

t - z

- tail-logs, on page 2
- test aaa-server, on page 4
- traceroute, on page 6
- undebug, on page 9
- upgrade, on page 10
- verify, on page 12
- vpn-sessiondb logoff, on page 16
- write net, on page 17
- write terminal, on page 18

tail-logs

To open a system log to view messages as they are written when working with the Cisco Technical Assistance Center (TAC) to resolve a problem, use the **tail-logs** command.

tail-logs

Command History	Release	Modification
	6.1	This command was introduced.

Usage Guidelines

The **tail-logs** command opens a system log so that you can see messages as they are written. Use this command while working with the Cisco Technical Assistance Center (TAC) so that they can help you interpret the output and to select the appropriate log to view.

The command presents a menu listing all available logs. Follow the command prompts to select the log. If the log is long, you will see a More line; press Enter to progress a line at a time, Space to go a page at a time. Press Ctrl+C to return to the command prompt when you are finished viewing the log.

Examples

The following example shows how tail the ngfw.log file. The file listing starts with directories at the top, then a list of files in the current directory.

```
> tail-logs
===Tail Logs===
_____
Directory: /ngfw/var/log
-----sub-dirs-----
cisco
mojo
removed_packages
setup
connector
sf
scripts
packages
removed scripts
httpd
-----files------
2016-10-14 18:12:04.514783 | 5371
                                     | SMART STATUS sda.log
                                     | SMART STATUS sdb.log
2016-10-14 18:12:04.524783 | 353
2016-10-11 21:32:23.848733 | 326517
                                     | action_queue.log
2016-10-06 16:00:56.620019 | 1018
                                    | br1.down.log
<list abbreviated>
2016-10-06 15:38:22.630001 | 9194
                                    | ngfw.log
<list abbreviated>
([b] to go back or [s] to select a file to view, [Ctrl+C] to exit)
Type a sub-dir name to list its contents: s
Type the name of the file to view ([b] to go back, [Ctrl+C] to exit)
```

> ngfw.log 2016-10-06 15:38:22 Running [rm -rf /etc/logrotate-dmesg.conf /etc/logrotate.conf /etc/logrotate_ssp.conf /etc/logrotate_ssp.d] ... success 2016-10-06 15:38:22 Running [ln -sf /ngfw/etc/logrotate-size.conf /etc/] ... success 2016-10-06 15:38:22 Running [ln -sf /ngfw/etc/logrotate-size.d /etc/] ... success 2016-10-06 15:38:22 Running [ln -sf /ngfw/etc/logrotate.conf /etc/] ... success 2016-10-06 15:38:22 Running [ln -sf /ngfw/etc/logrotate.conf /etc/] ... success 2016-10-06 15:38:22 Running [ln -sf /ngfw/etc/logrotate.d /etc/] ... success 2016-10-06 15:38:22 Running [ln -sf /ngfw/etc/logrotate.d /etc/] ... success 2016-10-06 15:38:22 Running [ln -sf /ngfw/etc/logrotate.d /etc/] ... success

Related Commands	Command	Description
	system support view-files	Opens a log file.

t-z

test aaa-server

To check whether the device can authenticate or authorize users with a particular AAA server, use the **test aaa-server** command.

test aaa-server {**authentication** groupname [**host** ip_address] [**username** username] [**password**] | **authorization** groupname [**host** ip_address] [**username** username}

Syntax Description	groupname	Specifies the AAA server group or realm name.	
	host ip-address	Specifies the server IP address. If you do not specify the IP address in the command, you are prompted for it.	
	password password	Specifies the user password. If you do not specify the password in the command, you are prompted for it.	
	username username	Specifies the username of the account used to test the AAA server settings. Make sure the username exists on the AAA server; otherwise, the test will fail. If you do not specify the username in the command, you are prompted for it.	
Command History	Release	Modification	
	6.2.1	This command was introduced.	
Usage Guidelines	This command lets you ve This command lets you te you isolate whether AAA to the AAA server, or oth	erify that the system can authenticate or authorize users with a particular AAA server. est the AAA server without having an actual user attempt to authenticate. It also helps failures are due to misconfiguration of AAA server parameters, a connection problem her configuration errors.	
	Examples		
	The following is an example of a successful authentication:		
	<pre>> test aaa-server authentication svrgrp1 host 192.168.3.4 username bogus password mypassword INFO: Attempting Authentication test to IP address <10.77.152.85> (timeout: 12 seconds) INFO: Authentication Successful</pre>		

The following is an unsuccessful authentication attempt:

Related Commands

mands	Commands	Description
	aaa-server active	Reactivate a AAA server that is marked failed or fail an active AAA server.
	aaa-server fail	
	clear aaa-server statistics	Clears AAA server statistics.
	show aaa-server	Displays AAA server statistics.

traceroute

To determine the route packets will take to their destination through data interfaces, use the **traceroute** command. To determine the route packets will take to their destination when going through the management IP address, use the **traceroute system** command.

traceroute destination [source {source_ip | source-interface}] [numeric] [timeout timeout_value] [probe probe_num] [ttl min_ttl max_ttl] [port port_value] [use-icmp] traceroute system destination

Syntax Description	destination	The IPv4 or IPv6 address, or hostname, of the host to which the route is to be traced. For example, 10.100.10.10 or www.example.com. You must configure a DNS server to resolve a hostname.
		Traces that use the system keyword use the DNS servers configured for the management interface. Other traces use the DNS servers configured for the data interfaces. If you do not have DNS defined for the data interfaces, first use the nslookup command to determine the host's IP address, and then use the IP address instead of the FQDN.
	numeric	Specifies the output print only the IP addresses of the intermediate gateways. If this keyword is not specified the traceroute attempts to look up the hostnames of the gateways reached during the trace.
	<pre>port port_value</pre>	The destination port used by the User Datagram Protocol (UDP) probe messages. The default is 33434.
	<pre>probe probe_num</pre>	The number of probes to be sent at each TTL level. The default count is 3.
	<pre>source {source_ip source_interface}</pre>	Specifies an IP address or interface to be used as the source for the trace packets. This IP address must be the IP address of one of the data interfaces. In transparent mode, it must be the management IP address. If you specify an interface name, the IP address of the interface is used.
	system	Indicates the traceroute should be through the management interface, not a data interface.
	timeout <i>timeout_value</i>	Specifies the amount of time in seconds to wait for a response before the connection times out. The default is three seconds.
	ttl <i>min_ttl max_ttl</i>	Specifies the range of Time To Live values to use in the probes.
		• <i>min_ttl</i> —The TTL value for the first probes. The default is 1, but it can be set to a higher value to suppress the display of known hops.
		• <i>max-ttl</i> —The largest TTL value that can be used. The default is 30. The command terminates when the traceroute packet reaches the destination or when the value is reached.
	use-icmp	Specifies the use of ICMP probe packets instead of UDP probe packets.

6

Command History	Release	Modification	
	6.1	This command was introduced.	
Usage Guidelines	The traceroute command prints the result of each probe sent. Every line of output corresponds to a TTL value in increasing order. The following are the output symbols printed by the traceroute command:		
	Output Symbol	Description	
	*	No response was received for the probe within the timeout period.	
	nn msec	For each node, the round-trip time (in milliseconds) for the specified number of probes.	
	!N.	ICMP network unreachable.	
	!H	ICMP host unreachable.	
	!P	ICMP protocol unreachable.	
	!A	ICMP administratively prohibited.	
	?	Unknown ICMP error.	

Examples

The following example shows traceroute output that results when a destination IP address has been specified:

```
> traceroute 209.165.200.225
Tracing the route to 209.165.200.225
1 10.83.194.1 0 msec 10 msec 0 msec
2 10.83.193.65 0 msec 0 msec 0 msec
3 10.88.193.101 0 msec 10 msec 0 msec
4 10.88.193.97 0 msec 10 msec 10 msec
5 10.88.239.9 0 msec 10 msec 0 msec
6 10.88.238.65 10 msec 10 msec 0 msec
7 172.16.7.221 70 msec 70 msec 80 msec
8 209.165.200.225 70 msec 70 msec 70 msec
```

The following example shows a traceroute through the management interface to a hostname.

> t	traceroute system www.example.com
tra	aceroute to www.example.com (172.163.4.161), 30 hops max, 60 byte packets
1	192.168.0.254 (192.168.0.254) 0.213 ms 0.310 ms 0.328 ms
2	10.88.127.1 (10.88.127.1) 0.677 ms 0.739 ms 0.899 ms
3	lab-gwl.example.com (10.89.128.25) 0.638 ms 0.856 ms 0.864 ms
4	04-bb-gw1.example.com (10.152.240.65) 1.169 ms 1.355 ms 1.409 ms
5	wan-gwl.example.com (10.152.240.33) 0.712 ms 0.722 ms 0.790 ms
6	wag-gw1.example.com (10.152.240.73) 13.868 ms 10.760 ms 11.187 ms
7	rbb-gw2.example.com (172.30.4.85) 7.202 ms 7.301 ms 7.101 ms
8	rbb-gw1.example.com (172.30.4.77) 8.162 ms 8.225 ms 8.373 ms
9	sbb-gwl.example.com (172.16.16.210) 7.396 ms 7.548 ms 7.653 ms
10	corp-gw2.example.com (172.16.16.58) 7.413 ms 7.310 ms 7.431 ms
11	dmzbb-gw2.example.com (172.16.0.78) 7.835 ms 7.705 ms 7.702 ms

12dmzdcc-gw2.example.com (172.16.0.190)8.126 ms8.193 ms11.559 ms13dcz05n-gw1.example.com (172.16.2.106)11.729 ms11.728 ms11.939 ms14www1.example.com (172.16.4.161)11.645 ms7.958 ms7.936 ms

Related Commands

Command	Description
capture	Captures packet information, including trace packets.
show capture	Displays the capture configuration when no options are specified.
packet-tracer	Enables packet tracing capabilities.

8

undebug

To disable debugging for a given feature, use the **undebug** command. This command is a synonym for the **no debug** command.

undebug {*feature* [*subfeature*] [*level*] | **all**}

Syntax Description	all	Disables debugging for all features.	
	feature	Specifies the feature for which you want to disable debugging. To see available features, use the undebug ? command for CLI help.	
	subfeature	(Optional) Depending on the feature, you can disable debug messages for one or more subfeatures. Use ? to see the available subfeatures.	
	level	(Optional) Specifies the debugging level. The level might not be available for all features. Use ? to see the available levels.	
Command History	Release	Modification	
	6.1	This command was introduced.	
Usage Guidelines	For this reason, use debug commands only to troubleshoot specific problems or during troubleshooting sessions with the Cisco Technical Assistance Center (TAC). Moreover, it is best to use debug commands during periods of lower network traffic and fewer users. Debugging during these periods decreases the likelihood that increased debug command processing overhead will affect system use		
	You can view debug output in a CLI session only. Output is directly available when connected to the Console port, or when in the diagnostic CLI (enter system support diagnostic-cli). You can also view output from the regular threat defense CLI using the show console-output command.		
	Example		
	The following example disables debugging for all enabled debugs.		
	> undebug all >		

Related Commands	Command	Description
	debug	Enables debugging for a feature.
	show debug	Shows the currently active debug settings.

upgrade

To retry, cancel, or revert a system software upgrade, use the **upgrade** command. Note that this command is supported only for major and maintence upgrades.

	upgrade { cancel	cleanup-revert revert retry }
Syntax Description	cancel	Cancel a failed or in-progress upgrade. If an upgrade fails, but the system believes it is still in progress, you must cancel it to change the job status to one where you can retry the upgrade. The system should be able to automatically cancel failed upgrades in most cases.
	cleanup-revert	Permanently remove the revert snapshot to free up disk space. If you clean up the revertible version, you cannot use the revert keyword to return to it.
	revert	Undo a system software upgrade by returning to the previous version, if a revertible one is available. First use the show upgrade revert-info command to verify there is a revertible version, and which version it is. If that version is acceptable, you can use this command to revert to that version.
Command History		In high availability/scalability deployments, revert is more successful when all units are reverted simultaneously. When reverting with the CLI, open sessions with all units, verify that revert is possible on each, then start the processes at the same time.
		After you revert, you must re-register the device with the Smart Software Manager.
		In Versions 6.7 through 7.1, upgrade revert is available for a locally managed system only. You cannot use this command on a system managed by management center. In Version 7.2+, this command is supported in management center deployments <i>if</i> communications between the management center and device are disrupted.
		Caution Reverting from the CLI can cause configurations between the device and the management center to go out of sync, depending on what you changed post-upgrade. This can cause further communication and deployment issues.
	retry	Retry a failed upgrade. The upgrade must be considered failed by the system, and not in progress. You might need to enter upgrade cancel before you can retry the upgrade.
	Release	Modification
	6.7	This command was introduced.
	7.0	The upgrade revert command now automatically unregisters the device from the Smart Software Manager. You must re-register the device after reverting an upgrade.

10

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Release	Modification
7.2	The upgrade revert command is now supported in management center deployments if communications between the management center and device are disrupted.

Examples

t-z

The following example shows how to cancel a system software update that is in progress. After an upgrade cancel completes successfully, the device will be rebooted automatically.

```
> upgrade cancel
Warning: Upgrade in progress (11%, 8 mins remaining).
Are you sure you want to cancel it(yes/no)? yes
```

The following example shows how to retry a failed upgrade. You need to first correct the issues that made the upgrade fail, as indicated by failure messages. You might need to use **upgrade cancel** before you can retry the upgrade. Not all failed upgrades can be retried.

```
> upgrade retry
Tue Dec 3 23:50:31 UTC 2020: Resuming upgrade for
Cisco FTD Upgrade-6.7.0-32.sh.REL.tar
```

The following example shows how to revert to the previous version on a locally-managed system. Use the **show upgrade revert-info** command to determine if there is a version available for reversion.

```
> upgrade revert
Current version is 6.7.0.50
Detected previous version 6.6.1.20
Are you sure you want to revert (Yes/No)? Yes
```

The following example shows how to remove the previous version to clear up disk space. After using this command, you will not be able to revert to the previous version.

```
> upgrade cleanup-revert
Version 6.6 was cleaned up successfully.
```

Related Commands	Command	Description
	show last-upgrade status	Shows information on the last system software upgrade.
	show upgrade	Shows information on the current system software upgrade.

verify

To verify the checksum of a file, use the **verify** command.

verify [sha-512 | /signature] path
verify/md5 path [md5-value]

Syntax Description	/md5	(Optional) Calculates and displays the MD5 value for the specified software image. Compare this value with the value available on Cisco.com for this image.
	sha-512	(Optional) Calculates and displays the SHA-512 value for the specified software image. Compare this value with the value available on Cisco.com for this image.
	/signature	(Optional) Verifies the signature of an image stored in flash.
	md5-value	(Optional) The known MD5 value for the specified image. When an MD5 value is specified in the command, the system will calculate the MD5 value for the specified image and display a message verifying that the MD5 values match or that there is a mismatch.

	pat	h	• filename
			The name of a file in the current directory. Use dir to see directory contents, cd to change directories.
			• disk0:/[path/]filename
			This option indicates the internal Flash memory. You can also use flash: instead of disk0 ; they are aliased.
			• disk1:/[path/]filename
			This option indicates the external Flash memory card.
			• flash:/[path/]filename
			This option indicates the internal Flash card. For the ASA 5500 series, flash is an alias for disk0 :.
			• ftp: //[user[:password]@]server[: port]/[path/]filename[; type= xx]
			The type can be one of the following keywords:
			• ap —ASCII passive mode
			• an—ASCII normal mode
			• ip —(Default) Binary passive mode
			• in—Binary normal mode
			 http[s]://[user[:password] @]server[: port]/[path/]filename
			• tftp://[user[:password]@]server[: port]/[path/]filename[;int=interface_name]
			Specify the interface name if you want to override the route to the server address. The pathname cannot contain spaces.
Command Default	The	current flas	sh device is the default file system.
	Note	When you verify con	specify the /md5 option, you can use a network file, such as ftp, http and tftp as the source. The nmand without the /md5 option only lets you verify local images in Flash.
Command History	Rel	ease	Modification
	6.1		This command was introduced.
Usage Guidelines	Use	the verify	command to verify the checksum of a file before using it.
	Eacl is di copi	n software i splayed onl ed from on	mage that is distributed on disk uses a single checksum for the entire image. This checksum ly when the image is copied into Flash memory; it is not displayed when the image file is e disk to another.

Before loading or duplicating a new image, record the checksum and MD5 information for the image so that you can verify the checksum when you copy the image into Flash memory or onto a server. A variety of image information is available on Cisco.com.

To display the contents of Flash memory, use the **show flash:** command. The Flash contents listing does not include the checksum of individual files. To recompute and verify the image checksum after the image has been copied into Flash memory, use the **verify** command. Note, however, that the **verify** command only performs a check on the integrity of the file after it has been saved in the file system. It is possible for a corrupt image to be transferred to the device and saved in the file system without detection. If a corrupt image is transferred successfully to the device, the software will be unable to tell that the image is corrupted and the file will verify successfully.

To use the message-digest5 (MD5) hash algorithm to ensure file validation, use the **verify** command with the /**md5** option. MD5 is an algorithm (defined in RFC 1321) that is used to verify data integrity through the creation of a unique 128-bit message digest. The /**md5** option of the **verify** command allows you to check the integrity of the security appliance software image by comparing its MD5 checksum value against a known MD5 checksum value for the image. MD5 values are now made available on Cisco.com for all security appliance software images for comparison against local system image values.

To perform the MD5 integrity check, issue the **verify** command using the **/md5** keyword. For example, issuing the **verify /md5 flash:cdisk.bin** command will calculate and display the MD5 value for the software image. Compare this value with the value available on Cisco.com for this image.

Alternatively, you can get the MD5 value from Cisco.com first, then specify this value in the command syntax. For example, issuing the **verify /md5 flash:cdisk.bin 8b5f3062c4cacdbae72571440e962233** command will display a message verifying that the MD5 values match or that there is a mismatch. A mismatch in MD5 values means that either the image is corrupt or the wrong MD5 value was entered.

Examples

The following example verifies an image file. This is the same result you would see if you included the **/signature** keyword.

The following example calculates an MD5 value for the image. Most exclamation points have been removed for brevity.

t-z

The following example calculates an MD5 value and compares it to the expected value. The decision in this case is Verified, the calculated and expected values match.

The following example computes the SHA-512 value for the image.

Related Commands	Command	Description
	сору	Copies files.
	dir	Lists the files in the system.

vpn-sessiondb logoff

To log off all or selected VPN sessions, use the **vpn-sessiondb logoff** command.

	vpn-sessiondb logoff {all protocol protocol-name t	index index_number ipaddress IPaddr 121 name username unnel-group groupname} noconfirm
Syntax Description	all	Logs off all VPN sessions.
	index index_number	Logs off a single session by index number. You can view index numbers for each session with the show vpn-sessiondb detail command.
	ipaddress IPaddr	Logs off sessions for the IP address that you specify.
	121	Logs off all LAN-to-LAN sessions.
	name username	Logs off sessions for the username that you specify.
	protocol protocol-name	Logs off sessions for protocols that you specify. The protocols include:
		• ikev1—Internet Key Exchange version 1 (IKEv1) sessions.
		• ikev2—Internet Key Exchange version 2 (IKEv2) sessions.
		• ipsec —IPsec sessions using either IKEv1 or IKEv2.
		• ipseclan2lan—IPsec LAN-to-LAN sessions.
		• ipseclan2lanovernatt—IPsec LAN-to-LAN over NAT-T sessions.
	tunnel-group groupname	Logs off sessions for the tunnel group (connection profile) that you specify.
Command History	Release Modifica	tion

Examples

6.1

The following example shows how to log off sessions for the Corporate tunnel group (connection profile).

> vpn-sessiondb logoff tunnel-group Corporate noconfirm
INFO: Number of sessions from TunnelGroup "Corporate" logged off : 1

This command was introduced.

16

t - z

write net

To save the running configuration to a TFTP server, use the **write net** command.

	write net [interface	e if_name] server:[filename]
Syntax Description	:filename	Specifies the path and filename.
	interface if_name	The name of the interface through which the TFTP server can be reached.
	server:	Sets the TFTP server IP address or name.
Command History	Release	Modification
	6.1	This command was introduced.
Usage Guidelines	The running configura	ation is the configuration currently running in memory.
	Examples	
	The following example copies the running configuration to a TFTP server through the inside interface.	
	> write net interf	ace inside 10.1.1.1:/configs/contextbackup.cfg

Related Commands	Command	Description
	show running-config	Shows the running configuration.

write terminal

To show the running configuration on the terminal, use the write terminal command.

write terminal

Command History	Release	Modification
	6.1	This command was introduced.

Usage Guidelines This command is equivalent to the **show running-config** command.

Examples

The following example writes the running configuration to the terminal:

```
> write terminal
: Saved
:
: Serial Number: XXXXXXXXXX
: Hardware: ASA5516, 8192 MB RAM, CPU Atom C2000 series 2416 MHz, 1 CPU (8 cores)
:
NGFW Version 6.2.0
!
hostname firepower
(...remaining output deleted...)
```

t-z

t - z