



backup interface through browse-networks Commands

backup interface

For models with a built-in switch, such as the ASA 5505 adaptive security appliance, use the **backup interface** command in interface configuration mode to identify a VLAN interface as a backup interface, for example, to an ISP. This command can be entered in the interface configuration mode for a VLAN interface only. This command blocks all through traffic on the identified backup interface unless the default route through the primary interface goes down. To restore normal operation, use the **no backup interface** command.

backup interface vlan number

no backup interface vlan number

Syntax Description	vlan number	Specif	ies the VLA	N ID of the back	up interfac	e.	
Defaults	By default, the bac l	kup interfac	e command i	s disabled.			
ommand Modes	The following table	shows the m	odes in whic	h you can enter	the comma	nd:	
		Firewall Mode Security Context					
						Multiple	
	Command Mode		Routed	Transparent	Single	Context	System
	Interface configura	tion	•	_	•		
ommand History	Release	Modif	ication				
	7.2(1)	This c	ommand was	s introduced.			
	7.2(2)	3 for n	ormal traffic	icense no longer , 1 for a backup i interfaces witho	nterface, a	nd 1 for failove	er; you can nov

Usage Guidelines When you configure Easy VPN with the **backup interface** command, if the backup interface becomes the primary, then the adaptive security appliance moves the VPN rules to the new primary interface. See the **show interface** command to view the state of the backup interface.

Be sure to configure default routes on both the primary and backup interfaces so that the backup interface can be used when the primary fails. For example, you can configure two default routes: one for the primary interface with a lower administrative distance, and one for the backup interface with a higher distance. See the **dhcp client route distance** command to override the administrative distance for default routes acquired from a DHCP server. To configure dual ISP support, see the **sla monitor** and **track rtr** commands for more information.

backup interface command is not required to enable more than 3 interfaces.

You cannot configure a backup interface when the **management-only** command is already configured on the interface.

Examples

The following example configures four VLAN interfaces. The backup-isp interface only allows through traffic when the primary interface is down. The **route** commands create default routes for the primary and backup interfaces, with the backup route at a lower administrative distance.

```
hostname(config)# interface vlan 100
hostname(config-if) # nameif outside
hostname(config-if) # security-level 0
hostname(config-if)# ip address 10.1.1.1 255.255.255.0
hostname(config-if) # backup interface vlan 400
hostname(config-if) # no shutdown
hostname(config-if) # interface vlan 200
hostname(config-if)# nameif inside
hostname(config-if)# security-level 100
hostname(config-if)# ip address 10.2.1.1 255.255.255.0
hostname(config-if) # no shutdown
hostname(config-if)# interface vlan 300
hostname(config-if) # nameif dmz
hostname(config-if)# security-level 50
hostname(config-if)# ip address 10.3.1.1 255.255.255.0
hostname(config-if)# no shutdown
hostname(config-if)# interface vlan 400
hostname(config-if)# nameif backup-isp
hostname(config-if)# security-level 50
hostname(config-if)# ip address 10.1.2.1 255.255.255.0
hostname(config-if) # no shutdown
hostname(config)# interface ethernet 0/0
hostname(config-if) # switchport access vlan 100
hostname(config-if) # no shutdown
hostname(config-if)# interface ethernet 0/1
hostname(config-if)# switchport access vlan 200
hostname(config-if) # no shutdown
hostname(config-if)# interface ethernet 0/2
hostname(config-if) # switchport access vlan 300
hostname(config-if) # no shutdown
hostname(config-if)# interface ethernet 0/3
hostname(config-if) # switchport access vlan 400
hostname(config-if) # no shutdown
hostname(config-if)# route outside 0 0 10.1.1.2 1
hostname(config)# route backup-isp 0 0 10.1.2.2 2
```

Related Commands	
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Command	Description				
forward interface	Restricts an interface from initiating traffic to another interface.				
interface vlan	Creates a VLAN interface and enters interface configuration mode.				
dhcp client route distance	Overrides the administrative distance for default routes acquired from a DHCP server.				
sla monitor	Creates an SLA monitoring operation for static route tracking.				
track rtr	Tracks the state of an SLA monitoring operation.				

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. To remove the backup-servers attribute from the running configuration, use the **no** form of this command 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 adaptive security appliance is unavailable. When you configure backup servers, the adaptive security appliance pushes the server list to the client as the IPSec tunnel is established.

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-config	Specifies that the client uses no backup servers. The adaptive security appliance pushes a null server list.					
	keep-client-configSpecifies that the adaptive security appliance sends no backup server information to the client. The client uses its own backup server list, if configured.						
	server1 server 2 server10Provides a space delimited, priority-ordered list of servers for the VPN client to use when the primary adaptive security appliance 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 not exist ur security appliance.	ntil you configu	are them, either o	on the clien	t or on the prir	nary adaptive	
Command Modes							
Command Modes	The following table shows the			1			
Command Modes	The following table shows the	modes in whic		the comma			
Command Modes	The following table shows the			1			
Command Modes	The following table shows the			Security C	Context	System	
Command Modes		Firewall N	Node	Security C	Context Multiple	System —	
Command Modes	Command Mode Group-policy configuration	Firewall N Routed	Node	Security C Single	Context Multiple	System 	
Command Modes	Command Mode	Firewall N Routed	Node	Security C Single	Context Multiple	Syste	



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

banner {asdm | exec | login | motd text}

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

Syntax Description	asdm Configures the system to display a banner after you successfully log in to ASDM.						
oyman Description	asum	The user is prompted to either Continue to complete logging in, or to Disconnect. This option lets you require users to accept the terms of a written policy before					
		connecting.					
	exec	Configures th	ne system to a	lisplay a banner	before disp	playing the ena	ble prompt.
	login			lisplay a banner urity appliance u			n prompt when
	motd	Configures th connect.	ne system to a	lisplay a messag	e-of-the-da	y banner wher	ı you first
	text	Line of messa	age text to di	splay.			
Defaults	The default is n	o banner.					
Delduits							
		able shows the m			1		
		able shows the m	nodes in whic		the comma	Context	
	The following ta		Firewall N	lode	Security C	context Multiple	Suctom
	The following ta	9			Security C	Context	System
	The following ta	9	Firewall M Routed	Transparent	Security C Single	Context Multiple Context	-
Command Modes	The following ta	9	Firewall M Routed	Transparent	Security C Single	Context Multiple Context	-
Command Modes	The following ta Command Mode Global configur	e ration	Firewall M Routed	Transparent	Security C Single	Context Multiple Context	
Command Modes	The following ta Command Mode Global configur Release 7.2(4)/8.0(3) The banner com	a ration Modification The asdm key nmand configure	Firewall N Routed • yword was ac	Iode Transparent • Ided. display for the k	Security C Single •	Context Multiple Context • context	•
Command Modes	The following ta Command Mode Global configur Release 7.2(4)/8.0(3) The banner com of all characters	e ration Modification The asdm ke	Firewall N Routed • yword was ac	Iode Transparent • dded. display for the k ce (space) until t	Security C Single •	Context Multiple Context • ecified. The <i>tex</i> he line (carriag	• •

<u>Note</u>	The tokens \$(domain) and \$(hostname) are replaced with the hostname and domain name of the adaptive security appliance. When you enter a \$(system) token in a context configuration, the context uses the banner configured in the system configuration.
•	Multiple lines in a banner are handled by entering a new banner command for each line that you want to add. Each line is then appended to the end of the existing banner.
<u>Note</u>	The maximum length of the authorization prompt for banners is 235 characters or 31 words, whichever limitation is reached first.
	When accessing the adaptive security appliance 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 adaptive security appliance 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 <i>text</i> that you enter at the end of the no banner command is ignored.
Examples	This example shows how to configure the asdm , exec , login , and motd banners:
	<pre>hostname(config)# banner asdm You successfully logged in to ASDM 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 asdm: You successfully logged in to ASDM</pre>
	exec: Enter your password carefully
	login: Enter your password to log in
	motd: Think on These Things
	This 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 Think on These Things and Enjoy Today
Related Commands	Command Description
	clear configure banner Removes all banners.

Displays all banners.

show running-config banner

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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. This option allows inheritance of a banner from another group policy. To prevent inheriting a banner, use the **banner none** command.

banner {value banner_string | none}

no banner



If you configure multiple banners under a VPN group-policy, and you delete any one of the banners, all banners will be deleted.

	noneSets a banner with a null value, thereby disallowing a banner. Prevents inheriting a banner from a default or specified group policy.							
	value banner_stringConstitutes the banner text. Maximum string size is 500 characters. Use the "\n" sequence to insert a carriage return.							
Defaults	There is no default ban	ner.						
Command Modes	The following table sho	ows the mod	es in whic	h you can enter	the comma	ınd:		
			Firewall N	lode	Security (Context		
		_				Multiple		
	Command Mode	1	Routed	Transparent	Single	Context	System	
	Group-policy configur	•	•		•			
Command History	Release Modification							
	7.0(1)			s introduced.				
		The IPsec VPN client supports full HTML for the banner. However, the clientless portal and the AnyConnect client support partial HTML. To ensure the banner displays properly to remote users, follow these guidelines:						
Usage Guidelines						-		
Usage Guidelines	AnyConnect client supp	port partial H	ITML. To			-		
Usage Guidelines	AnyConnect client supp these guidelines:	ers, use the <i>i</i>	ITML. To o /n tag.	ensure the banne		-		

Cisco ASA 5500 Series Command Reference

hostname(config)# group-policy FirstGroup attributes hostname(config-group-policy)# banner value Welcome to Cisco Systems 7.0.

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	memory_size(Optional) Sets the memory size for block diagnostics in bytes, instead of applying the dynamic value. If this value is greater than free memory, an error message displays and the value is not accepted. If this value is greater than 50% of free memory, a warning message displays, but the value is accepted.						
Defaults	The default memory	assigned to track block	diagnostics is 21	36 bytes.			
Command Modes	The following table s	hows the modes in whic	ch 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)	This command was	s introduced.				
Usage Guidelines	To view the currently allocated memory, enter the show blocks queue history command. If you reload the adaptive security appliance, the memory allocation returns to the default.						
Examples	The following examp hostname# blocks qu	le increases the memory	y size for block o	liagnostics	:		
	The following examp	le increases the memory	y size to 3000 by	vtes:			
	hostname# blocks q	neue history enable 3	000				
	The following examp free memory:	le attempts to increase t	he memory size	to 3000 by	tes, but the val	ue is more thar	

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

_	Command	Description		
	clear blocks	Clears the system buffer statistics.		
	show blocks	Shows the system buffer utilization.		

boot

To specify which image the system uses at the next reload and which configuration file the system uses at startup, use the **boot** command in global configuration mode. To restore the default value, use the **no** form of this command.

boot {config | system} url

no boot {**config** | **system**} *url*

Syntax Description	config	Specifies which configuration file to use when the system is loaded.					
	system	Specifies which image file to use when the system is loaded.					
	url	Sets the location of the image or configuration. In multiple context mode, all remote URLs must be accessible from the admin context. See the following URL syntax:					
		• disk0:/[path/]filename					
		For the ASA 5500 series adaptive security appliance, this URL indicates the internal Flash memory. You can also use flash instead of disk0 ; they are aliased.					
		• disk1:/[path/]filename					
		For the ASA 5500 series adaptive security appliance, this URL indicates the external Flash memory card.					
		• flash: /[path/]filename					
		This URL indicates the internal Flash memory.					
		 tftp://[user[:password]@]server[:port]/[path/]filename[;int=interface_n ame] 					
		Specify the interface name if you want to override the route to the server address.					
		This option is available for the boot system command for the ASA 5500 series adaptive security appliance only; the boot config command requires the startup configuration to be on the Flash memory.					
		Only one boot system tftp: command can be configured, and it must be the first one configured.					

Defaults

If the **boot config** command is not specified, the startup-config will be saved to a hidden location, and used only with commands that utilize it, such as the **show startup-config** command and the **copy startup-config** command.

For the **boot system** command, there are no defaults. If you do not specify a location, the adaptive security appliance searches only the internal Flash memory for the first valid image to boot. If no valid image is found, no system image will be loaded, and the adaptive security appliance will boot loop until ROMMON or Monitor mode is broken into.

		Firewall	Firewall Mode		Security Context			
					Multiple			
	Command Mode	Routed	Routed Transparent	Single	Context	System		
	Global configuration	n •	•	•	_	•		
Command History	Release	Modification						
	7.0(1)	This command wa	as introduced.					
	save the settings to the BOOT and CONFIG_FILE environment variables, which the adaptive security appliance uses to determine the startup configuration and software image to boot when it restarts. You can enter up to four boot system command entries, to specify different images to boot from in order and the adaptive security appliance will boot the first valid image it finds.							
0	If you want to use a startup configuration file at the new location that is different from the current running configuration, then be sure to copy the startup configuration file to the new location after you save the running configuration. Otherwise, the running configuration will overwrite the new startup configuration when you save it.							
<u>)</u> Tip	The ASDM image file is specified by the asdm image command.							
Examples		ple specifies that at star lled configuration.txt:	tup the adaptive s	ecurity app	liance should	load a		
xamples	configuration file ca				liance should	load a		
Examples Related Commands	configuration file ca	lled configuration.txt:			liance should	load a		
	<pre>configuration file ca hostname(config)#</pre>	lled configuration.txt: boot config disk0:/co	onfiguration.tx	t	liance should	load a		

border style

To customize the border of the WebVPN Home page that is displayed to authenticated WebVPN users, use the **border style** command from customization configuration mode. To remove the command from the configuration and cause the value to be inherited, use the **no** form of this command.

border style value

no border style *value*

Syntax Description	<i>value</i> The Cascading Style Sheet (CSS) parameters (maximum 256 characters).							
Defaults	The default style of the border i	s background	-color:#669999;	color:white	ð.			
Command Modes	The following table shows the n	nodes in whic	h you can enter	the comma	nd:			
		Firewall N	lode	Security (ontext			
					Multiple			
	Command Mode	Routed	Transparent	Single	Context	System		
	Customization configuration	•		•				
Command History	Release Modific	ation						
	7.1(1) This co	mmand was i	ntroduced.					
Usage Guidelines	The style option is expressed as any valid Cascading Style Sheet (CSS) parameters. Describing these parameters is beyond the scope of this document. For more information about CSS parameters, consult CSS specifications at the World Wide Web Consortium (W3C) website at www.w3.org. Appendix F of the CSS 2.1 Specification contains a convenient list of CSS parameters, and is available at www.w3.org/TR/CSS21/propidx.html.							
	Here are some tips for making the most common changes to the WebVPN pages-the page colors:							
	• You can use a comma-separated RGB value, an HTML color value, or the name of the color if recognized in HTML.							
	• RGB format is 0,0,0, a range of decimal numbers from 0 to 255 for each color (red, green, blue); the comma separated entry indicates the level of intensity of each color to combine with the others.							
•	• HTML format is #000000, s third and fourth green, and	-			t and second re	present red, the		
Note	To easily customize the WebVP features for configuring style elements			-				

Examples

The following example customizes the background color of the border to the RGB color #66FFFF, a shade of green:

hostname(config)# webvpn hostname(config-webvpn)# customization cisco hostname(config-webvpn-custom)# border style background-color:66FFFF

Related Con	nmands C
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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.

browse-networks

To customize the Browse Networks box of the WebVPN Home page that is displayed to authenticated WebVPN users, use the **browse-networks** command from 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.

browse-networks {title | message | dropdown} {text | style} value

no browse-networks [{title | message | dropdown} {text | style} value]

Syntax Description	dropdown	Specifies you are cha	nging the drop-o	down list.					
	message	Specifies you are cha	nging the messa	ge displaye	ed under the tit	le.			
	style								
	text	text Specifies you are changing the text.							
	title	Specifies you are changing the title.							
	value	The actual text to display (maximum 256 characters), or Cascading Style Sheet (CSS) parameters (maximum 256 characters).							
Defaults	The default title text is "Browse Networks".								
	The default title style i				6				
	C	background-color:#99CCCC;color:black;font-weight:bold;text-transform:uppercase							
	The default message text is "Enter Network Path". The default message style is:								
								background-color:	background-color:#99CCCC;color:maroon;font-size:smaller.
	The default dropdown text is "File Folder Bookmarks". The default dropdown style is:								
								border:1px solid black;font-weight:bold;color:black;font-size:80%.	
		_							
			1	the comma	nd:				
Command Modes	The following table sh	lows the modes in whic	n you can enter						
Command Modes	The following table sh	Firewall M		Security C	ontext				
Command Modes	The following table sh			1	ontext Multiple				
Command Modes	The following table sh			1		System			
Command Modes		Firewall M Routed	lode	Security C	Multiple	System —			
Command Modes	Command Mode Webvpn customization	Firewall M Routed	lode	Security C Single	Multiple	System —			

Usage Guidelines The style option is expressed as any valid Cascading Style Sheet (CSS) parameters. Describing these parameters is beyond the scope of this document. For more information about CSS parameters, consult CSS specifications at the World Wide Web Consortium (W3C) website at www.w3.org. Appendix F of the CSS 2.1 Specification contains a convenient list of CSS parameters, and is available at www.w3.org/TR/CSS21/propidx.html. Here are some tips for making the most common changes to the WebVPN pages—the page colors: You can use a comma-separated RGB value, an HTML color value, or the name of the color if recognized in HTML. RGB format is 0,0,0, a range of decimal numbers from 0 to 255 for each color (red, green, blue); the comma separated entry indicates the level of intensity of each color to combine with the others.

• 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

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.

Examples

The following example changes the title to "Browse Corporate Networks", and the text within the style to blue:

```
F1-asa1(config)# webvpn
F1-asa1(config-webvpn)# customization cisco
F1-asa1(config-webvpn-custom)# browse-networks title text Browse Corporate Networks
F1-asa1(config-webvpn-custom)# browse-networks title style color:blue
```

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