



СНАРТЕК

Idap-base-dn through log-adj-changes Commands

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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	string	A 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 at the	he top of the list.							
Command Modes	The following table	shows the modes in whi	ch you can enter	the comma	ind:				
		Firewall	Firewall Mode		Security Context				
	Command Mode				Multiple				
		Routed	Transparent	Single	Context	System			
	Aaa-server host	•	•	•	•				
Command History	Release Modification								
	3.1(1)	This command was	introduced.						
Usage Guidelines	This command is va	alid only for LDAP serve	ers.						
Examples	timeout of 9 seconds hostname(config)# hostname(config-aa hostname(config-aa hostname(config-aa	nple configures an LDAP s, sets a retry-interval of " aaa-server svrgrp1 pp aa-server-group)# aaa- aa-server-host)# timeo aa-server-host)# retry aa-server-host)# ldap	7 seconds, and con rotocol ldap -server svrgrpl put 9 r 7	nfigures the	e LDAP base D				

Related Commands	Command	Description
	aaa-server host	Enters AAA server host configuration mode so that 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

unter Description		(0	1) C		TC (1	•		
yntax Description	<i>port</i> (Optional) Specifies the LDAP server port. If this parameter is not specified, the FWSM uses the standard LDAP port (389).							
	server Specifies the IP address or domain name of the LDAP server. If one exists within the CRL distribution point, it overrides this value.							
efaults	The default setting is	not set.						
ommand Modes	The following table sl	hows the mo	odes in which	h you can enter	the comma	ınd:		
			Firewall Mode		Security Context			
						Multiple		
	Command Mode		Routed	Transparent	Single	Context	System	
	Crl configure configuration		•	•	•	•		
ommand History	Release Modification							
	3.1(1)	This co	ommand was	introduced.				
xamples	The following example defines LDAP default values on the default port (389): hostname(config)# crypto ca trustpoint central hostname(ca-trustpoint)# crl configure hostname(ca-crl)# ldap-defaults ldapdomain4 8389							
elated Commands	Command crl configure	Description Enters ca-crl configuration mode.						
		Enters	ca-crl config	guration mode.	de.			

Specifies LDAP as a retrieval method for CRLs

protocol ldap

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 length 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 i	s not on.						
Command Modes	The following table	shows the m	odes in whic	h you can enter	the comma	nd:		
			Firewall Mode		Security C	Context		
						Multiple		
	Command Mode		Routed	Transparent	Single	Context	System	
	Crl configure config	guration	•	•	•	•		
Command History	Release Modification							
	3.1(1) This command was introduced.							
Examples	The following exam xxzzyy for trustpoir		an X.500 nar	ne CN=admin,O	U=devtest,	O=engineering	g and a passwo	
	hostname(config)# hostname(ca-trust] hostname(ca-crl)#	point)# crl	configure		ering xxz	zyy		
Related Commands	Command	Descri	ption					
	crl configure	Enters	crl configur	e configuration 1	node.			

ldap-dn

Command	Description
crypto ca trustpoint	Enters ca trustpoint configuration mode.
protocol ldap	Specifies LDAP as a retrieval method for CRLs.

Idap-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 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	string	<i>string</i> A case-sensitive string of up to 128 characters that specifies the name of the directory object in the LDAP hierarchy. Spaces are not permitted in the string, but other special characters are allowed.						
Defaults	No default behavio	ors or values.						
Command Modes	The following table	e shows the n	nodes in whic	h you can enter	the comma	ind:		
			Firewall Mode		Security Context			
					Single	Multiple		
	Command Mode		Routed	Transparent		Context	System	
	Aaa-server host		•	•	•	•		
Command History	Release Modification 3.1(1) This command was introduced.							
Usage Guidelines	This command is valid only for LDAP servers. The maximum supported string length is 128 characters.							
	Some LDAP servers, including the Microsoft Active Directory server, require that the FWSM establish a handshake via authenticated binding before they will accept requests for any other LDAP operations. The FWSM identifies itself for authenticated binding by attaching a Login DN field to the user authentication request. The Login DN field describes the authentication characteristics of the FWSM. These characteristics should correspond to those of a user with administrator privileges.							
	For the <i>string</i> varia binding, for examp anonymous access,	ole: cn=Admin	nistrator, cn=	• •				
Examples	-	The following example configures a RADIUS AAA server named "svrgrp1" on host "1.2.3.4", sets a timeout of 9 seconds, sets a retry-interval of 7 seconds, and configures the LDAP login DN as "myobjectname".						
	hostname(config)# aaa-server svrgrp1 protocol ldap hostname(config-aaa-server-group)# aaa-server svrgrp1 host 1.2.3.4							

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))# exit

Related	Commands	Command

Command	Description
aaa-server host	Enters AAA server host configuration mode so that 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 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	stringA case-sensitive, alphanumeric password, up to 64 characters long. The password cannot contain space characters.								
Defaults	No default behavior or	values.							
Command Modes	The following table sho	ws the modes in whic	h you can enter	the comma	ind:				
		Firewall M	ode	Security C	Context				
					Multiple				
	Command Mode	Routed	Transparent	Single	Context	System			
	Aaa-server host	•	•	•	•	—			
Command History	Release Modification								
·····,	3.1(1)	This command was in	troduced.						
Usage Guidelines Examples	This command is valid The following example timeout of 9 seconds, se	configures a RADIUS	AAA server na	umed "svrg	rp1" on host "	1.2.3.4", sets a			
	"obscurepassword". hostname(config)# aaa hostname(config)# aaa hostname(config-aaa-s hostname(config-aaa-s hostname(config-aaa-s hostname(config-aaa-s hostname(config-aaa-s	a-server svrgrp1 pro a-server svrgrp1 hos server)# timeout 9 server)# retry 7 server)# ldap-login-	tocol ldap t 1.2.3.4	-		- F			

Related Commands

Command	Description
aaa-server host	Enters AAA server host configuration mode so that 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.

Γ

Idap-naming-attribute string

no ldap-naming-attribute

attributes), 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 which you can enter the command: **Firewall Mode** Security Context Multiple **Command Mode** Routed Context Transparent Single System Aaa-server host • • • • **Command History** Release Modification 3.1(1)This command was introduced. **Usage Guidelines** Enter the Relative Distinguished Name attribute (or attributes) that uniquely identifies an entry on the LDAP server. Common naming attributes are Common Name (cn) and User ID (uid). This command is valid only for LDAP servers. The maximum supported string length is 128 characters. **Examples** The following example configures a RADIUS AAA server named "svrgrp1" on host "1.2.3.4", sets a timeout of 9 seconds, sets a retry-interval of 7 seconds, and configures the LDAP naming attribute as "cn". hostname(config)# aaa-server svrgrp1 protocol ldap hostname(config-aaa-server-group)# aaa-server svrgrp1 host 1.2.3.4 hostname(config-aaa-server-host)# timeout 9 hostname(config-aaa-server-host)# retry 7 hostname(config-aaa-server-host) # ldap-naming-attribute cn hostname(config-aaa-server-host)# exit

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To specify the Relative Distinguished Name attribute (or attributes), use the **ldap-naming-attribute** command in aaa-server host 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

Related Commands	Command	Description
	aaa-server host	Enters AAA server host configuration mode so that 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-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									
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:									
	• onelevel —Search only one level beneath the Base DN									
		• subt	ree—Search	all levels benea	th the Base	e DN				
Defaults	The default value	The default value is onelevel .								
Command Modes	The following t	able shows the mo	odes in whic	h you can enter	the comma	nd:				
			Firewall Mode		Security C	ontext				
						Multiple				
	Command Mode	e	Routed	Transparent	Single	Context	System			
	Aaa-server hos	t configuration	•	•	•	•				
Command History	Release Modification									
	3.1(1)This command was introduced.									
Usage Guidelines	Specifying the scope as onelevel results in a faster search, because only one level beneath the Base DN is searched. Specifying subtree is slower, because all levels beneath the Base DN are searched.									
	This command is valid only for LDAP servers.									
Examples	The following example configures a RADIUS AAA server named "svrgrp1" on host "209.165.200.225", sets a timeout of 9 seconds, sets a retry-interval of 7 seconds, and configures the LDAP scope to include the subtree levels.									
	hostname(config)# aaa-server svrgrp1 protocol ldap hostname(config-aaa-server-group)# aaa-server svrgrp1 host 209.165.200.225 hostname(config-aaa-server-host# timeout 9 hostname(config-aaa-server-host)# retry 7									

hostname(config-aaa-serve-host)# ldap-scope subtree hostname(config-aaa-server-host)# exit

Related Commands	Command	Description
	aaa-server host	Enters aaa server host configuration mode so that 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 Enables LEAP Bypass.							
Defaults	LEAP Bypass is disabled.							
Command Modes	The following table	e shows the 1	nodes in whic	h you can enter	the comma	nd:		
			Firewall Mode		Security Context			
	O		Dented	T	0:	Multiple	0	
	Command Mode Group-policy conf	iguration	Routed	Transparent	Single •	Context	System	
	Group-poncy com	iguration			•			
Command History	Release Modification							
	3.1(1)	3.1(1)This command was introduced.						
Usage Guidelines	LEAP Bypass lets LEAP packets from wireless devices behind a VPN hardware client travel across VPN tunnel prior to user authentication, when enabled. This lets workstations using Cisco wireless access point devices establish LEAP authentication. Then they authenticate again per user authentication.							
	This feature does not work as intended if you enable interactive hardware client authentication.							
•	For further information, see the Catalyst 6500 Series Switch and Cisco 7600 Series Router Firewall Services Module Configuration Guide.							
<u>Note</u>	There may be security risks in allowing any unauthenticated traffic to traverse the tunnel.						iel.	
Examples	The following example the following is t	-			ie group po	licy named "F	'irstGroup'':	

nostname(config)# group-policy FirstGroup attributes hostname(config-group-policy)# leap-bypass enable

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 FWSM before connecting.

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 FWSM manages resources by assigning contexts to resource classes. Each context uses the resource limits set by the class.

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

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

Syntax Description	0	Sets the resource t	to unlimited (the	system lim	it).			
	all	Sets the limit for all resources, as a percentage, or as unlimited.						
	number[%]	 Specifies the resource limit as a fixed number greater than or equal to 1, or as a percentage of the system limit (when used with the percent sign (%)). You can assign more than 100 percent if you want to oversubscribe the device. For all resources, you can only set a percentage or 0 for unlimited. 						
	rate							
	resource_name Specifies the resource name for which you want to set a limit. This limit overrides the limit set for all.							
Defaults	All resources are set t maximum allowed per	o unlimited, except for r context:	the following lin	mits, which	are by default	set to the		
	• Telnet sessions—5 sessions.							
	• SSH sessions—5	• SSH sessions—5 sessions.						
	• IPSec sessions—5 sessions.							
	• MAC addresses—65,535 entries.							
Command Modes	The following table sh	hows the modes in whi	ch you can enter	the comma	nd:			
		Eirowall F	Firewall Mode		Context			
		FILEWAILI	nouo					
		riiewali i			Multiple			
	Command Mode	Routed	Transparent	Single	1	System		
	Command Mode Class configuration			-	Multiple	System •		
Command History		Routed	Transparent	-	Multiple	-		

Usage Guidelines When you limit a resource for a class, the FWSM does not set aside a portion of the resources for each context assigned to the class; rather, the FWSM 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.

Table 18-1Resource Names and Limits

Resource Name	Minimum and Maximum Number per Context	Total Number for System	Description			
mac-addresses	N/A	65 K concurrent	For transparent firewall mode, the number of MAC addresses allowed in the MAC address table.			
conns	N/A	999,900 concurrent 170,000 per second (rate)	TCP or UDP connections between any two hosts, including connections between one host and multiple other hosts.			
			Note For concurrent connections, the FWSM allocates half of the limit to each of two network processors (NPs) that accept connections. Typically, the connections are divided evenly between the NPs. However, in some circumstances, the connections are not evenly divided, and you might reach the maximum connection limit on one NP before reaching the maximum on the other. In this case, the maximum connections allowed is less than the limit you set. The NP distribution is controlled by the switch based on an algorithm. You can adjust this algorithm on the switch, or you can adjust the connection limit upward to account for the inequity.			
fixups	N/A	100,000 per second (rate)	Application inspection.			
hosts	N/A	256 K concurrent	Hosts that can connect through the FWSM.			
ipsec	1 minimum 5 maximum concurrent	10 concurrent	IPSec sessions			
asdm	1 minimum	32 concurrent	ASDM management sessions.			
	5 maximum concurrent		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	1 minimum	100 concurrent	SSH sessions.			
	5 maximum concurrent					

Resource Name	Minimum and Maximum Number per Context	Total Number for System	Description System messages.		
syslogs	N/A	30,000 per second (rate)			
			Note The FWSM can support 30,000 messages per second for messages sen to the FWSM terminal or buffer. If you send messages to a syslog server, the FWSM supports 25,000 per second.		
telnet	1 minimum 5 maximum concurrent	100 concurrent	Telnet sessions.		
xlates	N/A	256 K concurrent	NAT translations.		

Table 18-1 Resource Names and Limits (continued)

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 with all resources set to 5 percent, except for fixups, with a setting of 10 percent, enter the following commands:

hostname(config)# class gold hostname(config-class)# limit-resource all 5% hostname(config-class)# limit-resource fixups 10%

To add a class called silver with all resources set to 3 percent, except for system log messages, with a setting of 500 per second, enter the following commands:

hostname(config)# class silver hostname(config-class)# limit-resource all 3% hostname(config-class)# limit-resource rate syslogs 500

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.

log

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. You can access the match or class configuration mode by first entering the **policy-map type inspect** command. This log action is available in an inspection policy map 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 Mode** Security Context Multiple **Command Mode** Routed Transparent Single Context System Match and class configuration • • • • Release **Command History** Modification 4.0(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

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	detail	(Optional) Sends neighbor goes up	a syslog message or down.	e for each st	tate change, no	ot just when a		
Defaults	This command is enab	nabled by default.						
Command Modes	The following table sh	lows the modes in wh	ich you can enter	the comma	and:			
		Firewall	Mode	Security Context				
					Multiple			
	Command Mode	Routed	Transparent	Single	Context	System		
	Router configuration	•		•		—		
Command History	Release Modification							
	1.1(1) This command was introduced.							
Usage Guidelines	The log-adj-changes command is enabled by default; it appears in the running configuration unless removed with the no form of the command.							
Examples	The following example down:	e disables the sending	g of a syslog mess	age when a	an OSPF neigh	bor goes up or		
	<pre>hostname(config)# router ospf 5 hostname(config-router)# no log-adj-changes</pre>							
Related Commands	Command	Description						
	router ospf Enters router configuration mode.							
	show ospfDisplays general information about the OSPF routing processes.							

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