FORCEPOINT

POWERED BY **Raytheon**

Forcepoint Appliances
Command Line Interface (CLI) Guide

V Series, X Series, & Virtual Appliances

v8.5.x

FORCEPOINT

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1 Forcepoint Appliances Command Line Interface

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The command line interface (CLI) is a text-based user interface for configuring, monitoring, and troubleshooting Forcepoint™ Appliances. For more information about Forcepoint Appliances, see the [Forcepoint Appliances Getting Started Guide](#).

This guide describes the syntax and usage of each CLI command, including:

Use the Forcepoint Appliances API to write scripts to execute configuration changes and perform updates across multiple appliances.

Forcepoint Appliances *Trademarks* statements are included in this document.

Conventions

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Administrators who are new to the appliance CLI may benefit from these quick summaries:

Logon and authentication

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There are several ways to connect to the CLI. Once connected, log on to the CLI with the **admin** credentials. The password is set initially during firstboot and can be changed in the CLI.

Connection via **SSH is available on all Forcepoint Appliances platforms.** When SSH access is enabled (default), connect to the CLI using a terminal emulator and SSH. On a Windows system, use PuTTY or similar. On a Mac system use Terminal. Connect to the appliance management interface IP address (interface C) on port 22.

On V Series or X Series appliances you can also access the CLI in these ways:

- Use the Virtual Console feature of the integrated DELL Remote Access Controller (iDRAC).
- Attach a keyboard and monitor directly to the appliance.
- Connect directly via the serial port or a KVM.

On a VMware virtual appliance, in addition to SSH you can access the CLI via the vSphere Client.

> **Note**
> Your logon session terminates automatically after 15 minutes of inactivity.

CLI modes and account privileges

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By default, only the **admin** account is enabled on each appliance. This is the account password that you set during the firstboot process.

Three working modes (sometimes called contexts) are supported by the Command Line Interface (CLI) and are available to every person logged on as admin.

Mode Name	Description
view	The default mode. Used for displaying status and settings.
config	The mode required for changing settings and enabling/disabling options.
diagnose	The mode used to perform troubleshooting. It provides support for system and network test commands.

Immediately after logon, an admin is always in the **view** mode.

To move from **view** to the **config** mode, enter **config** on the command line. The **admin** password is required for this mode switch.

To move from **view** to the **diagnose** mode, enter **diagnose** on the command line. To return to the **view** mode from **config** or **diagnose**, enter **exit** on the command line. You cannot move from **config** directly to **diagnose** or vice versa.

> **Tip**
>
> In order to toggle more easily between diagnose and config modes, an admin may choose to open two sessions (**diagnose** mode and **config** mode) at the same time.

- Only one person logged in as **admin** can work in **config** mode at a time.
- If needed, a person logged in as **admin** who is working in the **view** mode can use the following command to immediately bump the admin who is working in the **config** mode:

      clear session --config

  This moves the administrator from **config** mode back into **view** mode.

A person logged in as **admin** has full privileges in the **view**, **config**, and **diagnose** modes. While working in the **config** mode, an admin can optionally enable two accounts:

- The **audit** account is for colleagues who need to view settings. This account can work only in the **view** mode and can use only **show** and **exit** commands.
- The **tech-support** account is for use by Forcepoint technicians to provide technical support.

Also see the *Forcepoint Email Security module commands* and *Forcepoint DLP Analytics Engine module commands* sections.

Basic account management

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A user logged in as **admin** and working in the **config** mode can view, enable, and disable the **audit** account status and can change the password for the **admin** and **audit** accounts. An admin user can also display, create, modify, or delete a user account.

URL parameter

For **config** mode commands that use the "url" parameter, format the URL as follows:

    <url type>://<user>@<ip or hostname>/<filepath>

URL Type: (required) http, https, smb, tftp, or ftp.
User: (optional) The user name, if required to access the URL.
IP/Hostname: (required) The destination to which to connect.
Filepath: (required) The file and its path to retrieve.

Command syntax

The CLI syntax follows this format:

```
Command + Option + Parameter
```

Typically, verbs such as **show, set,** and **save** are used to view status or statistics, to change the configuration, and to initiate actions.

For example:

```
# set system clock --date <yyyy/mm/dd>
```

In this example:

- **set system** is the command.
- **clock** is the option.
- **--date** is the parameter, the value of which takes the format yyyy/mm/dd.

Other conventions include:

- Angled bracket, which indicate the value or set of options available for a parameter:

  ```
  --mask <ip_address>
  --module <email|web|proxy>
  ```

- Square brackets, which indicate that the parameter is optional:

  ```
  [--description <description>]
  ```

- Pipes or vertical bars, which separate parameter options:

  ```
  <email|web|proxy>
  ```

Some commands have options and parameters, while others do not. Some parameters have multiple values or user-determined values, while others may have only one possible value. Please refer to *Help for CLI commands*, page 4, for more details.

Help for CLI commands

Assistance is built into the CLI.

> **Tip**
> Use the **help** command, the **question mark character** (?), and the **tab** key to access help information.

Use the **help** command to access help information at any level.

```
# help
# help show
```

```
# help show log
```

Use the question mark character (**?**) to display help information for the current command path without pressing **Enter** and without losing the current input.

```
# ?
# show ?
# show system ?
```

Use the tab key to auto-complete command words, or to display a list of available words or phrases to complete a command.

Use the up and down arrow keys to scroll through the recently used commands.

Administrator account password recovery

If you have lost or forgotten your admin password, you can either:

● Have a temporary password sent to the email address configured on the appliance.
● Contact Forcepoint Technical Support to receive a temporary password by providing the security code displayed on the console

See *set account smtp*, page 22.

Use the temporary password to log on to the appliance:

● Enter **Ctrl+P** at the console login prompt.

 You will be prompted to set a new password. The old password is overwritten as soon as you type **yes** in the confirmation dialog box.

The password must be 8 to 15 characters in length and must include:

● At least one uppercase character
● At least one lowercase character
● At least one number
● At least one character in the set ! # % & ' ( ) * + , - . / ; < = > ? @ [ ] ^ _ { | } ~

The password must exclude all of the following:

● The special characters space $: ` \ "
● The previous three passwords for the account
● The hostname of the device
● The user name of any appliance service account (admin, root, tech-support, audit)
● Common appliance- or company-related names

All commands

arp	Display the kernel ARP table for the selected module.
cancel backup schedule	Cancel all scheduled backups.
cancel download hotfix	Cancel a hotfix download in progress.
cancel download upgrade	Cancel an upgrade download.
clear session	End a config mode session immediately.
config	Enter config mode.
create backup now	Create an appliance backup now.
create backup schedule	Define a schedule for automatic backups.
create user	Create a user account.
delete account email	Delete the password recovery email address.
delete account smtp	Delete SMTP settings.
delete backup	Delete backup files stored locally on the appliance.
delete certificate	Delete a certificate on the appliance.
delete component_route	Delete routing between components.
delete filestore	Delete one or more filestore aliases.
delete hotfix	Remove a hotfix file from the appliance.
delete interface dhcpv4	Delete DHCP interface settings.
delete interface dns	Delete appliance DNS settings.
delete interface ipv4	Delete interface IPv4 settings.
delete interface ipv6	Delete appliance IPv6 settings.
delete interface vlan	Delete appliance VLAN settings.
delete internet_proxy	Delete the Internet proxy configuration.
delete route	Delete a single IPv4 static route.
delete route6	Delete a single IPv6 static route.
delete user	Delete a user account.
diagnose	Enter the appliance CLI diagnose mode.
email-shell_debug_mode	Run selected debug modes on this appliance.
ethtool	Display the current Ethernet card settings.
exit	Exit the current CLI mode.
get email log_list	Run the DIG command.
get email log	Retrieve the specified log file.
get email log_list	Retrieve files that can be downloaded to a filestore.
get email pem	Download the PEM files to a filestore.
ifconfig	Display the status of the active network interfaces.
install hotfix	Install a hotfix file on the appliance.
install upgrade	Install an upgrade file on the appliance.
load certificate	Load a certificate from the filestore to the appliance.
load hotfix	Load the hotfix to the appliance.
load route	Add or delete IPv4 static route definitions.
load route6	Add or delete IPv6 static route definitions.

load trap	Load SNMP trap events configuration from a file.
load upgrade	Download or upload an upgrade file.
login analytics-engine	Log on to the DLP analytics-engine module CLI.
login email	Log onto the email module.
migrate interactive / migrate silent	Move the configuration and email datastore to a new appliance.
nc	Read and write data to the specified server.
netstat	Print network connections routing tables, interface statistics, and so on.
nslookup	Obtain DNS information for the specified host.
pause download hotfix	Pause a hotfix download in progress.
pause download upgrade	Pause an upgrade download in progress.
ping/ping6	Use ping and ping6 to test connectivity with the specified hostname or IP address.
register	Re-register the appliance.
restart	Restart the appliance, Web module, Content Gateway, and so on.
restart appliance	Restart the appliance.
restart email	Restart Forcepoint Email Security services.
restart policy-engine	Restart Policy Engine services.
restore backup	Restore the appliance configuration settings saved in the specified backup file.
resume download hotfix	Resume a hotfix download.
resume download upgrade	Resume an upgrade download.
route/route6	Display the contents of the selected module's kernel IP routing table entries in numeric format.
save backup	Save local backup file to a remote filestore.
save configsummary	Summarize configuration data and save it to a specified location.
save log	Zip a specified log file and save to a remote filestore.
save mibfile	Save the appliance MIB file to a specified location.
save route	Export IPv4 static routes to a remote storage location.
save route6	Export IPv6 static routes to a remote storage location.
save trap	Save SNMP trap events for editing or later use.
send test_email	Send a test email using the email/SMTP configuration.
set access ssh	Enable or disable remote CLI access via SSH.
set account admin	Change the password for the admin account.
set account audit	Enable or disable the audit account, and set or change the audit account password.
set account email	Define an email address to use for admin account password recovery.
set account smtp	Display the SMTP server settings used with the admin email address to facilitate password recovery.
set account tech-support	Enable or disable access for Forcepoint Technical Support.
set component_route	Configure traffic between components for routing through the appliance.

set pem-load-balancer Enable or disable the load balancer for Personal Email Manager and Forcepoint Secure Messaging.

set port Open or close the specific port and each interface.

set proxy content_line Run the Content Gateway content line command.

get email log_list Run a network check against the Content Gateway.

set proxy policy_engine Stop, start, or restart the Content Gateway Policy Engine.

set proxy password Reset the proxy password.

set route Add a static route in IPv4 format.

set route6 Add a static route in IPv46 format.

set security Set the current ciphers and protocols used for the specified type.

set service Stop, start, or restart Forcepoint Email Security services.

set snmp service Enable or disable SNMP monitoring (polling).

set snmp v1 Configure SNMP v1 monitoring.

set snmp v2c Configure SNMP v2c monitoring.

set snmp v3 Configure SNMP v3 monitoring.

set sysctl Modify Linux kernel parameters at runtime.

set system clock Set system time and date manually.

set system host Change the hostname and description for the appliance.

set system ntp Configure time zone synchronization with up to three NTP servers.

set system timezone Set the time zone for this appliance.

set trap service Enable or disable SNMP traps.

set trap v1 Configure SNMP v1 traps for alerting.

set trap v2c Configure SNMP v2c traps for alerting.

set trap v3 Configure SNMP v3 traps for alerting.

set user Update user account settings.

set vswitch stp Set the virtual switch STP bridge priority value.

set web cache_users Retrieve the status or enable/disable the caching of users.

set web control Enable or disable the specified Web protection service.

get email log_list Retrieve information from the Policy Broker.

set web usr_grp_ip_prec Retrieve the status or enable/disable the User Group IP Precedence.

setvirtualip Set the virtual IP address for the Email module.

show access ssh Display whether remote CLI access via SSH is enabled or disabled.

show account audit Determine whether the audit account is enabled or disabled.

show account email Display the admin account email address.

show account smtp Display the SMTP server settings used with the admin email address to facilitate password recovery.

show account tech-support Display Forcepoint Technical Support account access or activity history.

show analytic-update info Display Forcepoint analytics database names and current database update information.

show appliance info Display hardware and software data.

show appliance status	Display status information for the Analytics Engine and Policy Engine.
show backup list	Display all available backups in a specified location.
show backup schedule	Display the configured backup schedule.
show bandwidth	Display network traffic statistics, refreshed every five seconds.
show certificate	List the user certificate.
show component_route	Display the list of configured component routes.
show cpu	Display current CPU usage, refreshed every four seconds.
show current user	Show the user currently logged on.
show decrypt_port_mirror	Display the decryption port mirror configuration.
show diagnostic_ports	Display the status of diagnostic ports for use by Technical Support for troubleshooting.
show diskio	Display disk activity for the present modules, refreshed every four seconds.
show diskspace	Display disk statistics for all partitions.
show download hotfix	Display the status of the hotfix download process.
show download upgrade	Display the upgrade download status.
show email	Display status information for the Email module.
show email counter	Display Forcepoint Email Security counters.
show email info	Display Email Security container and build information.
show email subscription	Display Forcepoint Email Security subscription information.
show filestore	Display all filestore aliases.
show hotfix history	Display information about applied hotfixes.
show hotfix list	Display a list of available appliance hotfixes.
show interface bond	Display the bonded interface.
show interface dhcp	Display the current DHCP network configuration.
show interface info	Display the current network interface information.
show internet_proxy	Display the current Internet proxy information.
show log archive	Display log file archiving settings.
show log lastline	Display the last n lines of the log file (limit 500).
show log realtime	Display data as it is appended to the log file.
show manager info	Display Forcepoint DLP Analytics Engine configuration information.
show mem	Display system memory usage.
set network-agent	Display status information for the Network Agent module.
show port	Display the status of the specified port on a virtual interface.
show proxy	Display status information for the Content Gateway module.
show route	Display the list of configured static IPv4 routes.
show route6	Display the list of configured static IPv6 routes.
show security	View the current ciphers and protocols used for the specified type.
show service status	Display Forcepoint Email Security services along with service operational status and uptime.
show session	Display connection information for active CLI sessions.

show snmp config	Display SNMP monitor server information.
show sysctl	Display Linux kernel parameters.
show system clock	View the system date and time.
show system host	View the appliance hostname and description.
show system ntp	View the configured NTP servers.
show system timezone	View the configured time zone.
show system timezone-list	View supported time zone formats.
show trap config	Display SNMP trap server on/off status and version information.
show trap events	Display a table of SNMP trap events and settings.
show upgrade history	Display the upgrades that have been installed on this appliance.
show upgrade list	Display a list of upgrades available on Forcepoint servers.
show upgrade status	Display status of upgrade package download and installation.
show user	Show user information for all logged-on users or for a specific user.
show vswitch priority	Display the virtual switch STP bridge priority setting.
show vswitch status	Display the virtual switch STP bridge status.
show web	Display status information for the Web module.
shutdown appliance	Shut down the appliance.
start	Start Web module, Content Gateway services, or Network Agent, and so on.
start email	Start Forcepoint Email Security services.
start policy-engine	Start Policy Engine services.
stop	Stop Web module, Content Gateway services, or Network Agent, and so on.
stop email	Stop Forcepoint Email Security services.
stop analytics-engine	Stop Forcepoint DLP Analytics Engine services.
stop policy-engine	Stop Policy Engine services.
sync system ntp	Synchronize the time with the NTP servers.
tcpdump	Display information about packets from the specified network interface.
test tcp port	Test whether the TCP port is open for connection.
test trap event	Send a test trap to verify SNMP communication.
top	Display all Linux processes that are currently running in the selected module.
traceroute/traceroute6	Display the route used by packets to reach the specified destination.
uninstall hotfix	Uninstall a hotfix from the appliance.
wget	Test connectivity with the specified URL.
wget-proxy	Test connectivity between the specified URL and the proxy.

Session management

config

Enter the appliance CLI config mode.

```
config
```

Command modes

All products.

Usage guidelines

The admin must be in **view** mode to access **config** mode. The admin password is required.

Audit accounts do not have access to this mode.

Related commands

Command	Description
diagnose	Enter the appliance CLI diagnose mode.
show session	Display connection information for active CLI sessions.
clear session	End a config mode session immediately.
exit	Exit the current CLI mode.

diagnose

Enter the appliance CLI diagnose mode.

```
diagnose
```

Command mode

All products.

Usage guidelines

The admin must be in **view** mode to access **diagnose** mode.

Related commands

Command	Description
config	Enter the appliance CLI config mode.
show session	Display connection information for active CLI sessions.
clear session	End a config mode session immediately.
exit	Exit the current CLI mode.

show session

Display connection information for active CLI sessions.

```
show session
```

Command modes

All products.

Related commands

Command	Description
diagnose	Enter the appliance CLI diagnose mode.
config	Enter the appliance CLI config mode.
clear session	End a config mode session immediately.
exit	Exit the current CLI mode.

clear session

End a config mode session immediately.

```
clear session --config
```

Command modes

All products.

Usage guidelines

Ends the session for whichever admin is in **config** mode, and allows another admin to enter **config** mode.

Related commands

Command	Description
diagnose	Enter the appliance CLI diagnose mode.
show session	Display connection information for active CLI sessions.
config	Enter the appliance CLI config mode.
exit	Exit the current CLI mode.

exit

Exit the current CLI mode.

```
exit
```

Command modes

All products.

Usage guidelines

- If you are working in a module CLI, using this command returns you to **config** mode.
- If you are working in **config** or **diagnose** mode, this command returns you to view mode.
- If you are in **view** mode, your session ends and this command exits the appliance CLI.

Command history

Release	Modification
8.3	This command was modified. Previous command for V Series appliances: ```quit```

Related commands

Command	Description
diagnose	Enter the appliance CLI diagnose mode.
show session	Display connection information for active CLI sessions.

Command	Description
clear session	End a config mode session immediately.
config	Enter the appliance CLI config mode.

Configure accounts

set account admin

Change the password for the admin account.

```
set account admin --password
```

Parameter	Description
password	Administrator password.

Command modes

All products.

Usage guidelines

You are prompted to enter the current password, and then prompted to enter and confirm the new password.

The admin password is initially set when you run the firstboot script.

The password must be 8 to 15 characters in length and it must include:

- At least one uppercase character
- At least one lowercase character
- At least one number
- At least one character in the set:
  ! # % & ' ( ) * + , - . / ; < = > ? @ [ ] ^ _ { | } ~

Exclude all of the following:

- The special characters: space $: ` \ "
- The previous three passwords for the account
- The hostname of the device
- The user name of any appliance service account (admin, root, tech-support, audit)
- Common appliance- or company-related names

Command history

Release	Modification
8.3	This command was modified. Previous command for V Series appliances: `reset password`

Related commands

Command	Description
show account audit	Determine whether the account audit is enabled or disabled.
set account audit	Enable or disable the audit account; set or change the audit account password.

show account audit

Determine whether the audit account is enabled or disabled.

```
(view)# show account audit --status
```

Parameter	Description
status	Status of the audit account; enabled or disabled. Default: disabled.

Command modes

All products.

Examples

```
(view)# show account audit --status
```

Related commands

Command	Description
set account admin	Change the password for the admin account.
set account audit	Enable or disable the audit account; set or change the audit account password.

set account audit

Enable or disable the audit account, and set or change the audit account password.

```
set account audit --status <enabled|disabled>
set account audit --password
```

Parameter	Description
status	Status of the audit account; enabled or disabled. Default: disabled.
password	Audit account password.

Command modes

All products.

Usage guidelines

The `--status` and `--password` parameters cannot be used at the same time.

When enabling the audit account for the first time, set the audit account password.

The password must be 8 to 15 characters in length and it must include:

● At least one uppercase character

● At least one lowercase character

● At least one number

● At least one character in the set:

! # % & ' ( ) * + , - . / ; < = > ? @ [ ] ^ _ { | } ~

Exclude all of the following:

● The special characters: space $: ` \ "

● The previous three passwords for the account

● The hostname of the device

● The user name of any appliance service account (admin, root, tech-support, audit)

● Common appliance- or company-related names

Related commands

Command	Description
set account admin	Change the password for the admin account.
show account audit	Determine whether the audit account is enabled or disabled.

set access ssh

Enable or disable remote CLI access via SSH.

```
set access ssh --status <enabled|disabled>
```

Parameter	Description
status	Status of SSH access; enabled or disabled.

Command modes

All products. Not supported in Azure.

Usage guidelines

SSH status is enabled or disabled for all active accounts. Valid users include admin, audit, and tech-support. There is no access via SSH for the root user, as this is a reserved internal account.

Command history

Release	Modification

8.3	This command was modified. Previous commands for V Series appliances:
	```ssh enable```
	```ssh disable```

Related commands

Command	Description
show access ssh	Display whether remote CLI access via SSH is enabled or disabled.
set account tech-support	Enable or disable access for Forcepoint Technical Support.

show access ssh

Display whether remote CLI access via SSH is enabled or disabled.

```
show access ssh --status
```

Parameter	Description
status	Status of SSH access; enabled or disabled.

Command modes

All products.

Command history

Release	Modification
8.3	This command was modified. Previous command for V Series appliances: `show ssh`

Related commands

Command	Description
set access ssh	Enable or disable remote CLI access via SSH.
set account tech-support	Enable or disable access for Forcepoint Technical Support.

show account email

Display the admin account email address.

```
show account email
```

Command modes

All products.

Command history

Release	Modification
8.3	This command was modified. Previous command for V Series appliances: `show admin email`

Related commands

Command	Description
set account email	Define an email address to use for admin account password recovery.
send test_email	Send a test email using the email/SMTP configuration.
delete account email	Delete the password recovery email address.

set account email

Define an email address to use for admin account password recovery.

```
set account email --address <address>
```

Parameter	Description
address	Admin account email address.

Command modes

All products.

Usage guidelines

A temporary password is sent to this email address when you request automated password recovery help. You must also define an SMTP server.

Forcepoint Technical Support can manually issue a temporary password if you provide the security code found in the appliance iDRAC console.

Command history

Release	Modification
8.3	This command was modified. Previous command for V Series appliances: `admin email`

Related commands

Command	Description
show account email	Display the admin account email address.
send test_email	Send a test email using the email/SMTP configuration.
delete account email	Delete the password recovery email address.

send test_email

Send a test email using the email/SMTP configuration.

```
send test_email
```

Command modes

All products.

Related commands

Command	Description
set account email	Define an email address to use for admin account password recovery.
show account email	Display the admin account email address.
delete account email	Delete the password recovery email address.

show account smtp

Display the SMTP server settings used with the admin email address to facilitate password recovery.

```
show account smtp
```

Command modes

All products.

Usage guidelines

Displays:

- Server IP address or hostname
- Server port
- Server user name
- Server password

Command history

Release	Modification
8.3	This command was modified. Previous commands for V Series appliances: `show smtp server`

Related commands

Command	Description
set account smtp	Define an SMTP server for use during admin account password recovery.
delete account smtp	Delete SMTP settings.

set account smtp

Define an SMTP server for use during admin account password recovery.

```
set account smtp --host <location> --port <port> --user
<name>
```

Parameter	Description
host	Host location, either the IPv4 address or hostname of the SMTP server.
port	(Optional) Port of the SMTP server. Default is 25.
user	Account to use to connect to the SMTP server.

Command modes

All products.

Usage guidelines

Password recovery requires you to define:

1. An SMTP server
2. A valid email address to receive a temporary password

Examples

```
(config)# set account smtp --host 10.0.0.25 --port 25 --user
smtpuser
```

Command history

Release	Modification
8.3	This command was modified. Previous command for V Series appliances: `smtp server`

Related commands

Command	Description
show account smtp	Display the SMTP server settings used with the admin email address to facilitate password recovery.
delete account smtp	Delete SMTP settings.

delete account email

Delete the password recovery email address.

```
delete account email
```

Command modes

All products.

delete account smtp

Delete SMTP settings.

```
delete account smtp
```

Command modes

All products.

Related commands

Command	Description
set account email	Define an email address to use for admin account password recovery.
send test_email	Send a test email using the email/SMTP configuration.

show account tech-support

Display Forcepoint Technical Support account access or activity history.

```
show account tech-support --status
show account tech-support --history
```

Parameter	Description
status	Status of Technical Support account access; enabled or disabled.
history	History of Technical Support account access.

Command modes

All products.

Usage guidelines

The `--status` and `--history` parameters cannot be used at the same time.

The activity history includes both local and remote access via the tech-support account.

Command history

Release	Modification

8.3	This command was modified. Previous command for V Series appliances:
	`show remote-access`
	`local-access`

Related commands

Command	Description
set access ssh	Enable or disable remote CLI access via SSH.
set account tech-support	Enable or disable access for Forcepoint Technical Support.

set account tech-support

Enable or disable access for Forcepoint Technical Support.

```
set account tech-support --status <enabled|disabled>
```

Parameter	Description
status	Status of Technical Support account access; enabled or disabled.

Command modes

All products.

Usage guidelines

A temporary tech-support password is generated when you enable this access. Forcepoint Technical Support retrieves the password from a special URL.

To allow Technical Support remote access, SSH access must also be enabled (see *set access ssh*, page 18):

```
set access ssh --status enabled
```

When a technician uses the tech-support account, the session ends automatically after 15 minutes of inactivity.

Command history

Release	Modification

8.3	This command was modified. Previous command for V Series appliances:
	`remote-access enable`
	`remote-access disable`

Related commands

Command	Description
set access ssh	Enable or disable remote CLI access via SSH.
show account tech-support	Display Forcepoint Technical Support account access or activity history.

show current user

Show the user currently logged on.

```
show current user
```

Command modes

All products.

Examples

```
(config)# show current user
Logged in as jdoe
```

Related commands

Command	Description
show user	Show user information for all logged-on users or for a specific user.
create user	Create a user account.
set user	Update user account settings.
delete user	Delete a user account.

show user

Show user information for all logged-on users or for a specific user.

```
show user [--name <unique_user_name>]
```

Parameter	Description
name	(Optional) User name for the account to display.

Command modes

All products.

Examples

```
(view)# show user --name jdoe
Name|Type|Status|Password Set
+---+-----+------+-----------+
jdoe|admin|enabled|yes
```

Related commands

Command	Description
show current user	Show user currently logged on.
create user	Create a user account.
set user	Update user account settings.
delete user	Delete a user account.

create user

Create a user account.

```
create user --name <unique_user_name> --type <audit|admin>
[--status <enabled|disabled>]
```

Parameter	Description
name	User name for the account to display.
type	Account authorization type; audit or admin.
status	(Optional) Initial status of the user; enabled or disabled. Default is disabled.

Command modes

All products.

Usage guidelines

The user name must:

- Contain only lowercase letters, numbers, and the underscore character (_)
- Be 30 or fewer characters
- Begin with the underscore character or a letter

Examples

```
(config)# create user --name jdoe --status enabled --type
audit
```

Related commands

Command	Description
show user	Show user information for all logged-on users or for a specific user.
show current user	Show user currently logged on.
set user	Update user account settings.
delete user	Delete a user account.

set user

Update user account settings.

```
set user --name <unique_user_name> --type <audit|admin> [--
status <enabled|disabled>] [--password]
```

Parameter	Description
name	User name for the account to display.
type	Account authorization type; audit or admin.
status	(Optional) Initial status of the user; enabled or disabled. Default is disabled.
password	(Optional) Account password. The **password** parameter activates an interactive menu, allowing you to specify the account password.

Command modes

All products.

Examples

```
(config)# set user --name jdoe --password --status enabled --type audit
```

Related commands

Command	Description
show user	Show user information for all logged-on users or for a specific user.
create user	Create a user account.
show current user	Show user currently logged on.
delete user	Delete a user account.

delete user

Delete a user account.

```
delete user [--name <unique_user_name>]
```

Parameter	Description
name	(Optional) User name for the account to display.

Command modes

All products.

Examples

```
(config)# delete user --name jdoe
```

Related commands

Command	Description
show user	Show user information for all logged-on users or for a specific user.
create user	Create a user account.
set user	Update user account settings.
show current user	Show user currently logged on.

System configuration

CLI Guide | Forcepoint Appliances | v8.5.x

Use the System Configuration commands to view, set, or change:

Time and date

CLI Guide | Forcepoint Appliances | v8.5.x

All servers in your deployment that host TRITON Architecture components must be synchronized to within 2 minutes. Use of an NTP server is recommended.

show system clock

View the system date and time.

```
show system clock
```

Command modes

All products.

Usage guidelines

The time and date format is:

yyyy/mm/dd
hh:mm:ss

Related commands

Command	Description
set system clock	Set system time and date manually.
show system timezone	View the configured time zone.

set system clock

Set system time and date manually.

```
set system clock --date <yyyy/mm/dd> --time <hh:mm:ss>
```

Parameter	Description
date	Current date.
time	Current time.

Command modes

All products. Not supported in Azure.

Usage guidelines

Stop all Forcepoint services before changing the time. Then, set the time and make certain the time is consistent across all servers running services. Finally, start appliance services.

If you do not stop the Forcepoint services first, client updates and policy changes entered after the time reset are not saved.

Instead of setting the time manually, you can synchronize with a Network Time Protocol (NTP) server. See *set system ntp*, page 33.

Related commands

Command	Description
show system clock	View the system date and time.
set system ntp	Configure time zone synchronization with up to three NTP servers.
show system timezone	View the configured time zone.

show system timezone

View the configured time zone.

```
show system timezone
```

Command modes

All products.

Examples

```
(view)# show system timezone
Timezone: (GMT-08:00) Pacific Time (US & Canada)
```

Related commands

Command	Description
show system timezone-list	View supported time zone formats.
set system timezone	Set the time zone for this appliance.

show system timezone-list

View supported time zone formats.

```
show system timezone-list
```

Command modes

All products.

Examples

```
(view)# show system timezone-list
Index     Zone Name
---------------------------------------
1         (GMT-11:00) Midway Island, Samoa
2         (GMT-10:00) Hawaii
3         (GMT-09:00) Alaska
...
```

Related commands

Command	Description
show system timezone	View the configured time zone.
set system timezone	Set the time zone for this appliance.

set system timezone

Set the time zone for this appliance.

```
set system timezone --zone <zone_name> --index <zone_index>
```

Parameter	Description
zone	Name of the time zone. Enter the name in quotation marks. Case-sensitive.
index	Number assigned to the time zone.

Command modes

All products.

Usage guidelines

Greenwich Mean Time (GMT), the default, is also known as Universal Time, Coordinated (UTC). Other time zones are calculated by adding or subtracting from GMT. GMT is sometimes chosen to provide a common time stamp for geographically distributed systems.

Examples

Example of setting the time zone using the zone name:

```
(config)# set system timezone --zone "Central Time"
(config)# show system timezone
Timezone: (GMT-06:00) Central Time (US & Canada)
```

Example of setting the time zone using the zone index number:

```
(config)# set system timezone --index 9
(config)# show system timezone
Timezone: (GMT-06:00) Central Time (US & Canada)
```

Related commands

Command	Description
show system timezone	View the configured time zone.
show system timezone-list	View supported time zone formats.

show system ntp

View the configured NTP servers.

```
show system ntp
```

Command modes

All products.

Related commands

Command	Description
set system ntp	Configure time zone synchronization with up to three NTP servers.
sync system ntp	Synchronize the time with the NTP servers.

set system ntp

Configure time zone synchronization with up to three NTP servers.

```
set system ntp --status <enabled|disabled> --server
<server1> [<server2>,<server3>]
```

Parameter	Description
status	Status of the synchronization; enabled or disabled.
server	Server to synchronize with.

Command modes

All products. Not supported in Azure.

Usage guidelines

To synchronize with a Network Time Protocol (NTP) server (www.ntp.org), set the status to **enabled** and enter the address of a primary NTP server. The secondary and tertiary NTP servers are optional.

If you synchronize the system clock with an NTP server, NTP protocol packerts and their response packets must be allowed on any firewall or NAT device between an appliance and the NTP server. Ensure that you have outbound connectivity to the NTP servers. Add a firewall rule that allows outbound traffic to UDP port 123 for the NTP server.

If interface C on an appliance is not connected to the Internet, then you must provide a way for interface C to reach an NTP server. One solution is to install an NTP server on the local network where interface C can reach it.

Examples

```
(config)# set system ntp --status enabled --server
1.us.pool.ntp.org,2.us.pool.ntp.org,3.pool.ntp.org
```

Related commands

Command	Description
show system ntp	View the configured NTP servers.
sync system ntp	Synchronize the time with the NTP servers.

sync system ntp

Synchronize the time with the NTP servers.

```
sync system ntp
```

Command modes

All products. Not supported in Azure.

Usage guidelines

Use this command to manually synchronize the time with the NTP servers.

Related commands

Command	Description
show system ntp	View the configured NTP servers.
set system ntp	Configure time zone synchronization with up to three NTP servers.

Host name and description

CLI Guide | Forcepoint Appliances | v8.5.x

show system host

View the appliance hostname and description.

```
show system host
```

Command modes

All products.

Usage guidelines

The hostname is set initially during the firstboot wizard.

Related commands

Command	Description
set system host	Change the hostname and description for the appliance.

set system host

Change the hostname and description for the appliance.

```
set system host --name <name> [--description <description>]
```

Parameter	Description
name	Fully qualified hostname.
description	(Optional) Unique appliance description to help you identify and manage the system.

Command modes

All products.

Usage guidelines

The hostname must be 1 to 60 characters long.

● The first character must be a letter.

● Other characters can be letters, numbers, dashes, or periods.

- The name cannot end with a period.
- The name cannot have two periods in a row.

For Web mode appliances where Content Gateway will be configured to perform Integrated Windows Authentication (IWA), the hostname cannot exceed 11 characters, excluding the domain name.

In addition, if the hostname is changed after the appliance has been joined to a domain, IWA will immediately stop working and will not work again until the domain is unjoined and then rejoined with the new hostname. For more information, see the [Content Gateway Manager Help](#).

The description is optional and may contain up to 100 characters.

Examples

```
(config)# set system host --name fp-apwebl.example.com --
description "New York gateway."
```

Related commands

Command	Description
show system host	View the appliance hostname and description.

User certificates

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Certificates can be assigned to custom users who will be using the appliance's API and do not wish to use password authentication. Neither the default appliance users (admin and audit) nor FSAM/SSO users can be assigned certificates.

show certificate

List the user certificate.

```
show certificate [--level <ca|user>] [--user <string>]
```

Parameter	Description
level	(Optional if used with **user** parameter) Level of certificate; CA or user. Choose **ca** for intermediate or root certificates, or **user** for client certificates. If not specified, all types display.
user	(Optional) User name for which to show the certificate.

Command modes

All products.

Usage guidelines

The **level** parameter is optional if used with the **user** parameter. Choose **ca** for intermediate or root certificates, or **user** for client certificates. If not specified, all types display.

Examples

```
(view)# show certificate --level ca
```

Related commands

Command	Description
load certificate	Load a certificate from the filestore to the appliance, or optionally rename an existing certificate.
delete certificate	Delete a certificate on the appliance.

load certificate

Load a certificate from the filestore to the appliance, or optionally rename an existing certificate.

```
load certificate [--level <ca|user>] --location
<filestore_alias> --url <certificate_url> [--auth-required]
[--no-cert-verification] --name <string> [--new_name
<string>] [--user <string>]
```

Parameter	Description
level	(Optional) Level of certificate; CA or user. Choose **ca** for intermediate or root certificates, or **user** for client certificates. If not specified, all types display.
location	(Optional) Filestore where the certificate is stored.
url	(Optional) URL of the certificate to load, if adding the certificate from a URL rather than from a filestore. Format: `<url type>://<user>@<ip or hostname>/filepath`
auth-required	(Optional) Used with the **url** parameter to specify whether a password is needed.

Parameter	Description
no-cert-verification	(Optional) Used with the **url** parameter to ignore SSL certificate checks. Only valid with HTTPS.
name	(Optional) Name of the certificate on the filestore.
new_name	(Optional) New name of the certificate when it is loaded onto the appliance.
user	(Optional) Used with the **level** parameter to specify the user name associated with the certificate.

Command modes

All products.

Examples

```
(config)# load certificate --location clmftp --name cert.crt
--new_name clm.cert
```

Related commands

Command	Description
show certificate	List the user certificates.
delete certificate	Delete a certificate on the appliance.

delete certificate

Delete a certificate on the appliance.

```
delete certificate [--name <cert_name>] [--level <ca|user>]
```

Parameter	Description
name	(Optional) Name of the certificate on the appliance.
level	(Optional) Level of the certificate; CA or user. Choose **ca** for intermediate or root certificates, or **user** for client certificates. If not specified, all types display.

Command modes

All products.

Examples

```
(config)# delete certificate --name clm.cert
```

Related commands

Command	Description
show certificate	List the user certificates.
load certificate	Load a certificate from the filestore to the appliance, or optionally rename an existing certificate.

Filestore definition and file save commands

CLI Guide | Forcepoint Appliances | v8.5.x

A filestore is a remote (off-box) location that you define for storing backup and configuration files. The filestore can be FTP, Samba, or TFTP. It allows you to either load files onto the server (upgrades, hotfixes, or routes) or save files from the server to be edited/viewed outside the appliance (logs or routes). You can create a maximum of 10 filestores.

show filestore

Display all filestore aliases.

```
show filestore [--alias <alias_name>]
```

Parameter	Description
alias	(Optional) Unique name for the remote storage location.

Command modes

All products.

Related commands

Command	Description
set filestore	Define a remote location to host backup and configuration files.
delete filestore	Delete one or more filestore aliases.

set filestore

Define a remote location to host backup and configuration files.

```
set filestore --alias <alias_name> --type <ftp|samba|tftp> -
-host <ip_address> --path <share_directory> [--user
<user_name>] [--port <port>]
```

Parameter	Description
alias	Unique name for the remote storage location. Must be between 1 and 60 characters and begin with a letter. It may contain letters, numbers, periods, and hyphens, but may not contain two consecutive periods, nor end with a period.
type	Protocol to use to connect to the filestore; FTP, Samba, or TFTP.
host	IP address of the machine hosting the filestore.
path	Directory path to the shared location on the remote server.
user	(Optional) User account with full permissions to the filestore. Format: domain_name/user_name.
port	(Optional) Port to use to connect to the filestore.

Command modes

All products.

Examples

```
(config)# set filestore --alias fstore --type ftp --host
10.10.10.6 --path . --user jdoe
```

Example without a user:

```
(config)# set filestore --alias tftp-store --type ftp --host
10.10.10.5 --path /ftp/myfiles
```

Example of domain-based authentication with the domain "acme" and the user "jdoe":

```
(config)# set filestore --alias fstore --type samba --host
10.123.48.70 --path myfiles --user acme/jdoe
```

Example using a subfolder:

```
(config)# set filestore --alias fstore --type samba --host
10.123.48.70 --path myfiles/myfolder --user jdoe
```

Related commands

Command	Description
show filestore	Display all filestore aliases.
delete filestore	Delete one or more filestore aliases.
save backup	Save local backup file to a remote filestore.
save mibfile	Save the appliance MIB file to a specified location.
save configsummary	Summarize configuration data and save it to a specified location.

delete filestore

Delete one or more filestore aliases.

```
delete filestore --alias
<filestore_1>,[filestore_2],[filestore_n]
```

Parameter	Description
alias	Unique name of the remote storage location.

Command modes

All products.

Usage guidelines

Specify a comma-separated list of filestore aliases, with no spaces.

Examples

```
delete filestore --alias ftp-fsl,samba-fs5
```

Related commands

Command	Description
show filestore	Display all filestore aliases.
set filestore	Define a remote location to host backup and configuration files.

save backup

Save local backup file to a remote filestore.

```
save backup --location <filestore_alias> | --url
<backup_url> [--file <file_name>] [--save-path <filepath>]
[--auth-required]
```

Parameter	Description
location	Remote storage location in which to save the backup file, defined by *set filestore*.
file	Local backup file.
save-path	(Optional) Directory on the filestore in which to save the file.
url	The URL of the storage location.
auth-required	Used with URL option to specify that a password is required.

Command modes

All products.

Related commands

Command	Description
set filestore	Define a remote location to host backup and configuration files.
save mibfile	Save the appliance MIB file to a specified location.
save configsummary	Summarize configuration data and save it to a specified location.
save trap	Save SNMP trap events for editing or later use.

save mibfile

Save the appliance MIB file to a specified location.

```
save mibfile --location <filestore_alias> | --url <url> [--
save-path <filepath>] [--auth-required]
```

Parameter	Description
location	Remote storage location in which to save the MIB file, defined by *set filestore*.
save-path	(Optional) Directory on the filestore in which to store the file.
url	(Optional) The URL of the storage location.
auth-required	Used with URL option to specify that a password is needed.

Command modes

All products. Not supported in Azure.

Examples

```
save mibfile --location ftp-fsl
```

Related commands

Command	Description
set filestore	Define a remote location to host backup and configuration files.
save configsummary	Summarize configuration data and save it to a specified location.
save trap	Save SNMP trap events settings for editing or later use.
save backup	Save local backup files to a remote filestore location.

save configsummary

Summarize configuration data and save it to a specified location.

```
save configsummary [--location <filestore_alias>]|[--url
<storage_url>] [--auth-required] [--save-path <filepath>]
```

Parameter	Description
location	Remote storage location defined by *set filestore*.
url	URL of the storage location, if saving to a URL rather than a filestore. Format: `<url type>://<user>@ip or hostname>/<filepath>`
auth-required	(Optional) Used with the **url** parameter to specify whether a password is needed.
save-path	(Optional) Directory on the filestore in which to store the file.

Command modes

All products.

Usage guidelines

Configuration data may be requested by Forcepoint Technical Support for analyzing unexpected behavior.

Examples

```
(config)# save configsummary --location ftp-fsl
```

Related commands

Command	Description
set filestore	Define a remote location to host backup and configuration files.
save mibfile	Save the appliance MIB file to a specified location.
save trap	Save SNMP trap events settings for editing or later use.
save log	Zip a log file and save it to a remote filestore.

save trap

Save SNMP trap events settings for editing or later use.

```
save trap --location <filestore_alias> [--default] [--save-
path <filepath>]
```

Parameter	Description
location	Location of the filestore.
default	(Optional) Saves default trap settings. If **default** is not used, current trap settings are saved.
save-path	(Optional) Directory on the filestore in which to store the file.

Command modes

All products. Not supported in Azure.

Usage guidelines

Current trap settings are saved if the **default** parameter is not used.

Upon install, trap events are *enabled*, but the default configuration for saving trap events is *disabled*.

Examples

```
(config)# save trap --location ftp-fsl
```

Related commands

Command	Description
set filestore	Define a remote location to host backup and configuration files.
save mibfile	Save the appliance MIB file to the specified location.
save configsummary	Summarize configuration data and save it to a specified location.
save log	Zip a log file and save it to a remote filestore.

save log

Zip a log file and save it to a remote filestore.

```
save log <all|app|email|proxy|network-agent|web|analytics-
engine --type <audit|system|hotfix> --location
<filestore_alias> [--include-archives] --save-path
<filepath>] --url <url> [--auth-required]
```

Parameter	Description
type	(Required only when saving appliance log files) Type of log file (all, audit, or system).
location	Remote storage location defined by the *set filestore* command.
include-archives	(Optional) Include log archives
save-path	(Optional) Directory on the filestore in which to store the file.
url	The URL of the storage location. Format: <url type>://<user>@<ip or hostname>/<filepath>
auth-required	(Optional)

Usage guidelines

All products.

The type parameter is used only when saving appliance log files.

The saved logs are as follows:

● Audit log: audit.log

● System log: cli.log

● Email log: ESG.log

● Web log: Websense.log

● Proxy log: content_gateway.og

● Network Agent log: NetworkAgent.log

Examples

```
(config)# save log web --location cli_log
```

Related commands

Command	Description
set filestore	Define a remote location to host backup and configuration files.
save backup	Save local backup file to a remote filestore.
save mibfile	Save the appliance MIB file to a specified location.
save configsummary	Summarize configuration data and save it to a specified location.

Appliance interface configuration

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Use the following command sets to configure the Forcepoint Appliances interface.

Display appliance interface configurations

show interface info

Display the current network interface information.

```
show interface info --module <email|proxy|web|network-agent>
```

Parameter	Description
module	Appliance module; Email, Proxy, Web, or Network Agent.

Command modes

All products.

Usage guidelines

If the interface has been configured with an IP address, the output includes up/down status.

Examples

```
(view)# show interface info --module email
```

Command history

Release	Modification
8.3	This command was modified. Previous command for V Series appliances: `show interface c`

Related commands

Command	Description
show interface dhcp	Display the current DHCP network configuration.

show interface dhcp

Display the current DHCP network configuration.

```
show interface dhcp --interface <e1|e2|p1|p2|n>
```

Parameter	Description
interface	Interface configuration to display; E1, E2, P1, P2, or N.

Command modes

OVA appliances and Azure appliances.

Examples

```
(view)# show interface dhcp --interface p1
```

Related commands

Command	Description
show interface info	Display the current network interface configuration.

Set appliance interface configurations

> ⚠️ **Warning**
>
> Do not change the C interface IP address.
>
> If you must change the C interface IP address, please contact Forcepoint Technical Support for assistance.
>
> Changing the C interface IP address breaks the communication path to critical off-appliance architecture components.

The P1 and P2 interfaces in the Email OVA are container interfaces and therefore share DNS information. If one or both of the interfaces is set through DHCP, then the DNS information cannot be configured statically. If the DNS must be configured statically, set the interface through DHCP using the parameter **omit dns** with the command *set interface dhcpv4*.

When changing configuration from DHCP to static, you must manually set interface IPv4 and DNS information using the commands *set interface ipv4* and *set interface dns*.

set interface state

Set the state of the specified interface.

```
set interface state --interface <e1|e2|p1|p2|n> --state
<up|down>
```

Parameter	Description
interface	Interface being set; E1, E2, P1, P2, or N.
state	State of the interface; up or down.

Command modes

All products. Not supported in Azure.

Examples

```
(config)# set interface state --interface e2 --state up
```

Related commands

Command	Description
set interface ipv4	Configure appliance interface in IPv4 settings.
delete interface ipv4	Delete interface IPv4 settings.

set interface ipv4

Configure appliance interface in IPv4 settings.

```
set interface ipv4 --interface <c|n|p1|p2|e1|e2> --ip
<ipv4_address> --mask <ipv4_netmask> [--gateway
<ipv4_address>]
```

Parameter	Description
interface	Interface being configured; C, N, P1, P2, E1, or E2.
ip	IP address in IPv4 format.
mask	(Required only if the IPv4 has not been set) Netmask in IPv4 format.
gateway	(Optional) Gateway IPv4 address.

Command modes

All products. Not supported in Azure.

Usage guidelines

This command sets the gateway to the interface. Setting the interface parameter to P1 with an IP address in the gateway assigns the gateway to P1 even if P2 is enabled.

Examples

```
(config)# set interface ipv4 --interface c --ip 10.206.6.195
--gateway 10.206.7.245
```

Command history

Release	Modification

8.3	This command was modified. Previous commands for V Series appliances:
	`ip address`
	`ip gateway`

Related commands

Command	Description
set interface state	Set the state of the specified interface.
delete interface ipv4	Delete appliance IPv4 settings.

delete interface ipv4

Delete appliance IPv4 settings.

```
delete interface ipv4 --interface <n|p1|p2|e1|e2>
```

Parameter	Description
interface	Interface being configured; N, P1, P2, E1, or E2.

Command modes

All products. Not supported in Azure.

Examples

```
(config)# delete interface ipv4 --interface e1
```

Command history

Release	Modification
8.3	This command was modified. Previous command for V Series appliances: `ip gateway`

Related commands

Command	Description
set interface state	Set the state of the specified interface.
set interface ipv4	Configure appliance interface in IPv4 settings.

set interface ipv6

Configure appliance interface in IPv6 settings.

```
set interface ipv6 --interface <c|n|p1|p2|e1|e2> [--status
<enabled|disabled>] [--ip <ipv6 address>] [--prefixlen
<integer>] [--gateway <ipv6_address>]
```

Parameter	Description
interface	Interface being configured; C, N, P1, P2, E1, or E2.
status	(Optional) Enable or disable IPv6.
ip	(Optional) IP address in IPv6 format.
prefixlen	(Optional) IPv6 address prefix length. Must be an integer 1–128; typically 64.
gateway	(Optional) Gateway IPv6 address.

Command modes

All products. Not supported in Azure.

Examples

```
(config)# set interface ipv6 --interface c --status enabled
--ip 1234::4321:0:1234 --prefixlen 64 --gateway 1234::0
```

Command history

Release	Modification

8.3	This command was modified. Previous commands for V Series appliances:
	`ip address`
	`ip gateway`

Related commands

Command	Description
set interface state	Set the state of the specified interface.
delete interface ipv6	Delete appliance IPv6 settings.

delete interface ipv6

Delete appliance IPv6 settings.

```
delete interface ipv6 --interface <c|p1|p2|e1|e2|n>
```

Parameter	Description
interface	Interface being configured; C, P1, P2, E1, E2, or N.

Command modes

All products. Not supported in Azure.

Examples

```
(config)# delete interface ipv6 --interface e1
```

Command history

Release	Modification
8.3	This command was modified. Previous command for V Series appliances: `ip gateway`

Related commands

Command	Description
set interface state	Set the state of the specified interface.
set interface ipv6	Configure appliance interface in IPv6 settings.

set interface dns

Configure appliance DNS settings.

```
set interface dns --dns1 <ipv4_address> [--dns2
<ipv4_address>] [--dns3 <ipv4_address>] [--module
<email|network-agent|proxy>]
```

Parameter	Description
dns1	IP address of the primary domain name server. You can optionally also specify a second and third DNS server; DNS2 and DNS3.
module	(Optional) Appliance module; Email, Network Agent, or Proxy. DNS is configured for the appliance if no module is entered.

Command modes

All products. Not supported in Azure.

Examples

```
(config)# set interface dns --dns1 8.8.8.8 --dns2 8.8.4.4 --
dns3 10.51.80.10 --module proxy
```

Command history

Release	Modification
8.3	This command was modified. Previous command for V Series appliances: ip dns

Related commands

Command	Description
set interface state	Set the state of the specified appliance.
delete interface dns	Delete appliance DNS settings.

delete interface dns

Delete appliance DNS settings.

```
delete interface dns --dns-server <dns2|dns3> [--module
email|network-agent|proxy>
```

Parameter	Description
dns-server	Server whose DNS settings are being deleted. You can only delete one server at a time.
module	(Optional) Appliance module; Email, Network Agent, or Proxy.

Command modes

All products. Not supported in Azure.

Usage guidelines

Only one DNS server can be deleted at a time.

Examples

```
(config)# delete interface dns --dns-server dns2 --module
proxy
```

Related commands

Command	Description
set interface state	Set the state of the specified appliance.
set interface dns	Configure appliance DNS settings.

set interface dhcpv4

Configure DHCP interface settings.

```
set interface dhcpv4 --interface <e1|e2|p1|p2|n> [--omit-
gateway] [--omit-dns]
```

Parameter	Description
interface	Interface being configured; E1, E2, P1, P2, or N.
omit-gateway	(Optional) Omits the gateway from being set by DHCP.
omit-dns	(Optional) Omits the DNS servers from being set by DHCP.

Command modes

All products. Not supported in Azure.

Examples

```
(config)# set interface dhcpv4 --interface p1 --omit-gateway
--omit-dns
```

Related commands

Command	Description
set interface state	Set the state of the specified interface.
delete interface dhcpv4	Delete DHCP interface settings.

delete interface dhcpv4

Delete DHCP interface settings.

```
delete interface dhcpv4 --interface <e1|e2|p1|p2|n>
```

Parameter	Description
interface	Interface to be deleted; E1, E2, P1, P2, or N.

Command modes

All products. Not supported in Azure.

Examples

```
delete interface dhcpv4 --interface p1
```

Related commands

Command	Description
set interface state	Set the state of the specified interface.
set interface dhcpv4	Configure DHCP interface settings.

set interface vlan

Configure appliance VLAN settings.

```
set interface vlan --interface <c|p1|p2> --vid <integer>
```

Parameter	Description
interface	Interface being configured; C, P1, or P2.
vid	VLAN ID to be set. Must be an integer 2–4094.

Command modes

X Series appliances only.

Usage guidelines

For appliances to receive VLAN traffic, the A1 and A2 switches must be configured for VLAN support. See the Switch Configuration Guide for details.

Examples

```
(config)# set interface vlan --interface p1 --vid 260
```

Related commands

Command	Description
set interface state	Set the state of the specified interface.
delete interface vlan	Delete appliance VLAN settings.

delete interface vlan

Delete appliance VLAN settings.

```
delete interface vlan --interface <c|p1|p2>
```

Parameter	Description
interface	Interface being configured; C, P1, or P2.

Command modes

X Series appliances only.

Examples

```
(config)# delete interface vlan --interface p1
```

Related commands

Command	Description
set interface state	Set the state of the specified interface.
set interface vlan	Configure appliance VLAN settings.

Interface bonding

Forcepoint V10000 and V20000 appliances can bond interfaces for failover or load balancing (sometimes referred to as balance-rr). Interface bonding is not supported on other appliances.

> **Important**
> Do **not** bond interfaces that have different speeds or duplex modes. Doing so can result in performance problems.

Forcepoint V10000 or V20000 with Forcepoint Web Security

Interfaces E1 and E2 can be cabled to your network and then bonded through software settings to a Content Gateway interface, with E1 optionally bonded to P1, and E2 optionally bonded to P2. No other pairing is possible.

Interface bonding provides these alternatives:

● Active/Standby mode: When bonding in active/standby mode, the appliance does not set a default active interface.
● Load balancing: If the switch or router that is directly connected to the V10000 supports load balancing (etherchannel, trunk group, or similar), then traffic to and from the primary interface can be balanced between the primary interface and its bonded interface (E1 or E2).

You can choose to bond or not bond each Content Gateway interface independently. You do not have to bond at all.

If you do bond an interface, choose one mode for that bonding (either active/standby or load balancing). You do not have to choose the same bonding mode for both interfaces.

Ensure that all interfaces are cabled properly before bonding.

Forcepoint V10000 or V20000 with Forcepoint Email Security only

Interfaces P1 and P2 can be cabled to your network and then bonded through software settings to a Forcepoint Email Security interface, with P1 optionally bonded to E1, and P2 optionally bonded to E2. No other pairing is possible.

Interface bonding provides these alternatives:

● Active/Standby mode: When bonding in active/standby mode, the appliance does not set a default active interface.
● Load balancing: If the switch or router that is directly connected to the V10000 supports load balancing (etherchannel, trunk group, or similar), then traffic to and from the primary interface can be balanced between the primary interface and its bonded interface (P1 or P2).

You can choose to bond or not bond each Forcepoint Email Security interface independently. You do not have to bond at all.

If you do bond an interface, choose one mode for that bonding (either active/standby or load balancing). You do not have to choose the same bonding mode for both interfaces.

Ensure that all interfaces are cabled properly before bonding.

show interface bond

Display the bonded interface.

```
show interface bond
```

Command modes

V10000 and V20000 appliances. Not supported in Azure.

Examples

```
(view)# show interface bonds
```

Related commands

Command	Description
set interface bond	Bond the interfaces.
set interface unbond	Remove interface bonding.

set interface bond

Bond the interfaces.

```
set interface bond [--mode <active-standby|load-balancing>]
```

Parameter	Description
mode	(Optional) Mode of the interface bond.
	In active-standby mode, interface P1 (or P2) is active, and E1 (or E2) is in stand-by mode. If the primary interface fails, E1 (or E2) becomes active.
	In load balancing mode, traffic to and from the primary interface can be balanced between the primary and the bonded interfaces.

Command modes

V10000 and V20000 appliances.

Usage guidelines

Forcepoint V10000 and V20000 appliances that run only one product can bond interfaces for failover or load balancing. For more information about interface bonding, see the Forcepoint Appliances Getting Started Guide.

Selections are made using a sub-menu in the CLI; if unpopulated, there are no free interfaces.

The mode defaults to active-standby.

Examples

```
(config)# set interface bond --mode load-balancing
```

Related commands

Command	Description
show interface bond	Display the bonded interfaces.
set interface unbond	Remove interface bonding.

set interface unbond

Remove interface bonding.

```
set interface unbond
```

Command modes

V10000 and V20000 appliances.

Usage guidelines

Selections are made using an interactive sub-menu in the CLI.

Examples

```
(config)# set interface unbond
```

Related commands

Command	Description
show interface bond	Display the bonded interface.
set interface bond	Bond the interfaces.

Interface ports

show port

Display the status of the specified port on a virtual interface.

```
show port --module <email|proxy|web|network-agent|analytics-
engine>
```

Parameter	Description
module	Appliance module; Email, Proxy, Web, Network Agent, or Analytics Engine.

Command modes

All products.

Examples

```
(config)# show port --module email
```

Related commands

Command	Description
set port	Open or close the specific port and each interface.
test tcp port	Test whether the TCP port is open for connection.
show diagnostic_ports	Display the status of diagnostic ports for use by Forcepoint Technical Support for remote troubleshooting.
set diagnostic_ports	Set the status of diagnostic ports for use by Forcepoint Technical Support for remote troubleshooting.

set port

Open or close the specific port and each interface.

```
set port --status <open|close> --protocol <tcp|udp> --port
<port_num> --module <email|proxy|web|network-
agent|analytics-engine>
```

Parameter	Description
status	Status of the port; open or close.
protocol	Protocol used to read and write data; TCP or UDP.
port	Port to open or close.
module	Appliance module; Email, Proxy, Web, Network Agent, or Analytics Engine.

Command modes

All products.

Examples

```
(config)# set port --module email --port 25 --protocol tcp --status open
```

Related commands

Command	Description
show port	Display the status of the specified port on a virtual interface.
test tcp port	Test whether the TCP port is open for connection.
show diagnostic_ports	Display the status of diagnostic ports for use by Forcepoint Technical Support for remote troubleshooting.
set diagnostic_ports	Set the status of diagnostic ports for use by Forcepoint Technical Support for remote troubleshooting.

test tcp port

Test whether the TCP port is open for connection.

```
test tcp port [--module <email|proxy|web|network-agent|analytics-engine] --dest <ipv4_address|hostname> --port <integer>
```

Parameter	Description
module	(Optional) Appliance module; Email, Proxy, Web, Network Agent, or Analytics Engine.
dest	IPv4 address or hostname.
port	Port to test.

Command modes

All products. Not supported in Azure.

Examples

```
(config)# test tcp port --port 80 --dest 10.206.22.97
```

Related commands

Command	Description
show port	Display the status of the specific port on a virtual appliance.
set port	Open or close the specific port and each interface.
show diagnostic_ports	Display the status of diagnostic ports for use by Forcepoint Technical Support for remote troubleshooting.
set diagnostic_ports	Set the status of diagnostic ports for use by Forcepoint Technical Support for remote troubleshooting.

show diagnostic_ports

Display the status of diagnostic ports for use by Forcepoint Technical Support for remote troubleshooting.

```
show diagnostic_ports
```

Command modes

Forcepoint Web Security.

Examples

```
(view)# show diagnostic_ports
```

Related commands

Command	Description
show port	Display the status of the specified port on a virtual appliance.
set port	Open or close the specific port and each interface.
test tcp port	Test whether the TCP port is open for connection.
set diagnostic_ports	Set the status of diagnostic ports for use by Forcepoint Technical Support for remote troubleshooting.

set diagnostic_ports

Set the status of diagnostic ports for use by Forcepoint Technical Support for remote troubleshooting.

```
set diagnostic_ports --status <enabled|disabled>
```

Parameter	Description
status	Status of the port; enabled or disabled.

Command modes

Forcepoint Web Security.

Examples

```
(config)# set diagnostic_ports --status enabled
```

Related commands

Command	Description
show port	Display the status of the specified port on a virtual interface.
set port	Open or close the specific port and each interface.
test tcp port	Test whether the TCP port is open for connection.
show diagnostic_ports	Display the status of diagnostic ports for use by Forcepoint Technical Support for remote troubleshooting.

Support for IPv6

- IPv6 support in Forcepoint Web Security and Forcepoint URL Filtering is **disabled** by default.

> **Important**
> After IPv6 support is enabled, subsequent disablement requires a full restart of the appliance.

For all web protection solutions, IPv6 support includes:

- Dual IP stack configuration for interfaces C and N
- IPv6 traffic to the Internet or clients on interfaces C and N, including block pages sent on C or N
- IPv6 static routes
- SNMP traps and counters for IPv6 data
- Network diagnostic tools in the Command Line Utility and Command Line Interface

For Forcepoint Web Security, IPv6 support also includes:

- Dual IP stack implementation on interfaces P1 and P2
- Traffic to the Internet or clients on interfaces P1 and P2, and their bonded interface (E1/E2), if configured

Limits and restrictions:

- IPv6-only internal networks are not supported
- IPv4 must be used to communicate among V Series appliances and with TRITON Architecture components

In any field that accepts an IPv6 address, the address can be entered in any format that conforms with the standard. For example:

- Leading zeros within a 16-bit value may be omitted.
- One group of consecutive zeros may be replaced with a double colon.

About appliance management interface (C)

- Communicates with all Forcepoint management interfaces
- Communicates with the management server and Forcepoint DLP (if used)
- Provides inter-appliance communication
- Optionally provides non-HTTP(S) protocol enforcement

● Handles Master Database downloads via the Internet (unless you optionally configure P1 for database downloads).

> **Important**
>
> Changing the C interface IP address is **not** recommended.
>
> The process involves a number of activities, significantly impacts deployment, can cause significant service disruption, and may require you to reinstall of some components.
>
> If your appliance is in production and you must change the C interface IP address, please contact Forcepoint Technical Support for assistance.

About the Content Gateway proxy interfaces (P1, P2)

Content Gateway interfaces P1 and P2 handle traffic directed to and from the Content Gateway proxy module.

● Both the P1 and P2 can be used to accept users' Internet requests (inbound traffic) and communicate with web servers (outbound traffic). In other words, both interfaces can be configured to handle traffic into and out of the proxy.

● Typically, P1 is used for both inbound and outbound traffic; P2 is not used.

● Optionally, configure P1 to accept users' Internet requests (inbound only) and P2 to communicate with web servers (outbound).

● The gateway is assigned using the command *set interface ipv4*. Enabling the P2 interface does not automatically move the gateway to the interface.

> **Important**
>
> If you use the P2 interface, the P1 interface is bound to eth0, and the P2 interface is bound to eth1. Keep this in mind when you configure Content Gateway.
>
> For example, suppose you are using a transparent proxy deployment, and the P1 interface is connected to a WCCP router. In this case, you must configure Content Gateway to use eth0 for WCCP communications (in Content Gateway manager, see the General tab of the **Configure > Networking > WCCP** page).

The P1 and P2 interfaces can be in the same or different subnets.

If they are in the same subnet, P2 is the default gateway (which is bound to eth1). Ensure that outbound packets can reach the Internet.

When P1 and P2 are in different subnets, the gateway must be in the same subnet as the appliance interface used to send traffic to the Internet (typically P2). All traffic

communicated between Content Gateway and origin servers should go through that interface (P2).

For traffic communicated between Content Gateway and clients, please note:

● If the clients are in the same subnet as P1, then all traffic communicated between Content Gateway and clients should go through P1.

● If the clients are not in the same subnet as P1, then client-to-Content Gateway traffic goes through P1, while Content Gateway-to-client traffic goes through P2, regardless of whether an explicit or transparent deployment is used.

Note, however, that you can set up static routes to send client traffic (on subnets not attached to P1) back through P1 (inbound traffic).

About the Network Agent interface (N)

Network Agent can be used to provide security for protocols other than HTTP and HTTPS. It also provides bandwidth optimization data and enhanced logging detail.

Network Agent continually monitors overall network usage, including bytes transferred over the network. The agent sends usage summaries to other TRITON Architecture components at predefined intervals.

Network Agent is typically configured to see both inbound and outbound traffic in your network. The agent distinguishes between:

● Requests sent from internal machines to internal machines (hits to an intranet server, for example)

● Requests sent from internal machines to external machines such as Web servers (user Internet requests, for example)

You choose whether blocking information for non-HTTP protocols is routed through interface C or interface N.

> **Note**
> When Decryption Port Mirroring is activated with the N interface, the Network Agent module is disabled, and a warning message will display. This affects Network-Agent-related commands.
>
> When Decryption Port Mirroring is disabled, the N interface is returned to the Network Agent function and Network Agent will be re-enabled.

About Forcepoint Email Security interfaces (E1, E2)

Forcepoint Email Security interfaces handle bidirectional email protection traffic.

> ✅ **Note**
>
> The names of the interfaces vary depending on the model of appliance.
>
> - With V10000, E1 and E2 are used.
> - With X10G, V5000, and VMware virtual appliances, P1 and P2 are used.

- Both the E1 and E2 interfaces (V10000) or P1 and P2 interfaces (other appliances) can be used to accept inbound traffic and send outbound traffic.
- In many deployments, E1 (or P1) is used for both inbound and outbound traffic; E2 (or P2) is not used.
- E1 (or P1) can be configured to accept inbound traffic and E2 (or P2) can be configured to send outbound traffic.

> ❗ **Important**
>
> On the V10000, if you use the E2 interface, the E1 interface is bound to eth0, and the E2 interface is bound to eth1.
>
> On other appliances, if you use the P2 interface, the P1 interface is bound to eth0, and the P2 interface is bound to eth1.
>
> Keep this in mind when you configure Forcepoint Email Security.

If you use both E1 (or P1) and E2 (or P2), and you locate them in the same subnet, then the default gateway is automatically assigned to E2 (which is bound to eth1). Ensure that outbound packets can reach the Internet.

> ✅ **Note**
>
> The E1 and E2 interfaces are also available for use on the V10K for Decryption Port Mirroring functionality.

Appliance vswitch configuration

CLI Guide | Forcepoint Appliances | v8.5.x

show vswitch priority

Display the virtual switch STP bridge priority setting.

```
show vswitch priority
```

Command modes

X Series appliances. Not supported in Azure.

Examples

```
(view)# show vswitch priority
rstp_priority  :   61440
```

Related commands

Command	Description
show vswitch status	Display the virtual switch STP bridge status.
set vswitch stp	Set the virtual switch STP bridge priority value.

show vswitch status

Display the virtual switch STP bridge status.

```
show vswitch status
```

Command modes

X Series appliances. Not supported in Azure.

Examples

```
(view)# show vswitch status
P2:
   state   :   down
P1:
   state   : active
```

Related commands

Command	Description
show vswitch priority	Display the virtual switch STP bridge priority setting.
set vswitch stp	Set the virtual switch STP bridge priority value.

set vswitch stp

Set the virtual switch STP bridge priority value.

```
set vswitch stp --priority <integer>
```

Parameter	Description
priority	Integer that is a multiple of 4096 in the range of 4096–61440.

Command modes

X Series appliances. Not supported in Azure.

Usage guidelines

For an explanation of Spanning Tree Protocol bridge priorities, including how the root is determined, refer to any quality text on layer 2 switching.

Examples

```
(config)# set vswitch stp --priority 4096
```

Related commands

Command	Description
show vswitch priority	Display the virtual switch STP bridge priority setting.
show vswitch status	Display the virtual switch STP bridge status.

Content Gateway Decryption Port Mirroring (DPM)

CLI Guide | Forcepoint Appliances | v8.5.x

The Content Gateway proxy can be configured to decrypt HTTPS traffic for analysis. A port mirroring feature delivers all decrypted HTTPS traffic to a physical network interface. This allows a trusted service device to inspect and analyze the decrypted data for its own purpose. Decryption port mirroring is not supported on virtual appliances.

This feature can be enabled and configured using CLI commands.

> **Note**
> When Decryption Port Mirroring is activated with the N interface, the Network Agent module is disabled, and a warning message will display. This affects Network-Agent-related commands.
>
> When Decryption Port Mirroring is disabled, the N interface is returned to the Network Agent function and Network Agent will be re-enabled.

> **Note**
> In X Series appliances with the switch configuration port installed, you can use the CLI to enable the Decryption Port Mirror feature with the N interface as an SSL mirror port.

For more information, see the [Content Gateway Help](#).

show decrypt_port_mirror

Display the decryption port mirror configuration.

```
show decrypt_port_mirror
```

Command modes

Forcepoint Web Security.

Examples

```
(view)# show decrypt_port_mirror
Proxy's Decryption Port Mirroring is disabled.
Interface: Not set
Custom header: X-Proxy-HTTPS:1
```

Related commands

Command	Description
set decrypt_port_mirror	Configure the decryption port mirror.

set decrypt_port_mirror

Configure the decryption port mirror (DPM).

```
set decrypt_port_mirror --status <enabled|disabled> [--
interface <e1|e2|n>] [--header <header>]
```

Parameter	Description
status	Status of the decryption port mirror; enabled or disabled. Default: disabled.
interface	(Optional) On the V10K, DPM interface options are E1, E2, or N; on the V5K, the only interface option is the N interface.
header	(Optional) Port mirroring custom header name. Default: X-Proxy_HTTPS:1.

Command modes

Forcepoint Web Security

Usage guidelines

An interactive menu allows you to configure the decryption port mirror.

Examples

```
(config)# set decryption _port_mirror --status enabled --
interface n
```

Related commands

Command	Description
show decrypt_port_mirror	Display the decryption port mirror configuration.

Static routes

CLI Guide | Forcepoint Appliances | v8.5.x

You can use CLI route commands to specify:

- Static routes from subnets and client computers through any active appliance interface, except N.

  If IPv6 is enabled, static IPv6 routes can also be added and imported (not supported in AP-EMAIL).

- Component routes from appliance modules through appliance interface C to subnets.

  IPv6 component routes are **not** supported.

The same route cannot be added for two different interfaces on the same module. If attempted, an error message displays.

Static routes that are defined for an interface that is later made inactive remain in the routing table.

Static routes that become invalid because the IP address of the interface changes are disabled.

Static routes can be added and deleted, but not modified. To modify a route, delete it and add a new route specifying the new values.

The static route table has a maximum limit of 5000 entries.

Component routes

Although the appliance management interface (C) is typically reserved for management traffic, in some deployments it is necessary or desirable to route some web or email traffic through the C interface rather than P1/P2 or E1/E2.

The component route table has a maximum limit of 5000 entries.

show component_route

Display the list of configured component routes.

```
show component_route
```

Command modes

All products.

Usage guidelines

Outputs a table displaying route destination, netmask, module name, and active status.

Examples

Related commands

Command	Description
set component_route	Configure traffic between components for routing through the appliance.
delete component_route	Delete routing between components.
show route	Display the list of configured static IPv4 routes.
show route6	Display the list of configured static IPv6 routes.

set component_route

Configure traffic between components for routing through the appliance.

```
set component_route --dest <ipv4_address> --mask
<ipv4_netmask> --module <proxy|email>
```

Parameter	Description
dest	Destination IP address in IPv4 format.
mask	Netmask address in IPv4 format.
module	Appliance module; Proxy or Email.

Command modes

All products.

Examples

```
(config)# set component_route --dest 11.0.0.0 --mask
255.0.0.0 --module email
```

Related commands

Command	Description
show component_route	Display the list of configured component routes.
delete component_route	Delete routing between components.
show route	Display the list of configured static IPv4 routes.
show route6	Display the list of configured static IPv6 routes.

delete component_route

Delete routing between components.

```
delete component_route --dest <ipv4_address> --mask
<ipv3_netmask> --module <proxy|email>
```

Parameter	Description
dest	Destination address in IPv4 format.

Parameter	Description
mask	Netmask address in IPv4 format.
module	Appliance module; Proxy or Email.

Command modes

All products.

Examples

```
(config)# delete component_route --dest 11.0.0.0 --mask
255.0.0.0 --module email
```

Related commands

Command	Description
show component_route	Display the list of configured component routes.
set component_route	Configure traffic between components for routing through the appliance.
show route	Display the list of configured static IPv4 routes.
show route6	Display the list of configured static IPv6 routes.

show route

Display the list of configured static IPv4 routes.

```
show route
```

Command modes

All products.

Usage guidelines

Outputs a table displaying route destination, netmask, next hop, device, and active status.

Related commands

Command	Description
show component_route	Display the list of configured component routes.
set component_route	Configure traffic between components for routing through the appliance.
delete component_route	Delete routing between components.
show route6	Display the list of configured static IPv6 routes.

show route6

Display the list of configured static IPv6 routes.

```
show route6
```

Command modes

Forcepoint Web Security.

Usage guidelines

Outputs a table displaying route destination, netmask, next hop, device, and active status.

Related commands

Command	Description
show component_route	Display the list of configured component routes.
set component_route	Configure traffic between components for routing through the appliance.
delete component_route	Delete routing between components.
show route	Display the list of configured static IPv4 routes.

set route

Add a static route in IPv4 format.

```
set route --dest <ipv4_address> --interface <c|p1|p2|e1|e2>
--mask <ipv4_netmask> --gateway <ipv4_address>
```

Parameter	Description
dest	Destination IP address in IPv4 format.
interface	Interface name must be P1 or P2.
mask	Netmask address in IPv4 format.
gateway	Gateway definition in IPv4 format.

Command modes

All products.

Examples

```
(config)# set route --dest 11.0.0.0 --mask 255.0.0.0 --
gateway 10.206.7.254 --interface c
```

Related commands

Command	Description
show component_route	Display the list of configured component routes.
set component_route	Configure traffic between components for routing through the appliance.
delete component_route	Delete routing between components.
show route	Display the list of configured static IPv4 routes.

set route6

Add a static route in IPv6 format.

```
set route6 --dest <ipv6_address> --interface <c|p1|p2|e1|e2>
--prefixlen <integer> --gateway <ipv6_address>
```

Parameter	Description
dest	Destination IP address in IPv6 format.
interface	Interface name must be P1 or P2.
prefixlen	Prefix length of the IPv6 address. Must be an integer between 1 and 128.
gateway	Gateway definition in IPv6 format.

Command modes

Forcepoint Web Security.

Examples

```
(config)# set route6 --dest 2222:3333:4444:5555::0 --
interface p1 --prefixlen 64 --gateway 1234:5678::8765:4321
```

Related commands

Command	Description
show component_route	Display the list of configured component routes.
set component_route	Configure traffic between components for routing through the appliance.
delete component_route	Delete routing between components.
show route	Display the list of configured static IPv4 routes.

delete route

Delete a single IPv4 static route.

```
delete route --dest <ip_address> --mask <ipv4_netmask> --
interface <c|p1|p2|e1|e2> --gateway <ipv4_address>
```

Parameter	Description
dest	Destination IP address in IPv4 format.
mask	Netmask address in IPv4 format.
interface	Interface name must be P1 or P12.
gateway	Gateway definition in IPv4 format.

Command modes

All products.

Usage guidelines

To delete multiple IPv4 routes in a batch, use the command load route.

Examples

```
(config)# delete route --dest 1.0.0.0 --mask 255.0.0.0 --
gateway 10.0.0.1 --interface c
```

Related commands

Command	Description
show component_route	Display the list of configured component routes.
set component_route	Configure traffic between components for routing through the appliance.
delete component_route	Delete routing between components.
load route	Add or delete one or more IPv4 static route definitions via a text file.

delete route6

Delete a single IPv6 static route.

```
delete route6 --dest <ipv6_address> --prefixlen <integer> [-
-interface <c|p1|p2|e1|e2>] [--gateway <ipv6_address>]
```

Parameter	Description
dest	Destination IP address in IPv6 format.
interface	Interface name; C, P1, P2, E1, or E2.
prefixlen	Prefix length of the IPv6 address.
gateway	Gateway definition in IPv6 format.

Command modes

Forcepoint Web Security.

Usage guidelines

To delete multiple IPv6 routes in a batch, use the command load route6.

Examples

```
(config)# delete route6 --dest 8765:4321::0 --gateway
1234:5678::8765:4321 --interface p1 --prefixlen 64
```

Related commands

Command	Description
load route6	Add or delete one or more IPv6 static route definitions via a text file.
save route6	Export IPv6 static routes.
show component_route	Display the list of configured component routes.
set component_route	Configure traffic between components for routing through the appliance.

save route

Export IPv4 static routes to a remote storage location defined by the command *set filestore*.

```
save route --location <filestore_alias> [--url <url>] [--
save-path <filepath>] [--auth-required]
```

Parameter	Description
location	(Optional) Remote storage location defined by the command *set filestore*.
save-path	(Optional) Directory on the filestore in which to save the file.
url	The URL of the storage location. Format: <url type>://<user>@<ip or hostname>/<filepath> See usage guidelines.
auth-required	Used with URL option to specify that a password is needed.

Usage guidelines

All products.

URL components:

- url type - smb, tftp, or ftp. Required.
- user - username if required to access the URL. Optional.
- ip / hostname - Destination you want to connect to. Required.
- filepath - The directory on the host where you want to store the route file. Required.

Examples

```
(config)# save route --location samba-fs5
```

Related commands

Command	Description
set filestore	Define a remote location to host backup and configuration files.
show route	Display the list of configured static IPv4 routes.
set route	Add a static route in IPv4 format.
delete route	Delete a single IPv4 static route.

save route6

Export IPv6 static routes to a remote storage location defined by the command *set filestore*.

```
save route6 --location <filestore_alias> [--save-path
<filepath>] [--url <url>] [--auth-required]
```

Parameter	Description
location	Remote location defined by the command *set filestore*.
save-path	(Optional) Directory on the filestore in which to store the file.
url	(Optional) The URL of the storage location. Format: <url type>://<user>@<ip or hostname>/<filepath> See usage guidelines.
auth-required	(Optional) Used with URL parameter to specify that a password is required.

Usage guidelines

Forcepoint Web Security.

URL components:

- url type - smb, tftp, or ftp. Required.
- user - username if required to access the URL. Optional.
- ip / hostname - Destination you want to connect to. Required.

- filepath - The directory on the host where you want to store the route file. Required.

Examples

```
(config)# save route6 --location samba-fs5
```

Related commands

Command	Description
set filestore	Define a remote location to host backup and configuration files.
show route6	Display a list of configured static IPv6 routes.
set route6	Add a static route in IPv6 format.
delete route6	Delete a single IPv6 static route.

load route

Add or delete one or more IPv4 static route definitions via text file.

```
load route --file <file_name> --location <filestore_alias>
[--url <ipv4_route_url>] [<--auth-required] [--no-cert-
verification>] --action <add|del>
```

Parameter	Description

file	Name of the text file.
	
	Each line in the text file defines one route. The system can handle a maximum of 5000 routes. The line format is:
	
	  `<destination> <netmask>`
	  `<gateway> <interface>`
	A blank space separates parameters on a single line.
	
	The following characters serve as separators between lines (individual routes):
	
	  `\r\n`

location	Any defined remote filestore alias.

url	(Optional) URL of the IPv4 route file to load, if adding from a URL rather than from a filestore.
	
	Format:
	
	  `<url type>://<user>@<ip or`
	  `hostname>/<filepath>`

auth-required	(Optional) Use with the **--url** parameter to specify whether a password is needed.

Parameter	Description
no-cert-verification	(Optional) Use with the **--url** parameter to ignore SSL certificate checks. Only valid with HTTPS.
action	Specify whether to add or delete the routes in a file, as a batch.

Command modes

All products.

Examples

```
(config)# load route --file add_ipv4.txt --location
myfilestore --action add
```

Related commands

Command	Description
save route	Export IPv4 static routes to a remote filestore location.
delete route	Delete a single IPv4 static route.
set route	Add a static route in IPv4 format.
show route	Display the list of configured static IPv4 routes.

load route6

Add or delete one or more IPv6 static route definitions via a text file.

```
load route6 --file <file_name> --location <filestore_alias>
[--url <ipv6_route_url>] [<--auth-required>] [<--no-cert-
verification>] --action <add|del>
```

Parameter	Description
file	Name of the text file.
	Each line in the file defines one route. The system can handle a maximum of 5000 routes. The line format is:
	`<destination> <prefix_length> <gateway> <interface>`
	A blank space separates parameters on a single line.
	The following character serves as a separator between lines (individual routes):
	`\n`
location	Any defined remote filestore alias.
url	(Optional) URL of the IPv6 route file to load, if adding from a URL rather than from a filestore.
auth-required	(Optional) Use with the **--url** parameter to specify whether a password is needed.
no-cert-verification	(Optional) Use with the **--url** parameter to ignore SSL certificate checks. Only valid with HTTPS.
action	Specify whether to add or delete the routes in a file, as a batch.

Command modes

Forcepoint Web Security.

Examples

```
(config)# load route6 --file add_ipv6.txt --location
myfilestore --action add
```

Related commands

Command	Description
save route6	Export IPv6 static routes to a remote storage location.
delete route6	Delete a single IPv6 static route.
set route6	Add a static route in IPv6 format.
show route6	Display the list of configured static IPv6 routes.

Appliance status

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Use these commands to monitor appliance resources and system performance.

show cpu

Display current CPU usage, refreshed every four seconds.

```
show cpu
```

Command modes

All products.

Usage guidelines

Press **Ctrl+C** to quit.

Related commands

Command	Description
show mem	Display system memory usage, refreshed every four seconds.
show diskio	Display disk IO activity for the present modules, refreshed every four seconds.
show diskspace	Display disk statistics for all partitions.
show bandwidth	Display network traffic statistics, refreshed every five seconds.

show mem

Display system memory usage, refreshed every four seconds.

```
show mem
```

Command modes

All products.

Usage guidelines

Press **Ctrl+C** to quit.

Examples

Command history

Release	Modification
8.3	This command was modified. Previous command for V Series appliances: `show memory`

Related commands

Command	Description
show cpu	Display current CPU usage, refreshed every four seconds.
show diskio	Display disk IO activity for the present modules, refreshed every four seconds.
show diskspace	Display disk statistics for all partitions.
show bandwidth	Display network traffic statistics, refreshed every five seconds.

show diskio

Display disk activity for the present modules, refreshed every four seconds.

```
show diskio
```

Command modes

All products.

Usage guidelines

Press **Ctrl+C** to quit.

Command history

Release	Modification
8.3	This command was modified. Previous command for V Series appliances: `show disk-io`

Related commands

Command	Description
show cpu	Display current CPU usage, refreshed every four seconds.
show mem	Display system memory usage, refreshed every 4 seconds.
show diskspace	Display disk statistics for all partitions.
show bandwidth	Display network traffic statistics, refreshed every five seconds.

show diskspace

Display disk statistics for all partitions.

```
show diskspace
```

Command modes

All products

Usage guidelines

These partitions vary depending on whether the appliance security mode is Web or Email.

Results are shown in these areas:

- disk position (partition)
  - Email partitions include system and email spool.
  - Web partitions may include fingerprinting, proxy cache, and system.
- total space
- used space
- free space
- rate in percentage

Command history

Release	Modification
8.3	This command was modified. Previous command for V Series appliances: ```show disk-space```

Related commands

Command	Description
show cpu	Display current CPU usage, refreshed every four seconds.
show mem	Display system memory usage, refreshed every four seconds.
show diskio	Display disk IO activity for the present modules, refreshed, every four seconds.
show bandwidth	Display network traffic statistics, refreshed every five seconds.

show bandwidth

Display network traffic statistics, refreshed every five seconds.

```
show bandwidth
```

Command modes

All products.

Usage guidelines

Displays bandwidth statistics for each enabled interface, including:

- data (byte)
- packets
- packets dropped
- error
- rate (Mbps)
- status

Press **Ctrl+C** to quit.

Related commands

Command	Description
show cpu	Display current CPU usage, refreshed every four seconds.
show mem	Display system memory usage, refreshed every four seconds.

Command	Description
show diskio	Display disk IO activity for the present modules, refreshed every four seconds.
show diskspace	Display disk statistics for all partitions.

SNMP monitoring (polling)

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Forcepoint Appliances provide alerting options that include standard SNMP counters and system-level traps.

There are two methods of SNMP alerting:

- Allow your SNMP manager to poll the appliance for standard SNMP counters.
- Configure the appliance to send SNMP traps for selected events to your SNMP manager.

Enable SNMP monitoring before enabling and configuring the trap service.

show snmp config

Display SNMP monitor server information.

```
show snmp config
```

Command modes

All products. Not supported in Azure.

Related commands

Command	Description
set snmp service	Enable or disable SNMP monitoring (polling)
set snmp v1	Configure SNMP v1 monitoring.
set snmp v2c	Configure SNMP v2c monitoring.
set snmp v3	Configure SNMP v3 monitoring.

set snmp service

Enable or disable SNMP monitoring (polling).

```
set snmp service --status <enabled|disabled>
```

Parameter	Description
status	Status of SNMP monitoring; enabled or disabled.

Command modes

All products. Not supported in Azure.

Usage guidelines

SNMP monitor service and SNMP trap settings are independent, but SNMP monitor service must be enabled before you activate the SNMP trap configuration.

Examples

```
(config)# set snmp service --status enabled
```

Related commands

Command	Description
set trap service	Enable or disable SNMP traps.
show snmp config	Display SNMP monitor service information.
set snmp v1	Configure SNMP v1 monitoring.
set snmp v2c	Configure SNMP v2c monitoring.

set snmp v1

Configure SNMP v1 monitoring.

```
set snmp v1 --community <name>
```

Parameter	Description
community	Community name for the appliance. The name must be 5–64 characters long with no spaces, using alphanumeric characters and $ ( ) . _ @ = * < > - : , % [ ]	/

Command modes

All products. Not supported in Azure.

Examples

```
(config)# set snmp v1 --community testname
```

Related commands

Command	Description
show snmp config	Display SNMP monitor server information.
set snmp service	Enable or disable SNMP monitoring (polling).
set trap service	Enable or disable SNMP traps.
set snmp v3	Configure SNMP v3 monitoring.

set snmp v2c

Configure SNMP v2c monitoring.

```
set snmp v2c --community <name>
```

Parameter	Description
community	Community name for the appliance. The name must be 5–64 characters long with no spaces, using alphanumeric characters and $ ( ) . _ @ = * < > - : , % [ ]	/

Command modes

All products. Not supported in Azure.

Examples

```
(config)# set snmp v2c --community playground
```

Related commands

Command	Description
show snmp config	Display SNMP monitor server information.
set snmp service	Enable or disable SNMP monitoring (polling).
set snmp v1	Configure SNMP v1 monitoring.
set trap service	Enable or disable SNMP traps.

set snmp v3

Configure SNMP v3 monitoring.

```
set snmp v3 --securitylevel
<noAuthNoPriv|authNoPriv|authPriv> --user <username> --
authentication <md5|sha> --encrypt <des|aes>
```

Parameter	Description
securitylevel	Security level for SNMP v3 monitoring. Three levels are available: - No authentication or encryption - Authentication only - Authentication and encryption See *Examples* below for sample commands.
user	(Used only with security levels **authNoPriv** and **authPriv**) Account name to use for SNMP communication. The username must be 1–15 characters long with no spaces. Only alphanumeric characters can be used.
authentication	(Used only with security levels **authNoPriv** and **authPriv**) SNMP authentication protocol; MD5 or SHA. When you enter the authentication protocol, you are prompted for a password. The password must be 8–64 characters long with no spaces. All other ASCII characters can be used.
encrypt	(Only used with security level **authPriv**) Encryption mode; DES or AES. When you enter the encryption mode, you are prompted for an encryption key. The key must be 8–64 characters long with no spaces. All other ASCII characters can be used.

Command modes

All products. Not supported in Azure.

Examples

- Configure SNMP v3 monitoring with no authentication or encryption:

```
(config)# set snmp v3 --securitylevel noAuthNoPriv --user
jdoe
```

- Configure SNMP v3 monitoring with authentication only:

```
(config)# set snmp v3 --securitylevel authNoPriv --user test
--authentication md5
Password: ********
Confirm password: ********
```

● Configure SNMP v3 monitoring with authentication and encryption:

```
(config)# set snamp v3 --securitylevel authPriv --
authentication sha --encrypt des --user test
Password: ********
Confirm password: ********
Encrypt key: ********
Confirm encrypt key: ********
```

Related commands

Command	Description
show snmp config	Display SNMP monitor server information.
set snmp service	Enable or disable SNMP monitoring (polling).
set snmp v1	Configure SNMP v1 monitoring.
set trap service	Enable or disable SNMP traps.

SNMP traps and queries

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show trap config

Display SNMP trap server on/off status and version information.

```
show trap config
```

Command modes

All products. Not supported in Azure.

Usage guidelines

SNMP monitor service and SNMP trap settings are independent, but SNMP monitor service must be enabled before you activate the SNMP trap configuration.

Related commands

Command	Description
set snmp service	Enable or disable SNMP monitoring (polling).
show trap events	Display a table of SNMP trap events and settings.

Command	Description
save trap	Save SNMP trap events settings for editing or later use.
set trap service	Enable or disable SNMP traps.

show trap events

Display a table of SNMP trap events and settings.

```
show trap events
```

Command modes

All products. Not supported in Azure.

Related commands

Command	Description
show trap config	Display SNMP trap server on/off status and version information.
save trap	Save SNMP trap events settings for editing or later use.
set trap service	Enable or disable SNMP traps.
load trap	Load SNMP trap events configuration from a file.

save trap

Save SNMP trap events settings for editing or later use.

```
save trap [--location <filestore_alias> | --url <url>] [--
save-path <filepath>] [--auth-required] [--default]
```

Parameter	Description
location	Predefined remote filestore alias.
default	(Optional) Saves default settings. If the **default** parameter is not included, current trap settings are saved.
url	(Optional) The URL of the storage location.
auth-required	Used with URL option to specify that a password is needed.
default	Save default trap settings for editing. If not specified, save current settings.

Command modes

All products. Not supported in Azure.

Examples

```
(config)# save trap --location samba-fs
```

Related commands

Command	Description
set filestore	Define a remote location to host backup and configuration files.
show trap config	Display SNMP trap server on/off status and version information.
show trap events	Display a table of SNMP trap events and settings.
set trap service	Enable or disable SNMP traps.

set trap service

Enable or disable SNMP traps.

```
set trap service --status <enabled|disabled>
```

Parameter	Description
status	Status of SNMP trap settings; enabled or disabled.

Command modes

All products. Not supported in Azure.

Usage guidelines

SNMP monitor service and SNMP trap settings are independent, but SNMP monitor service must be enabled to activate the SNMP trap configuration.

Examples

```
(config)# set trap service --status enabled
```

Related commands

Command	Description
set snmp service	Enable or disable SNMP monitoring (polling).
show trap config	Display SNMP trap server on/off status and version information.
show trap events	Display a table of SNMP trap events and settings.
save trap	Save SNMP trap events settings for editing or later use.

load trap

Load SNMP trap events configuration from a file.

```
load trap [--location <filestore_alias>] [--url <url>]
[--file <name>] [--auth-required] [--no-cert-verification]
```

Parameter	Description
location	(Optional) Predefined remote filestore alias.
file	(Optional) Name of the file to load.
url	(Optional) The URL of the trap file to load.
auth-required	(Optional) Used with URL option to specify that a password is required.
no-cert-verification	Ignore SSL certificate checks (only valid with URL option, with scheme https.

Command modes

All products. Not supported in Azure.

Examples

```
(config)# load trap --location samba-fs --file list123
```

Related commands

Command	Description
show trap config	Display SNMP trap server on/off status and version information.
show trap events	Display a table of SNMP trap events and settings.

test trap event

Send a test trap to verify SNMP communication.

```
test trap event
```

Command modes

All products. Not supported in Azure.

Usage guidelines

If there is a problem sending the test trap, verify the ending ID and authentication settings and values, and verify that the network allows communication between the appliance and the SNMP manager.

Related commands

Command	Description
set trap service	Enable or disable SNMP traps.
show trap config	Display SNMP trap server on/off status and version information.

set trap v1

Configure SNMP v1 traps for alerting.

```
set trap v1 --community <name> --ip <ip_address> --port
<port>
```

Parameter	Description
community	Community name. The name must be 5–64 characters long with no spaces, using alphanumeric characters and $ ( ) . _ @ = * < > - : , % [ ]	/

Parameter	Description
ip	Trap server IP address.
port	Port for traps sent by the appliance.

Command modes

All products. Not supported in Azure.

Examples

```
(config)# set trap v1 --community mycommunity --ip 10.0.0.14
--port 162
```

Related commands

Command	Description
set trap service	Enable or disable SNMP traps.
show trap config	Display SNMP trap server on/off status and version information.

set trap v2c

Configure SNMP v2c traps for alerting.

```
set trap v2c --community <name> --ip <ip_address> --port
<port>
```

Parameter	Description
community	Community name. The name must be 5–64 characters long with no spaces, using alphanumeric characters and $ ( ) . _ @ = * < > - : , % [ ]	/
ip	Trap server IP address.
port	Port for traps sent by the appliance.

Command modes

All products. Not supported in Azure.

Examples

```
(config)# set trap v2c --community mycommunity --ip
10.0.0.13 --port 162
```

Related commands

Command	Description
set trap service	Enable or disable SNMP traps.
show trap config	Display SNMP trap server on/off status and version information.

set trap v3

Configure SNMP v3 traps for alerting.

```
set trap v3 --engineid <id> --ip <ip_address> --port <port>
--securitylevel <noAuthNoPriv|authNoPriv|authPriv> --user
<username> --authentication <md5|sha> --encrypt <des|aes>
```

Parameter	Description
engineid	Engine ID, a hexadecimal number 10–64 characters long. The number cannot be all 0 or F characters, and the length of the string must be an even number.
ip	IP address of the SNMP manager.
port	Port for communication with SNMP manager.
securitylevel	Security level for SNMP v3 trap. Three levels are available: ● No authentication or encryption ● Authentication only ● Authentication and encryption See *Examples* below for sample commands.
user	(Used only with security levels **authNoPriv** and **authPriv**) Account name to use for SNMP communication. The username must be 1–15 characters long with no spaces. Only alphanumeric characters can be used.

Parameter	Description
authentication	(Used only with security levels **authNoPriv** and **authPriv**)
	Authentication protocol used on the trap server; MD5 or SHA.
	When you enter the authentication protocol, you are prompted for a password. The password must be 8–64 characters long with no spaces. All other ASCII characters can be used.
encrypt	(Used only with security level **authPriv**)
	Encryption mode; DES or AES.
	When you enter the encryption mode, you are prompted for an encryption key. The key must be 8–64 characters long with no spaces. All other ASCII characters can be used.

Command modes

All products. Not supported in Azure.

Examples

● Configure SNMP v3 traps with no authentication or encryption:

```
(config)# set trap v3 --engineid 8000000001020304 --ip
10.0.0.13 --port 162 --securitylevel noAuthNoPriv --user
trapuser
```

● Configure SNMP v3 traps with authentication only:

```
(config)# set trap v3 --engineid 0x802a0581 --ip 10.17.32.5
--port 162 --securitylevel authNoPriv --authentication sha -
-user test
Password: ********
```

● Configure SNMP v3 traps with authentication and encryption:

```
(config)# set trap v3 --engineid 8000000001020304 ip
10.0.0.25 --port 162 --securitylevel authPriv --user
trapuser --authentication sha --encrypt md5
```

Related commands

Command	Description
set snmp service	Enable or disable SNMP monitoring (polling).
show trap config	Display SNMP trap server on/off status and version information.

Module-specific commands

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The commands are used to configure specific modules (Proxy, Web, Email, or Network Agent) and can be accessed through the CLI's **config** mode.

set debugging

Reset the debug output logging level to the default (minimum output).

```
set debugging --command reset --module
<proxy|web|email|network-agent>
```

Parameter	Description
command	Command being sent.
module	Module being reset; Proxy, Web, Email, or Network Agent.

Command modes

All products.

Examples

```
(config)# set debugging --command reset --module proxy
```

set proxy content_line

Run the Content Gateway content line command.

```
set proxy content_line --type <clear_cert|reread_config|set>
--entry <variable_name> --value <variable_value>
```

Parameter	Description
type	Action to apply.
entry	Name of a records.conf variable. See Content Gateway Help for information about content_line and records.config.
value	Value to which to set the variable.

Command modes

Web only.

Examples

```
(config)# set proxy content_line --entry
proxy.config.lm.display_reset_alarm --value 1 --type set
```

set proxy policy_engine

Start, stop, or restart the Content Gateway Policy Engine.

```
set proxy policy_engine --command <start|stop|restart>
```

Parameter	Description
command	Action to apply; start, stop, or restart.

Command modes

Web only.

Examples

```
(config)# set proxy policy_engine --command stop
```

set proxy password

Reset the proxy password.

```
set proxy password
```

Command modes

Forcepoint Web Security installs only.

Usage guidelines

This command overwrites the old proxy password and displays a new one.

Examples

```
(config)# set proxy password
Proxy password successfully reset: <new_password>
```

set web control

Enable or disable the specified Web protection service.

```
set web control --command <enable|disable> --service
<state_server|directory_agent>
```

Parameter	Description
command	Action to apply; enable or disable.
service	Service to control; State Server or Directory Agent.

Command modes

Forcepoint Web Security.

Usage guidelines

For more information, see the following sections of the [Forcepoint Web Security Administrator Help](#):

- [Reporting components](#)
- [Policy Server, Filtering Service, and State Server](#)
- [Directory Agent and hybrid user identification](#)

Examples

```
(config)# set web control --command disable --service
multiplexer
```

Command history

Release	Modification

8.3	This command was modified. Previous commands for V Series appliances:
	```module enable```
	```module disable```

set web cache_users

Retrieve the status of or enable/disable the caching of users.

```
set web cache_users --command <enabled|disabled>
```

Parameter	Description
command	Action to apply; enable or disable.

Command modes

Forcepoint Web Security.

Examples

```
(config)# set web cache_users --command enabled
```

set web usr_grp_ip_prec

Retrieve the status of or enable/disable the User Group IP Precedence.

```
set web usr_grp_ip_prec --command <enable|disable>
```

Parameter	Description
command	Action to apply; enable or disable.

Command modes

Forcepoint Web Security.

Usage guidelines

For more information, see the section Prioritizing group and domain policies in the Forcepoint Web Security Administrator Help.

Examples

```
(config)# set web usr_grp_ip_prec --command enable
```

set email subscription_reset

Reset the email subscription.

```
set email subscription_reset
```

Command modes

Forcepoint Email Security.

Forcepoint Email Security module commands

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The appliance CLI includes some commands that are specific to Forcepoint Email Security operations. Use the Email Security command set to perform the following tasks:

● *Display Email Security system configuration information*
● *Configure Forcepoint Email Security system functions*
● *Configure virtual IP addresses*

These commands require that you be logged in to the email module CLI: *login email*.

login email

Log onto the email module.

```
login email
```

Command modes

Accessible from config mode, but only used to access Forcepoint Email Security commands.

Usage guidelines

You must be in config mode to elevate to the email module CLI.

Examples

```
(config)# login email
(config)(Email)#
```

Related commands

Command	Description
show email info	Display Email Security container and build information.
show email subscription	Display Email Security subscription information.

Display Email Security system configuration information

show email info

Display Email Security container and build information.

```
show email info [--ib]
```

Parameter	Description
ib	(Optional) Display IB installation date, description, version, binaries, and any prerequisite IBs or hotfixes.

Command modes

Forcepoint Email Security.

Usage guidelines

Output includes the following Email Security information:

- Email Security uptime
- Email Security hostname
- Email Security version
- Email Security build
- Email Security build date

When the optional parameter **--ib** is included in the command, output includes the following Email Security information:

- IB installation date
- Description
- Version
- Binaries
- Prerequisite IBs or hotfixes

Command history

Release	Modification
8.5	This command was introduced for Forcepoint Email Security.

Related commands

Command	Description
show email subscription	Display Email Security subscription information.
login email	Log on to the Email module.

show email subscription

Display Forcepoint Email Security subscription information.

```
show email subscription [--details]
```

Parameter	Description
details	(Optional) Appends a timestamp of the most recent subscription validation, length of the subscription grace period, and supported product features.

Command modes

Forcepoint Email Security.

Examples

```
(config)(Email)# show email subscription:
Subscription key: <key number>
Expiration date: <date>
Expires in: <number of days>
Subscribed users: <number of users>
Operational status: <valid or invalid>
When subscription expires: <action for mail processing;
allow or block>
```

Command history

Release	Modification
8.5	This command was introduced for Forcepoint Email Security.

Related commands

Command	Description
show email info	Display Email Security container and build information.
show analytic-update info	Display Forcepoint analytics database names and current database update information.
login email	Log on to the Email module.

show analytic-update info

Display Forcepoint analytics database names and current database update information.

```
show analytic-update info
```

Command modes

Forcepoint Email Security.

Usage guidelines

Output includes a list of the current Forcepoint Email Security analytics databases and their most recent update versions.

Command history

Release	Modification
8.5	This command was introduced for Forcepoint Email Security.

Related commands

Command	Description
login email	Log on to the Email module.
show email info	Display Email Security container and build information.
show email subscription	Display Email Security subscription information.

show service status

Display Forcepoint Email Security services along with service operational status and uptime.

```
show service status
```

Command modes

Forcepoint Email Security.

Usage guidelines

Output includes a list of Email Security services, their current status (on or off), and uptime (if service is running).

Command history

Release	Modification
8.5	This command was introduced for Forcepoint Email Security.

Related commands

Command	Description
login email	Log on to the Email module.
show email info	Display Email Security container and build information.
show email subscription	Display Email Security subscription information.

show email counter

Display Forcepoint Email Security counters.

```
show email counter
```

Command modes

Forcepoint Email Security.

Usage guidelines

Output includes a list of all counters, grouped into Persistent and Non-Persistent counters.

Command history

Release	Modification
8.5	This command was introduced for Forcepoint Email Security.

Related commands

Command	Description
login email	Log on to the Email module.
show email info	Display Email Security container and build information.
show email subscription	Display Email Security subscription information.

Configure Forcepoint Email Security system functions

set email-x-header

Enable or disable the Email Security x-header creation function.

```
set email-x-header --status <on|off>
```

Parameter	Description
status	State of the x-header function.

Command modes

Forcepoint Email Security.

Usage guidelines

The Email Security x-header contains email analysis information. This information can be passed to various processing components like filters.

Examples

```
(config)(Email)# set email-x-header --status off
```

Command history

Release	Modification
8.5	This command was introduced for Forcepoint Email Security.

Related commands

Command	Description
set domain-group	Define a new domain group or add a domain to an existing domain group.
set service	Stop, start, or restart Forcepoint Email Security services.
login email	Log on to the Email module.

set domain-group

Define a new domain group or add a domain to an existing domain group.

```
set domain-group --name <group name> [--description
<description>] [--domain <domain address>]
```

Parameter	Description
name	New or existing domain group name.
description	(Optional) Domain group description. Enclose multiple-word descriptions in quotation marks ("").
domain	(Optional) Comma-separated list of domain addresses. Use "protected" for Protected Domain.

Command modes

Forcepoint Email Security.

Usage guidelines

The following characters are not supported in the **--name** and **--description** parameters: < > &

Examples

```
(config)(Email)# set domain-group --name protected --domain
mydomain.com --description "My Protected Domain addresses"
```

Command history

Release	Modification
8.5	This command was introduced for Forcepoint Email Security.

Related commands

Command	Description
set email-x-header	Enable or disable the Email Security x-header creation function.
set service	Stop, start, or restart Forcepoint Email Security services.
login email	Log on to the Email module.

set service

Stop, start, or restart Forcepoint Email Security services.

```
set service --action <stop|start|restart> --name
<service_name>
```

Parameter	Description
action	Service action to perform.
name	Service name. Use the following command to view a list of all service names: `help set service --name`

Usage guidelines

Forcepoint Email Security only

Examples

```
(config)(Email)# set service --action stop --name log
```

Related commands

Command	Description
set email-x-header	Enable or disable the Email Security x-header creation function.
set domain-group	Define a new domain group or add a domain to an existing domain group.
login email	Log on to the Email module.

set logging

Configure the specified log file maximum archive size.

```
set logging --log <threatcat|scanEngine> --rotate <number of
files> --size <file size>
```

Parameter	Description
log	Log file to archive.
rotate	Maximum number of log files ro archive.
size	Maximum size of the log file to archive, in MB.

Command modes

Forcepoint Email Security.

Usage guidelines

Enter zero for both the **--rotate** and **--size** parameters to disable logging for the specified log.

Command history

Release	Modification
8.5	This command was introduced for Forcepoint Email Security.

Related commands

Command	Description
login email	Log on to the Email module.
set email-x-header	Enable or disable the Email Security x-header creation function.
set service	Stop, start, or restart Email Security services.

set mta accept-email-traffic-as

Configure Email Security to handle email traffic as if it is received from the specified direction for policy application purposes.

```
set mta accept-email-traffic-as --direction
<default|inbound|internal|outbound>
```

Parameter	Description
direction	Direction of email traffic, which determines the email policy used. If **default** is entered, direction is determined by protected domain.

Usage guidelines

Forcepoint Email Security only.

Examples

```
(config)(Email)# set mta accept-email-traffic-as --direction
default
```

Command history

Release	Modification
8.5	This command was introduced for Forcepoint Email Security.

Related commands

Command	Description
login email	Log on to the Email module.
set mta tls-received-header	Configure whether Email Security logs the TLS version and cipher information into the Received header.

set mta tls-received-header

Configure whether to log the TLS version and cipher information in the Received header.

```
set mta tls-received-header --status <enable|disable>
```

Parameter	Description
status	Status of the command; enable or disable.

Command modes

Forcepoint Email Security.

Usage guidelines

When enabled, Email Security logs the TLS version and cipher information in the Received header.

Related commands

Command	Description
login email	Log on to the Email module.
set mta accept-email-traffic-as	Configure Email Security to handle email traffic as if it is received from the specified direction for policy application purposes.

set mta open-relay-trusted-ip

Configure whether to allow or reject all open relay messages, even for IP addresses that are included in the Trusted group.

```
set mta open-relay-trusted-ip --status <enable|disable>
```

Parameter	Description
status	Status of the command; enable or disable.

Command modes

Forcepoint Email Security.

Usage guidelines

When enabled, Email Security allows all open relay messages, even for IP addresses that are included in the Trusted group.

Command history

Release	Modification
8.5	This command was introduced for Forcepoint Email Security.

Related commands

Command	Description
login email	Log on to the Email module.
set mta accept-email-traffic-as	Configure Email Security to handle email traffic as if it is received from the specified direction for policy application purposes.

set mta reject-empty-pass-auth

Configure whether to reject login requests as authentication failure if an empty password is provided.

```
set mta reject-empty-pass-auth --status <enable|disable>
```

Parameter	Description
status	Status of the command; enable or disable.

Command modes

Forcepoint Email Security.

Usage guidelines

When enabled, Email Security rejects login requests as authentication failure if an empty password is provided.

Related commands

Command	Description
login email	Log on to the Email module.
set mta open-relay-trusted-ip	Configure whether Email Security rejects all open relay messages, even for IP addresses that are included in the Trusted IP group.

set mta sender-domain-validation

Configure whether to reject messages if the sender domain has no MX/A/AAAA record in DNS.

```
set mta sender-domain-validation --status <enable|disable>
```

Parameter	Description
status	Status of the command; enable or disable.

Command modes

Forcepoint Email Security.

Usage guidelines

When enabled, Email Security rejects messages if the sender domain has no MX/A/AAAA record in DNS.

Related commands

Command	Description
login email	Log on to the Email module.
set mta accept-email-traffic-as	Configure Email Security to handle email traffic as if it is received from the specified direction for policy application purposes.

set mta tls-auth-only

Enable or disable 250-AUTH from the Forcepoint Email Security response to the EHLO command and accept AUTH only for TLS connections.

```
set mta tls-auth-only --status <enable|disable>
```

Parameter	Description
status	Status of the command; enable or disable.

Command modes

Forcepoint Email Security.

Usage guidelines

When enabled, AUTH is used in the Email Security response to the EHLO command for TLS connections. When disabled, 250-AUTH is accepted.

Related commands

Command	Description
login email	Log on to the Email module.
set mta accept-email-traffic-as	Configure Email Security to handle email traffic as if it is received from the specified direction for policy purposes.

set mta treat-blank-sender-as-outbound

Enable or disable scanning messages using the Outbound policy if the envelope sender is blank and the recipient is not in the Protected domain.

```
set mta treat-blank-sender-as-outbound --status
<enable|disable>
```

Parameter	Description
status	Status of the command; enable or disable.

Command modes

Forcepoint Email Security.

Usage guidelines

When enabled, messages are scanned using the Outbound policy if the envelope sender is blank and the recipient is not in the Protected domain.

Related commands

Command	Description
login email	Log on to the Email module.
set mta accept-email-traffic-as	Configure Email Security to handle email traffic as if it is received from the specified direction for policy application purposes.

set mta trusted-ip-bypass-blocklist

Configure whether to drop messages from Trusted IP groups if the sender is on a global Personal Email Manager Always Block list.

```
set mta trusted-ip-bypass-blocklist --status
<enable|disable>
```

Parameter	Description
status	Status of the command; enable or disable.

Command modes

Forcepoint Email Security.

Usage guidelines

When enabled, messages from Trusted IP groups are dropped if the sender is on a global Personal Email Manager Always Block list.

Related commands

Command	Description
login email	Log on to the Email module.
set mta open-relay-trusted-ip	Configure whether Email Security rejects all open relay messages, even for IP addresses that are included in the Trusted IP Group.

set mta tls-incoming

Configure the incoming TLS.

```
set mta tls-incoming --cipher <RC4|medium> --protocol
<sslv2|sslv3|tls1_0|tls1_1|tls1_2> --status <enable|disable>
```

Parameter	Description
cipher	Incoming TLS cipher; RC4 or medium. Medium is the recommended cipher, as RC4 is less secure.
protocol	Incoming TLS protocol; SSLv2, SSLv3, TLS 1_0, TLS 1_1, or TLS 1_2.
status	Status of incoming TLS configuration; enable or disable.

Command modes

Forcepoint Email Security.

Usage guidelines

Either **--cipher** or **--protocol** must be used, or both. At least one action is required. After changes are made, the configuration restarts by default.

Disabling TLS 1_0 will also disable TLS 1_1 and TLS 1_2. To disable only tls1_0, you must first disable TLS 1_0, and then run enable commands for TLS 1_1 and TLS 1_2. The sequence would be as follows:

1. set mta tls-incoming --protocol tls1_0 --status disable
2. set mta tls-incoming --protocol tls1_1 --status enable
3. set mta tls-incoming --protocol tls1_2 --status enable

Examples

The following examples display valid commands that use either the **--cipher** or **--protocol** parameters, or both.

```
(config)(Email)# set mta tls-incoming --cipher rc4 --status
enable
(config)(Email)# set mta tls-incoming --protocol sslv2 --
status enable
(config)(Email)# set mta tls-incoming --cipher medium --
protocol sslv3 --status enable
```

Related commands

Command	Description
login email	Log on to the Email module.
set mta tls-outgoing	Configure the outgoing TLS.

set mta tls-outgoing

Configure the outgoing TLS.

```
set mta tls-outgoing --cipher <RC4|medium> --protocol
<sslv2|sslv3|tls1_0|tls1_1|tls1_2> --status <enable|disable>
```

Parameter	Description
cipher	Outgoing TLS cipher; RC4 or medium. Medium is the recommended cipher, as RC4 is less secure.
protocol	Outgoing TLS protocol; SSLv2, SSLv3, TLS 1_0, TLS 1_1, or TLS 1_2.
status	Status of the outgoing TLS configuration; enable or disable.

Command modes

Forcepoint Email Security.

Usage guidelines

Either **--cipher** or **--protocol** must be used, or both. At least one action is required. After changes are made, the configuration restarts by default.

Disabling tls1_0 will also disable tls1_1 and tls1_2. To disable only tls1_0, you must first disable tls1_0, and then run enable commands for tls1_1 and tls1_2. The sequence would be as follows:

1. set mta tls-outgoing --protocol tls1_0 --status disable
2. set mta tls-outgoing --protocol tls1_1 --status enable
3. set mta tls-outgoing --protocol tls1_2 --status enable

Examples

The following examples display valid commands that use the **--cipher** or **--protocol** parameters, or both.

```
(config)(Email)# set mta tls-outgoing --cipher rc4 --status
enable
```

```
(config)(Email)# set mta tls-outgoing --protocol sslv2 --
status enable
(config)(Email)# set mta tls-outgoing --cipher medium --
protocol sslv3 --status enable
```

Related commands

Command	Description
login email	Log on to the Email module.
set mta tls-incoming	Configure the incoming TLS.

set openssl-fips

Enable or disable FIPS mode.

```
set openssl-fips --status <enable|disable>
```

Parameter	Description
status	Status of FIPS mode; enable or disable.

Usage guidelines

Forcepoint Email Security only

Related commands

Command	Description
login email	Log on to the Email module.
set service	Stop, start, or restart Forcepoint Email Security services.

set pem-load-balancer

Turn off native load balancing.

```
set pem-load-balancer --status off
```

Parameter	Description
status	Status of load balancing.

Command modes

Forcepoint Email Security.

Usage guidelines

Load balancing is ON by default.

Examples

```
(config)(Email)# set pem-load-balancer --status off
```

Command history

Release	Modification
8.5.4	This command was introduced for Forcepoint Email Security.

Related commands

Command	Description
set service	Stop, start, or restart Forcepoint Email Security services.
login email	Log on to the Email module.

set header-variables

Turn on the ability to use the True Source IP in header modification.

```
set header-variables --status on
```

Parameter	Description
status	State of the header variables.

Command modes

Forcepoint Email Security.

Usage guidelines

True Source IP in header variables is OFF by default.

Examples

```
(config)(Email)# set header-variables --status on
```

Command history

Release	Modification
8.5.4	This command was introduced for Forcepoint Email Security.

Related commands

Command	Description
set service	Stop, start, or restart Forcepoint Email Security services.
login email	Log on to the Email module.

Configure virtual IP addresses

Multiple virtual IP addresses can be configured on E1 or E2.

- Virtual IP addresses are used for outbound traffic only.
- Virtual IP addresses are bound to the specified physical interface.
- Virtual IP addresses must be in the same subnet as the specified physical interface.
- A maximum of 10 virtual IP addresses can be specified for each physical interface (E1 and E2).

Multiple virtual interfaces can be helpful to support multiple domains and/or a large volume of outbound traffic.

setvirtualip

Set the virtual IP address for the Email module.

```
setvirtualip --action <list|add|delete> --interface
<eth0|eth1> --ip <ip_address>
```

Parameter	Description
action	Action to implement; list, add, or delete.
interface	Interface to configure; eht0 or eth1.
ip	IP address.

Command modes

Forcepoint Email Security. Not supported in Azure.

Examples

```
(config)(Email)# setvirtualip --action add --interface eth1
--ip 10.206.143.3
```

Related commands

Command	Description
login email	Log on to the Email module.
migrate interactive	Move the configuration and email datastore to a new appliance.

migrate interactive

Move the configuration and email datastore to a new appliance.

```
migrate interactive
```

Command modes

Forcepoint Email Security.

Usage guidelines

Interactive mode is a step-by-step guided procedure that requires user input during the migration process.

Examples

```
(config)(Email)# migrate interactive
```

Related commands

Command	Description
login email	Log on to the Email module.
migrate silent	Move the configuration and email datastore to a new appliance.

migrate silent

Move the configuration and email datastore to a new appliance.

```
migrate silent --host <hostname> --mode <Azure|On-Premises>
--subscription <subscription_key>
```

Parameter	Description
host	Hostname or IP address.
mode	Migration mode; Azure or On-Premises. Enter **Azure** if you are migrating to a new Azure appliance, or **On-Premises** if you are migrating to a new on-premises appliance.
subscription	Forcepoint Email Security subscription key. Only required when Azure is the selected migration mode.

Usage guidelines

Forcepoint Email Security only

Examples

On-premises migration:

```
(config)(Email)# migrate silent --host 10.206.143.3 --mode
On-Premises
```

Azure migration:

```
(config)(Email)# migrate silent --host 10.206.143.3 --mode
Azure --subscription ABCDEFGH1
```

Related commands

Command	Description
login email	Log on to the Email module.
migrate interactive	Move the configuration and email datastore to a new appliance.

Forcepoint Technical Support troubleshooting commands

Certain commands specific to Forcepoint Email Security may be accessible in the appliance CLI, but they are used only in association with Forcepoint Technical Support troubleshooting operations. They are not supported for appliance administrator use and an error message displays when you attempt to run them. See *Forcepoint Technical Support troubleshooting commands*, for a list of these commands.

The following appliance CLI commands may be visible in the CLI, but they are available only for Forcepoint Technical Support operations. They are **not** supported for appliance administrator use. Contact Forcepoint Technical Support for assistance with these commands.

```
set analytic-update service --status <on|off>
set reporting --status <on|off>
set email subscription --key <reset|subscription_key>
set mta delivery --status <on|off>
load analytic-db --file <analytics_file> --location
<filestore>
load analytic-db [--factory]
save configuration --location [--description]
```

Use of these commands generates the following message:

```
Unsupported command. Please contact Forcepoint Technical
Support.
```

Forcepoint DLP Analytics Engine module commands

CLI Guide | Forcepoint Appliances | v8.5.x

The appliance CLI includes certain commands that are specific to Forcepoint DLP Analytics Engine operations.

Use the Analytics Engine command set to perform the following tasks:

● Register the appliance to the Forcepoint Management Server
● Display configuration information

These commands require that you be logged in to the analytics-engine module CLI as shown in the login command.

login analytics-engine

Log on to the Forcepoint DLP analytics-engine module CLI.

```
login analytics-engine
```

Command modes

Forcepoint DLP Analytics Engine.

Usage guidelines

You must be in config mode to elevate to the DLP analytics-engine module CLI.

Examples

```
(config)# login analytics-engine
(config)(analytics-engine)#
```

Command history

Added in version 8.5.

Related commands

Command	Description
register	Re-register the appliance after the IP or hostname of the appliance of the Forcepoint Management Server have changed.
show manager info	Display Forcepoint DLP Analytics Engine configuration information.

register

Re-register the appliance after the IP or hostname of the appliance or the Forcepoint Management Server have changed.

```
register --ip <ip_address> --username <username> --password
<password>
```

Parameter	Description
ip	IP address of the Forcepoint Management Server.
username	Username of the Forcepoint DLP administrator.
password	Password for the Forcepoint DLP administrator.

Command modes

Forcepoint DLP Analytics Engine.

Usage guidelines

All three parameters are required.

Examples

```
(config)(analytics-engine)# register --ip 10.10.10 --
username jsmith --password 12345
```

Related commands

Command	Description
login analytics-engine	Log on to the DLP analytics-engine module CLI.
show manager info	Display Forcepoint DLP Analytics Engine configuration information.

show manager info

Display Forcepoint DLP Analytics Engine configuration information.

```
show manager info
```

Usage guidelines

Forcepoint DLP Analytics Engine only

Examples

```
(config)(analytics-engine)# show manager info
Manager IP: 10.10.10.1
Username: admin
```

Related commands

Command	Description
login analytics-engine	Log on to the DLP analytics-engine module CLI.
register	Re-register the appliance after the IP or hostname of the Forcepoint Management Server have changed.

Linux settings

CLI Guide | Forcepoint Appliances | v8.5.x

show sysctl

Display Linux kernel parameters.

```
show sysctl --entry <name>
```

Parameter	Description
entry	Name in sysctl to view.

Command modes

All products.

Usage guidelines

This command only affects the values of the following entries:

- net.ipv4.tcp_timestamps
- net.ipv4.tcp_window_scaling

Related commands

Command	Description
set sysctl	Modify Linux kernel parameters at runtime.

set sysctl

Modify Linux kernel parameters at runtime.

```
set sysctl --entry <name> --value <0|1>
```

Parameter	Description
entry	Name in sysctl to modify.
value	New value of the entry; 0 or 1.

Command modes

All products.

Usage guidelines

This command only affects the values of the following entries:

- net.ipv4.tcp_timestamps
- net.ipv4.tcp_window_scaling

Related commands

Command	Description
show sysctl	Display Linux kernel parameters.

Security Commands

CLI Guide | Forcepoint Appliances | v8.5.x

show security

View the current ciphers and protocols used for the specified type.

```
show security --type <api|sso|cli>
```

Parameter	Description
type	Type of ciphers and protocols to display: API, SSO, or CLI.

Usage guidelines

All products.

Examples

```
(view)# show security --type api
```

Related commands

Command	Description
set security	View the current protocol used for the specified type.
restore security-defaults	Restore the default ciphers and protocols for the specified type.

set security

Set the current ciphers and protocols used for the specified type.

> **❗ Important**
>
> Setting security values can be very risky and is not advised except when directly recommended by Forcepoint due to issues with the existing ciphers/protocol settings.
>
> In the event of any failure, you can restore the default settings using the "restore security-defaults" command.
>
> If the issue persists, please contact Technical Support for assistance.

```
set security --type <api|sso|cli> [--ciphers <ciphers>]
[--protocol <protocol>]
```

Parameter	Description
type	Type of cipher or protocol (or both) to set: API, SSO, or CLI.
cipher	(Optional) The cipher list to set.
protocol	(Optional) The protocol list to set.

Usage guidelines

All products.

Either the "cipher" or the "protocol" parameter (or both) must be entered with this command.

Examples

```
(config)# set security --type api --cipher
HIGH:!aNULL:!eNULL:!EXPORT:!DES:!RC4:!MD5:!PSK:!aECDH:!EDH-
DSS-DES-CBC3-SHA:!EDH-RSA-DES-CBC3-SHA:!KRB5-DES-CBC3-
SHA:!3DES
```

Related commands

Command	Description
show security	View the current ciphers used for the specified type.
restore security-defaults	Restore the default ciphers and protocols for the specified type.

restore security-defaults

Restore the default ciphers and protocols for the specified type.

```
restore security-defaults --type <all|api|sso|cli>
```

Parameter	Description
type	Type of ciphers and protocols to restore to defaults: API, SSO, or CLI.

Usage guidelines

All products.

Examples

```
(config)# restore security-defaults --type all
```

Related commands

Command	Description
show security	View the current ciphers used for the specified type.
set security	View the current protocol used for the specified type.

Maintenance and support

CLI Guide | Forcepoint Appliances | v8.5.x

Access the following groups of commands below:

Starting and stopping services

CLI Guide | Forcepoint Appliances | v8.5.x

start

Start Web module, Content Gateway services, or Network Agent.

```
start <web|proxy|network-agent>
```

Usage guidelines

Web Security only.

Examples

```
(config)# start web
```

start email

Start Forcepoint Email Security services.

```
start email
```

Usage guidelines

Email Security only.

Examples

```
(config)# start email
```

start policy-engine

Start Policy Engine services.

```
start policy-engine
```

Usage guidelines

DLP only.

Examples

```
(config)# start policy-engine
```

stop

Stop Web module, Content Gateway services, or Network Agent.

```
stop <web|proxy|network-agent>
```

Usage guidelines

Web Security only.

Examples

```
(config)# stop web
```

stop email

Stop Forcepoint Email Security services.

```
stop email
```

Usage guidelines

Email Security only.

Examples

```
(config)# stop email
```

stop analytics-engine

Stop Forcepoint DLP Analytics Engine services.

```
stop analytics-engine
```

Usage guidelines

DLP only.

Examples

```
(config)# stop analytics-engine
```

stop policy-engine

Stop Policy Engine services.

```
stop policy-engine
```

Usage guidelines

DLP only.

Examples

```
(config)# stop policy-engine
```

shutdown appliance

Shut down the appliance.

```
shutdown appliance
```

Usage guidelines

All products.

Examples

```
(config)# shutdown appliance
```

restart appliance

Restart the appliance.

```
restart appliance
```

Usage guidelines

All products.

Examples

```
(config)# restart appliance
```

restart

Restart Web module, Content Gateway, or Network Agent.

```
restart <web|proxy|network-agent>
```

Usage guidelines

Web Security only.

Examples

```
(config)# restart web
```

restart email

Restart Forcepoint Email Security services.

```
restart email
```

Usage guidelines

Email Security only.

Examples

```
(config)# restart email
```

restart policy-engine

Restart Policy Engine services.

```
restart policy-engine
```

Usage guidelines

DLP only.

Examples

```
(config)# restart policy-engine
```

Module status and version details

CLI Guide | Forcepoint Appliances | v8.5.x

show appliance info

Display hardware and software data.

```
show appliance info
```

Usage guidelines

All products.

This command displays:

- The appliance uptime
- The appliance hostname
- The hardware platform
- The appliance software version
- The appliance mode
- The policy mode, if the Security mode is Web

Examples

```
(view)# show appliance info
```

show appliance status

Display status information for the Analytics Engine and Policy Engine.

```
show appliance status
```

Usage guidelines

All products.

This command displays the version and status of the Analytics Engine process and the Policy Engine service.

Examples

```
(view)# show appliance status
```

show web

Display status information for the Web module.

```
show web
```

Usage guidelines

Web only.

This command displays a list of Web services and their status.

Examples

```
(view)# show web
```

show proxy

Display status information for the Content Gateway module.

```
show proxy
```

Usage guidelines

Web only.

This command displays a list of Proxy services and their status.

Examples

```
(view)# show proxy
```

show email

Display status information for the Email module.

```
show email
```

Usage guidelines

Email only.

This command displays a list of Email filtering services and their status.

Examples

```
(view)# show email
```

set network-agent

Enable or disable the Network Agent module.

```
set network-agent
```

Usage guidelines

Web only.

This command allows the user to enable or disable the Network Agent module

Examples

```
(config)# set network-agent --status <enabled|disabled>
```

show network-agent

Display status information for the Network Agent module.

```
show network-agent
```

Usage guidelines

Web only.

This command displays a list of Network Agent services and their status.

Examples

```
(view)# show network-agent
```

Setting the Web policy mode

CLI Guide | Forcepoint Appliances | v8.5.x

All machines running Web protection components connect to the policy source machine to get up-to-date policy information.

> **Important**
> Content Gateway must be restarted after the policy mode is changed.

For more information about the policy source and policy modes, see the Forcepoint Appliances Getting Started Guide.

set mode full

Set the policy mode to full.

```
set mode full
```

Usage guidelines

Web Security only.

The primary instance of Policy Server also runs on the policy source machine.

This mode is also known as full policy source.

set mode user

Set the policy mode to user directory and filtering.

```
set mode user --policy-source <off_box_ip_address>
```

Parameter	Description
policy-source	The IP address of the policy source machine.

Usage guidelines

Web Security only.

A user directory and filtering appliance is a lightweight version of the policy server.

Examples

```
(config)# set mode user --policy-source 10.10.10.10
```

set mode filter

Set the policy mode to filtering only.

```
set mode filter
--policy-server <off_box_ip_address>
```

Parameter	Description
policy-server	The IP address of the policy server.

Usage guidelines

Web Security only.

Unavailable in virtual appliance deployments.

A filtering only appliance is configured to point to a Policy Server. This works best when the appliance is close to the Policy Server and on the same network.

Examples

```
(config)# set mode filter --policy-server 10.10.10.10
```

Appliance hotfixes and upgrades

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All upgrades and hotfixes can be listed in the CLI.

Files are downloaded over port 80. There are 2 ways to retrieve upgrade and hotfix files:

● Download the upgrade or hotfix file directly from Forcepoint download servers:
  ■ Hotfix server: http://appliancehotfix.websense.com

■ Upgrade server: http://appliancepatch.websense.com

Use "ping" to test connectivity to these servers.

● Go to the <u>Forcepoint Downloads</u> page. Download the needed files to a filestore, and then upload the files from the filestore to each appliance.

The speed of your Internet connection and the size of the file will influence which method is more efficient for your environment.

Hotfixes

> **Important**
> **Read the hotfix readme file before applying a hotfix.**

A hotfix applies a small patch to the system to fix a specific problem.

● In the majority of cases, you are notified of hotfixes by:
  ■ A Technical Alert email.
  ■ A Forcepoint Technical Support agent (the agent provides the name of a specific hotfix to address the problem you reported).
● As a best practice, install all security vulnerability hotfixes.
● A hotfix may address an issue on any module running on your appliance.
  ■ A hotfix should not be recommended to you for a module that you have not configured or are not running on your appliance.
  ■ The hotfix facility on the appliance will not install a hotfix that is not valid for the module versions on your appliance.
● A hotfix may have dependencies on one or more other hotfixes, in which case the hotfix facility will not allow the installation of the hotfix until after its dependencies are installed.

Hotfix files are downloaded to and worked with in a filestore that you specify.

Enter the hotfix ID using capital letters.

Use these commands to work with hotfixes:

show hotfix history
show hotfix list
load hotfix
install hotfix
uninstall hotfix
delete hotfix
show download hotfix
pause download hotfix
resume download hotfix
cancel download hotfix
show internet_proxy

load hotfix

Load the hotfix from a server or filestore to the appliance.

```
load hotfix [--id <hotfix_id>] [--file <filename>]
[--location <filestore_alias>] [--url <hotfix_url>] [--auth-
required] [--no-cert-verification>]
```

Parameter	Description
id	(Optional) The ID associated with an available hotfix.
file	Name of the hotfix file.
location	Any defined remote filestore alias.
url	(Optional) The URL of the hotfix to load, if adding from a URL rather than from a filestore. Format: `<url type>://<user>@<ip or hostname>/<filepath>`
auth-required	(Optional) Use with the **--url** parameter to specify whether a password is needed.
no-cert-verification	(Optional) Used with the **--url** option to ignore SSL certificate checks. Only valid with HTTPS.

Usage guidelines

All products.

Use the "install hotfix" command to install the hotfix on the appliance.

Specify the hotfix ID to load a hotfix from Forcepoint servers, or specify a hotfix file name and location to load the hotfix from a remote filestore. Entering the command with no parameters will display a list of hotfixes.

● Use the "show hotfix --id" command to find the hotfix ID on the download server.

● The filestore alias is created with the "set filestore" command.

Enter the "load hotfix --location <alias>" command with no file name to select the hotfix from a list of files on the filestore. Note that if you change the name of a hotfix file in a filestore, the option cannot be used.

Examples

```
(config)# load hotfix --location myfilestore --file
myhotfix.rpm
```

show hotfix history

Display information about applied hotfixes.

```
show hotfix history
```

Usage guidelines

All products.

show hotfix list

Display a list of available appliance hotfixes.

```
show hotfix list [--id <hotfix_id>] [--module
<app|web|proxy|email>]
```

Parameter	Description
id	(Optional) The ID of the hotfix.
module	Appliance, Web, Content Gateway (proxy), or Email

Usage guidelines

All products.

This command displays all hotfixes available for download from Forcepoint servers or residing on the appliance. Note the name and ID of the hotfix file you want to install.

If you want to download a hotfix to a remote filestore, you will need the hotfix file name.

Download hotfixes from the Forcepoint.com > My Account > Downloads > Hotfixes & Patches page. Select a hotfix to see a detailed description.

If you want to download a hotfix directly to each appliance, you will need the hotfix ID.

Examples

```
(view)# show hotfix list --module web
```

show download hotfix

Display the status of the hotfix download process.

```
show download hotfix --file <filename> --id <hotfix id>
```

Parameter	Description
file	The hotfix ID number.
id	The name of the hotfix file.

Usage guidelines

All products.

The load process is asynchronous, allowing the administrator to perform other CLI tasks while the download occurs.

This command lets the administrator check to see if the download is complete.

Examples

```
(view)# show download hotfix --file myhotfix.rpm
```

cancel download hotfix

pause download hotfix

resume download hotfix

Stop, pause, or resume a hotfix download in progress.

```
cancel download hotfix [--id <id>] [--file <filename>]

pause download hotfix [--id <id>] [--file <filename>]

resume download hotfix [--id <id>] [--file <filename>]
```

Parameter	Description
id	The hotfix ID number.
file	The name of the hotfix file.

Usage guidelines

All products.

The *cancel download hotfix* command will cancel the file download. To cancel a paused download, resume the download and then cancel.

Examples

```
(config)# cancel download hotfix --file myhotfix.rpm
```

```
(config)# pause download hotfix --id 2
```

install hotfix

Install a hotfix file on the appliance.

```
install hotfix [--id <hotfix_id>]
```

Parameter	Description
id	The hotfix ID number.

Usage guidelines

All products.

Examples

```
(config)# install hotfix --id 3
```

delete hotfix

Remove a hotfix file from the appliance. This command does not uninstall the hotfix.

```
delete hotfix [--id <hotfix_id>] [--file <filename>]
```

Parameter	Description
file	The name of the hotfix file.
id	The hotfix ID number.

Usage guidelines

All products.

This removes hotfix files that have been transferred to the appliance, but not installed.

If no hotfix ID is specified, you can choose from a list of available hotfix files.

Examples

```
(config)# delete hotfix --id 4
```

```
(config)# delete hotfix --file myhotfix.rpm
```

uninstall hotfix

Uninstall a hotfix from the appliance.

```
uninstall hotfix [--id <hotfix_id>]
```

Parameter	Description
id	The hotfix ID number.

Usage guidelines

All products.

Examples

```
(config)# uninstall hotfix --id 4
```

show internet_proxy

Display the current Internet proxy information.

```
show internet_proxy
```

Usage guidelines

All products.

set internet_proxy

Configure the proxy the appliance will use to contact Forcepoint servers for hotfixes/upgrades.

```
set internet_proxy --ip <ip address> --port <port>
[--user <username>] [--password <password>]
```

Parameter	Description
ip	The IP address.
port	The proxy port.
user	(Optional) The user name.
password	(Optional) The password.

Usage guidelines

All products.

Examples

```
(config)# set internet_proxy --ip 10.10.10.7 --port 3128
--user proxyuser --password mypassword
```

delete internet_proxy

Delete the Internet proxy configuration.

```
delete internet_proxy
```

Usage guidelines

All products.

Appliance Upgrades

> ⓘ **Important**
> **Read the release notes before applying an upgrade.**

A software upgrade upgrades all TRITON Architecture modules on the appliance while preserving the existing settings. Off-appliance TRITON Architecture components must also be upgraded to the same version.

> ⓘ **Important**
> All TRITON Architecture software in your deployment must be running the same version.
>
> A new appliance at your site should immediately be upgraded to the version running in your deployment.
>
> See the Forcepoint Certified Product Matrix for information about the software module versions that are compatible with each appliance version.

Upgrade files are downloaded to and worked with in a filestore that you specify.

Use these commands to work with upgrades:

> *show upgrade history*
> *show upgrade list*
> *show upgrade status*
> *load upgrade*
> *show download upgrade*
> *cancel download upgrade*
> *pause download upgrade*
> *resume download upgrade*
> *install upgrade*

See the entry for each command in the table below.

After an upgrade is applied, use *show appliance info* to confirm the current appliance version. To view the upgrade log file, use the "show log" commands.

show upgrade history

Display the upgrades that have been installed on this appliance.

```
show upgrade history
```

Usage guidelines

All products.

Examples

```
(view)# show upgrade history
```

show upgrade list

Display a list of upgrades available on Forcepoint servers.

```
show upgrade list
```

Usage guidelines

All products.

Examples

```
(view)# show upgrade list
```

show upgrade status

Display status of upgrade package download and installation.

```
show upgrade status
```

Usage guidelines

All products.

Examples

```
(view)# show upgrade status
```

load upgrade

Download or upload an upgrade file.

```
load upgrade [--file <name>] [--location <filestore_alias>]
[--url <hotfix_url>] [--auth-required]
[--no-cert-verification>]
```

Parameter	Description
file	(Optional unless the filestore is TFTP) The name of the upgrade file.
location	(Optional) Any6 defined remote filestore alias. A TFTP filestore requires the file parameter.

Parameter	Description
url	(Optional) The URL of the upgrade to load, if adding from a URL rather than from a filestore. Format: `<url type>://<user>@<ip or hostname>/<filepath>`
auth-required	(Optional) Use with the url parameter to specify whether a password is needed.
no-cert-verification	(Optional) Use with the url parameter to ignore SSL certificate checks. Only valid with HTTPS.

Usage guidelines

All products.

If this command is run with no parameters, you will be prompted to download an upgrade from a list.

Examples

```
(config)# load upgrade --file newpatch.rpm --location
mypatchserver
```

show download upgrade

Display the upgrade download status.

```
show download upgrade --file <filename>
```

Parameter	Description
file	The name of the upgrade file.

Usage guidelines

All products.

Examples

```
(view)# show download upgrade --file newpatch.rpm
```

cancel download upgrade

pause download upgrade

resume download upgrade

Stop, pause, or resume an upgrade download.

```
cancel download upgrade --file <filename>
```

```
pause download upgrade --file <filename>
resume download upgrade --file <filename>
```

Parameter	Description
file	The name of the upgrade file.

Usage guidelines

All products.

The *cancel download upgrade* command will cancel the file download. To cancel a paused download, resume the download and then cancel.

Examples

```
(config)# cancel download upgrade --file newpatch.rpm
(config)# pause download upgrade --file newpatch.rpm
(config)# resume download upgrade --file newpatch.rpm
```

install upgrade

Install and upgrade file on the appliance.

```
install upgrade --file <upgrade_file>
```

Parameter	Description
file	The name of the upgrade file.

Usage guidelines

All products.

If this command is run with no parameters, you will be prompted to install an upgrade from a list.

Examples

```
(config)# install upgrade --file App-upgrade.iso
```

Backup and restore

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It is a best practice to backup appliances regularly. Use "create backup schedule" to define an automated backup schedule.

Backup files can be stored locally—on the appliance, or saved to a filestore that you specify.

There are two backup types:

- A full backup saves all appliance settings, as well as configuration and policy information for all active modules. The best practice is to run a full backup on every appliance in your network on a regular basis.

- A component backup (web or email) saves all configuration information for the selected module. This includes any client and policy data stored on the appliance.

> **Note**
> The web component backup does not include the proxy—Content Gateway. Content Gateway backups (snapshots) can be performed in Content Gateway manager. Snapshots must be performed manually; there is no scheduling facility.

Components that do not reside on the appliance (like Log Server and Forcepoint Security Manager) should be backed up at approximately the same time that you back up your appliance. When you restore the system, this allows you to restore from a time-synchronized set of backups on all machines.

Restoring from backup

When a backup is restored, all current settings for the appliance or module are erased. The appliance is always restarted after a restore.

Before performing a restore, stop all TRITON Architecture components running off the appliance.

Full appliance restores and module-specific restores require that these conditions are met:

- The current appliance version must match the version associated with the backup file. Thus, a version 8.5.3 backup can be restored only on an appliance that is at version 8.5.3.

- The module version must match the version associated with the backup file.

- The current appliance mode—Forcepoint Web Security, Forcepoint Email Security, or Forcepoint URL Filtering — must match that of the backup file. For example, a backup from a Forcepoint Email Security appliance must be used to restore a Forcepoint Email Security appliance.

- If the appliance is a web protection appliance, the current appliance policy source mode (full, user, filter) and policy source IP (or policy server IP) must match the policy source mode and IP addresses in effect when the backup file was created.

- The hardware model of the current appliance must be the same as the model that was backed up. For example, a backup from a Forcepoint V10000 Appliance must be used to restore a Forcepoint V10000 Appliance.

- The original appliance that was backed up cannot also be running elsewhere in the network. Restoring a full configuration re-creates the original appliance.

Before restarting the off-box components, ensure that the system time of all TRITON Architecture component hosts is synchronized. You can then restart the TRITON Architecture components located off the appliance.

> ⚠ **Warning**
>
> If the restore process changed appliance IP addresses, you may need to reconfigure or reinstall off-box components to re-establish communication between on-box and off-box components.

show backup list

Display all available backups in a specified location.

```
show backup list --location <local|filestore_alias>
```

Parameter	Description
location	The location from which to display available backups (local = the current appliance; filestore_alias = the filestore alias of a remote storage location).

Usage guidelines

All products

Examples

```
(view)# show backup list --location local
```

show backup schedule

Display the configured backup schedule.

```
show backup schedule
```

Usage guidelines

All products.

Includes the schedule frequency, the last scheduled backup, the next scheduled backup, and the backup location.

create backup now

Create an appliance backup now.

```
create backup now --location <local|filestore_alias>
  [--desc <description>] --type <full|email|web> --save-path
<filepath> [--url <url>] [--auth-required]
```

Parameter	Description
location	A filestore alias or "local" to indicate a file on this appliance.
desc	(Optional) Description of the backup (limited to 18 characters).
type	The type of backup being created (full appliance backup, email-only, or web-only).
save-path	Directory on the filestore in which to store the file.

url	(Optional) The URL of the hotfix to load, if adding it from a URL rather than from a filestore.
	
	 Format:
	 `<url type>://<user>@<ip or hostname>/<filepath>`
	
	 Example:
	 `(config)# restore backup --location local --file mybackup.bak`

auth-required	(Optional) Use with the URL parameter to specify whether a password is needed.

Usage guidelines

All products.

You can back up files onto the appliance (local) or onto a remote filestore. You can restore from either location.

The optional description of the backup is limited to 18 characters.

Examples

```
(config)# create backup now --location local --desc full-
2018-1-24 --type full
```

restore backup

Restore the appliance configuration settings saved in the specified backup file.
NOTE: Restoring from tftp servers is not supported.

```
restore backup [--location <local|filestore_alias>] [--file
<file_name>] [--url <backup_url>] [--auth-required] [--no-
cert-verification]
```

Parameter	Description
location	(Optional) A filestore alias or "local" to indicate a file on this appliance.
file	(Optional) Name of the backup file to restore. Do not include the option for interactive mode.

url	(Optional) The URL of the hotfix to load, if adding it from a URL rather than from a filestore.
	
	Format:
	`<url type>://<user>@<ip or hostname>/<filepath>`
	
	Example:
	`(config)# restore backup --location local --file mybackup.bak`

auth-required	(Optional) Use with the **url** parameter to specify whether a password is needed.
no-cert-verification	(Optional) Used with the **url** option to ignore SSL certificate checks. Only valid with HTTPS.

Usage guidelines

All products.

create backup schedule

Define a schedule for automatic backups.

```
create backup schedule --location <local|filestore_alias>
--freq <daily|weekly|monthly>
--day <Mon|Tue|Wed|Thu|Fri|Sat|Sun> --date <integer>
--time <hh:mm> --type <full|web|email>
```

Parameter	Description
location	You can schedule a backup to the appliance ("local") or to a remote filestore.
freq	You can schedule a backup to occur daily, weekly, or monthly.
day	If the interval is weekly, also specify the day of the week: Mon, Tue, Wed, Thu, Fri, Sat, or Sun (case-sensitive).
date	If the interval is monthly, also specify the day of the month (integer from 1-28).

Parameter	Description
time	For all interval options, specify the time of day in 24-hour format (hh:mm). Do not specify seconds.
type	The type of backup being created (full appliance backup, email-only, or web-only).

Usage guidelines

All products.

Examples

```
(config)# create backup schedule --location local --freq
weekly --day Mon --time 01:30
```

cancel backup schedule

Cancel all schedule backups.

```
cancel backup schedule
```

Usage guidelines

All products.

delete backup

Delete any or all backup files stored locally on the appliance.

```
delete backup [--file <file_name|all>]
```

Parameter	Description
file	(Optional) Takes one of the following values: ● file_name: the name of a specific file ● all: every backup file on the appliance If the option is not used, interactive mode will be used to select files to delete.

Usage guidelines

All products.

Examples

Examples with file option:

```
(config)# delete backup --file all
Successfully deleted backup file(s)
```

```
(config)# delete backup --file backupfile123.bak
Successfully deleted backup file(s)
```

Example without file option:

```
(config)# delete backup
Backup Selection:
1) backupfile123.bak:
  Description:
  Time       : 2016-11-18_12:21
2) backupfile456.bak:
  Description:
  Time       : 2016-11-18_12:20
Please make a selection (enter 'q' to quit): 1
Successfully deleted backup file(s).
```

Log files

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show log lastline

Display the last *n* lines of the log file (limit 500).

```
show log lastline <app|email|proxy|network-
agent|web|analytics-engine> --type <audit|system> -- line
<integer>
```

Parameter	Description
type	(Required only for appliances log files) The log file type (audit or system).
line	The number of lines to display.

Usage guidelines

All products.

The type parameter is only used for appliance log files.

Examples

```
(view)# show log lastline email --line 3
```

Related commands

Command	Description
set filestore	Define a remote location to host backup and configuration files.
save log	Zip log files and save to a remote filestore.

show log realtime

Display data as it is appended to the log file.

```
show log realtime <app|email|proxy|network-
agent|web|analytics-engine> [--filter <string>] --type
<audit|system> [--timeout <integer>]
```

Parameter	Description
type	(Required only for appliances log files) The log file type (audit or system).
filter	(Optional) Literal string to match. Not a reqular expression.
timeout	(Optional) Amount of time to stream log in seconds.

Usage guidelines

All products.

The type parameter is only used for appliance log files.

Examples

```
(view)# show log realtime email --timeout 20
```

Related commands

Command	Description
set filestore	Define a remote location to host backup and configuration files.
save log	Zip log files and save to a remote filestore.

set log archive

Configure how and when log files are archived.

```
set log archive --type <system|audit|network-
agent|email|analytics-engine|api|api_request|uwsgi>
--size <integer|string> --freq <weekly|monthly|yearly>
[--max-files <#>]
```

Parameter	Description
type	The type of archive. This parameter is required.
size	The size or freq parameter must be used.
	The default unit of measurement is bytes. To instead use kilobytes or megabytes, append "k" or "m" to the size. For example:
	`(config)# set log archive --type audit --size 50m`
freq	The size or freq parameter must be used.
	Specifies a frequency interval (weekly, monthly, yearly).
max-files	(Optional) The maximum number of files to be stored.

Usage guidelines

All products.

When a log file reaches the specified maximum size (between 10 MB and 200 MB), or at the specified frequency interval, the file is archived, and a new log file is started.

The **type** parameter is required, and either the **freq** or the **size** parameter is also required**.**

Examples

```
(config)# set log archive --type audit --size 30m
```

Related commands

Command	Description
set filestore	Define a remote location to host backup and configuration files.
save log	Zip log files and save to a remote filestore.

show log archive

Display log file archiving settings.

```
show log archive --type <system|audit|email|network-
agent|api|api_request|uwsgi>
```

Parameter	Description
type	The log type whose settings will be shown.

Usage guidelines

All products.

Determine whether log files are being archived, and if so, what criteria are used to determine when older log data is archived and a new log file is started.

Examples

```
(view)# show log archive --type system
```

Related commands

Command	Description
set filestore	Define a remote location to host backup and configuration files.
save log	Zip log files and save to a remote filestore.

Diagnose

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arp

Display the kernel ARP table for the selected module.

```
arp [--module <email|proxy|web|network-agent|analytics-
engine>]
```

Parameter	Description
module	(Optional) Enter email, proxy, web, network-agent, or analytics-engine.

Usage guidelines

All products.

Examples

```
(diagnose)# arp --module web
```

Command history

Release	Modification

8.3	This command was modified. Previous commands for V Series appliances:
	 `debug-util controller`
	 `debug-util email`
	 `debug-util na`
	 `debug-util proxy`
	 `debug-util web`

email-shell_debug_mode

Run selected debug modes on this appliance.

```
email-shell_debug_mode --expression "<expressions>"
[--location <filestore_alias> | --url <url>] [--auth-
required]
```

Parameter	Description
expression	Expression must be in double quotation marks. Separate multiple entries with a comma.
location	(Optional) Remote storage location defined by the "set filestore" command.
url	(Optional) The URL of the storage location. Format: <url type>://<user>@<ip or hostname>/<filepath>
auth-required	(Optional) Used with URL option to specify that a password is needed.

Usage guidelines

Email only.

Press Ctrl+C to end the debug.

Examples

```
(diagnose)# email-shell_debug_module
--expression "filter event all" --location liftp
```

ethtool

Display the current Ethernet card settings. Use ethtool to verify local network connectivity.

```
ethtool --interface <interface> [--show-offload] [--module
<email|proxy|web|network-agent|analytics-engine>]
```

Parameter	Description
interface	The interface name. Use the *ifconfig* command to see valid interface options.
show-offload	(Optional) Show the state of the protocol offload and other features.
module	(Optional) Enter email, proxy, web, network-agent, or analytics-engine.

Usage guidelines

All products.

Examples

```
(diagnose)# ethtool --interface p1
```

Command history

Release	Modification

8.3	This command was modified. Previous commands for V Series appliances:
	```debug-util controller```
	```debug-util email```
	```debug-util na```
	```debug-util proxy```
	```debug-util web```

ifconfig

Display the status of the currently active network interfaces. Use ifconfig to troubleshoot network interface issues or to identify IP issues.

```
ifconfig [--interface <interface>][--module
<email|proxy|web|network-agent|analytics-engine>]
```

Parameter	Description
interface	(Optional) Any existing interface.
module	(Optional) Enter email, proxy, web, network-agent, or analytics-engine.

Usage guidelines

All products.

Examples

```
(diagnose)# ifconfig --interface e1
```

Command history

Release	Modification

8.3	This command was modified. Previous commands for V Series appliances:
	 `debug-util controller`
	 `debug-util email`
	 `debug-util na`
	 `debug-util proxy`
	 `debug-util web`

nc

Netcat (nc) attempts to read and write data across the network to the specified server using the specified protocol.

Use netcat for functional tests of components and verification of connectivity.

```
nc --protocol <tcp|udp> --dest <ipv4_address|hostname>
--port <port_number> --module [<email|proxy|web|network-
agent|analytics-engine>]
```

Parameter	Description
protocol	Uses the TCP or UDP protocol to read and write data.
dest	The IPv4 address or hostname of the server.
port	Port number of the server.
module	Enter email, proxy, web, network-agent, or analytics-engine.

Usage guidelines

All products.

If you are having problems loading a web page or are getting a block, this command can help determine the problem.

If you see a reset coming from the proxy, you can determine which DOM/module it is coming from.

Examples

```
(diagnose)# nc --protocol tcp --dest 10.10.10.10 --port 22
--module email
```

Command history

Release	Modification

8.3	This command was modified. Previous commands for V Series appliances:
	`debug-util controller`
	`debug-util email`
	`debug-util na`
	`debug-util proxy`
	`debug-util web`

netstat

Print network connections routing tables, interface statistics, and so on.

```
netstat [--module <email|proxy|web|network-agent|analytics-
engine>]
```

Parameter	Description
module	(Optional) Enter email, proxy, web, network-agent, or analytics-engine.

Usage guidelines

All products.

Examples

```
(diagnose)# netstat --module web
```

Related commands

Command	Description

nslookup

Obtain DNS information for the specified host. Use nslookup to troubleshoot DNS resolution problems.

```
nslookup --host <ipv4_address|hostname> [--dns-server
<ipv4_address|hostname>] [--module <email|proxy|web|network-
agent|analytics-engine>]
```

Parameter	Description
host	The IPv4 address or hostname to be resolved.
dns-server	(Optional) The IPv4 address or hostname of the DNS server.
module	(Optional) Enter email, proxy, web, network-agent, or analytics-engine.

Usage guidelines

All products.

Examples

```
(diagnose)# nslookup --host 10.10.10.10 --dns-server
20.20.20.20 --module proxy
```

ping/ping6

Verify that a hostname or IP address exists and can accept requests from the selected module, and that DNS is resolving.

Use ping and ping6 to test connectivity with the specified hostname or IP address.

```
ping [--interface <c|n|p1|p2|e1|e2>] --dest
<ipv4_addr|hostname> [--module <email|proxy|web|network-
agent|analytics-engine>]
ping6 [--interface <c|n|p1|p2|e1|e2>] --dest
<ipv6_addr|hostname>[--module <email|proxy|web|network-
agent|analytics-engine>]
```

Parameter	Description
dest	The IPv4 (ping) or IPv6 (ping6) IP address or hostname with which to test connectivity.
interface	(Optional) The appliance interface. All valid interfaces can be usd including virtual interfaces.
module	(Optional) If interface C, N, P1, P2, E1, or E2 is chosen, it will be converted to the virtual interface and a message explaining this will be output.

Usage guidelines

All products.

Use Ctrl+C to quit.

Examples

```
(diagnose)# ping --dest 10.10.10.10 --module proxy
--interface eth0
```

route/route6

Display the contents of the selected module's kernel IP routing table entries in numeric format. Use route and route6 in complex network environments to see if the environment is set up properly.

```
route [--module <email|proxy|web|network-agent|analytics-
engine>]
```

```
route6[--module <email|proxy|web|network-agent|analytics-
engine>]
```

Parameter	Description
module	(Optional) Enter email, proxy, web, network-agent, or analytics-engine.

Usage guidelines

All products.

Examples

```
(diagnose)# route --module network-agent
```

tcpdump

Display information about packets from the specified network interface, for packets matching the specified Boolean expression.

Use tcpdump to determine whether all routing is occurring properly, to and from the interface.

```
tcpdump --timeout <timeout value> [--file <filename>] [--
interface <interface>] [--expression <filter expression>] [-
-location <filestore_alias>] [--url <storage_url>] [--auth-
required]
```

Parameter	Description
timeout	The amount of time (in seconds) to run tcpdump before outputting results.
file	(Optional) Name of the tcpdump packet capture file located in the filestore.

Parameter	Description
interface	(Optional) The existing interface on which to capture. For example, C, P1, eth0, wcg.eth0.
expression	(Optional) A Boolean expression used to select the packets of interest.
location	(Optional) Save the output file to a filestore.
url	(Optional) The URL to which the tcpdump will be saved, if adding from a URL rather than from a filestore. Format: `<url type>://` `<user>@<ip or hostname>/<filepath>`
auth-required	(Optional) Use with the **url** parameter to specify whether a password is needed.

Usage guidelines

All products.

URL parameter examples

To capture all TCP traffic to and from the proxy on port 8080, specify:

```
"tcp port 8080"
```

To capture all TCP traffic to the site google.com, specify:

```
"tcp and dst host google.com"
```

To capture all TCP traffic from a specific end-user machine, specify:

```
"tcp and src host user.example.com"
```

You can enter a hostname if it is resolvable by a DNS server, but the output uses IP addresses.

Examples

```
(diagnose)# tcpdump --timeout 5 --interface eth0
```

top

Display all Linux processes that are currently running in the selected module. Use top to help diagnose CPU and memory issues.

```
(diagnose)# top [--module <email|proxy|web|network-
agent|analytics-engine>]
```

Parameter	Description
module	(Optional) The appliance module.

Usage guidelines

All products.

Examples

```
(diagnose)# top --module proxy
```

traceroute/traceroute6

Display the route used by packets to reach the specified destination.

```
traceroute  --dest <ipv4_address|hostname> [--module
<email|proxy|web|network-agent|analytics-engine>]


traceroute6 --dest <ipv6_addr|hostname>[--module
<email|proxy|web|network-agent|analytics-engine>]
```

Parameter	Description
dest	The destination (enter an IP address or a host name).
module	The appliance module (email, proxy, web, network-agent, or analytics-engine).

Usage guidelines

All products.

If some machines are not receiving policy enforcement, or if traffic is not getting to the appliance, this displays the devices (or hops) that are between the machines that may be blocking access to the host. Use **tcpdump** to get a packet capture from each device. If you are having latency issues, traceroute can also help identify potential causes. Note: Traceroute is of limited usefulness if an IP address is being spoofed.

Examples

```
(diagnose)# traceroute --dest www.mywebsite.com
 --module proxy


(diagnose)# traceroute6 --dest 1234:5678::8765::4321
 --module email
```

wget

Test connectivity with the specified URL (file download not supported).

```
wget --url <url> [--module <email|proxy|web|network-
agent|analytics-engine>]
```

Parameter	Description
url	The URL to which to test connectivity.
module	The appliance module.

Usage guidelines

Supports non-interactive download of web pages to help diagnose connectivity issues.

Use wget, for example, if you have configured the proxy, but cannot access the Web. wget simulates the proxy going out and retrieving content at the specified URL.

This command supports HTTP, HTTPS, and FTP.

Examples

```
(diagnose)# wget --module email --url www.mywebsite.net
```

wget-proxy

Test connectivity between the specified URL and the proxy (file download not supported).

```
wget-proxy --url <url> --proxy-ip <proxy_ip> --port <port>
[--proxy-user <user_name>] [--module <email|proxy|web|network-
agent|analytics-engine>]
```

Parameter	Description
url	The URL of the website to which you want to test connectivity.
proxy-ip	The proxy IP address. This is the IP address of the P1 interface on most appliance configurations.
port	The port on which the proxy expects traffic. 8080 is configured for HTTP by default.
proxy-user	(Optional) The user name of the client, if required for authentication.
module	(Optional) The appliance module.

Usage guidelines

All products.

Examples

```
(diagnose)# wget-proxy --module web --port 8080 --proxy-ip
10.206.4.47 --url www.google.com --proxy-user myuser
```

"Get" commands

get debugging

Get the module's logging level status.

```
get debugging --module <proxy|email|web|network-agent>
--command <status>
```

Parameter	Description
command	status
module	Choose email, proxy, network-agent, or web

Usage guidelines

All products.

The only value for the --command parameter is "status"

Examples

```
(diagnose)# get debugging --module proxy --command status
```

get proxy content_line

Run the Content Gateway Content Line command.

```
get proxy content_line
```

Usage guidelines

Content Gateway only.

Examples

```
(diagnose)# get proxy content_line
```

get proxy network_check

Runs a network check against the Proxy.

```
get proxy network_check
```

Usage guidelines

Content Gateway only.

Examples

```
(diagnose)# get proxy network_check
```

get proxy policy_engine

Display the status of the Content Gateway instance of Policy Engine.

```
get proxy policy_engine
```

Usage guidelines

Content Gateway only.

Examples

```
(diagnose)# get proxy policy_engine
```

get proxy print_bypass

Prints the Proxy's bypass entries.

```
get proxy print_bypass
```

Usage guidelines

Content Gateway only.

Examples

```
(diagnose)# get proxy print_bypass
```

get web cache_users

Retrieves the status of caching of users.

```
get web cache_users
```

Usage guidelines

Web only.

Examples

```
(diagnose)# get web cache_users
```

get web policy_broker

Retrieves information from the Policy Broker.

```
get web policy_broker
```

Usage guidelines

Web only.

Examples

```
(diagnose)# get web policy_broker
```

get web usr_grp_ip_prec

Retrieves the status of User Group IP Precedence.

```
get web usr_grp_ip_prec
```

Usage guidelines

Web only.

Examples

```
(diagnose)# get web usr_grp_ip_prec
```

get email dig_output

Run the DIG command.

```
get email dig_output --entry <ip_address|domain name>
--type <mx|txt|x>
```

Parameter	Description
entry	Location to run DIG against.
type	Option to be passed to.

Usage guidelines

Email only.

Examples

```
(diagnose)# get email dig_output --entry 10.206.6.13
--type mx
```

get email log

Retrieve the specified log file.

```
get email log --alias <filestore alias> --file <filename>
```

Parameter	Description
alias	Filestore location for the file.
file	Name of the file to download.

Usage guidelines

Email only.

Examples

```
(diagnose)# get email log --alias liftp --file maillog
```

get email log_list

Retrieve the list of log files that can be downloaded to a filestore.

```
get email log_list
```

Usage guidelines

Email only.

Examples

```
(diagnose)# get email log_list
```

get email pem

Download the PEM files to a filestore.

```
get email pem --alias <filestore alias>
```

Parameter	Description
alias	Filestore location for the file.

Usage guidelines

Email only.

Examples

```
(diagnose)# get email pem --alias liftp
```

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Ansible

Version 2.1.0.0

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Version 1.3

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Crypt Blowfish

Version 2.1

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Version 9.49.30

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JRE

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Kernel

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Nisedit

Version 2.0.3

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NRPE – Nagios Remote Plugin Executor

Version 2.15

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Python-daemon

Version 1.6.5

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Python-lockfile

Version 0.9.1

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Python-Perf

Version 4.8.4

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Pyutmp

Version 0.2.1

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Socks Server 5

Version 3.8.9

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Sshpass

Version 1.05

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Wxpython

Version 2.9

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Yum-utils

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