

СНАРТЕК

backup-servers through bridge-group Commands

I

backup-servers

To configure backup servers, use the **backup-servers** command in group-policy configuration mode. To remove a backup server, use the **no** form of this command.

backup-servers {server1 server2....server10 | clear-client-config | keep-client-config}

no backup-servers [server1 server2.... server10 | clear-client-config | keep-client-config]

Syntax Description	clear-client-conf	ig	Specifies that the client uses no backup servers. The FWSM pushes a null server list.						
	keep-client-confi	ig	Specifies that the FWSM sends no backup server information to the client. The client uses its own backup server list, if configured.						
	server1 server 2	server10	Provides a space delimited, priority-ordered list of servers for the VPN client to use when the primary FWSM is unavailable. Identifies servers by IP address or hostname. The list can be 500 characters long, but can contain only 10 entries.						
Defaults	Backup servers do	o not exist unt	il you configu	re them, either o	on the clien	t or on the prin	nary FWSM.		
Command Modes	The following tab	le shows the r	nodes in whic	h you can enter	the comma	nd:			
			Firewall N	lode	Security Context				
	Command Mode				-	Multiple			
			Routed	Transparent	Single	Context	System		
	Group-policy con	figuration	•	•	•	•	_		
Command History	Release Modification								
	3.1(1)	This	command was	s introduced.					
Usage Guidelines	To remove the bac								
	without arguments. This enables inheritance of a value for backup-servers from another group policy. IPSec backup servers let a VPN client connect to the central site when the primary FWSM is unavailable. When you configure backup servers, the FWSM pushes the server list to the client as the IPSec tunnel is established.								
	Configure backup servers either on the client or on the primary FWSM. If you configure backup servers on the FWSM, it pushes the backup server policy to the clients in the group, replacing the backup server list on the client if one is configured.								

Note

If you are using hostnames, it is wise to have backup DNS and WINS servers on a separate network from that of the primary DNS and WINS servers. Otherwise, if clients behind a hardware client obtain DNS and WINS information from the hardware client via DHCP, and the connection to the primary server is lost, and the backup servers have different DNS and WINS information, clients cannot be updated until the DHCP lease expires. Further, if you use hostnames and the DNS server is unavailable, significant delays can occur.

Examples

The following example shows how to configure backup servers with IP addresses 10.10.10.1 and 192.168.10.14, for the group policy named "FirstGroup":

hostname(config)# group-policy FirstGroup attributes hostname(config-group-policy)# backup-servers 10.10.10.1 192.168.10.14

banner

To configure the session, login, or message-of-the-day banner, use the **banner** command in global configuration mode. To remove all lines from the banner keyword specified (**exec**, **login**, or **motd**), use the **no** form of the command.

banner {**exec** | **login** | **motd** *text*}

[no] banner {exec | login | motd [text]}

Syntax Description	exec Configures the system to display a banner before displaying the enable prompt.							
	login Configures the system to display a banner before the password login prompt when accessing the FWSM using Telnet.							
	motd Configures the system to display a message-of-the-day banner.							
	text	-	sage text to dis			5		
Defaults	The default is no login, session, or message-of-the-day banner.							
Command Modes	The following	g table shows the	modes in which	1 you can enter	the comma	nd:		
			Firewall M	Firewall Mode Sec		ontext		
						Multiple		
	Command Mode		Routed	Transparent	Single	Context	System	
	Global config	guration	•	•	•	•	•	
Command History	Release Modification							
	2.2(1)	This comma	and was introdu	ced.				
Usage Guidelines	of all characted	command configurers following the	first white spac	e (space) until t	he end of t	he line (carria	ge return or line	
	feed [LF]). Spaces in the text are preserved. However, you cannot enter tabs through the CLI.							
	Subsequent te	ext entries are add	led to the end o	f an existing ba	nner unless	the banner is	cleared first.	
Note	The tokens \$(domain) and \$(hostname) are replaced with the hostname and domain name of the FWSM. When you enter a \$(system) token in a context configuration, the context uses the banner configured in the system configuration.							
	add. Each lin	s in a banner are h e is then appended than RAM and Fl	d to the end of	-			•	

When accessing the FWSM through Telnet or SSH, the session closes if there is not enough system memory available to process the banner messages or if a TCP write error occurs. Only the exec and motd banners support access to the FWSM through SSH. The login banner does not support SSH.

To replace a banner, use the **no banner** command before adding the new lines.

Use the **no banner** {**exec** | **login** | **motd**} command to remove all the lines for the banner keyword specified.

The **no banner** command does not selectively delete text strings, so any *text* that you enter at the end of the **no banner** command is ignored.

Examples The following example shows how to configure the **exec**, **login**, and **motd** banners:

```
hostname(config)# banner motd Think on These Things
hostname(config)# banner exec Enter your password carefully
hostname(config)# banner login Enter your password to log in
hostname(config)# show running-config banner
exec:
Enter your password carefully
login:
Enter your password to log in
```

motd:

The following example shows how to add a second line to the **motd** banner:

hostname(config)# banner motd and Enjoy Today
hostname(config)# show running-config banner motd

Related Commands	Command	Description
	clear configure banner	Removes all banners.
	show running-config banner	Displays all banners.

banner (group-policy)

To display a banner, or welcome text, on remote clients when they connect, use the **banner** command in group-policy configuration mode. To delete a banner, use the **no** form of this command.

banner {value banner_string | none}

no banner

Note	If you configure multip banners will be deleted		s under a VP	'N group-policy,	and you de	lete any one of	the banners, all		
Syntax Description	none		Sets a banner with a null value, thereby disallowing a banner. Prevents inheriting a banner from a default or specified group policy.						
	value banner_string								
Defaults	There is no default ban	ner.							
Command Modes	The following table sho	ows the me	odes in whic	ch you can enter	the comma	nd:			
			Firewall Mode		Security C	ontext			
				Transparent		Multiple			
	Command Mode		Routed		Single	Context	System		
	Group-policy configur	ation	•		•				
Command History	Release	Modifi							
	3.1(1)	This co	ommand was	s introduced.					
Usage Guidelines	The no form of this con inheriting a banner, use				from anoth	er group polic	y. To prevent		
Examples	The following example	The following example shows how to create a banner for the group policy named "FirstGroup":							
	hostname(config)# gr hostname(config-grou		-	=	o Cisco Sy	stems			

bgp router-id

To specify a router ID for BGP routing process on the FWSM, use the **bgp router-id** command in router configuration mode. To restore the default router ID, use the **no** form of this command.

bgp router-id *ip-addr*

no bgp router-id *ip-addr*

Syntax Description	<i>ip-addr</i> An IP address. The router ID is entered in IP address format. Any valid IP address can be used, even an address that is not locally configured on the FWSM.							
Defaults	The router ID is set to	the highest	IP address	configured on th	ne FWSM.			
Command Modes	The following table sh	ows the mo	des in whic	h you can enter	the comma	ind:		
			Firewall N	lode	Security (Context		
						Multiple		
	Command Mode		Routed	Transparent	Single	Context ¹	System	
	Router configuration		•	_	•	•		
Command History	Release Modification							
	3.2(1)This command was introduced.							
Usage Guidelines	Use the bgp router-id command to configure a fixed router ID for a local BGP routing process. Enter the router ID in IP address format. You can use any valid IP address, even an address that is not locally configured on the FWSM. Changing the router ID causes peering sessions to automatically reset. In multiple context mode, this command is only available in the admin context. The admin context must							
	be in routed mode. The contexts configured or		-	•		-	-	
Examples	The following example shows a BGP routing configuration with the router ID of the FWSM set to 192.168.1.1:							
	<pre>192.168.1.1: hostname(config)# router bgp 800 hostname(config-router)# bgp router-id 192.168.1.1 hostname(config-router)# neighbor 10.1.1.1 remote-as 800 hostname(config-router)# neighbor 10.1.1.1 password bQ2\$f78t hostname(config-router)# network 192.168.1.0 mask 255.255.255.0 hostname(config-router)# network 10.1.1.0 mask 255.255.255.0</pre>							

Related Commands	Command	Description
	router bgp	Creates a BGP routing process and enters router configuration mode for that process.
	show running-config router	Displays the router commands in the running configuration.

blocks

To allocate additional memory to block diagnostics (displayed by the **show blocks** command), use the **blocks** command in privileged EXEC mode. To set the value back to the default, use the **no** form of this command. The amount of memory allocated will be at most 150 KB but never more than 50% of free memory. Optionally, you can specify the memory size manually.

blocks queue history enable [memory_size]

no blocks queue history enable [memory_size]

Syntax Description	Description memory_size (Optional) Sets the memory size for block diagnostics in By applying the dynamic value. If this value is greater than free error message displays and the value is not accepted. If this than 50% of free memory, a warning message displays, but t accepted.							
Defaults	The default memory a	ssigned to track block	diagnostics is 21	36 Bytes.				
Command Modes	The following table sh	lows the modes in whic	h you can enter	the comma	ınd:			
		Firewall N	lode	Security (Context			
					Multiple			
	Command Mode	Routed	Transparent	Single	Context	System		
	Privileged EXEC	•	•	•	—	•		
Command History	Release Modification							
	7.0(1)Support for this command was introduced.							
Usage Guidelines	To view the currently allocated memory, enter the show blocks queue history command. If you reload the FWSM, the memory allocation returns to the default.							
Examples	The following example increases the memory size for block diagnostics: hostname# blocks queue history enable							
	The following example increases the memory size to 3000 Bytes:							
	hostname# blocks queue history enable 3000							
	The following example attempts to increase the memory size to 3000 Bytes, but the value is more than free memory:							
	hostname# blocks qu	eue history enable 3	000					

ERROR: memory size exceeds current free memory

The following example increases the memory size to 3000 Bytes, but the value is more than 50% of free memory:

hostname# blocks queue history enable 3000 WARNING: memory size exceeds 50% of current free memory

Related Commands

C	ommand	Description
c	lear blocks	Clears the system buffer statistics.
s	how blocks	Shows the system buffer utilization.

By default, the FWSM boots from the **cf:4** application partition. However, you can choose to boot from the **cf:5** application partition or into the **cf:1** maintenance partition. To change the default boot partition, enter the **boot device** command in global configuration mode. To restore the default, use the **no** form of this command.

boot device module mod_num cf:n

no boot device module *mod_num* [cf:*n*]

Syntax Description	cf: <i>n</i>	Sets the boot partition. Application partitions include cf:4 (the default) and cf:5 . The maintenance partition is cf:1 .			
	module mod_num	Specifies the module number. Use the show module command to view installed modules and their numbers.			
Defaults	The default boot part	ition is cf:4.			
Command Modes	Global configuration				
Command History	Release M	odification			
	Preexisting TI	nis command was preexisting.			
Usage Guidelines	To set the boot partition, enter the set boot device cf: <i>n</i> [<i>mod_num</i>] command: Router# set boot device cf: <i>n</i> [<i>mod_num</i>]				
Examples	The following examp	ble shows how to set the boot partition to the maintenance partition:			
	Router(config)# bo	ot device module 1 cf:1			
Related Commands	Command	Description			
	hw-module module reset	•			
	set boot device	Sets the boot partition.			
	show module	Shows all installed modules.			

Catalyst 6500 Series and Cisco 7600 Series Switch Firewall Services Module Command Reference, 4.0

boot device (IOS)

bridge-group

To assign an interface to a bridge group in transparent firewall mode, use the **bridge-group** command in interface configuration mode. To unassign an interface, use the **no** form of this command. A transparent firewall connects the same network on its inside and outside interfaces. Each pair of interfaces belongs to a bridge group.

bridge-group number

no bridge-group number

Syntax Description	<i>number</i> Specifies an integer between 1 and 100.									
Defaults	No default behavior or values.									
Command Modes	The following tab	le shows the	modes in whic	h you can enter	the comma	nd:				
			Firewall N	lode	Security C	ontext				
						Multiple				
	Command Mode		Routed	Transparent	Single	Context	System			
	Interface configu	ration		•	•	•	_			
Command History	Release Modification									
,	3.1(1) This command was introduced.									
Usage Guidelines	You can configure up to eight bridge groups of two interfaces each. You can only assign two interfaces to a bridge group. You cannot assign the same interface to more than one bridge group.									
	Assign a management IP address to the bridge group using the interface bvi command and then the ip address command.									
	Each bridge group connects to a separate network. Bridge group traffic is isolated from other bridge groups; traffic is not routed to another bridge group within the FWSM, and traffic must exit the FWSM before it is routed by an external router back to another bridge group in the FWSM.									
	You might want to use more than one bridge group if you do not want the overhead of security contexts, or want to maximize your use of security contexts. Although the bridging functions are separate for each bridge group, many other functions are shared between all bridge groups. For example, all bridge groups share a syslog server or AAA server configuration. For complete security policy separation, use security contexts with one bridge group in each context.									
Examples	The following exa	ample assigns	VLAN 100 to	bridge group 1:	:					
•	The following example assigns VLAN 100 to bridge group 1: hostname(config)# interface vlan 100									

hostname(config-if)# bridge-group 1

Command	Description
interface bvi	Enters the interface configuration mode for a bridge group so you can set the management IP address.
interface	Configures an interface.
ip address	Sets the management IP address for a bridge group.
nameif	Sets the interface name.
security-level	Sets the interface security level.
	interface bvi interface ip address nameif

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