



CHAPTER 15

Working With Configuration Files

This chapter describes how to use commands that show, copy, and erase the configuration file. It contains the following sections:

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Displaying the Current Configuration

Use the **show configuration** or the **more current-config** command to display the contents of the current configuration.

To display the contents of the current configuration, follow these steps:

Step 1 Log in to the CLI.

Step 2 Display the current configuration:

```
sensor# show configuration
! -----
! Version 5.1(0.7)
! Current configuration last modified Thu Jul 14 21:49:58 2005
! -----
display-serial
! -----
service interface
exit
! -----
service analysis-engine
exit
! -----
service authentication
exit
! -----
```

```

service event-action-rules rules0
exit
! -----
service host
network-settings
host-ip 10.89.149.27/25,10.89.149.126
host-name sensor
telnet-option enabled
access-list 10.0.0.0/8
access-list 64.0.0.0/8
exit
time-zone-settings
offset 0
standard-time-zone-name UTC
exit
exit
! -----
service logger
exit
! -----
service network-access
user-profiles test
exit
exit
! -----
service notification
exit
! -----
service signature-definition sig0
signatures 60000 0
alert-severity medium
sig-fidelity-rating 75
sig-description
sig-name My Sig
sig-string-info My Sig Info
sig-comment Sig Comment
exit
engine string-tcp
event-action produce-alert
direction to-service
regex-string My Regex String
service-ports 23
exit
event-counter
event-count 1
event-count-key Axxx
specify-alert-interval no
exit
alert-frequency
summary-mode summarize
summary-interval 15
summary-key Axxx
specify-global-summary-threshold yes
global-summary-threshold 75
exit
exit
exit
exit
! -----
service ssh-known-hosts
exit
! -----
service trusted-certificates

```

```

exit
! -----
service web-server
exit
sensor#

```

Displaying the Current Submode Configuration

Use the **show settings** command in a submode to display the current configuration of that submode.

To display the current configuration of a submode, follow these steps:

Step 1 Log in to the CLI.

Step 2 Display the current configuration of the service analysis engine submode:

```

sensor# configure terminal
sensor(config)# service analysis-engine
sensor(config-ana)# show settings
  global-parameters
  -----
  ip-logging
  -----
  max-open-iplog-files: 20 <defaulted>
  -----
  -----
  virtual-sensor (min: 1, max: 255, current: 1)
  -----
  <protected entry>
  name: vs0 <defaulted>
  -----
  description: default virtual sensor <defaulted>
  signature-definition: sig0 <protected>
  event-action-rules: rules0 <protected>
  physical-interface (min: 0, max: 999999999, current: 0)
  -----
  logical-interface (min: 0, max: 999999999, current: 0)
  -----
  -----
sensor(config-ana)# exit
sensor(config)# exit
sensor#

```

Step 3 Display the current configuration of the service anomaly detection submode:

```

sensor(config)# service anomaly-detection ad0
sensor(config-ano)# show settings
  worm-timeout: 600 seconds <defaulted>
  learning-accept-mode
  -----
  auto
  -----
  action: rotate <defaulted>
  schedule
  -----
  periodic-schedule

```

```

-----
      start-time: 10:00:00 <defaulted>
      interval: 24 hours <defaulted>
-----
-----
internal-zone
-----
enabled: true <defaulted>
ip-address-range: 0.0.0.0 <defaulted>
tcp
-----
dst-port (min: 0, max: 65535, current: 0)
-----
-----
default-thresholds
-----
scanner-threshold: 100 <defaulted>
threshold-histogram (min: 0, max: 3, current: 3)
-----
<protected entry>
dest-ip-bin: low <defaulted>
num-source-ips: 10 <defaulted>
<protected entry>
dest-ip-bin: medium <defaulted>
num-source-ips: 1 <defaulted>
<protected entry>
dest-ip-bin: high <defaulted>
num-source-ips: 1 <defaulted>
-----
-----
enabled: true <defaulted>
-----
udp
-----
dst-port (min: 0, max: 65535, current: 0)
-----
-----
default-thresholds
-----
scanner-threshold: 100 <defaulted>
threshold-histogram (min: 0, max: 3, current: 3)
-----
<protected entry>
dest-ip-bin: low <defaulted>
num-source-ips: 10 <defaulted>
<protected entry>
dest-ip-bin: medium <defaulted>
num-source-ips: 1 <defaulted>
<protected entry>
dest-ip-bin: high <defaulted>
num-source-ips: 1 <defaulted>
-----
-----
enabled: true <defaulted>
-----
other
-----
protocol-number (min: 0, max: 255, current: 0)
-----
-----
default-thresholds
-----

```

```

scanner-threshold: 100 <defaulted>
threshold-histogram (min: 0, max: 3, current: 3)
-----
  <protected entry>
  dest-ip-bin: low <defaulted>
  num-source-ips: 10 <defaulted>
  <protected entry>
  dest-ip-bin: medium <defaulted>
  num-source-ips: 1 <defaulted>
  <protected entry>
  dest-ip-bin: high <defaulted>
  num-source-ips: 1 <defaulted>
-----
enabled: true <defaulted>
-----
illegal-zone
-----
enabled: true <defaulted>
ip-address-range: 0.0.0.0 <defaulted>
tcp
-----
dst-port (min: 0, max: 65535, current: 0)
-----
default-thresholds
-----
scanner-threshold: 100 <defaulted>
threshold-histogram (min: 0, max: 3, current: 3)
-----
  <protected entry>
  dest-ip-bin: low <defaulted>
  num-source-ips: 10 <defaulted>
  <protected entry>
  dest-ip-bin: medium <defaulted>
  num-source-ips: 1 <defaulted>
  <protected entry>
  dest-ip-bin: high <defaulted>
  num-source-ips: 1 <defaulted>
-----
enabled: true <defaulted>
-----
udp
-----
dst-port (min: 0, max: 65535, current: 0)
-----
default-thresholds
-----
scanner-threshold: 100 <defaulted>
threshold-histogram (min: 0, max: 3, current: 3)
-----
  <protected entry>
  dest-ip-bin: low <defaulted>
  num-source-ips: 10 <defaulted>
  <protected entry>
  dest-ip-bin: medium <defaulted>
  num-source-ips: 1 <defaulted>
  <protected entry>
  dest-ip-bin: high <defaulted>
  num-source-ips: 1 <defaulted>
-----

```

```

-----
enabled: true <defaulted>
-----
other
-----
protocol-number (min: 0, max: 255, current: 0)
-----
default-thresholds
-----
scanner-threshold: 100 <defaulted>
threshold-histogram (min: 0, max: 3, current: 3)
-----
<protected entry>
dest-ip-bin: low <defaulted>
num-source-ips: 10 <defaulted>
<protected entry>
dest-ip-bin: medium <defaulted>
num-source-ips: 1 <defaulted>
<protected entry>
dest-ip-bin: high <defaulted>
num-source-ips: 1 <defaulted>
-----
enabled: true <defaulted>
-----
external-zone
-----
enabled: true <defaulted>
tcp
-----
dst-port (min: 0, max: 65535, current: 0)
-----
default-thresholds
-----
scanner-threshold: 100 <defaulted>
threshold-histogram (min: 0, max: 3, current: 3)
-----
<protected entry>
dest-ip-bin: low <defaulted>
num-source-ips: 10 <defaulted>
<protected entry>
dest-ip-bin: medium <defaulted>
num-source-ips: 1 <defaulted>
<protected entry>
dest-ip-bin: high <defaulted>
num-source-ips: 1 <defaulted>
-----
enabled: true <defaulted>
-----
udp
-----
dst-port (min: 0, max: 65535, current: 0)
-----
default-thresholds
-----
scanner-threshold: 100 <defaulted>
threshold-histogram (min: 0, max: 3, current: 3)
-----
<protected entry>

```

```

dest-ip-bin: low <defaulted>
num-source-ips: 10 <defaulted>
<protected entry>
dest-ip-bin: medium <defaulted>
num-source-ips: 1 <defaulted>
<protected entry>
dest-ip-bin: high <defaulted>
num-source-ips: 1 <defaulted>
-----
enabled: true <defaulted>
-----
other
-----
protocol-number (min: 0, max: 255, current: 0)
-----
default-thresholds
-----
scanner-threshold: 100 <defaulted>
threshold-histogram (min: 0, max: 3, current: 3)
-----
<protected entry>
dest-ip-bin: low <defaulted>
num-source-ips: 10 <defaulted>
<protected entry>
dest-ip-bin: medium <defaulted>
num-source-ips: 1 <defaulted>
<protected entry>
dest-ip-bin: high <defaulted>
num-source-ips: 1 <defaulted>
-----
enabled: true <defaulted>
-----
ignore
-----
enabled: true <defaulted>
source-ip-address-range: 0.0.0.0 <defaulted>
dest-ip-address-range: 0.0.0.0 <defaulted>
-----
sensor(config-ano)# exit
sensor(config)# exit
sensor# exit

```

Step 4 Display the current configuration of the service authentication submode:

```

sensor# configure terminal
sensor(config)# service authentication
sensor(config-aut)# show settings
  attemptLimit: 0 <defaulted>
sensor(config-aut)# exit
sensor(config)# exit
sensor#

```

Step 5 Display the current configuration of the service event action rules submode:

```

sensor# configure terminal
sensor(config)# service event-action-rules rules0
sensor(config-rul)# show settings
  variables (min: 0, max: 256, current: 0)
-----

```

```

overrides (min: 0, max: 12, current: 0)
-----
filters (min: 0, max: 4096, current: 0 - 0 active, 0 inactive)
-----
general
-----
  global-overrides-status: Enabled <defaulted>
  global-filters-status: Enabled <defaulted>
  global-summarization-status: Enabled <defaulted>
  global-metaevent-status: Enabled <defaulted>
  global-deny-timeout: 3600 <defaulted>
  global-block-timeout: 30 <defaulted>
  max-denied-attackers: 10000 <defaulted>
-----
target-value (min: 0, max: 5, current: 0)
-----

sensor(config-rul)# exit
sensor(config)# exit
sensor# exit

```

Step 6 Display the current configuration of the external product interface submode:

```

sensor(config)# service external-product-interface
sensor(config-ext)# show settings
  cisco-security-agents-mc-settings (min: 0, max: 2, current: 0)
  -----

sensor(config-ext)# exit
sensor(config)# exit
sensor#

```

Step 7 Display the current configuration of the service host submode:

```

sensor# configure terminal
sensor(config)# service host
sensor(config-hos)# show settings
  network-settings
  -----
  host-ip: 10.89.149.27/25,10.89.149.126 default: 10.1.9.201/24,10.1.9.1
  host-name: sensor default: sensor
  telnet-option: enabled default: disabled
  access-list (min: 0, max: 512, current: 2)
  -----
    network-address: 10.0.0.0/8
    -----
    network-address: 64.0.0.0/8
    -----

  ftp-timeout: 300 seconds <defaulted>
  login-banner-text: <defaulted>
  -----
  time-zone-settings
  -----
    offset: 0 minutes default: 0
    standard-time-zone-name: UTC default: UTC
  -----
  ntp-option
  -----
  disabled
  -----
  -----

```

```

summertime-option
-----
disabled
-----
-----
auto-upgrade-option
-----
disabled
-----
-----
crypto
-----
key (min: 0, max: 10, current: 2)
-----
<protected entry>
name: realm-cisco.pub <defaulted>
type
-----
rsa-pubkey
-----
length: 2048 <defaulted>
exponent: 65537 <defaulted>
modulus: 24442189989357747083874855335232628843599968934198559648
63019947387841151932503911172668940194754549155390407658020393330611891292508300
85940304031186014499632568812428068058089581614196337399623060624990057049103055
90153955935086060008679776808073640186063435723252375575293126304558068704301863
80562114437439289069456670922074995827390284761610591515752008405140243673083189
77822469964934598367010389389888297490802884118543730076293589703535912161993319
47093130298688830012547215572646349623539468838641064915313947806852904082351955
13217273138099965383039716130153270715220046567107828128924197692417332033911704
3 <defaulted>
-----
-----
<protected entry>
name: realm-trend.pub <defaulted>
type
-----
rsa-pubkey
-----
length: 2048 <defaulted>
exponent: 65537 <defaulted>
modulus: 21765561422573021314159855351418723031625093380777053696
63817289527060570932551065489818190713745672148260527030060667208366606603802679
30439066724143390626495479300550101618179584637287052936465692146572612651375969
20354521585644221602944203520804404212975401970895119903756769601133853673296766
45289795777973491984056587045214514820063366950731346400044308491594626434706999
47608668822814014830063399534204647069509052443439525363706527255224510771122235
80181150460544783251498481432705991010069844368525754878413669427639752950801767
99905309235232456295580086724203297914095984224328444391582223138423799100838191
9 <defaulted>
-----
-----
-----
sensor(config-hos)# exit
sensor(config)# exit
sensor#

```

Step 8 Display the current configuration of the service interface submode:

```

sensor# configure terminal
sensor(config)# service interface

```

```

sensor(config-int)# show settings
  physical-interfaces (min: 0, max: 999999999, current: 4)
  -----
  <protected entry>
  name: GigabitEthernet0/0 <defaulted>
  -----
    media-type: tx <protected>
    description: <defaulted>
    admin-state: disabled <defaulted>
    duplex: auto <defaulted>
    speed: auto <defaulted>
    alt-tcp-reset-interface
    -----
      none
      -----
    -----
    subinterface-type
    -----
      none
      -----
    -----
  -----
  <protected entry>
  name: GigabitEthernet0/1 <defaulted>
  -----
    media-type: tx <protected>
    description: <defaulted>
    admin-state: disabled <protected>
    duplex: auto <defaulted>
    speed: auto <defaulted>
    alt-tcp-reset-interface
    -----
      none
      -----
    -----
    subinterface-type
    -----
      none
      -----
    -----
  -----
  <protected entry>
  name: GigabitEthernet2/0 <defaulted>
  -----
    media-type: xl <protected>
    description: <defaulted>
    admin-state: disabled <defaulted>
    duplex: auto <defaulted>
    speed: auto <defaulted>
    alt-tcp-reset-interface
    -----
      none
      -----
    -----
    subinterface-type
    -----
      none
      -----
    -----
  -----

```

```

-----
-----
<protected entry>
name: GigabitEthernet2/1 <defaulted>
-----
media-type: xl <protected>
description: <defaulted>
admin-state: disabled <defaulted>
duplex: auto <defaulted>
speed: auto <defaulted>
alt-tcp-reset-interface
-----
none
-----
-----
subinterface-type
-----
none
-----
-----
-----
command-control: GigabitEthernet0/1 <protected>
inline-interfaces (min: 0, max: 999999999, current: 0)
-----
-----
bypass-mode: auto <defaulted>
interface-notifications
-----
missed-percentage-threshold: 0 percent <defaulted>
notification-interval: 30 seconds <defaulted>
idle-interface-delay: 30 seconds <defaulted>
-----
sensor(config-int)# exit
sensor(config)# exit
sensor#

```

Step 9 Display the current configuration for the service logger submode:

```

sensor# configure terminal
sensor(config)# service logger
sensor(config-log)# show settings
master-control
-----
enable-debug: false <defaulted>
individual-zone-control: false <defaulted>
-----
zone-control (min: 0, max: 999999999, current: 14)
-----
<protected entry>
zone-name: Cid
severity: debug <defaulted>
<protected entry>
zone-name: AuthenticationApp
severity: warning <defaulted>
<protected entry>
zone-name: Cli
severity: warning <defaulted>
<protected entry>
zone-name: csi
severity: warning <defaulted>
<protected entry>

```

```

zone-name: ctlTransSource
severity: warning <defaulted>
<protected entry>
zone-name: IdapiCtlTrans
severity: warning <defaulted>
<protected entry>
zone-name: IdsEventStore
severity: warning <defaulted>
<protected entry>
zone-name: MpInstaller
severity: warning <defaulted>
<protected entry>
zone-name: nac
severity: warning <defaulted>
<protected entry>
zone-name: sensorApp
severity: warning <defaulted>
<protected entry>
zone-name: tls
severity: warning <defaulted>
<protected entry>
zone-name: intf
severity: warning <defaulted>
<protected entry>
zone-name: cmgr
severity: warning <defaulted>
<protected entry>
zone-name: cplane
severity: warning <defaulted>
-----
sensor(config-log)# exit
sensor(config)# exit
sensor#

```

Step 10 Display the current configuration for the service network access submode:

```

sensor# configure terminal
sensor(config)# service network-access
sensor(config-net)# show settings
general
-----
log-all-block-events-and-errors: true <defaulted>
enable-nvram-write: false <defaulted>
enable-acl-logging: false <defaulted>
allow-sensor-block: false <defaulted>
block-enable: true <defaulted>
block-max-entries: 250 <defaulted>
max-interfaces: 250 <defaulted>
rate-limit-max-entries: 250 <defaulted>
master-blocking-sensors (min: 0, max: 100, current: 0)
-----
never-block-hosts (min: 0, max: 250, current: 0)
-----
never-block-networks (min: 0, max: 250, current: 0)
-----
block-hosts (min: 0, max: 250, current: 0)
-----
block-networks (min: 0, max: 250, current: 0)
-----

```

```

-----
user-profiles (min: 0, max: 250, current: 1)
-----
  profile-name: test
  -----
  enable-password: <hidden>
  password: <hidden>
  username: <defaulted>
  -----
cat6k-devices (min: 0, max: 250, current: 0)
-----
router-devices (min: 0, max: 250, current: 0)
-----
firewall-devices (min: 0, max: 250, current: 0)
-----
sensor(config-net)# exit
sensor(config)# exit
sensor#

```

Step 11 Display the current configuration for the notification submode:

```

sensor# configure terminal
sensor(config)# service notification
sensor(config-not)# show settings
  trap-destinations (min: 0, max: 10, current: 0)
  -----
  error-filter: error|fatal <defaulted>
  enable-detail-traps: false <defaulted>
  enable-notifications: false <defaulted>
  enable-set-get: false <defaulted>
  snmp-agent-port: 161 <defaulted>
  snmp-agent-protocol: udp <defaulted>
  read-only-community: public <defaulted>
  read-write-community: private <defaulted>
  trap-community-name: public <defaulted>
  system-location: Unknown <defaulted>
  system-contact: Unknown <defaulted>
sensor(config-not)# exit
sensor(config)# exit
sensor#

```

Step 12 Display the current configuration for the signature definition submode:

```

sensor# configure terminal
sensor(config)# service signature-definition sig0
sensor(config-sig)# show settings
  variables (min: 0, max: 256, current: 1)
  -----
  <protected entry>
  variable-name: WEBPORTS
  -----
  web-ports: 80-80,3128-3128,8000-8000,8010-8010,8080-8080,8888-8888,2432
6-24326 <defaulted>
  -----
  application-policy
  -----
  http-policy
  -----

```


Filtering the Current Configuration Output

Use the **more** *keyword* | [**begin** | **exclude** | **include**] *regular-expression* command to search the output of the more command.

The following options apply:

- *keyword*—Either the current-config or the backup-config.
 - **current-config**—The current running configuration. This configuration becomes persistent as the commands are entered.
 - **backup-config**—The storage location for the configuration backup file.
- |—The pipe symbol indicates that an output processing specification follows.
- **begin**—Begins unfiltered output of the **more** command with the first line that contains the regular expression specified.
- **exclude**—Excludes lines in the output of the **more** command that contain a particular regular expression.
- **include**—Includes only the lines in the output of the **more** command that contain the regular expression you specify.
- *regular-expression*—Any regular expression found in the **more** command output.



Note The *regular-expression* option is case sensitive and allows for complex matching requirements.

To filter the more command, follow these steps:

-
- Step 1** Log in to the CLI using an account with administrator privileges.
 - Step 2** Filter the current-config output beginning with the regular expression “ip,” for example.

```
sensor# more current-config | begin ip
generating current config:
host-ip 10.89.149.185/25,10.89.149.254
host-name sensor
telnet-option enabled
access-list 10.0.0.0/8
access-list 64.0.0.0/8
exit
time-zone-settings
offset 0
standard-time-zone-name UTC
exit
exit
! -----
service interface
exit
! -----
service logger
master-control
enable-debug true
exit
exit
! -----
service network-access
general
log-all-block-events-and-errors true
```

--MORE--



Note Press **CTRL-C** to stop the output and return to the CLI prompt.

Step 3 Exclude the regular expression “ip” from the current-config output:

```
sensor# more current-config | exclude ip
generating current config:
! -----
! Version 5.0(0.27)
! Current configuration last modified Fri Feb 11 15:10:57 2005
! -----
service analysis-engine
virtual-sensor vs0
physical-interface FastEthernet0/1
exit
exit
! -----
service authentication
exit
! -----
service event-action-rules rules0
exit
! -----
service host
network-settings
host-name sensor
telnet-option enabled
access-list 10.0.0.0/8
access-list 64.0.0.0/8
exit
time-zone-settings
--MORE--
```



Note Press **CTRL-C** to stop the output and return to the CLI prompt.

Step 4 Include the regular expression “ip” in the current-config output:

```
sensor# more current-config | include ip
generating current config:
host-ip 10.89.149.185/25,10.89.149.254
engine atomic-ip
```

Filtering the Current Submode Configuration Output

Use the `show settings | [begin | exclude | include] regular_expression` command in the submode you are interested in to search or filter the output of the contents of the submode configuration.

The following options apply:

- |—The pipe symbol indicates that an output processing specification follows.
- **begin**—Begins unfiltered output of the `show settings` command with the first line that contains the regular expression specified.

- **exclude**—Excludes lines in the output of the **show settings** command that contain a particular regular expression.
- **include**—Includes only the lines in the output of the **show settings** command that contain the regular expression you specify.
- *regular_expression*—Any regular expression found in the **show settings** command output.



Note The *regular_expression* option is case sensitive and allows for complex matching requirements.

To search or filter the output of the contents of the submode configuration, follow these steps:

Step 1 Log in to the CLI using an account with administrator privileges.

Step 2 Search the output of the event action rules settings for the regular expression, “filters,” for example.

```
sensor# configure terminal
sensor(config)# service event-action-rules
sensor(config-rul)# show settings | begin filters
filters (min: 0, max: 4096, current: 0 - 0 active, 0 inactive)
-----
general
-----
global-overrides-status: Enabled <defaulted>
global-filters-status: Enabled <defaulted>
global-summarization-status: Enabled <defaulted>
global-metaevent-status: Enabled <defaulted>
global-deny-timeout: 3600 <defaulted>
global-block-timeout: 15 default: 30
max-denied-attackers: 10000 <defaulted>
-----
target-value (min: 0, max: 5, current: 0)
-----
sensor(config-rul)#
```

Step 3 Filter the output of the network access settings to exclude the regular expression:

```
sensor# configure terminal
sensor(config)# service network-access
sensor(config-net)# show settings | exclude false
general
-----
log-all-block-events-and-errors: true default: true
block-enable: true default: true
block-max-entries: 11 default: 250
max-interfaces: 13 default: 250
master-blocking-sensors (min: 0, max: 100, current: 1)
-----
ipaddress: 10.89.149.124
-----
password: <hidden>
port: 443 default: 443
tls: true default: true
username: cisco default:
-----
never-block-hosts (min: 0, max: 250, current: 1)
-----
ip-address: 10.89.146.112
```

```

-----
-----
never-block-networks (min: 0, max: 250, current: 1)
-----
ip-address: 88.88.88.0/24
--MORE--

```

Step 4 Filter the output of the host settings to include the regular expression “ip”:

```

sensor# configure terminal
sensor(config)# service host
sensor(config-hos)# show settings | include ip
host-ip: 10.89.149.185/25,10.89.149.254 default: 10.1.9.201/24,10.1.9.1
sensor(config-hos)#

```

Displaying the Contents of a Logical File

Use the **more** *keyword* command to display the contents of a logical file, such as the current system configuration or the saved backup system configuration.

The following options apply:

- *keyword*—Either the **current-config** or the **backup-config**.
 - **current-config**—The current running configuration. This configuration becomes persistent as the commands are entered.
 - **backup-config**—The storage location for the configuration backup file.



Note

Operators and viewers can only display the current configuration. Only administrators can view hidden fields such as passwords.

You can disable the more prompt in **more current-config** or **more backup-config** by setting the terminal length to zero using the **terminal length 0** command. The **more** command then displays the entire file content without pausing.

To display the contents of a logical file, follow these steps:

Step 1 Log in to the CLI using an account with administrator privileges.

Step 2 Display the contents of the current configuration file:

```

sensor# more current-config
Generating current config:

```

The current configuration is displayed.

```

! -----
! Version 5.1(0.7)
! Current configuration last modified Thu Jul 14 21:49:58 2005
! -----
display-serial
! -----
service interface
exit
! -----
service analysis-engine

```

```
exit
! -----
service authentication
exit
! -----
service event-action-rules rules0
exit
! -----
service host
network-settings
host-ip 10.89.149.27/25,10.89.149.126
host-name sensor
telnet-option enabled
access-list 10.0.0.0/8
access-list 64.0.0.0/8
exit
time-zone-settings
offset 0
standard-time-zone-name UTC
exit
exit
! -----
service logger
exit
! -----
service network-access
user-profiles test
exit
exit
! -----
service notification
exit
! -----
service signature-definition sig0
signatures 60000 0
alert-severity medium
sig-fidelity-rating 75
sig-description
sig-name My Sig
sig-string-info My Sig Info
sig-comment Sig Comment
exit
engine string-tcp
event-action produce-alert
direction to-service
regex-string My Regex String
service-ports 23
exit
event-counter
event-count 1
event-count-key Axxx
specify-alert-interval no
exit
alert-frequency
summary-mode summarize
summary-interval 15
summary-key Axxx
specify-global-summary-threshold yes
global-summary-threshold 75
exit
exit
exit
exit
exit
```

```

! -----
service ssh-known-hosts
exit
! -----
service trusted-certificates
exit
! -----
service web-server
exit
sensor#

```

For More Information

For the procedure for using the **terminal** command, see [Modifying Terminal Properties](#), page 16-15.

Copying and Restoring the Configuration File Using a Remote Server

Use the **copy** [**/erase**] *source_url destination_url keyword* command to copy the configuration file to a remote server. You can then restore the current configuration from the remote server. You are prompted to back up the current configuration first.

**Note**

We recommend copying the current configuration file to a remote server before upgrading.

The following options apply:

- **/erase**—Erases the destination file before copying.
This keyword only applies to the current-config; the backup-config is always overwritten. If this keyword is specified for destination current-config, the source configuration is applied to the system default configuration. If it is not specified for the destination current-config, the source configuration is merged with the current-config.
- *source_url*—The location of the source file to be copied. It can be a URL or keyword.
- *destination_url*—The location of the destination file to be copied. It can be a URL or a keyword.

The exact format of the source and destination URLs varies according to the file. Here are the valid types:

- **ftp**—Source or destination URL for an FTP network server. The syntax for this prefix is:
ftp:[//[username@] location]/relativeDirectory/filename
ftp:[//[username@]location]//absoluteDirectory/filename
- **scp**—Source or destination URL for the SCP network server. The syntax for this prefix is:
scp:[//[username@] location]/relativeDirectory/filename
scp:[//[username@] location]//absoluteDirectory/filename

**Note**

If you use FTP or SCP protocol, you are prompted for a password. If you use SCP protocol, you must also add the remote host to the SSH known hosts list.

- **http:**—Source URL for the web server. The syntax for this prefix is:
http://[username@]location[/directory]/filename
- **https:**—Source URL for the web server. The syntax for this prefix is:
https://[username@]location[/directory]/filename



Note HTTP and HTTPS prompt for a password if a username is required to access the website. If you use HTTPS protocol, the remote host must be a TLS trusted host.

The following keywords are used to designate the file location on the sensor:

- **current-config**—The current running configuration. The configuration becomes persistent as the commands are entered.
- **backup-config**—The storage location for the configuration backup.



Caution

Copying a configuration file from another sensor may result in errors if the sensing interfaces and virtual sensors are not configured the same.

To back up and restore your current configuration, follow these steps:

Step 1 Log in to the CLI using an account with administrator privileges.

Step 2 To back up the current configuration to the remote server:

```
sensor# copy scp://user@10.1.1.1//configuration/cfg current-config
Password: *****
Warning: Copying over the current configuration may leave the box in an unstable state.
Would you like to copy current-config to backup-config before proceeding? [yes]:
```

Step 3 Enter **yes** to copy the current configuration to a backup configuration:

```
cfg          100% |*****| 36124          00:00

Warning: Replacing existing network-settings may leave the box in an unstable state.
Would you like to replace existing network
settings(host-ipaddress/netmask/gateway/access-list) on sensor before proceeding? [no]:
sensor#
```

Step 4 Enter **no** so the sensor does not replace the existing configuration.

For More Information

- For the procedure for adding the remote host to the SSHM known host list, see [Adding Hosts to the SSH Known Hosts List, page 4-40](#).
- For the procedure for adding the remote host to the TLS trusted hosts list, see [Adding TLS Trusted Hosts, page 4-45](#).

Creating and Using a Backup Configuration File

To protect your configuration, you can back up the current configuration and then display it to confirm that is the configuration you want to save. To restore this configuration, merge the backup configuration file with the current configuration or overwrite the current configuration file with the backup configuration file.

To back up your current configuration, follow these steps:

Step 1 Log in to the CLI using an account with administrator privileges.

Step 2 Save the current configuration:

```
sensor# copy current-config backup-config
```

The current configuration is saved in a backup file.

Step 3 Display the backup configuration file:

```
sensor# more backup-config
```

The backup configuration file is displayed.

Step 4 You can either merge the backup configuration with the current configuration, or you can overwrite the current configuration.

- To merge the backup configuration into the current configuration:

```
sensor# copy backup-config current-config
```

- To overwrite the current configuration with the backup configuration:

```
sensor# copy /erase backup-config current-config
```

Erasing the Configuration File

Use the **erase {backup-config | current-config}** command to delete a logical file.

The following options apply:

- **current-config**—The current running configuration. The configuration becomes persistent as the commands are entered.
- **backup-config**—The storage location for the configuration backup.

To erase the current configuration and return all settings back to the default, follow these steps:

Step 1 Log in to the CLI using an account with administrator privileges.

```
sensor# erase current-config
```

```
Warning: Removing the current-config file will result in all configuration being reset to default, including system information such as IP address.
```

```
User accounts will not be erased. They must be removed manually using the "no username" command.
```

```
Continue? []:
```

Step 2 Press **Enter** to continue or enter **no** to stop.
