days.							
		For the CRL, <i>time</i> specifies the number of hours the CRL is valid. The valid range for the CRL is from 1 to 720 hours.						
Defaults	The default lifetimes are:							
	• CA certificate - Thre	e years						
	• Issued certificates - (One year						
	• CRL - Six hours							
Command Modes	The following table show			1				
Command Modes	The following table show	vs the modes in whic		the comma				
Command Modes	The following table show			1				
Command Modes	The following table show			Security (Context	System		
Command Modes		Firewall N	Node	Security (Context Multiple	System —		
	Command Mode	Firewall N Routed	Node	Security (Single	Context Multiple	System —		
Command Modes	Command Mode CA server configuration Release	Firewall N Routed • Modification	Aode Transparent —	Security (Single	Context Multiple	System —		
Command History	Command Mode CA server configuration	Firewall N Routed •	Aode Transparent —	Security (Single	Context Multiple	System —		
	Command Mode CA server configuration Release	Firewall N Routed • Modification This command wa	Aode Transparent	Security (Single •	Context Multiple Context —			
Command History	Command Mode CA server configuration Release 8.0(2) By specifying the numbe	Firewall N Routed • Modification This command wa r of days or hours the led in the certificate	Aode Transparent 	Security C Single •	Context Multiple Context — alid, this comm	and determine		

hostname(config-ca-server))#

The following example configures the CA to issue a CRL that is valid for two days:

```
hostname(config)# crypto ca server
hostname(config-ca-server)# lifetime crl 48
hostname(config-ca-server)#
```

Related	Commands
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Command	Description
cdp-url	Specifies the certificate revocation list distribution point (CDP) to be include in the certificates issued by the CA.
crypto ca server	Provides access to the CA Server Configuration mode CLI command set, which allows you to configure and manage the local CA.
crypto ca server crl issue	Forces the issuance of a CRL.
show crypto ca server	Displays the local CA configuration details in ASCII text.
show crypto ca server cert-db	Displays local CA server certificates.
show crypto ca server crl	Displays the current CRL of the local CA.

limit-resource

To specify a resource limit for a class in multiple context mode, use the **limit-resource** command in class configuration mode. To restore the limit to the default, use the **no** form of this command. The security appliance manages resources by assigning contexts to resource classes. Each context uses the resource limits set by the class.

limit-resource {**all 0** | [**rate**] *resource_name number*[%]}

no limit-resource {**all** | [**rate**] *resource_name*}

Syntax Description	all 0	Sets the limi	t for all	resources as un	nlimited.				
	<i>number</i> [%] Specifies the resource limit as a fixed number greater than or equal to 1, or as a percentage of the system limit between 1 and 100 (when used with the								
	as a percentage of the system limit between 1 and 100 (when used with the percent sign (%)). Set the limit to 0 to indicate an unlimited resource. For resources that do not have a system limit, you cannot set the percentage (%); you can only set an absolute value.								
	rate			vant to set the rances for which					
	resource_name	Specifies the overrides the		ce name for wh et for all .	ich you wa	nt to set a limi	t. This limit		
Defaults	All resources are set t		ept for t	he following lir	nits, which	are by default	set to the		
	maximum allowed per context:								
	• Telnet sessions—5 sessions.								
	• SSH sessions—5	sessions.							
	• IPSec sessions—:	5 sessions.							
	• MAC addresses—	-65,535 entries.							
Command Modes	The following table sl	hows the modes i	n which	n you can enter	the comma	nd:			
		Fire	wall Mo	ode	Security C	Context			
						Multiple			
	Command Mode	Rou	ted	Transparent	Single	Context	System		
	Class configuration	•		•	—		•		
Command History	Release Modification								
Command History	neledse	mounoution							

Usage Guidelines

When you limit a resource for a class, the security appliance does not set aside a portion of the resources for each context assigned to the class; rather, the security appliance sets the maximum limit for a context. If you oversubscribe resources, or allow some resources to be unlimited, a few contexts can "use up" those resources, potentially affecting service to other contexts.

Table 18-1 lists the resource types and the limits. See also the show resource types command.



If the System Limit column value is N/A, then you cannot set a percentage of the resource because there is no hard system limit for the resource.

Table 18-1Resource Names and Limits

Resource Name	Rate or Concurrent	Minimum and Maximum Number per Context	System Limit	Description		
mac-addresses	Concurrent	N/A	65,535	For transparent firewall mode, the number o MAC addresses allowed in the MAC address table.		
conns	Concurrent or Rate	N/A	Concurrent connections: See the Cisco Security Appliance Command Line Configuration Guide for the connection limit for your platform.	TCP or UDP connections between any two hosts, including connections between one host and multiple other hosts.		
			Rate: N/A			
inspects	Rate	N/A	N/A	Application inspections.		
hosts	Concurrent	N/A	N/A	Hosts that can connect through the security appliance.		
asdm	Concurrent	1 minimum	32	ASDM management sessions.		
		5 maximum		Note ASDM sessions use two HTTPS connections: one for monitoring that is always present, and one for making configuration changes that is present only when you make changes. For example, the system limit of 32 ASDM sessions represents a limit of 64 HTTPS sessions.		
ssh	Concurrent	1 minimum 5 maximum	100	SSH sessions.		
syslogs	Rate	N/A	N/A	System log messages.		
telnet	Concurrent	1 minimum 5 maximum	100	Telnet sessions.		
xlates	Concurrent	N/A	N/A	Address translations.		

Examples

The following example sets the default class limit for conns to 10 percent instead of unlimited:

```
hostname(config)# class default
hostname(config-class)# limit-resource conns 10%
```

All other resources remain at unlimited.

To add a class called gold, enter the following commands:

```
hostname(config)# class gold
hostname(config-class)# limit-resource mac-addresses 10000
hostname(config-class)# limit-resource conns 15%
hostname(config-class)# limit-resource rate inspects 500
hostname(config-class)# limit-resource hosts 9000
hostname(config-class)# limit-resource asdm 5
hostname(config-class)# limit-resource ssh 5
hostname(config-class)# limit-resource rate syslogs 5000
hostname(config-class)# limit-resource rate syslogs 5000
hostname(config-class)# limit-resource telnet 5
hostname(config-class)# limit-resource telnet 5
hostname(config-class)# limit-resource xlates 36000
```

Related Commands	Command	Description	
	class	Creates a resource class.	
	context	Configures a security context.	
	member	Assigns a context to a resource class.	
	show resource allocation	Shows how you allocated resources across classes.	
	show resource types	Shows the resource types for which you can set limits.	

Imfactor

To set a revalidation policy for caching objects that have only the last-modified timestamp, and no other server-set expiration values, use the **Imfactor** command in cache configuration mode. To set a new policy for revalidating such objects, use the command again. To reset the attribute to the default value of 20, enter the **no** version of the command.

Imfactor value

no Imfactor

Syntax Description	<i>value</i> An i	nteger in the range of	of 0 to 100.						
Defaults	The default value is 20.								
Command Modes	The following table show	ws the modes in whi	ch you enter the	command:					
		Firewall I	Vode	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	The security appliance uses the value of the lmfactor to estimate the length of time for which it considers a cached object to be unchanged. This is known as the expiration time. The security appliance estimates th expiration time by the time elapsed since the last modification multiplied by the lmfactor.								
	Setting the Imfactor to zero is equivalent to forcing an immediate revalidation, while setting it to 100 results in the longest allowable time until revalidation.								
Examples	The following example: hostname(config)# web hostname(config-webvp hostname(config-webvp hostname(config-webvp	vpn n)# cache n-cache)# lmfactor							

Related Commands

Command	Description
cache	Enters WebVPN Cache mode.
cache-compressed	Configures WebVPN cache compression.
disable	Disables caching.
expiry-time	Configures the expiration time for caching objects without revalidating them.
max-object-size	Defines the maximum size of an object to cache.
min-object-size	Defines the minimum sizze of an object to cache.

log

When using the Modular Policy Framework, log packets that match a **match** command or class map by using the **log** command in match or class configuration mode. This log action is available in an inspection policy map (the **policy-map type inspect** command) for application traffic. To disable this action, use the **no** form of this command.

log

no log

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 Mod	e	Security Context		
				Multiple	
Command Mode	Routed	Transparent	Single	Context	System
Match and class configuration	•	•	•	•	

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

Usage Guidelines 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 **log** command to log all packets that match the **match** command or **class** command.

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 sends a log when packets match the http-traffic class map. hostname(config-cmap)# policy-map type inspect http http-map1 hostname(config-pmap)# class http-traffic hostname(config-pmap-c)# log

Related Commands	(
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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.

log-adj-changes

To configure the router to send a syslog message when an OSPF neighbor goes up or down, use the **log-adj-changes** command in router configuration mode. To turn off this function, use the **no** form of this command.

log-adj-changes [detail]

no log-adj-changes [detail]

Syntax Description	neighbor goes up or down.								
Defaults									
Command Modes	The following table sho	ws the modes in whic	ch you can enter	the comma	ind:				
		Firewall N	Node	Security (Context				
					Multiple				
	Command Mode	Routed	Transparent	Single	Context	System			
	Router configuration	•	_	•	_	_			
Command History	Release Modification								
	Preexisting This command was preexisting.								
Usage Guidelines	The log-adj-changes corremoved with the no for		y default; it appe	ars in the r	unning config	uration unless			
Examples	The following example disables the sending of a syslog message when an OSPF neighbor goes up or down:								
	hostname(config)# router ospf 5 hostname(config-router)# no log-adj-changes								
Related Commands	Command	Description							
	router ospf	Enters router confi	guration mode						
	show ospf		-	t the OSPF	routing proce	sses.			
	show ospfDisplays general information about the OSPF routing processes.								

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