Introduction to the Firepower Security Appliance

About the Firepower Security Appliance

The Cisco Firepower 4100/9300 chassis is a next-generation platform for network and content security solutions. The Firepower 4100/9300 chassis is part of the Cisco Application Centric Infrastructure (ACI) Security Solution and provides an agile, open, secure platform that is built for scalability, consistent control, and simplified management.

The Firepower 4100/9300 chassis provides the following features:

- Modular chassis-based security system—provides high performance, flexible input/output configurations, and scalability.
- Firepower Chassis Manager—graphical user interface provides streamlined, visual representation of current chassis status and simplified configuration of chassis features.
- FXOS CLI—provides command-based interface for configuring features, monitoring chassis status, and accessing advanced troubleshooting features.
- FXOS REST API—allows users to programmatically configure and manage their chassis.

Monitoring Chassis Health

You can use the **show environment summary** command to view the following pieces of information that show the overall health for the Firepower 4100/9300 chassis:

- Total Power Consumption—Total power consumed in watts.
- Inlet Temperature—Ambient system temperature in Celsius.
- CPU Temperature—Processor temperature in Celsius.
- Power Supply Type—AC or DC.
- Power Supply Input Feed Status—Input status (Ok, Fault).
- Power Supply Output Status—12V output status (Ok, Fault).

- Power Supply Overall Status—Overall health of PSU (Operable, Removed, Thermal problem).
- Fan Speed RPM—Highest RPM of both fans in single fan tray.
- Fan Speed Status—Fan speed (Slow, Ok, High, Critical).
- Fan Overall Status—Overall health of Fan (Operable, Removed, Thermal problem)
- Blade Total Power Consumption—Total power consumed by security module/engine in watts.
- Blade Processor Temperature—Highest temperature in Celsius of processors on security module/engine.

Procedure

Step 1 Connect to the FXOS CLI (see Accessing the FXOS CLI).

Step 2 Enter chassis mode:

Firepower-chassis# **scope chassis 1**

Step 3 To view a summary of the chassis health, enter the following command:

Firepower-chassis /chassis # **show environment summary**

Example

```
Firepower-chassis# scope chassis 1
Firepower-chassis /chassis # show environment summary

Chassis INFO :

Total Power Consumption: 638.000000
Inlet Temperature (C): 32.000000
CPU Temperature (C): 47.000000
Last updated Time: 2017-01-05T23:34:39.115

PSU 1:
Type: AC
Input Feed Status: Ok
12v Output Status: Ok
Overall Status: Operable
PSU 2:
Type: AC
Input Feed Status: Ok
12v Output Status: Ok
Overall Status: Operable

FAN 1
Fan Speed RPM (RPM): 3168
Speed Status: Ok
Overall Status: Operable
FAN 2
Fan Speed RPM (RPM): 3388
Speed Status: Ok
Overall Status: Operable
FAN 3
```

```
Fan Speed RPM (RPM): 3168
Speed Status: Ok
Overall Status: Operable
FAN 4
Fan Speed RPM (RPM): 3212
Speed Status: Ok
Overall Status: Operable

BLADE 1:
Total Power Consumption: 216.000000
Processor Temperature (C): 58.000000
BLADE 2:
Total Power Consumption: 222.000000
Processor Temperature (C): 62.500000
```