



## CHAPTER 4

# backup interface through browse-networks Commands

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# 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* Specifies the VLAN ID of the backup interface.

## Defaults

By default, the **backup interface** command is disabled.

## Command Modes

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

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

## Command History

Release	Modification
7.2(1)	This command was introduced.
7.2(2)	The Security Plus license no longer limits the number of VLAN interfaces to 3 for normal traffic, 1 for a backup interface, and 1 for failover; you can now configure up to 20 interfaces without any other limitations. Therefore the <b>backup interface</b> command is not required to enable more than 3 interfaces.

## Usage Guidelines

When you configure Easy VPN with the **backup interface** command, if the backup interface becomes the primary, then the 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.

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**

<b>Command</b>	<b>Description</b>
<b>forward interface</b>	Restricts an interface from initiating traffic to another interface.
<b>interface vlan</b>	Creates a VLAN interface and enters interface configuration mode.
<b>dhcp client route distance</b>	Overrides the administrative distance for default routes acquired from a DHCP server.
<b>sla monitor</b>	Creates an SLA monitoring operation for static route tracking.
<b>track rtr</b>	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 security appliance is unavailable. When you configure backup servers, the 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

<b>clear-client-config</b>	Specifies that the client uses no backup servers. The security appliance pushes a null server list.
<b>keep-client-config</b>	Specifies that the security appliance sends no backup server information to the client. The client uses its own backup server list, if configured.
<i>server1 server 2.... server10</i>	Provides a space delimited, priority-ordered list of servers for the VPN client to use when the primary 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 until you configure them, either on the client or on the primary security appliance.

### Command Modes

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

Command Mode	Firewall Mode		Security Context		
	Routed	Transparent	Single	Multiple Context	System
Group-policy configuration	•	—	•	—	—

### Command History

Release	Modification
7.0(1)	This command was introduced.

### Usage Guidelines

Configure backup servers either on the client or on the primary security appliance. If you configure backup servers on the security appliance, 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 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

<b>asdm</b>	Configures the system to display a banner after you successfully log in to ASDM. 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.
<b>exec</b>	Configures the system to display a banner before displaying the enable prompt.
<b>login</b>	Configures the system to display a banner before the password login prompt when accessing the security appliance using Telnet.
<b>motd</b>	Configures the system to display a message-of-the-day banner when you first connect.
<i>text</i>	Line of message text to display.

## Defaults

The default is no banner.

## Command Modes

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

Command Mode	Firewall Mode		Security Context		
	Routed	Transparent	Single	Multiple	
				Context	System
Global configuration	•	•	•	•	•

## Command History

Release	Modification
7.2(4)/8.0(3)	The <b>asdm</b> keyword was added.

## Usage Guidelines

The **banner** command configures a banner to display for the keyword specified. The *text* string consists of all characters following the first white space (space) until the end of the line (carriage return or line feed [LF]). Spaces in the text are preserved. However, you cannot enter tabs through the CLI.

Subsequent *text* entries are added to the end of an existing banner unless the banner is cleared first.

**Note**

The tokens \$(domain) and \$(hostname) are replaced with the hostname and domain name of the 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 wish to add. Each line is then appended to the end of the existing banner. There is no limit on the length of a banner other than RAM and Flash limits.

When accessing the 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 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 *text* 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:

```
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

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
<b>clear configure banner</b>	Removes all banners.
<b>show running-config banner</b>	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. 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
```



### Note

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

### Syntax Description

<b>none</b>	Sets a banner with a null value, thereby disallowing a banner. Prevents inheriting a banner from a default or specified group policy.
<b>value</b> <i>banner_string</i>	Constitutes the banner text. Maximum string size is 500 characters. Use the “\n” sequence to insert a carriage return.

### Defaults

There is no default banner.

### Command Modes

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

Command Mode	Firewall Mode		Security Context		
	Routed	Transparent	Single	Multiple Context	System
Group-policy configuration	•	—	•	—	—

### Command History

Release	Modification
7.0(1)	This command was introduced.

### Examples

The following example shows how to create a banner for the group policy named “FirstGroup”:

```
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

<i>memory_size</i>	(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.
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## Defaults

The default memory assigned to track block diagnostics is 2136 bytes.

## Command Modes

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

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

## Command History

Release	Modification
7.0(1)	This command was introduced.

## Usage Guidelines

To view the currently allocated memory, enter the **show blocks queue history** command. If you reload the security appliance, 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 queue history enable 3000
```

```
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**

<b>Command</b>	<b>Description</b>
<b>clear blocks</b>	Clears the system buffer statistics.
<b>show blocks</b>	Shows the system buffer utilization.

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# boot

To specify which system 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. Use the **no** form of this command to restore the default value.

```
boot {config | system} url
```

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

## Syntax Description

<b>config</b>	Specifies which configuration file to use when the system is loaded.
<b>system</b>	Specifies which system image file to use when the system is loaded.
<i>url</i>	<p>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:</p> <ul style="list-style-type: none"> <li>• <b>disk0:/[path/]filename</b> For the ASA 5500 series adaptive security appliance, this URL indicates the internal Flash memory. You can also use <b>flash</b> instead of <b>disk0</b>; they are aliased.</li> <li>• <b>disk1:/[path/]filename</b> For the ASA 5500 series adaptive security appliance, this URL indicates the external Flash memory card.</li> <li>• <b>flash:/[path/]filename</b> This URL indicates the internal Flash memory.</li> <li>• <b>tftp://[user[:password]@]server[:port]/[path/]filename[;int=interface_name]</b> Specify the interface name if you want to override the route to the server address.  This option is available for the <b>boot system</b> command for the ASA 5500 series adaptive security appliance only; the <b>boot config</b> command requires the startup configuration to be on the flash memory.  Only one <b>boot system tftp:</b> command can be configured, and it must be the first one configured.</li> </ul>

## 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 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 security appliance will boot loop until ROMMON or Monitor mode is entered.

**Command Modes**

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

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

**Command History**

Release	Modification
7.0(1)	This command was introduced.

**Usage Guidelines**

When you save this command to the startup configuration using the **write memory** command, you also save the settings to the BOOT and CONFIG\_FILE environment variables, which the security appliance uses to determine the startup configuration and software image to boot when it restarts.

You can enter up to four **boot system** commands, to specify different images to boot from in order, and the security appliance will boot the first valid image it finds.

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.

**Tip**

The ASDM image file is specified by the **asdm image** command.

**Examples**

The following example specifies that at startup the security appliance should load a configuration file called configuration.txt:

```
hostname(config)# boot config disk0:/configuration.txt
```

**Related Commands**

Command	Description
<b>asdm image</b>	Specifies the ASDM software image.
<b>show bootvar</b>	Displays boot file and configuration environment variables.

# 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

*value* The Cascading Style Sheet (CSS) parameters (maximum 256 characters).

## Defaults

The default style of the border is background-color:#669999;color:white.

## Command Modes

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

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

## Command History

Release	Modification
7.1(1)	This command was introduced.

## 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](http://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](http://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 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 Commands**

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

<b>dropdown</b>	Specifies you are changing the drop-down list.
<b>message</b>	Specifies you are changing the message displayed under the title.
<b>style</b>	Specifies you are changing the style.
<b>text</b>	Specifies you are changing the text.
<b>title</b>	Specifies you are changing the title.
<i>value</i>	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 is:

```
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:#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%.
```

## Command Modes

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

Command Mode	Firewall Mode		Security Context		
	Routed	Transparent	Single	Multiple Context	System
Webvpn customization configuration	•	—	•	—	—

## Command History

Release	Modification
7.1(1)	This command was introduced.

**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](http://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](http://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-asal(config)# webvpn
F1-asal(config-webvpn)# customization cisco
F1-asal(config-webvpn-custom)# browse-networks title text Browse Corporate Networks
F1-asal(config-webvpn-custom)# browse-networks title style color:blue
```

**Related Commands**

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



