



## System Administration

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## System Changes that Cause Firepower Chassis Manager Sessions to be Closed

The following system changes can cause the system to automatically log you out of Firepower Chassis Manager:

- If you modify the system time by more than 10 minutes.
- If the system is rebooted or shut down using Firepower Chassis Manager or the FXOS CLI.
- If you upgrade the FXOS version on Firepower 4100/9300 chassis.
- If you enable or disable FIPS or Common Criteria mode.



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**Note**

In addition to the above changes, you are automatically logged out of the system if a certain period of time passes without any activity. By default, the system will log you out after 10 minutes of inactivity. To configure this timeout setting, see [Configuring the Session Timeout](#). You can also configure an absolute timeout setting that will log users out of the system after a certain period of time even if the session is active. To configure the absolute timeout setting, see [Configuring the Absolute Session Timeout](#).

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# Changing the Management IP Address

## Before you begin

You can change the management IP address on the Firepower 4100/9300 chassis from the FXOS CLI.




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**Note** After changing the management IP address, you will need to reestablish any connections to Firepower Chassis Manager or the FXOS CLI using the new address.

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## Procedure

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- Step 1** Connect to the FXOS CLI (see [Accessing the FXOS CLI](#)).
- Step 2** To configure an IPv4 management IP address:
- Set the scope for fabric-interconnect a:  
Firepower-chassis# **scope fabric-interconnect a**
  - To view the current management IP address, enter the following command:  
Firepower-chassis /fabric-interconnect # **show**
  - Enter the following command to configure a new management IP address and gateway:  
Firepower-chassis /fabric-interconnect # **set out-of-band ip ip\_address netmask network\_mask gw gateway\_ip\_address**
  - Commit the transaction to the system configuration:  
Firepower-chassis /fabric-interconnect\* # **commit-buffer**
- Step 3** To configure an IPv6 management IP address:
- Set the scope for fabric-interconnect a:  
Firepower-chassis# **scope fabric-interconnect a**
  - Set the scope for management IPv6 configuration:  
Firepower-chassis /fabric-interconnect # **scope ipv6-config**
  - To view the current management IPv6 address, enter the following command:  
Firepower-chassis /fabric-interconnect/ipv6-config # **show ipv6-if**
  - Enter the following command to configure a new management IP address and gateway:  
Firepower-chassis /fabric-interconnect/ipv6-config # **set out-of-band ipv6 ipv6\_address ipv6-prefix prefix\_length ipv6-gw gateway\_address**
- Note** Only IPv6 Global Unicast addresses are supported as the chassis's IPv6 management address.
- Commit the transaction to the system configuration:

```
Firepower-chassis /fabric-interconnect/ipv6-config* # commit-buffer
```

### Example

The following example configures an IPv4 management interface and gateway:

```
Firepower-chassis# scope fabric-interconnect a
Firepower-chassis /fabric-interconnect # show

Fabric Interconnect:
  ID   OOB IP Addr      OOB Gateway      OOB Netmask      OOB IPv6 Address OOB IPv6 Gateway
  Prefix Operability
  -----
  A    192.0.2.112     192.0.2.1       255.255.255.0   ::              ::
  64   Operable
Firepower-chassis /fabric-interconnect # set out-of-band ip 192.0.2.111 netmask 255.255.255.0
gw 192.0.2.1
Warning: When committed, this change may disconnect the current CLI session
Firepower-chassis /fabric-interconnect* #commit-buffer
Firepower-chassis /fabric-interconnect #
```

The following example configures an IPv6 management interface and gateway:

```
Firepower-chassis# scope fabric-interconnect a
Firepower-chassis /fabric-interconnect # scope ipv6-config
Firepower-chassis /fabric-interconnect/ipv6-config # show ipv6-if

Management IPv6 Interface:
  IPv6 Address      Prefix      IPv6 Gateway
  -----
  2001::8998       64         2001::1
Firepower-chassis /fabric-interconnect/ipv6-config # set out-of-band ipv6 2001::8999
ipv6-prefix 64 ipv6-gw 2001::1
Firepower-chassis /fabric-interconnect/ipv6-config* # commit-buffer
Firepower-chassis /fabric-interconnect/ipv6-config #
```

## Changing the Application Management IP

You can change the management IP address on the application(s) attached to your Firepower 4100/9300 chassis from the FXOS CLI. To do so, you must first change the IP information at the FXOS platform level, then change the IP information at the application level.



**Note** Changing the application management IP will result in a service interruption.

## Procedure

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**Step 1** Connect to the FXOS CLI. (See [Accessing the FXOS CLI](#)).

**Step 2** Scope to the logical device:

**scope ssa**

**scope logical-device** *logical\_device\_name*

**Step 3** Scope to the management bootstrap and configure the new management bootstrap parameters. Note that there are differences between deployments:

For standalone configuration of an ASA logical device:

a) Enter the logical device management bootstrap:

**scope mgmt-bootstrap** *asa*

b) Enter the IP mode for the slot:

**scope ipv4\_or\_6** *slot\_number* **default**

c) (IPv4 only) Set the new IP address:

**set ip** *ipv4\_address* **mask** *network\_mask*

d) (IPv6 only) Set the new IP address:

**set ip** *ipv6\_address* **prefix-length** *prefix\_length\_number*

e) Set the gateway address:

**set gateway** *gateway\_ip\_address*

f) Commit the configuration:

**commit-buffer**

For a clustered configuration of ASA logical devices:

a) Enter the cluster management bootstrap:

**scope cluster-bootstrap** *asa*

b) (IPv4 only) Set the new virtual IP:

**set virtual ipv4** *ip\_address* **mask** *network\_mask*

c) (IPv6 only) Set the new virtual IP:

**set virtual ipv6** *ipv6\_address* **prefix-length** *prefix\_length\_number*

d) Set the new IP pool:

**set ip pool** *start\_ip* *end\_ip*

e) Set the gateway address:

**set gateway** *gateway\_ip\_address*

f) Commit the configuration:

**commit-buffer**

For standalone and clustered configurations of Firepower Threat Defense:

- a) Enter the logical device management bootstrap:  
**scope mgmt-bootstrap** *ftd*
- b) Enter the IP mode for the slot:  
**scope ipv4\_or\_6** *slot\_number* *firepower*
- c) (IPv4 only) Set the new IP address:  
**set ip** *ipv4\_address* **mask** *network\_mask*
- d) (IPv6 only) Set the new IP address:  
**set ip** *ipv6\_address* **prefix-length** *prefix\_length\_number*
- e) Set the gateway address:  
**set gateway** *gateway\_ip\_address*
- f) Commit the configuration:  
**commit-buffer**

**Note** For a clustered configuration, you must set the new IP address for each application attached to the Firepower 4100/9300 chassis. If you have an inter-chassis cluster or a HA configuration, you must repeat these steps for each application on both chassis.

**Step 4** Clear the management bootstrap information for each application:

- a) Scope to ssa mode:  
**scope ssa**
- b) Scope to the slot:  
**scope slot** *slot\_number*
- c) Scope to the application instance:  
**scope app-instance** *asa\_or\_ftd*
- d) Clear the management bootstrap information:  
**clear-mgmt-bootstrap**
- e) Commit the configuration:  
**commit-buffer**

**Step 5** Disable the application:

**disable**  
**commit-buffer**

**Note** For a clustered configuration, you must clear and disable the management bootstrap information for each application attached to the Firepower 4100/9300 chassis. If you have an inter-chassis cluster or a HA configuration, you must repeat these steps for each application on both chassis.

**Step 6** When the application is offline and the slot comes online again, re-enable the application.

- a) Scope back to ssa mode:

**scope ssa**

- b) Scope to the slot:

**scope slot** *slot\_number*

- c) Scope to the application instance:

**scope app-instance** *asa\_or\_fd*

- d) Enable the application:

**enable**

- e) Commit the configuration:

**commit-buffer**

**Note** For a clustered configuration, you must repeat these steps to re-enable each application attached to the Firepower 4100/9300 chassis. If you have an inter-chassis cluster or a HA configuration, you must repeat these steps for each application on both chassis.

## Changing the Firepower 4100/9300 Chassis Name

You can change the name used for your Firepower 4100/9300 chassis from the FXOS CLI.

### Procedure

**Step 1** Connect to the FXOS CLI (see [Accessing the FXOS CLI](#)).

**Step 2** Enter the system mode:

Firepower-chassis-A# **scope system**

**Step 3** To view the current name:

Firepower-chassis-A /system # **show**

**Step 4** To configure a new name:

Firepower-chassis-A /system # **set name** *device\_name*

**Step 5** Commit the transaction to the system configuration:

Firepower-chassis-A /fabric-interconnect\* # **commit-buffer**

### Example

The following example changes the devices name:

```
Firepower-chassis-A# scope system
```

```

Firepower-chassis-A /system # set name New-name
Warning: System name modification changes FC zone name and redeploys them non-disruptively
Firepower-chassis-A /system* # commit-buffer
Firepower-chassis-A /system # show

Systems:
  Name           Mode           System IP Address System IPv6 Address
  -----
  New-name      Stand Alone   192.168.100.10    ::
New-name-A /system #

```

## Install a Trusted Identity Certificate

After initial configuration, a self-signed SSL certificate is generated for use with the Firepower 4100/9300 chassis web application. Because that certificate is self-signed, client browsers do not automatically trust it. The first time a new client browser accesses the Firepower 4100/9300 chassis web interface, the browser will throw an SSL warning, requiring the user to accept the certificate before accessing the Firepower 4100/9300 chassis. You can use the following procedure to generate a Certificate Signing Request (CSR) using the FXOS CLI and install the resulting identity certificate for use with the Firepower 4100/9300 chassis. This identity certificate allows a client browser to trust the connection, and bring up the web interface with no warnings.

### Procedure

- 
- Step 1** Connect to the FXOS CLI. (See [Accessing the FXOS CLI](#)).
- Step 2** Enter the security module:  
**scope security**
- Step 3** Create a keyring:  
**create keyring** *keyring\_name*
- Step 4** Set a modulus size for the private key:  
**set modulus** *size*
- Step 5** Commit the configuration:  
**commit-buffer**
- Step 6** Configure the CSR fields. The certificate can be generated with basic options (for example, a subject-name), and optionally more advanced options that allow information like locale and organization to be embedded in the certificate. Note that when you configure the CSR fields, the system prompts for a certificate password.  
**create certreq subject-name** *subject\_name*  
*password*  
**set country** *country*  
**set state** *state*  
**set locality** *locality*  
**set org-name** *organization\_name*

```
set org-unit-name organization_unit_name
```

```
set subject-name subject_name
```

**Step 7** Commit the configuration:

```
commit-buffer
```

**Step 8** Export the CSR to provide to your certificate authority. The certificate authority uses the CSR to create your identity certificate.

a) Show the full CSR:

```
show certreq
```

b) Copy the output starting with (and including) "-----BEGIN CERTIFICATE REQUEST-----", ending with (and including) "-----END CERTIFICATE REQUEST-----":

**Example:**

```
-----BEGIN CERTIFICATE REQUEST-----
MIIC6zCCAdMCAQAwdzELMAkGA1UEBhMCVVMxEzARBgNVBAgMCkNhbg1mb3JuaWEw
ETAPBgNVBACMFNhb3N1MRYwFAYDVQQKDA1DaXNjb3BteXN0ZW1zMQwwCgYD
VQQLDANUQUxGjAYBgNVBAMMEWZwNDEyMC50ZXN0LmXvY2F5MIIBIjANBgkqhkiG
9w0BAQEFAAOCAQ8AMIIBCgKCAQEAs0ON5gagkfZ2fi4JVEANG+7YGgcHbnUt7LpV
yMChnKOPJjBwkUMNQAlmQsRQDcbJ232/sK0fMSnyqOL8JzC7itxeVEZRyz7/ax7W
GNveg/XP+zd03nt4GXM63FsrPcPmA7EwgqDSLoShtBEV10hhf4+Nw4pKCZ+eSSkS
JkTB1ZHaKV9bttYg3kf/UEUUGk/EyrVq3B+u2DsooPVq76mTm8BwYmQhBjEv4Pmu
RjWE88yEvVwH7JTEij9OvxbatjDjVSHZBURtCanvyBvGuLP/Q/Nmv3Lo3G9ITbL
L5gIYZVatTxp6HTUezH2MIiZ0avU6d1tB9rnyxgGth5dPV0dhQIDAQABOC8wLQYJ
KoZlHvcNAQkOMSAWhjAcBgNVHREEFTATghFmcDQxMjAudGVzdC5sb2NhbDANBgkq
hkiG9w0BAQsFAAOCAQEAAZUfCbwx9vt5aVdCL+tATu5xFE3LA310ck6Gj1Nv6W/6r
jBNLxusYi1rZZcW+CgnvNs4ArqYGyNVBySOavJO/VvQ1KfyxxJ10Ikyx3RzEjgK0
zzyoyrG+EZXC5ShiraS8HuWvE2wFM2wwWntHWtvcQy55+/hDPD2Bv8pQOC2Zng3I
kLfg1dxWf1xAxLzf5J+AuIQ0CM5HzM9Zm8zREoWT+xHtLSqAgg/aCuomN9/vEwyU
OYfoJmVAgC6AZyUmMfUfCoyuLpLwgkxBOgyaRdnea5RhiGjYQ21DXyDjEXp7rCx9
+6bvD11n70JCegHdCwtP75SaNyaBEPk00365rTckbw==
-----END CERTIFICATE REQUEST-----
```

**Step 9** Exit the certreq mode:

```
exit
```

**Step 10** Exit the keyring mode:

```
exit
```

**Step 11** Provide the CSR output to the Certificate Authority in accordance with the Certificate Authority's enrollment process. If the request is successful, the Certificate Authority sends back an identity certificate that has been digitally signed using the CA's private key.

**Step 12** **Note** All identity certificates must be in Base64 format to be imported into FXOS. If the identity certificate chain received from the Certificate Authority is in a different format, you must first convert it with an SSL tool such as OpenSSL.

Create a new trustpoint to hold the identity certificate chain.

```
create trustpoint trustpoint_name
```

**Step 13** Enter the identity certificate chain you received from the Certificate Authority in step 11, following the instructions on screen.



**Note** For a Certificate Authority that uses intermediate certificates, the root and intermediate certificates must be combined. In a text file, paste the root certificate at the top, followed by each intermediate certificate in the chain, including all BEGIN CERTIFICATE and END CERTIFICATE flags. Copy and paste that entire text block into the trustpoint.

### set certchain

#### Example:

```
firepower /security/trustpoint* # set certchain
Enter lines one at a time. Enter ENDOFBUF to finish. Press ^C to abort.
Trustpoint Certificate Chain:
>-----BEGIN CERTIFICATE-----
>MIICDTCCABOgAwIBAgIQYIutxPDPw6BOP3uKNgJHZDAKBggqhkjOPQDAjBTMRUw
>EwYKZCZImiZPyLQBGRYFbG9jYWwxGDAWBgoJkiaJk/IsZAEZFghuYWF1c3RpbjEg
>MB4GA1UEAxMXbmFhdXN0aW4tTkFBVVNUSU4tUEMtQ0EwHhcNMTUwNzI4MTc1NjU2
>WhcNMjAwNzI4MTgwNjU2WjBTMRUwEwYKZCZImiZPyLQBGRYFbG9jYWwxGDAWBgoJ
>kiaJk/IsZAEZFghuYWF1c3RpbjEgMB4GA1UEAxMXbmFhdXN0aW4tTkFBVVNUSU4t
>UEMtQ0EwWTATBgcqhkiOjOPQIBBgqhkjOPQMBBwNCAASvEA27V1Enq1gMtLkvJ6rx
>GXRpxWIEyuiBM4eQRoqZKnkeJUkm1xmqlubaDHPJ5TMGfJQYszLBRJpq+mdrKcDl
>o2kwZzATBgkrBgEEAYI3FAIEBh4EAEMAQTAOBgNVHQ8BAf8EBAMCAYYwDwYDVR0T
>AQH/BAUwAwEB/zAdBgNVHQ4EFgQUyInbDHPPrFwEEBcbxGSgQW7pOVIkwEAYJKwYB
>BAGCNxUBBAMCAQAwCgYIKoZIzjOEAwIDSAAwRQIhAP++QJTUmniB/AxPDDN63Lqy
>18odMDoFTkG4p3Tb/2yMAiAtMYhlsv1gCxsQVOW0xZVRugSdoOak6n7wCjTFX9jr
>RA==
>-----END CERTIFICATE-----
>ENDOFBUF
```

- Step 14** Commit the configuration:  
**commit-buffer**
- Step 15** Exit the trustpoint mode:  
**exit**
- Step 16** Enter the keyring mode:  
**scope keyring** *keyring\_name*
- Step 17** Associate the trustpoint created in step 13 with the keyring that was created for the CSR:  
**set trustpoint** *trustpoint\_name*
- Step 18** Import the signed identity certificate for the server.  
**set cert**
- Step 19** Paste the contents of the identity certificate provided by the Certificate authority:

#### Example:

```
Enter lines one at a time. Enter ENDOFBUF to finish. Press ^C to abort.
Keyring certificate:
>-----BEGIN CERTIFICATE-----
>MIIE8DCCBJagAwIBAgITRQAAAArehlUWgiTzvgAAAAACjAKBggqhkjOPQDAjBT
>MRUwEwYKZCZImiZPyLQBGRYFbG9jYWwxGDAWBgoJkiaJk/IsZAEZFghuYWF1c3RpbjEg
>MB4GA1UEAxMXbmFhdXN0aW4tTkFBVVNUSU4tUEMtQ0EwHhcNMTUwNzI4MTc1NjU2
>WhcNMjAwNzI4MTgwNjU2WjBTMRUwEwYKZCZImiZPyLQBGRYFbG9jYWwxGDAWBgoJ
>kiaJk/IsZAEZFghuYWF1c3RpbjEgMB4GA1UEAxMXbmFhdXN0aW4tTkFBVVNUSU4t
>UEMtQ0EwWTATBgcqhkiOjOPQIBBgqhkjOPQMBBwNCAASvEA27V1Enq1gMtLkvJ6rx
>GXRpxWIEyuiBM4eQRoqZKnkeJUkm1xmqlubaDHPJ5TMGfJQYszLBRJpq+mdrKcDl
>o2kwZzATBgkrBgEEAYI3FAIEBh4EAEMAQTAOBgNVHQ8BAf8EBAMCAYYwDwYDVR0T
>AQH/BAUwAwEB/zAdBgNVHQ4EFgQUyInbDHPPrFwEEBcbxGSgQW7pOVIkwEAYJKwYB
>BAGCNxUBBAMCAQAwCgYIKoZIzjOEAwIDSAAwRQIhAP++QJTUmniB/AxPDDN63Lqy
>18odMDoFTkG4p3Tb/2yMAiAtMYhlsv1gCxsQVOW0xZVRugSdoOak6n7wCjTFX9jr
>RA==
>-----END CERTIFICATE-----
>ENDOFBUF
```

```

>BwdudS3sulXIwKGo48mMHCQRw1ADWZCxFANxsnbfb+wrR8xKfKo4vvnMLuK3F5U
>RlHLPv9rHtYY296D9c/7N3Tee3gZczrcWys9w+YDsTCCoNIuhKG0ERXSGF/j43D
>ikoJn55JKRImRMHVkdopX1u21iDeR/9QRRSCT8TKtWrcH67YOyig9WrvqZObwHBg
>yodskS/g+a5GNYTzzIS9Xafs1MSKP06/Ftq2MONVIkdkFRG0Jqe/IG8a4s/9D82a
>/cujcb0hNssvmAhh1Vq1PGnodNR7MfYwgjM5q9Tp3W0H2ufLGAA2H109XR2FAGMB
>AAGjggJYMIICVDACBgNVHREEFTATghFmcDQxMjAudGVzdC5sb2NhbDAdBgNVHQ4E
>FgQU/1WpstiEYExs8D1ZWcuHZwPtU5QwHwYDVR0jBBGwFoAUyInbDHPFwEEBcbx
>GSgQW7pOVIkwgdwGA1UdHwSB1DCB0TCBzqCBY6CByIaBxWxkYXA6Ly8vQ049bmFh
>dXN0aW4tTkFBVVNUSU4tUEMtQ0EsQ049bmFhdXN0aW4tcGMsQ049Q0RQLENOPVB1
>YmXpYyUyMEtleSUyMFN1cnZpY2VzLENOPVN1cnZpY2VzLENOPUNvbmZpZ3VyYXRp
>b24sREM9bmFhdXN0aW4sREM9bG9jYWwvY2VydGlmawNhdGVsZXZvY2F0aW9uTG1z
>dD9iYXN1P29iamVjdENsYXNzPWNSTERpc3RyaWJldGlvb1BvaW50MIHMBGgrBgEF
>BQcBAQSBvzCBvDCBuQYIKwYBBQUHMAKGaxsZGFwOi8vL0NOPW5hYXVzdGluLU5B
>QVVTVE1OLVBDLUNBLENOPUFJQSxDTj1QdWJsaWMLMjBLZXk1MjBTZXJ2aWN1cyxD
>Tj11TZXJ2aWN1cyxDTj1Db25maWd1cmF0aW9uLERDPW5hYXVzdGluLERDPWxvY2Fs
>P2NBQ2VydGlmawNhdGU/YmFzZT9vYmplY3RDdbGFzc21jZXJ0aWZpY2F0aW9uQXV0
>aG9yaXR5MCEGCSsGAQQBqjcuUAgQUHhIAVwB1AGIAUwB1AHIAdgB1AHIwDgYDVR0P
>AQH/BAQDAgWgMBMGA1UdJQOMMAoGCCsGAQUFBwMBMAoGCCqGSM49BAMCA0gAMEUC
>IFew7NcJirEtfRvxyjkQ4/dVo2oI6CRB308WQbYHNUu/AiEA7UdObiSJBG/PBZjm
>sgoIK60akbjotTvUdUd9b6K1Uw=
>-----END CERTIFICATE-----
>ENDOFBUF

```

**Step 20** Exit the keyring mode:

```
exit
```

**Step 21** Exit the security mode:

```
exit
```

**Step 22** Enter the system mode:

```
scope system
```

**Step 23** Enter the services mode:

```
scope services
```

**Step 24** Configure the FXOS web service to use the new certificate:

```
set https keyring keyring_name
```

**Step 25** Commit the configuration:

```
commit-buffer
```

**Step 26** Display the keyring associated with the HTTPS server. It should reflect the keyring name created in step 3 of this procedure. If the screen output displays the default keyring name, the HTTPS server has not yet been updated to use the new certificate:

```
show https
```

**Example:**

```

fp4120 /system/services # show https
Name: https
  Admin State: Enabled
  Port: 443
  Operational port: 443
  Key Ring: firepower_cert
  Cipher suite mode: Medium Strength

```

```
Cipher suite: ALL:!ADH:!EXPORT40:!EXPORT56:!LOW:!RC4:!MD5:!IDEA:+HIGH:+MEDIUM:+EXP:+eNULL
```

**Step 27** Display the contents of the imported certificate, and verify that the **Certificate Status** value displays as **Valid**:  
**scope security**

**show keyring** *keyring\_name* **detail**

**Example:**

```
fp4120 /security # scope security
fp4120 /security # show keyring firepower_cert detail
Keyring firepower_cert:
  RSA key modulus: Mod2048
  Trustpoint CA: firepower_chain
Certificate status: Valid
Certificate:
Data:
  Version: 3 (0x2)
  Serial Number:
    45:00:00:00:0a:de:86:55:16:82:24:f3:be:00:00:00:00:00:0a
  Signature Algorithm: ecdsa-with-SHA256
  Issuer: DC=local, DC=naaustin, CN=naaustin-NAAUSTIN-PC-CA
  Validity
    Not Before: Apr 28 13:09:54 2016 GMT
    Not After : Apr 28 13:09:54 2018 GMT
  Subject: C=US, ST=California, L=San Jose, O=Cisco Systems, OU=TAC,
CN=fp4120.test.local
  Subject Public Key Info:
    Public Key Algorithm: rsaEncryption
    Public-Key: (2048 bit)
    Modulus:
      00:b3:43:8d:e6:06:a0:91:f6:76:7e:2e:09:54:40:
      0d:1b:ee:d8:1a:07:07:6e:75:2d:ec:ba:55:c8:c0:
      a1:9c:a3:8f:26:30:70:91:43:0d:40:0d:66:42:c4:
      50:0d:c6:c9:db:7d:bf:b0:ad:1f:31:29:f2:a8:e2:
      fc:27:30:bb:8a:dc:5e:54:46:51:cb:3e:ff:6b:1e:
      d6:18:db:de:83:f5:cf:fb:37:74:de:7b:78:19:73:
      3a:dc:5b:2b:3d:c3:e6:03:b1:30:82:a0:d2:2e:84:
      a1:b4:11:15:d7:48:61:7f:8f:8d:c3:8a:4a:09:9f:
      9e:49:29:12:26:44:c1:d5:91:da:29:5f:5b:b6:d6:
      20:de:47:ff:50:45:14:82:4f:c4:ca:b5:6a:dc:1f:
      ae:d8:3b:28:a0:f5:6a:ef:a9:93:9b:c0:70:60:ca:
      87:6c:91:2f:e0:f9:ae:46:35:84:f3:cc:84:bd:5c:
      07:ec:94:c4:8a:3f:4e:bf:16:da:b6:30:e3:55:22:
      47:64:15:11:b4:26:a7:bf:20:6f:1a:e2:cf:fd:0f:
      cd:9a:fd:cb:a3:71:bd:21:36:cb:2f:98:08:61:95:
      5a:b5:3c:69:e8:74:d4:7b:31:f6:30:82:33:39:ab:
      d4:e9:dd:6d:07:da:e7:cb:18:06:b6:1e:5d:3d:5d:
      1d:85
    Exponent: 65537 (0x10001)
  X509v3 extensions:
    X509v3 Subject Alternative Name:
      DNS:fp4120.test.local
    X509v3 Subject Key Identifier:
      FF:55:A9:B2:D8:84:60:4C:6C:F0:39:59:59:CB:87:67:03:ED:BB:94
    X509v3 Authority Key Identifier:
      keyid:C8:89:DB:0C:73:EB:17:01:04:05:C6:F1:19:28:10:5B:BA:4E:54:89
    X509v3 CRL Distribution Points:
      Full Name:
        URI:ldap:///CN=naaustin-NAAUSTIN-PC-CA,CN=naaustin-pc,CN=CDP,
          CN=Public%20Key%20Services,CN=Services,CN=Configuration,DC=naaustin,
          DC=local?certificateRevocationList?base?objectClass=cRLDistributionPoint
```

```

Authority Information Access:
  CA Issuers - URI:ldap:///CN=naaustin-NAAUSTIN-PC-CA,CN=AIA,
  CN=Public%20Key%20Services,CN=Services,CN=Configuration,DC=naaustin,
  DC=local?cACertificate?base?objectClass=certificationAuthority
1.3.6.1.4.1.311.20.2:
  ...W.e.b.S.e.r.v.e.e.r
X509v3 Key Usage: critical
  Digital Signature, Key Encipherment
X509v3 Extended Key Usage:
  TLS Web Server Authentication
Signature Algorithm: ecdsa-with-SHA256
  30:45:02:20:57:b0:ec:d7:09:8a:b1:2d:15:1b:f2:c6:39:10:
  e3:f7:55:a3:6a:08:e8:24:41:df:4f:16:41:b6:07:35:4b:bf:
  02:21:00:ed:47:4e:6e:24:89:04:6f:cf:05:98:e6:b2:0a:08:
  2b:ad:1a:91:b8:e8:b4:e4:ef:51:d5:1d:f5:be:8a:d5:4c

```

```

-----BEGIN CERTIFICATE-----
MIIE8DCBjAgAwIBAgITRQAAAhUWgiTzvgAAAAACjAKBgqhkjOPQDAjBT
MRUwEwYKCZImiZPyLQGByYFBG9jYWwxGDAWBgoJkiaJk/IsZAEZFghuYWF1c3Rp
bjEgMB4GA1UEAxMXb2FhdXN0aW4tTtkFBVNUU4tUEMTQ0EwHhcNMjYwNDI4MTMw
OTU0WhcNMjYwNDI4MTMwOTU0WjB3MQswCQYDVQQLSEwJVUzETMBEGA1UECBMkQ2Fs
aWZvcn5pYTERMA8GA1UEBxMIU2FuIEpvc2UxLjFjAUBGNVBAOTDUNpc2NvIFN5c3Rl
bXMxMjYwNDI4MTMwOTU0WjB3MQswCQYDVQQLSEwJVUzETMBEGA1UECBMkQ2Fs
aWZvcn5pYTERMA8GA1UEBxMIU2FuIEpvc2UxLjFjAUBGNVBAOTDUNpc2NvIFN5c3Rl
MA0GCScqGSIb3DQEBAQUAA4IBDwAwggEKAoIBAQcZQ43mBqCR9nZ+LglUA0b7tga
BwdudS3sulXIwKGO48mMHCRCw1ADWZCxFANxsnbf+wrR8xKfKo4vvnMLuK3F5U
R1HLPv9rHtYY296D9c/7N3Tee3gZczrcWys9w+YDsTCCoNIuhKG0ERXXSGF/j43D
ikoJn55JKRImRMHVkdopX1u21iDeR/9QRRSCT8TKTWrcH67Y0yig9WrvqZObwHbG
yodskS/g+a5GNyTzZIS9XAfslMSPkP6/Ftq2MONVIkdkFRG0Jqe/IG8a4s/9D82a
/cujcb0hNssvmAhh1Vq1PGnodNR7mfYwgjM5q9Tp3W0H2ufLGAA2H109XR2FAgMB
AAGjggJYMIICVDAcBgNVHREFTATghFmcDQxMjAudGVzdC5sb2NhbdAdBgNVHQ4E
FgQU/1WpstiEYExs8D1ZWcuHwZPt5QwHwYDVR0jBBGwFoAUyInbDHPFrFwEEBcbx
GSgQW7pOVIkwgdwGA1UdHwSB1DCB0TCBzqCBy6CByIaBxWxkYXA6Ly8vQ049bmFh
dXN0aW4tTtkFBVNUU4tUEMTQ0EsQ049bmFhZXR0eS049bG90RQ0LENOPVB1
YmxpYyYyMEtleSUyMFE1cnZpY2VzLENOPVN1cnZpY2VzLENOPUNvbmZpZ3V5YXRp
b24sREM9bmFhdXN0aW4sREM9bG9jYWw/Y2VydG1maWVhdGVzZXZvY2F0aW9uTG1z
dD9iYXNlP29iamVjdENsYXNzPWNSTERpc3RyaWJ1dG1vb1BvaW50MIHBMGRBgEF
BQcBAQSBvzCBvDCBUQYIKwYBBQUHMAKGGaxsZGFwoi8vLONOPW5hYXVzdGluLU5B
QVVVTE1OLVBDLUNBLENOPUFJQSxDTj1QdWJsaWw1MjY0bG1vbmJBTZXJ2aWNlcXhD
Tj1TZzJ2aWw1cyxDTj1Db25maWd1cmF0aW9uLERDPW5hYXVzdGluLERDPWxvY2Fs
P2NBQ2VydG1maWVhdGU/YmFzZT9vYmZpY2F0aW9uLERDPW5hYXVzdGluLERDPWxvY2Fs
P2NBQ2VydG1maWVhdGU/YmFzZT9vYmZpY2F0aW9uLERDPW5hYXVzdGluLERDPWxvY2Fs
aG9yaXR5MCEGCSsGAQQGbjlcUAgQUHhIAVwBlAGIAUwBlAHIAadGBlAHIAWdGpYDVR0P
AQH/BAQDAgWgMBMGA1UdJQQMMAoGCCsGAQUFBwMBMAoGCCqGSM49BAMCA0gAMEUC
IFew7NcJirEtFrVyxjKQ4/dVo2oI6CRB308WQbYHNu/AiEA7UdObiSJBG/PBZjm
sgoIK60akbjotOTvUdUd9b6K1Uw=
-----END CERTIFICATE-----

```

Zeroized: No

### What to do next

To verify that the new trusted certificate is presented, navigate to the Firepower Chassis Manager by entering [https://<FQDN\\_or\\_IP>](https://<FQDN_or_IP>) in the address bar of a web browser.



**Note** Browsers also verify the subject-name of a certificate against the input in the address bar. If the certificate is issued to the fully qualified domain name, it must be accessed that way in the browser. If it is accessed via IP address, a different SSL error is thrown (Common Name Invalid) even if the trusted certificate is used.

# Auto-Import Certificate Update

When the Cisco certificate server changes its identity certificate to leverage a different root CA, the connectivity for the Smart Licensing on 4100 or 9300s running the ASA devices gets broken. Because the licensing connectivity is handled by the supervisor instead of Lina on the application, the Smart Licensing function fails. For FXOS-based devices, the issue can be resolved using the auto-import feature without an upgrade to the FXOS software.

By default, the auto-import feature is disabled. You can use the following procedure to enable the auto-import feature using the FXOS CLI.

## Before you begin

DNS server should be configured to reach the [cisco certificate server](#).

## Procedure

---

**Step 1** Connect to the FXOS CLI.

**Step 2** Enter the security module:

```
scope security
```

**Step 3** Enable the auto-import feature.

```
enter tp-auto-import
```

### Example:

```
FXOS# scope security
FXOS /security # enter tp-auto-import
FXOS /security #
```

**Step 4** Commit the configuration.

```
commit-buffer
```

**Step 5** Verify the auto-import status

```
show detail
```

### Example:

Successful auto-import:

```
FXOS /security/tp-auto-import #
FXOS /security/tp-auto-import # show detail
Trustpoints auto import source URL: http://www.cisco.com/security/pki/trs/ios_core.p7b
TrustPoints auto import scheduled time : 22:00
Last Importing Status : Success, Imported with 23 TrustPoint(s)
TrustPoints auto Import function : Enabled
FXOS /security/tp-auto-import #
```

Auto-import failure:

```
FXOS /security/tp-auto-import #
FXOS /security/tp-auto-import # show detail
Trustpoints auto import source URL: http://www.cisco.com/security/pki/trs/ios_core.p7b
TrustPoints auto import scheduled time : 22:00
```

```
Last Importing Status : Failure
TrustPoints auto Import function : Enabled
FXOS /security/tp-auto-import #
```

**Step 6** Configure the tp-auto-import feature. Set the import-time-hour.

**set import-time-hour** *hour* **import-time-min** *minutes*

**Example:**

```
FXOS /security/tp-auto-import # set
import-time-hour Trustpoints auto import hour time
FXOS /security/tp-auto-import # set import-time-hour
0-23 Import Time Hour
FXOS /security/tp-auto-import # set import-time-hour 7 import-time-min
0-59 Import Time Min
FXOS /security/tp-auto-import # set import-time-hour 7 import-time-min 20
<CR>
FXOS /security/tp-auto-import # set import-time-hour 7 import-time-min 20
FXOS /security/tp-auto-import* # commit-buffer
FXOS /security/tp-auto-import #
```

**Note** The auto-import source URL is fixed and you must change the import time detail to minute per day. Import occurs everyday on the scheduled time of the day. If hours and minutes are not set then the certificate import occurs only once while enabling it. Certificates get downloaded as a bundle into the box under the path /opt/certstore which can only be accessed through secure-login option. Along with the bundle (ios\_core.p7b), individual certificates (AutoTP1 to AutoTPn) get extracted automatically.

**Step 7** After the auto-import configuration completion, enter show detail command.

**show detail**

**Example:**

```
FXOS /security/tp-auto-import # show detail
Trustpoints auto import source URL: http://www.cisco.com/security/pki/trs/ios_core.p7b
TrustPoints auto import scheduled time : 07:20
Last Importing Status : Success, Imported with 23 TrustPoint(s)
TrustPoints auto Import function : Enabled
```

**Note** The maximum certificates that can be imported is 30. Each import re-iterates for 6 times if there is any connectivity issue to Cisco Certificate Server and then updates the last importing status in the show command.

**Step 8** (Optional) To disable the auto-import feature, enter the delete auto-import command.

**delete tp-auto-import**

**Example:**

```
FXOS /security #
FXOS /security # delete tp-auto-import
FXOS /security* # commit-buffer
FXOS /security # show detail
security mode:
Password Strength Check: No
Minimum Password Length: 8
Is configuration export key set: No
Current Task:
FXOS /security # scope tp-auto-import
Error: Managed object does not exist
FXOS /security #
```

```
FXOS /security # enter tp-auto-import
FXOS /security/tp-auto-import* # show detail
FXOS /security/tp-auto-import* #
```

**Note** If you disable the auto-import feature, certificates that are imported remain persistent till the time there is no change in the build. Certificates get removed if you disable the auto-import feature and then downgrade/upgrade the build.

---

## Pre-Login Banner

With a pre-login banner, when a user logs into Firepower Chassis Manager, the system displays the banner text and the user must click **OK** on the message screen before the system prompts for the username and password. If a pre-login banner is not configured, the system goes directly to the username and password prompt.

When a user logs into the FXOS CLI, the system displays the banner text, if configured, before it prompts for the password.

## Creating the Pre-Login Banner

### Procedure

---

- Step 1** Connect to the FXOS CLI (see [Accessing the FXOS CLI](#)).
- Step 2** Enter security mode:  
Firepower-chassis# **scope security**
- Step 3** Enter banner security mode:  
Firepower-chassis /security # **scope banner**
- Step 4** Enter the following command to create a pre-login banner:  
Firepower-chassis /security/banner # **create pre-login-banner**
- Step 5** Specify the message that FXOS should display to the user before they log into Firepower Chassis Manager or the FXOS CLI:  
Firepower-chassis /security/banner/pre-login-banner\* # **set message**  
Launches a dialog for entering the pre-login banner message text.
- Step 6** At the prompt, type a pre-login banner message. You can enter any standard ASCII character in this field. You can enter multiple lines of text with each line having up to 192 characters. Press **Enter** between lines.  
On the line following your input, type **ENDOFBUF** and press **Enter** to finish.  
Press **Ctrl** and **C** to cancel out of the set message dialog.
- Step 7** Commit the transaction to the system configuration:

```
Firepower-chassis /security/banner/pre-login-banner* # commit-buffer
```

---

### Example

The following example creates the pre-login banner:

```
Firepower-chassis# scope security
Firepower-chassis /security # scope banner
Firepower-chassis /security/banner # create pre-login-banner
Firepower-chassis /security/banner/pre-login-banner* # set message
Enter lines one at a time. Enter ENDOFBUF to finish. Press ^C to abort.
Enter prelogin banner:
>Welcome to the Firepower Security Appliance
>**Unauthorized use is prohibited**
>ENDOFBUF
Firepower-chassis /security/banner/pre-login-banner* # commit-buffer
Firepower-chassis /security/banner/pre-login-banner #
```

## Modifying the Pre-Login Banner

### Procedure

---

- Step 1** Connect to the FXOS CLI (see [Accessing the FXOS CLI](#)).
  - Step 2** Enter security mode:  
Firepower-chassis# **scope security**
  - Step 3** Enter banner security mode:  
Firepower-chassis /security # **scope banner**
  - Step 4** Enter pre-login-banner banner security mode:  
Firepower-chassis /security/banner # **scope pre-login-banner**
  - Step 5** Specify the message that FXOS should display to the user before they log into Firepower Chassis Manager or the FXOS CLI:  
Firepower-chassis /security/banner/pre-login-banner # **set message**  
Launches a dialog for entering the pre-login banner message text.
  - Step 6** At the prompt, type a pre-login banner message. You can enter any standard ASCII character in this field. You can enter multiple lines of text with each line having up to 192 characters. Press **Enter** between lines.  
On the line following your input, type **ENDOFBUF** and press **Enter** to finish.  
Press **Ctrl** and **C** to cancel out of the set message dialog.
  - Step 7** Commit the transaction to the system configuration:  
Firepower-chassis /security/banner/pre-login-banner\* # **commit-buffer**
-



### Example

The following example modifies the pre-login banner:

```
Firepower-chassis# scope security
Firepower-chassis /security # scope banner
Firepower-chassis /security/banner # scope pre-login-banner
Firepower-chassis /security/banner/pre-login-banner # set message
Enter lines one at a time. Enter ENDOFBUF to finish. Press ^C to abort.
Enter prelogin banner:
>Welcome to the Firepower Security Appliance
>**Unauthorized use is prohibited**
>ENDOFBUF
Firepower-chassis /security/banner/pre-login-banner* # commit-buffer
Firepower-chassis /security/banner/pre-login-banner #
```

## Deleting the Pre-Login Banner

### Procedure

---

- Step 1** Connect to the FXOS CLI (see [Accessing the FXOS CLI](#)).
- Step 2** Enter security mode:  
Firepower-chassis# **scope security**
- Step 3** Enter banner security mode:  
Firepower-chassis /security # **scope banner**
- Step 4** Delete the pre-login banner from the system:  
Firepower-chassis /security/banner # **delete pre-login-banner**
- Step 5** Commit the transaction to the system configuration:  
Firepower-chassis /security/banner\* # **commit-buffer**
- 

### Example

The following example deletes the pre-login banner:

```
Firepower-chassis# scope security
Firepower-chassis /security # scope banner
Firepower-chassis /security/banner # delete pre-login-banner
Firepower-chassis /security/banner* # commit-buffer
Firepower-chassis /security/banner #
```

## Rebooting the Firepower 4100/9300 Chassis

### Procedure

---

- Step 1** Choose **Overview** to open the Overview page.
  - Step 2** Click **Reboot** next to the Chassis Uptime in the upper-right corner of the Overview page.
  - Step 3** Click **Yes** to verify that you want to power off the Firepower 4100/9300 chassis.  
The system will gracefully shut down any logical devices configured on the system and then power down each security module/engine before finally powering down and then restarting the Firepower 4100/9300 chassis. This process takes approximately 15-20 minutes.
- 

## Powering Off the Firepower 4100/9300 Chassis

### Procedure

---

- Step 1** Choose **Overview** to open the Overview page.
  - Step 2** Click **Shutdown** next to the Chassis Uptime in the upper-right corner of the Overview page.
  - Step 3** Click **Yes** to verify that you want to power off the Firepower 4100/9300 chassis.  
The system will gracefully shut down any logical devices configured on the system and then power down each security module/engine before finally powering down the Firepower 4100/9300 chassis.
- 

## Restoring the Factory Default Configuration

You can use the FXOS CLI to restore your Firepower 4100/9300 chassis to factory default configuration.



**Note** This process erases all user configuration from the chassis including any logical device configuration. After completing this procedure, you will need to reconfigure the system (see [Initial Configuration](#)).

---

### Procedure

---

- Step 1** (Optional) The **erase configuration** command does not remove the Smart License configuration from the chassis. If you also want to remove the Smart License configuration, perform the following steps:  
  
`scope license`  
`deregister`

Deregistering the Firepower 4100/9300 chassis removes the device from your account. All license entitlements and certificates on the device are removed.

**Step 2** Connect to the local-management shell:

**connect local-mgmt**

**Step 3** Enter the following command to erase all user configuration from your Firepower 4100/9300 chassis and restore the chassis to its original factory default configuration:

**erase configuration**

The system prompts you to verify that you are sure you want to erase all user configuration.

**Step 4** Confirm that you want to erase the configuration by entering **yes** at the command prompt. The system will erase all user configuration from your Firepower 4100/9300 chassis and then reboot the system.

---

