

# Rispondere alle domande frequenti su Firepower eXtensible Operating System (FXOS)

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## Introduzione

Questo documento descrive le domande frequenti relative alle piattaforme FXOS.

## Premesse

Firepower eXtensible Operating System (FXOS) è il sistema operativo sottostante su piattaforme Firepower o Secure Firewall. A seconda delle piattaforme, FXOS viene usato per configurare le funzionalità, monitorare lo stato dello chassis e accedere alle funzionalità avanzate di risoluzione dei problemi.

FXOS su Firepower 4100/9300 e Firepower 2100 con il software Adaptive Secure Appliance in modalità piattaforma consentono modifiche alla configurazione, mentre in altre piattaforme, ad eccezione di funzioni specifiche, è di sola lettura.

## D. Come generare Show Tech dal sistema FXOS?

A partire dalla versione 2.8.x, il modulo è deprecato. Pertanto FXOS 2.8.x supporta solo i tecnici

show per chassis e blade.

```
<#root>
```

```
KSEC-FPR4115-2-1(local-mgmt)#
```

```
show tech-support fprm detail
```

```
WARNING: show tech-support fprm detail command is deprecated.  
Please use show tech-support chassis 1 detail command instead.
```

- chassis: contiene i file di registro per chassis, blade, adattatore, BMC (Baseboard Management Controller) e CIMC (Cisco Integrated Management Controller)
- modulo: contiene i file di log per il blade/modulo in cui risiede l'appliance ASA (Adaptive Security Appliance) o l'FTD (Firepower Threat Defense) del dispositivo logico. Sono inclusi i log per componenti quali appAgent)

Nelle versioni precedenti alla 2.8.x, FXOS offre tre diverse uscite per show tech. Il bundle FPRM contiene i file di log per i moduli di input/output di gestione (MIO), il Supervisor Engine, e Service Manager.

In genere, vengono generati tutti e tre i pacchetti. Utilizzare il dettaglio show tech-support <option> per generare i tre diversi pacchetti di log per l'analisi TAC:

```
<#root>
```

```
FPR4140-A# connect local-mgmt
```

```
FPR4140-A(local-mgmt)#
```

```
show tech-support fprm detail
```

```
FPR4140-A(local-mgmt)#
```

```
show tech-support chassis 1 detail
```

```
FPR4140-A(local-mgmt)#
```

```
show tech-support module 1 detail
```

- Se non si specifica l'opzione detail, l'output viene visualizzato sullo schermo
- L'opzione Corpo (Detail) consente di creare un file tar

Per controllare i nomi file generati:

```
<#root>
```

```
FPR4140-A(local-mgmt)#
```

```
dir techsupport/
```

```
1 15595520 Apr 09 17:29:10 2017 20170409172722_FPR4140_FPRM.tar
1 962560 Apr 09 17:32:20 2017 20170409172916_FPR4140_BC1_all.tar
1 7014400 Apr 09 18:06:25 2017 Firepower-Module1_04_09_2017_18_05_59.tar
```

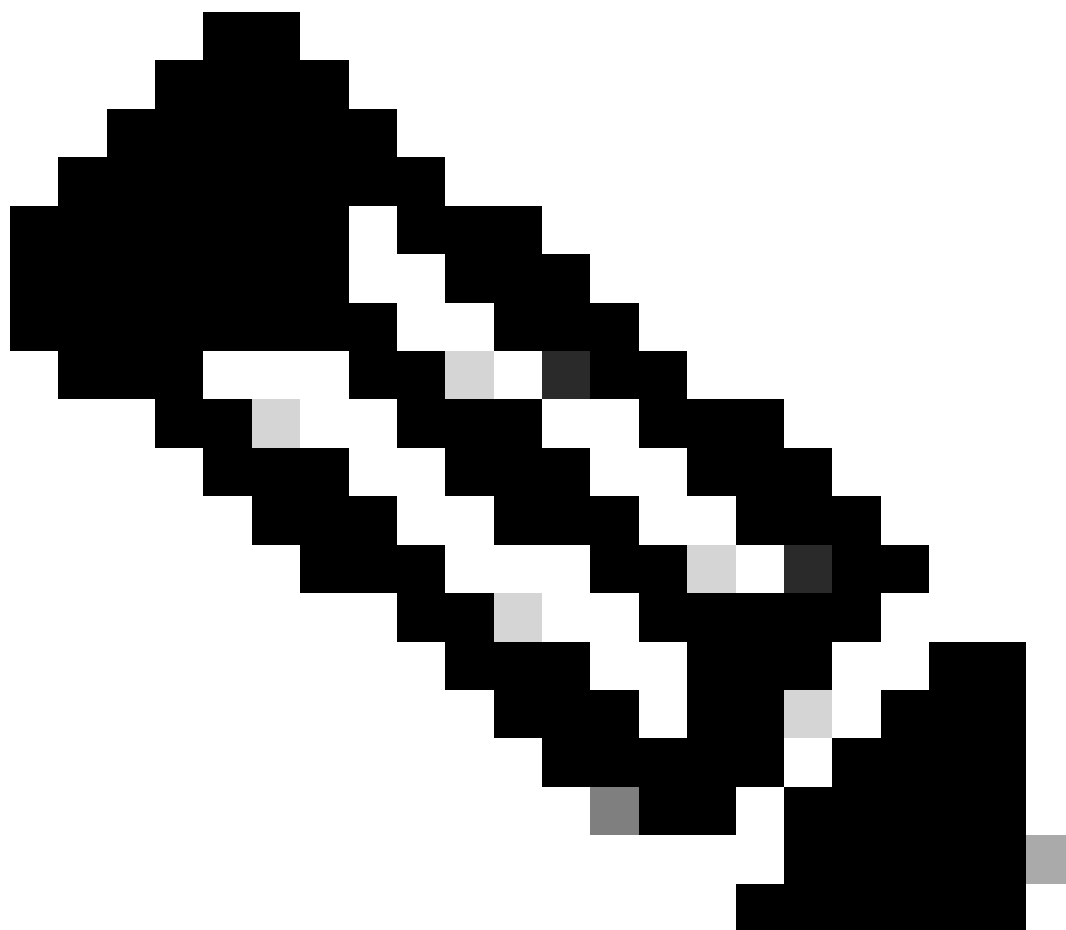
Per esportare un bundle dalla CLI:

```
<#root>
```

```
FPR4140-A(local-mgmt)#
```

```
copy workspace:///techsupport/20170409172722_FPR4140_FPRM.tar ftp|tftp|scp|sftp://username@192.168.0.1/
```

---

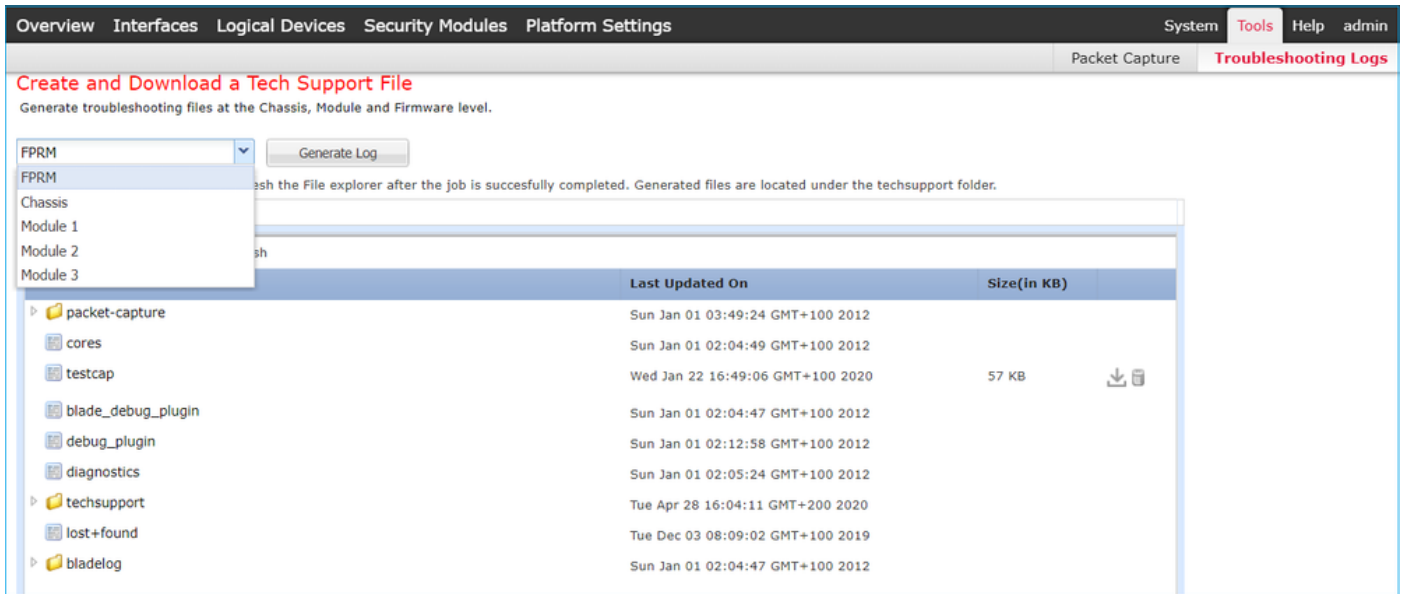


Nota: oltre a mostrare gli output tecnici del sistema FXOS, i dispositivi logici come ASA e/o FTD hanno le loro capacità tecniche di visualizzazione separate. Nel caso di Multi-Instance (MI), ogni istanza dispone anche di un proprio bundle show-tech separato. Infine, gli show-tech MI non sono supportati in FCM

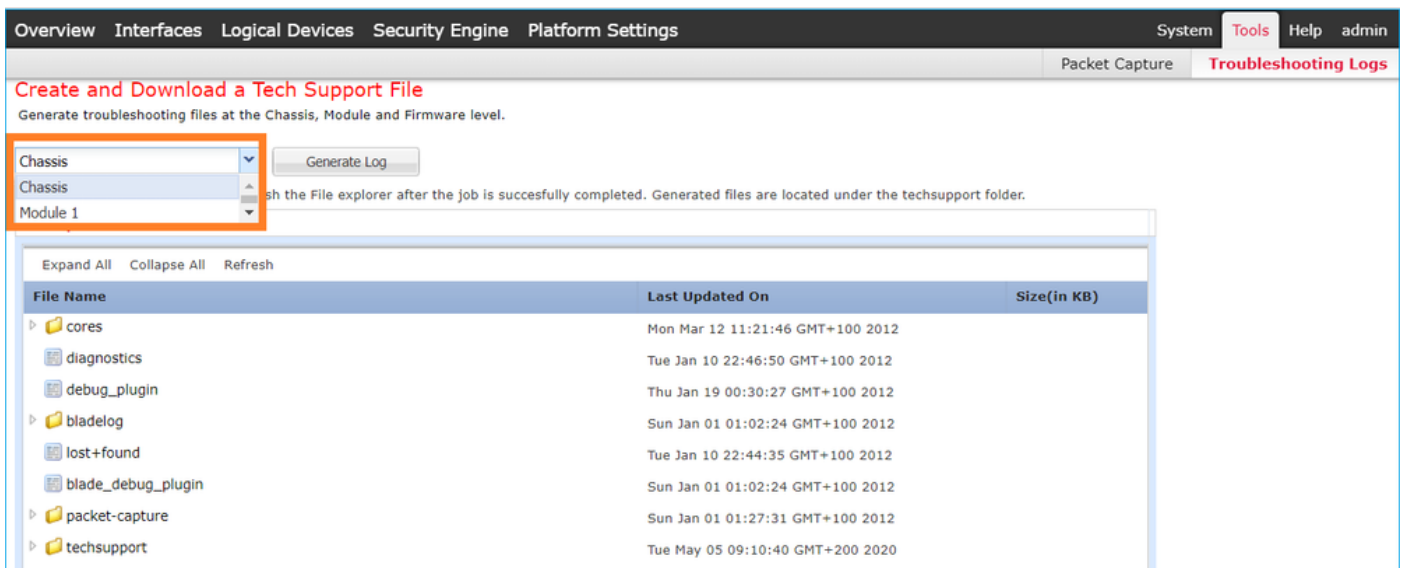
---

A partire da FXOS 2.6, la generazione e il download del supporto tecnico FXOS sono resi disponibili dall'interfaccia utente di Firepower Chassis Manager (FCM) in Strumenti > Log per la risoluzione dei problemi

FP9300:



Su FP41xx:



D. Come verificare e modificare l'indirizzo IP di gestione dello chassis, la maschera di rete e il gateway?

È possibile verificare la configurazione dell'interfaccia di gestione in diversi modi:

<#root>

FPR4115-2-1#

show fabric-interconnect

Fabric Interconnect:

ID	OOB IP Addr	OOB Gateway	OOB Netmask	OOB IPv6 Address	OOB IPv6 Gateway	Prefix	Operational
A	10.62.184.19	10.62.184.1	255.255.255.0	::	::	64	Operational

O

<#root>

FPR4115-2-1#

scope fabric-interconnect a

FPR4115-2-1 /fabric-interconnect #

show

Fabric Interconnect:

ID	OOB IP Addr	OOB Gateway	OOB Netmask	OOB IPv6 Address	OOB IPv6 Gateway	Prefix	Operational
A	10.62.184.19	10.62.184.1	255.255.255.0	::	::	64	Operational

FPR4115-2-1 /fabric-interconnect #

show detail

Fabric Interconnect:

ID: A  
Product Name: Cisco FPR-4115-SUP  
PID: FPR-4115-SUP  
VID: V01  
Vendor: Cisco Systems, Inc.  
Serial (SN): JAD12345NY6  
HW Revision: 0  
Total Memory (MB): 8074  
OOB IP Addr: 10.62.184.19  
OOB Gateway: 10.62.184.1  
OOB Netmask: 255.255.255.0  
OOB IPv6 Address: ::  
OOB IPv6 Gateway: ::  
Prefix: 64  
Operability: Operable  
Thermal Status: Ok  
Ingress VLAN Group Entry Count (Current/Max): 0/500  
Switch Forwarding Path Entry Count (Current/Max): 14/1021  
Current Task 1:  
Current Task 2:  
Current Task 3:

Per modificare le impostazioni IP:

```
<#root>
FPR4115-2-1#
scope fabric-interconnect a
FPR4115-2-1 /fabric-interconnect #
set out-of-band
    gw      Gw
    ip      Ip
    netmask Netmask
KSEC-FPR4115-2-1 /fabric-interconnect #
set out-of-band ip 10.62.184.19 netmask 255.255.255.0 gw 10.62.184.1
KSEC-FPR4115-2-1 /fabric-interconnect* #
commit-buffer
```

Informazioni sul commit:

```
FPR4115-2-1 /fabric-interconnect # commit-buffer verify-only    ! verify the change for error
FPR4115-2-1 /fabric-interconnect # commit-buffer              ! commit the change
FPR4115-2-1 /fabric-interconnect # discard-buffer             ! cancel the change
```

Per maggiori dettagli, consultare:

[Guida di riferimento ai comandi di Cisco Firepower 4100/9300 FXOS](#)

## D. Come eseguire un test ping FXOS?

Passare all'ambito della CLI local-mgmt e usare il comando ping:

```
<#root>
FPR4115-2-1#
connect local-mgmt
FPR4115-2-1(local-mgmt)#
ping 10.62.184.1

PING 10.62.184.1 (10.62.184.1) from 10.62.184.19 eth0: 56(84) bytes of data.
64 bytes from 10.62.184.1: icmp_seq=1 ttl=255 time=0.602 ms
64 bytes from 10.62.184.1: icmp_seq=2 ttl=255 time=0.591 ms
64 bytes from 10.62.184.1: icmp_seq=3 ttl=255 time=0.545 ms
64 bytes from 10.62.184.1: icmp_seq=4 ttl=255 time=0.552 ms
```

## D. Come verificare l'indirizzo Mac dell'interfaccia di gestione fuori banda?

Passare all'ambito CLI local-mgmt e utilizzare questo comando:

```
<#root>
FPR4115-2-1#
connect local-mgmt
FPR4115-2-1(local-mgmt)#
show mgmt-ip-debug | begin eth0
eth0      Link encap:Ethernet  HWaddr 78:bc:1a:e7:a4:11
          inet addr:10.62.184.19  Bcast:10.62.184.255  Mask:255.255.255.0
          inet6 addr: fe80::7abc:1aff:fee7:a411/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:3420589 errors:0 dropped:0 overruns:0 frame:0
          TX packets:2551231 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:419362704 (399.9 MiB)  TX bytes:1530147643 (1.4 GiB)
```

## D. Come verificare se l'interfaccia di gestione fuori banda è attiva?

Oltre a Operabile in ambito fabric-interconnect a > show, è possibile utilizzare questo comando:

```
<#root>
FPR4115-2-1#
connect local-mgmt
FPR4115-2-1(local-mgmt)#
show mgmt-port
eth0      Link encap:Ethernet  HWaddr 78:bc:1a:e7:a4:11
          inet addr:10.62.184.19  Bcast:10.62.184.255  Mask:255.255.255.0
          inet6 addr: fe80::7abc:1aff:fee7:a411/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:3422158 errors:0 dropped:0 overruns:0 frame:0
          TX packets:2552019 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:419611452 (400.1 MiB)  TX bytes:1530247862 (1.4 GiB)
```



In alternativa, è possibile utilizzare questo comando. La parte Scope mostra Link UP (Collega UP). Si noti che la freccia SU è visualizzata nella riga successiva:

```
<#root>
```

```
FPR4115-2-1#
```

```
connect local-mgmt
```

```
FPR4115-2-1(local-mgmt)#
```

```
show mgmt-ip-debug | begin eth0
```

```
eth0      Link encap:Ethernet  HWaddr 78:bc:1a:e7:a4:11
          inet addr:10.62.184.19  Bcast:10.62.184.255  Mask:255.255.255.0
          inet6 addr: fe80::7abc:1aff:fee7:a411/64  Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:3420589  errors:0  dropped:0  overruns:0  frame:0
          TX packets:2551231  errors:0  dropped:0  overruns:0  carrier:0
          collisions:0  txqueuelen:1000
          RX bytes:419362704 (399.9 MiB)  TX bytes:1530147643 (1.4 GiB)
```

---

Nota: lo stato UP è lo stato admin dell'interfaccia. Lo stato rimane ATTIVO anche se si scollega il cavo fisico o il modulo SFP. Un altro punto importante è lo stato RUNNING, che indica che il collegamento è operativo (il protocollo di linea è attivo).

---

Per ridurre lo stato logico dell'interfaccia:

```
<#root>
```

```
FPR4100-3-A(local-mgmt)#
```

```
mgmt-port shut
```

```
FPR4100-3-A(local-mgmt)#
```

```
show mgmt-ip-debug ifconfig | b eth0
```

```
eth0      Link encap:Ethernet  HWaddr 58:97:BD:B9:76:EB
          inet addr:10.62.148.88  Bcast:10.62.148.127  Mask:255.255.255.128
          BROADCAST MULTICAST  MTU:1500  Metric:1
          RX packets:3685870 errors:0 dropped:0 overruns:0 frame:0
          TX packets:7068372 errors:0 dropped:0 overruns:0 carrier:0
```

```
collisions:0 txqueuelen:1000
RX bytes:295216623 (281.5 MiB) TX bytes:1049391193 (1000.7 MiB)
```

Per rilanciarlo:

```
<#root>
```

```
FPR4100-3-A(local-mgmt)#
```

```
mgmt-port no-shut
```

```
FPR4100-3-A(local-mgmt)#
```

```
show mgmt-ip-debug ifconfig | b eth0
```

```
eth0      Link encap:Ethernet  HWaddr 58:97:BD:B9:76:EB
          inet addr:10.62.148.88  Bcast:10.62.148.127  Mask:255.255.255.128
          inet6 addr: fe80::5a97:bdff:feb9:76eb/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:3685885 errors:0 dropped:0 overruns:0 frame:0
          TX packets:7068374 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:295218130 (281.5 MiB) TX bytes:1049391353 (1000.7 MiB)
```



Nota: in modalità fxos sono disponibili le funzioni show interface brief e show interface mgmt 0, che consentono di visualizzare l'interfaccia mgmt0 rispettivamente come inattiva e come amministratore inattivo. Non utilizzare questa opzione come riferimento per indicare che è inattiva.

---

```
<#root>
FPR-4110-A#
connect fxos
FPR-4110-A(fxos)#
show interface brief | include mgmt0
mgmt0  --          down  172.16.171.83          --          1500
FPR-4110-A(fxos)#
show interface mgmt 0
mgmt0 is down (Administratively down)
```

```
Hardware: GigabitEthernet, address: 5897.bdb9.212d (bia 5897.bdb9.212d)
Internet Address is 172.16.171.83/24
MTU 1500 bytes, BW 1000000 Kbit, DLY 10 usec
reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA
auto-duplex, auto-speed
EtherType is 0x0000
1 minute input rate 3080 bits/sec 2 packets/sec
1 minute output rate 0 bits/sec 0 packets/sec
Rx
  977 unicast packets 12571 multicast packets 5229 broadcast packets
  18777 input packets 2333662 bytes
Tx
  0 unicast packets 0 multicast packets 0 broadcast packets
  0 output packets 0 bytes
```

Se si esegue un comando `show run interface mgmt0` in modalità `fxos`, la forza di arresto si trova in tale interfaccia. Anche in questo caso, non utilizzare questa opzione come riferimento che indichi che è inattiva:

```
<#root>
```

```
FPR4115-2-1(fxos)#
```

```
show run interface mgmt0
```

```
!Command:
```

```
show running-config interface mgmt0
```

```
!Time: Tue May 5 14:19:42 2020
```

```
version 5.0(3)N2(4.81)
```

```
interface mgmt0
  shutdown force
  ip address 10.62.184.19/24
```

## D. Come controllare la tabella di routing FXOS?

La gestione fuori banda dipende solo dal set di gateway predefinito. Pertanto, assicurarsi che il gateway predefinito scelto consenta la connessione ai client che richiedono l'accesso al sistema. In `connect fax` è disponibile il comando `show ip route vrf all`, ma non viene utilizzato per la gestione fuori banda.

## D. Come controllare la tabella FXOS ARP?

La tabella ARP non è visibile dalla CLI di FXOS. È inoltre possibile utilizzare l'acquisizione dei pacchetti in modalità fax (ethalyzer) per acquisire ARP e/o controllare il traffico da/verso la gestione.

Questo è un esempio di acquisizione di pacchetti ARP. È possibile modificare il filtro di acquisizione in qualsiasi elemento. Questo filtro è simile al filtro tcpdump:

```
<#root>
```

```
fp9300-A#
```

```
connect fxos
```

```
fp9300-A(fxos)#
```

```
ethalyzer local interface mgmt capture-filter arp
```

```
Capturing on eth0
```

```
2016-10-14 18:04:57.551221 00:50:56:85:be:44 -> ff:ff:ff:ff:ff:ff ARP Who has 172.16.171.240? Tell 172.16.171.240
2016-10-14 18:04:57.935562 00:12:80:85:a5:49 -> ff:ff:ff:ff:ff:ff ARP Who has 172.16.171.112? Tell 172.16.171.112
2016-10-14 18:04:58.167029 00:50:56:85:78:4e -> ff:ff:ff:ff:ff:ff ARP Who has 172.16.171.205? Tell 172.16.171.205
2016-10-14 18:04:59.156000 00:50:56:9f:b1:43 -> ff:ff:ff:ff:ff:ff ARP Who has 172.16.171.1? Tell 172.16.171.1
2016-10-14 18:04:59.165701 00:50:56:9f:b1:43 -> ff:ff:ff:ff:ff:ff ARP Who has 172.16.171.1? Tell 172.16.171.1
2016-10-14 18:04:59.166925 00:50:56:85:78:4e -> ff:ff:ff:ff:ff:ff ARP Who has 172.16.171.205? Tell 172.16.171.205
2016-10-14 18:04:59.268168 00:50:56:9f:b1:43 -> ff:ff:ff:ff:ff:ff ARP Who has 172.16.171.151? Tell 0.0.0.0
2016-10-14 18:05:00.150217 00:50:56:85:78:4e -> ff:ff:ff:ff:ff:ff ARP Who has 172.16.171.204? Tell 172.16.171.204
2016-10-14 18:05:00.268369 00:50:56:9f:b1:43 -> ff:ff:ff:ff:ff:ff ARP Who has 172.16.171.151? Tell 0.0.0.0
2016-10-14 18:05:01.150243 00:50:56:85:78:4e -> ff:ff:ff:ff:ff:ff ARP Who has 172.16.171.204? Tell 172.16.171.204
```

```
10 packets captured
```

```
Program exited with status 0.
```

```
fp9300-A(fxos)#
```

È inoltre possibile salvare l'acquisizione in un file e quindi esportarla in un server remoto:

```
<#root>
```

```
FPR4140-A#
```

```
connect fxos
```

```
FPR4140-A(fxos)#
```

```
ethalyzer local interface mgmt capture-filter arp limit-captured-frames 0 write workspace:///ARP.pcap
```

```
FPR4140-A#
```

```
connect local-mgmt
```

```
FPR4140-A(local-mgmt)#
```

```
dir
```

```
1 23075 Jan 12 13:13:18 2020 ARP.pcap
```

```
FPR4140-A(local-mgmt)#
```

## D. Come controllare gli eventi di errore FXOS?

Utilizzare il comando show fault:

```
<#root>
```

```
FPR4115-2-1#
```

```
show fault
```

Severity	Code	Last Transition Time	ID	Description
Major	F0909	2020-04-26T21:19:37.520	554924	default Keyring's certificate is invalid, reason:
Major	F1769	2012-01-19T00:30:02.733	323268	The password encryption key has not been set.
Minor	F1437	2012-01-19T00:30:02.732	32358	Config backup may be outdated

È inoltre possibile filtrare gli errori in base alla gravità:

```
<#root>
```

```
FPR4115-2-1#
```

```
show fault ?
```

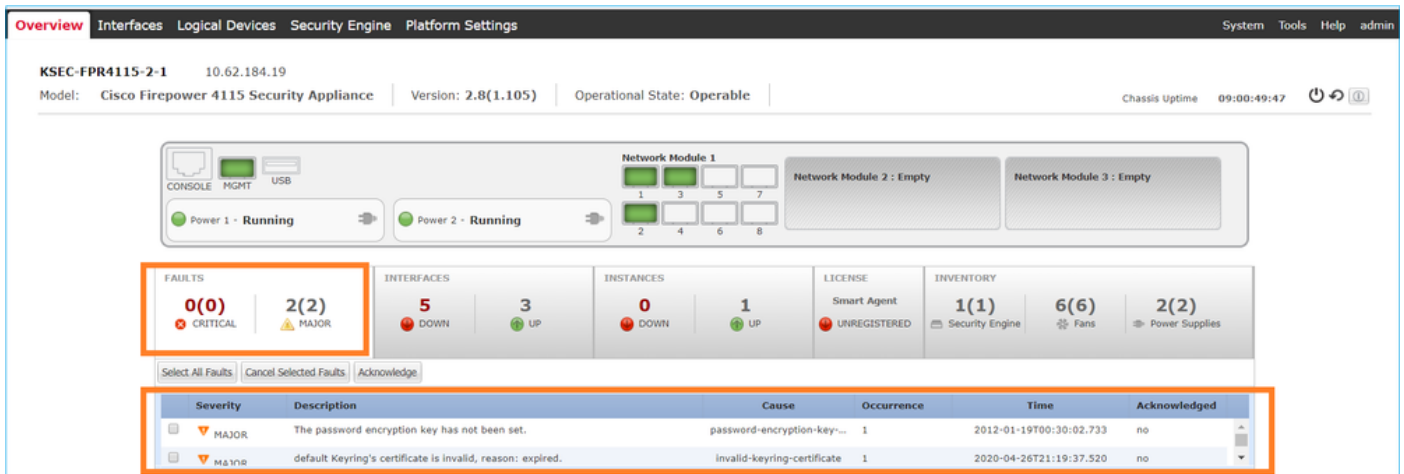
```
0-18446744073709551615 ID
<CR>
> Redirect it to a file
>> Redirect it to a file in append mode
cause Cause
detail Detail
severity Severity
suppressed Fault Suppressed
| Pipe command output to filter
```

```
FPR4115-2-1#
```

```
show fault severity major
```

Severity	Code	Last Transition Time	ID	Description
Major	F0909	2020-04-26T21:19:37.520	554924	default Keyring's certificate is invalid, reason:
Major	F1769	2012-01-19T00:30:02.733	323268	The password encryption key has not been set.

Gli stessi errori sono visibili anche dal pannello di controllo FXOS UI Overview > FAULTS:



## D. Come modificare il nome host del sistema?

Il comando set name viene utilizzato nell'ambito del sistema:

```
<#root>
```

```
KSEC-FPR4115-2-1#
```

```
scope system
```

```
KSEC-FPR4115-2-1 /system #
```

```
set name new-name
```

Warning: System name modification changes FC zone name and redeploys them non-disruptively  
 KSEC-FPR4115-2-1 /system\* #

```
commit-buffer
```

```
KSEC-FPR4115-2-1 /system #
```

```
exit
```

```
new-name#
```

## D. Cos'è la "mancata corrispondenza del calcolo" nella visualizzazione dello stato del server Output?

Per utilizzare un modulo di protezione appena installato, è necessario prima riconoscerlo e reiniziarlo. Ciò è vero anche quando si sostituisce un'unità tramite RMA.

```
<#root>
```

```
FPR9300#
```

```
show server status
```



```

Server Slot Status Overall Status Discovery
-----
1/1 Mismatch Compute Mismatch Complete
1/2 Equipped Ok Complete
1/3 Empty
FPR9300#

```

La mancata corrispondenza del calcolo può causare questo evento di errore:

```
Service profile ssp-sprof-1 configuration failed due to compute-unavailable,insufficient-resources
```

Il comando `show service-profile status` visualizza Unassociated (Non associato) come se il modulo non fosse presente.

Passaggi da confermare dalla CLI:

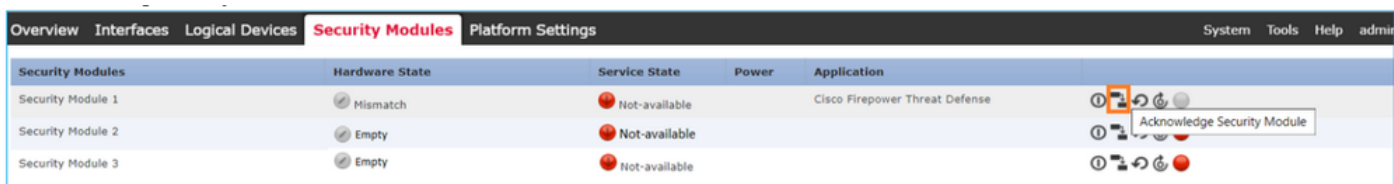
```
<#root>
```

```
scope chassis 1
```

```
acknowledge slot <slot#>
```

```
commit-buffer
```

In alternativa, utilizzare l'interfaccia utente di Gestione chassis per riconoscere il modulo:



## D. Qual è il significato di "Token Mismatch" in show slot Output?

Ciò indica che il modulo di sicurezza non è stato ancora reinizializzato dopo essere stato riconosciuto:

```
<#root>
```

```
FPR9300#
```

```
scope ssa
```

```
FPR9300 /ssa #
```

```
show slot
```

```
Slot:
```

Slot ID	Log Level	Admin State	Operational State
1	Info	Ok	Token Mismatch
2	Info	Ok	Online
3	Info	Ok	Not Available

```
FPR9300 /ssa #
```

Passi da reinizializzare tramite CLI:

```
<#root>
```

```
scope ssa
```

```
scope slot <#>
```

```
reinitialize
```

```
commit-buffer
```

Su Firepower 41xx, ciò può anche significare che l'SSD è mancante o è difettosa. Verificare se l'unità SSD esiste ancora tramite il comando show inventory storage in scope server 1/1:

```
<#root>
```

```
FPR4140-A#
```

```
scope ssa
```

```
FPR4140-A /ssa #
```

```
show slot 1
```

```
Slot:
```

Slot ID	Log Level	Admin State	Oper State
1	Info	Ok	Token Mismatch

```
FPR4140-A /ssa #
```

```
show fault severity critical
```

Severity	Code	Last Transition Time	ID	Description
Critical	F1548	2018-03-11T01:22:59.916	38768	Blade swap detected on slot 1

FPR4140-A /ssa #

scope server 1/1

FPR4140-A /chassis/server #

show inventory storage

Server 1/1:

Name:

User Label:

Equipped PID: FPR4K-SM-36

Equipped VID: V01

Equipped Serial (SN): FLM12345KL6

Slot Status: Equipped

Acknowledged Product Name: Cisco Firepower 4100 Series Extreme Performance Security Engine

Acknowledged PID: FPR4K-SM-36

Acknowledged VID: V00

Acknowledged Serial (SN): FLM12345KL6

Acknowledged Memory (MB): 262144

Acknowledged Effective Memory (MB): 262144

Acknowledged Cores: 36

Acknowledged Adapters: 2

Motherboard:

Product Name: Cisco Firepower 4100 Series Extreme Performance Security Engine

PID: FPR4K-SM-36

VID: V01

Vendor: Cisco Systems Inc

Serial (SN): FLM12345KL6

HW Revision: 0

RAID Controller 1:

Type: SATA

Vendor: Cisco Systems Inc

Model: CHORLEYWOOD

Serial: FLM12345KL6

HW Revision:

PCI Addr: 00:31.2

Raid Support:

OOB Interface Supported: No

Rebuild Rate: N/A

Controller Status: Unknown

Local Disk 1:

Vendor:

Model:

Serial:

HW Rev: 0

Operability: N/A

Presence: Missing

Size (MB): Unknown

Drive State: Unknown

Power State: Unknown

Link Speed: Unknown

Device Type: Unspecified

Local Disk Config Definition:

Mode: No RAID

Description:

Protect Configuration: No

## D. Come impostare Timezone, NTP e DNS tramite CLI?

Questa è configurata in Impostazioni piattaforma FXOS. Applicare le istruzioni di questo documento: [FXOS Platform Settings](#).

Per verificare le impostazioni di tempo dello chassis:

```
<#root>
```

```
KSEC-FPR4115-2-1#
```

```
show clock
```

```
Tue May 5 21:30:55 CEST 2020
```

```
KSEC-FPR4115-2-1#
```

```
show ntp
```

```
NTP Overall Time-Sync Status: Time Synchronized
```

Per verificare il tempo di modulo/blade dalla CLI di avvio del modulo, utilizzare questi 3 comandi:

```
<#root>
```

```
Firepower-module1>
```

```
show ntp peerstatus
```

```
remote local st poll reach delay offset disp
=====
*203.0.113.126 203.0.113.1 2 64 377 0.00006 0.000018 0.02789
```

```
remote 203.0.113.126, local 203.0.113.1
```

```
hmode client, pmode mode#255, stratum 2, precision -20
```

```
leap 00, refid [192.0.2.1], rootdistance 0.19519, rootdispersion 0.17641
```

```
ppoll 6, hpoll 6, keyid 0, version 4, association 43834
```

```
reach 377, unreachable 0, flash 0x0000, boffset 0.00006, ttl/mode 0
```

```
timer 0s, flags system_peer, config, bclient, prefer, burst
```

```
reference time: dbef8823.8066c43a Mon, Dec 5 2016 8:30:59.501
```

```
originate timestamp: 00000000.00000000 Mon, Jan 1 1900 2:00:00.000
```

```
receive timestamp: dbefb27d.f914589d Mon, Dec 5 2016 11:31:41.972
```

```
transmit timestamp: dbefb27d.f914589d Mon, Dec 5 2016 11:31:41.972
```

```
filter delay: 0.00008 0.00006 0.00008 0.00009
```

```
0.00008 0.00008 0.00008 0.00009
```

```
filter offset: 0.000028 0.000018 0.000034 0.000036
```

```
0.000033 0.000036 0.000034 0.000041
```

```
filter order: 1 2 6 0
```

```
4 5 3 7
```

```
offset 0.000018, delay 0.00006, error bound 0.02789, filter error 0.00412
```

Firepower-module1>

show ntp association

```
remote          refid          st t when poll reach  delay  offset jitter
=====
*203.0.113.126  192.0.2.1     2 u  37  64  377  0.062  0.018  0.017
```

ind assid status conf reach auth condition last\_event cnt

```
=====
1 43834 961d yes yes none sys.peer 1
```

associd=43834 status=961d conf, reach, sel\_sys.peer, 1 event, popcorn,  
srcadr=203.0.113.126, srcport=123, dstadr=203.0.113.1, dstport=123,  
leap=00, stratum=2, precision=-20, rootdelay=195.190, rootdisp=176.407,  
refid=192.0.2.1,  
reftime=dbef8823.8066c43a Mon, Dec 5 2016 8:30:59.501,  
rec=dbefb27d.f91541fc Mon, Dec 5 2016 11:31:41.972, reach=377,  
unreach=0, hmode=3, pmode=4, hpoll=6, ppoll=6, headway=22, flash=00 ok,  
keyid=0, offset=0.018, delay=0.062, dispersion=0.778, jitter=0.017,  
xleave=0.011,  
filtdelay= 0.08 0.06 0.08 0.10 0.08 0.09 0.08 0.10,  
filtoffset= 0.03 0.02 0.03 0.04 0.03 0.04 0.03 0.04,  
filtdisp= 0.00 0.03 1.04 1.07 2.06 2.09 3.09 3.12

Firepower-module1>

show ntp sysinfo

associd=0 status=0618 leap\_none, sync\_ntp, 1 event, no\_sys\_peer,  
version="ntpd 4.2.6p5@1.2349-o Fri Oct 7 17:08:03 UTC 2016 (2)",  
processor="x86\_64", system="Linux/3.10.62-ltsi-WR6.0.0.27\_standard",  
leap=00, stratum=3, precision=-23, rootdelay=195.271, rootdisp=276.641,  
refid=203.0.113.126,  
reftime=dbefb238.f914779b Mon, Dec 5 2016 11:30:32.972,  
clock=dbefb2a7.575931d7 Mon, Dec 5 2016 11:32:23.341, peer=43834, tc=6,  
mintc=3, offset=0.035, frequency=25.476, sys\_jitter=0.003,  
clk\_jitter=0.015, clk\_wander=0.011

system peer: 203.0.113.126  
system peer mode: client  
leap indicator: 00  
stratum: 3  
precision: -23  
root distance: 0.19527 s  
root dispersion: 0.27663 s  
reference ID: [203.0.113.126]  
reference time: dbefb238.f914779b Mon, Dec 5 2016 11:30:32.972  
system flags: auth monitor ntp kernel stats  
jitter: 0.000000 s  
stability: 0.000 ppm  
broadcastdelay: 0.000000 s  
authdelay: 0.000000 s

time since restart: 1630112  
time since reset: 1630112  
packets received: 157339  
packets processed: 48340  
current version: 48346  
previous version: 0  
declined: 0

```
access denied:          0
bad length or format:  0
bad authentication:    0
rate exceeded:         0
Firepower-module1>
```

Per ulteriori informazioni sulla verifica NTP e la risoluzione dei problemi, consultare questo documento: [Configurazione, verifica e risoluzione dei problemi delle impostazioni del Network Time Protocol \(NTP\) sugli accessori Firepower FXOS](#)

## D. Come configurare Smart Licensing e il proxy HTTP?

Nel caso di un dispositivo logico ASA, è necessario usare una licenza Smart sullo chassis FXOS. Per ulteriori informazioni, consultare il documento: [Gestione delle licenze per l'appliance ASA](#)

Di seguito è riportato un esempio di output dello stato della licenza:

```
<#root>
```

```
FPR4115-2-1#
```

```
scope license
```

```
FPR4115-2-1 /license #
```

```
show license all
```

```
Smart Licensing Status
```

```
=====
```

```
Smart Licensing is ENABLED
```

```
Registration:
```

```
Status: REGISTERED
```

```
Smart Account: BU Production Test
```

```
Virtual Account: TAC-BETA
```

```
Export-Controlled Functionality: Not Allowed
```

```
Initial Registration: SUCCEEDED on Dec 15 14:41:55 2015 PST
```

```
Last Renewal Attempt: SUCCEEDED on Dec 23 09:26:05 2015 PST
```

```
Next Renewal Attempt: Jun 21 07:00:21 2016 PST
```

```
Registration Expires: Dec 23 06:54:19 2016 PST
```

```
License Authorization:
```

```
Status: AUTHORIZED on Apr 07 15:44:26 2016 PST
```

```
Last Communication Attempt: SUCCEEDED on Apr 07 15:44:26 2016 PST
```

```
Next Communication Attempt: May 07 15:44:25 2016 PST
```

```
Communication Deadline: Jul 06 15:38:24 2016 PST
```

```
License Usage
```

```
=====
```

No licenses in use

Product Information

=====

UDI: PID:FPR9K-SUP,SN:JAD123456AB

Agent Version

=====

Smart Agent for Licensing: 1.4.1\_rel/31

o in alternativa:

<#root>

fp9300-A#

connect local-mgmt

fp9300-A(local-mgmt)#

show license all

Smart Licensing Status

=====

Smart Licensing is ENABLED

Registration:

Status: REGISTERED

Smart Account: Cisco Internal

Virtual Account: Escalations

Export-Controlled Functionality: Allowed

Initial Registration: SUCCEEDED on Feb 10 18:55:08 2016 CST

Last Renewal Attempt: SUCCEEDED on Oct 09 15:07:25 2016 CST

Next Renewal Attempt: Apr 07 15:16:32 2017 CST

Registration Expires: Oct 09 15:10:31 2017 CST

License Authorization:

Status: AUTHORIZED on Sep 20 07:29:06 2016 CST

Last Communication Attempt: SUCCESS on Sep 20 07:29:06 2016 CST

Next Communication Attempt: None Communication Deadline: None

Licensing HA configuration error:

No Reservation Ha config error

License Usage

=====

No licenses in use

Product Information

=====

UDI: PID:FPR9K-SUP,SN:JAD190800VU

Agent Version

=====

Smart Agent for Licensing: 1.6.7\_rel/95

## D. Come configurare Syslog tramite CLI?

Controlla questi documenti:

- [Configurazione di Syslog su appliance Firepower FXOS](#)
- [Guida alla configurazione di FXOS: syslog delle impostazioni della piattaforma](#)

## D. Come configurare il protocollo SNMP sugli appliance Firepower?

Controllare questo documento: [Configure SNMP on Firepower NGFW Appliance](#)

## D. Come installare/sostituire un certificato SSL utilizzato da Chassis Manager?

Questo documento può aiutare: [Installare un certificato attendibile per FXOS Chassis Manager](#)

## D. Come risolvere i problemi relativi al traffico attraverso lo chassis FPR9300?

Controlla questi documenti:

- [Fase 1 di risoluzione dei problemi del percorso dei dati di Firepower: ingresso dei pacchetti](#)
- [Risoluzione dei problemi relativi al percorso dei dati di Firepower: panoramica](#)
- [Analisi delle acquisizioni di Firepower Firewall per la risoluzione efficace dei problemi di rete](#)

## D. Come visualizzare la tabella degli indirizzi Mac dello chassis?

Per le piattaforme FP41xx e FP93xx, utilizzare uno dei seguenti comandi:

```
<#root>
```

```
FPR4115-2-1#
```

```
connect fxos
```

```
FPR4115-2-1(fxos)#
```

```
show l2-table
```

```
Ingress      MAC                Vlan Class VlanGrp  Status  Dst
```



```

Eth1/1      78bc.1ae7.a45e 101 1 0      present 1
Veth776    78bc.1ae7.a45e 101 1 0      present 1
Po1        0100.5e00.0005 1001 1 0     present 1
Po1        0100.5e00.0006 1001 1 0     present 1
Po1        78bc.1ae7.a44e 1001 1 0     present 1
Po1        ffff.ffff.ffff 1001 63 0    present 1

```

```
FPR4115-2-1(fxos)#
```

```
show mac address-table
```

Legend:

\* - primary entry, G - Gateway MAC, (R) - Routed MAC, O - Overlay MAC  
age - seconds since first seen,+ - primary entry using vPC Peer-Link

VLAN	MAC Address	Type	age	Secure	NTFY	Ports/SWID.SSID.LID
* 1001	0100.5e00.0005	static	0	F	F	Eth1/1
* 1001	0100.5e00.0006	static	0	F	F	Eth1/1
* 1001	78bc.1ae7.a44e	static	0	F	F	Eth1/1
* 1001	ffff.ffff.ffff	static	0	F	F	Eth1/1
* 101	78bc.1ae7.a45e	static	0	F	F	Eth1/1
* 101	78bc.1ae7.a46f	static	0	F	F	Veth776
* 4047	0015.a501.0100	static	0	F	F	Veth864
* 4047	0015.a501.0101	static	0	F	F	Veth1015
* 4043	78bc.1ae7.b000	static	0	F	F	Eth1/10
* 4043	78bc.1ae7.b00c	static	0	F	F	Eth1/9
* 1	0015.a500.001f	static	0	F	F	Veth887
* 1	0015.a500.002f	static	0	F	F	Veth1018
* 1	0015.a500.01bf	static	0	F	F	Veth905
* 1	0015.a500.01ef	static	0	F	F	Veth1019

## D. Come visualizzare gli indirizzi MAC dell'interfaccia dello chassis?

Utilizzare questo comando:

```
<#root>
```

```
FPR4115-2-1#
```

```
connect fxos
```

```
FPR4115-2-1(fxos)#
```

```
show interface mac-address
```

Interface	Mac-Address	Burn-in Mac-Address
Ethernet1/1	78bc.1ae7.a417	78bc.1ae7.a418
Ethernet1/2	78bc.1ae7.a417	78bc.1ae7.a419
Ethernet1/3	78bc.1ae7.a417	78bc.1ae7.a41a
Ethernet1/4	78bc.1ae7.a417	78bc.1ae7.a41b
Ethernet1/5	78bc.1ae7.a417	78bc.1ae7.a41c

Ethernet1/6	78bc.1ae7.a417	78bc.1ae7.a41d
Ethernet1/7	78bc.1ae7.a417	78bc.1ae7.a41e
Ethernet1/8	78bc.1ae7.a417	78bc.1ae7.a41f
Ethernet1/9	78bc.1ae7.a417	78bc.1ae7.a420
Ethernet1/10	78bc.1ae7.a417	78bc.1ae7.a421
Ethernet1/11	78bc.1ae7.a417	78bc.1ae7.a422
Ethernet1/12	78bc.1ae7.a417	78bc.1ae7.a423
port-channel1	78bc.1ae7.a417	78bc.1ae7.a41a
port-channel48	78bc.1ae7.a417	0000.0000.0000
mgmt0	78bc.1ae7.a411	78bc.1ae7.a411
Vethernet690	78bc.1ae7.a417	78bc.1ae7.a417
Vethernet691	78bc.1ae7.a417	78bc.1ae7.a417
Vethernet692	78bc.1ae7.a417	78bc.1ae7.a417
Vethernet693	78bc.1ae7.a417	78bc.1ae7.a417
Vethernet694	78bc.1ae7.a417	78bc.1ae7.a417
Vethernet695	78bc.1ae7.a417	78bc.1ae7.a417
Vethernet696	78bc.1ae7.a417	78bc.1ae7.a417
Vethernet697	78bc.1ae7.a417	78bc.1ae7.a417
Vethernet698	78bc.1ae7.a417	78bc.1ae7.a417
Vethernet699	78bc.1ae7.a417	78bc.1ae7.a417
Vethernet700	78bc.1ae7.a417	78bc.1ae7.a417
Vethernet774	78bc.1ae7.a417	78bc.1ae7.a417
Vethernet775	78bc.1ae7.a417	78bc.1ae7.a417
Vethernet776	78bc.1ae7.a417	78bc.1ae7.a417
Vethernet777	78bc.1ae7.a417	78bc.1ae7.a417
Vethernet778	78bc.1ae7.a417	78bc.1ae7.a417
Vethernet779	78bc.1ae7.a417	78bc.1ae7.a417
Vethernet861	78bc.1ae7.a417	78bc.1ae7.a417
Vethernet862	78bc.1ae7.a417	78bc.1ae7.a417
Vethernet863	78bc.1ae7.a417	78bc.1ae7.a417
Vethernet864	78bc.1ae7.a417	78bc.1ae7.a417
Vethernet887	78bc.1ae7.a417	78bc.1ae7.a417
Vethernet905	78bc.1ae7.a417	78bc.1ae7.a417
Vethernet906	78bc.1ae7.a417	78bc.1ae7.a417
Vethernet1015	78bc.1ae7.a417	78bc.1ae7.a417
Vethernet1018	78bc.1ae7.a417	78bc.1ae7.a417
Vethernet1019	78bc.1ae7.a417	78bc.1ae7.a417
Vethernet1020	78bc.1ae7.a417	78bc.1ae7.a417
Vethernet1021	78bc.1ae7.a417	78bc.1ae7.a417

## D. Come eseguire il recupero della password su FXOS Supervisor (MIO)?

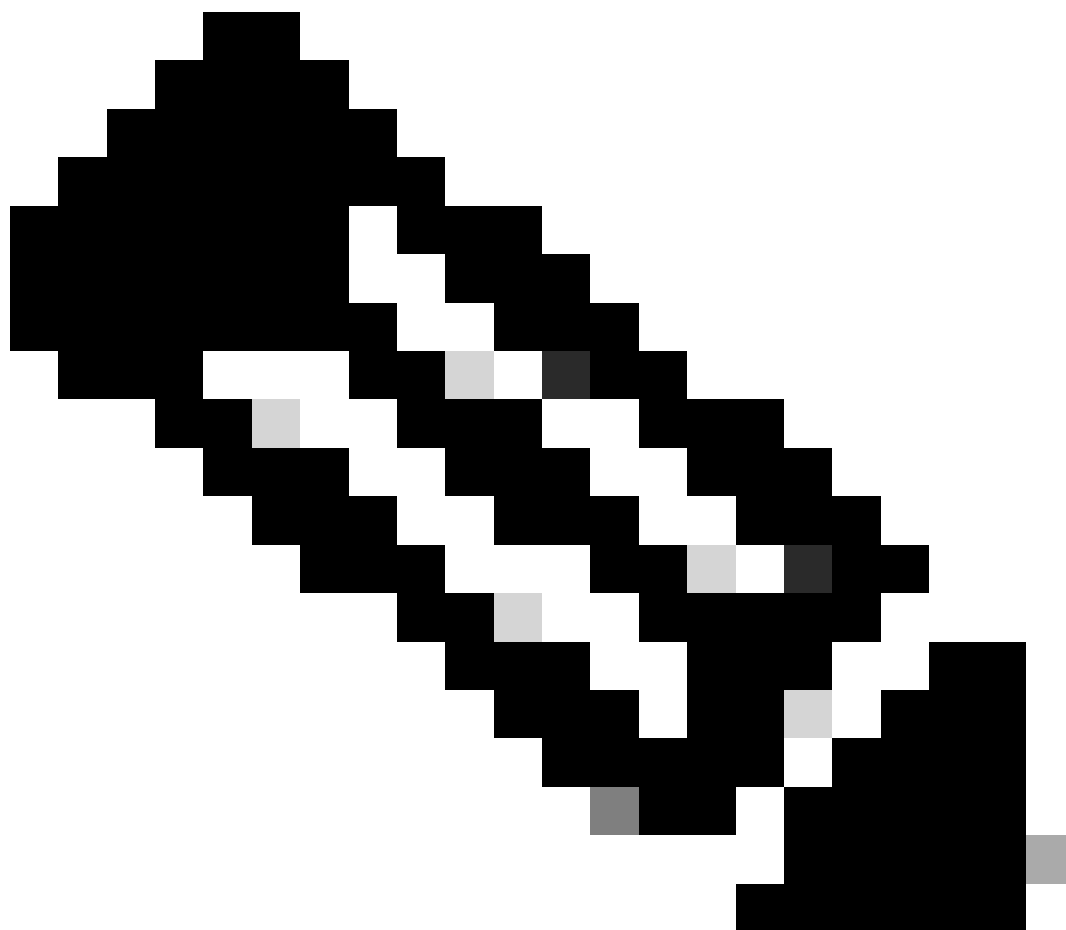
Per le procedure di recupero della password su FP41xx e FP9300, utilizzare questo documento: [Procedura di recupero della password per gli accessori Firepower serie 9300/4100](#)

## D. Come eseguire il recupero della password su un'appliance ASA o su un dispositivo logico FTD?

Per reimpostare la password della periferica logica, è necessario riavviare la periferica. Il processo di disaster recovery del bootstrap consente di modificare i seguenti elementi:

- Gestione ASA/FTD IP - IP, netmask, gateway, IPv6, lunghezza prefisso

- Password ASA
  - Chiave di registrazione FTD, password, IP FMC, domini di ricerca, modalità firewall, server DNS, FQDN
  - Pool IP cluster ASA, netmask, gateway, lunghezza prefisso, IP virtuale.
- 



Nota: il processo di recupero del bootstrap deve essere eseguito in una finestra di manutenzione (MW) perché richiede un ricaricamento del dispositivo logico

---

### Esempio 1

È possibile utilizzare l'interfaccia utente di FXOS per modificare le impostazioni di bootstrap di un dispositivo logico. Passare alla scheda Dispositivi logici, Modificare un dispositivo

Overview Interfaces **Logical Devices** Security Engine Platform Settings System Tools Help admin

Editing - mzafeiro\_FTD1 Save Cancel

Standalone | Cisco Firepower Threat Defense | 6.6.0.90

**Data Ports**

- Ethernet1/4
- Ethernet1/5
- Ethernet1/6
- Ethernet1/7
- Ethernet1/8
- Port-channel1**

**Decorators**

Port-channel1

**FTD - 6.6.0.90**  
Ethernet1/1  
Click to configure

Impostare la password:

# Cisco Firepower Threat Defense - Bootstrap Configuration

General Information **Settings** Agreement

Management type of application instance:	<input type="text" value="FMC"/>	Set: Yes
Search domains:	<input type="text"/>	
Firewall Mode:	<input type="text" value="Routed"/>	Set: Yes
DNS Servers:	<input type="text"/>	
Fully Qualified Hostname:	<input type="text"/>	
Password:	<input type="password" value="....."/>	Set: Yes
Confirm Password:	<input type="password" value="....."/>	
Registration Key:	<input type="text"/>	Set: Yes
Confirm Registration Key:	<input type="text"/>	
Firepower Management Center IP:	<input type="text"/>	
Firepower Management Center NAT ID:	<input type="text"/>	
Eventing Interface:	<input type="text"/>	

Dopo il salvataggio viene visualizzato questo messaggio:

## Bootstrap Settings Update Confirmation



Updating the bootstrap settings from the Firepower Chassis Manager is for disaster recovery only; we recommend that you instead change bootstrap settings in the application. To update the bootstrap settings from the Firepower Chassis Manager, click **Restart Now**: the old bootstrap configuration will be overwritten, and the application will restart. Or click **Restart Later** so you can manually restart the application at a time of your choosing and apply the new bootstrap settings (**Logical Devices > Restart**).

**Note:** For FTD, if you change the management IP address, be sure to change the device IP address in **FMC (Devices > Device Management > Device tab > Management area)**. This task is not required if you specified the NAT ID instead of the device IP address in FMC.

Restart Now

Restart Later

Cancel

## Esempio 2

Questo è un esempio di abilitazione ASA per la modifica/il recupero della password:

```
<#root>
```

```
FP4110-A#
```

```
scope ssa
```

```
FP4110-A /ssa #
```

```
show logical-device
```

```
Logical Device:
```

Name	Description	Slot ID	Mode	Oper State	Templa
asa		1	Standalone	Ok	asa

```
FP4110-A /ssa #
```

```
scope logical-device asa
```

```
FP4110-A /ssa/logical-device #
```

```
scope mgmt-bootstrap asa
```

```
FP4110-A /ssa/logical-device/mgmt-bootstrap #
```

```
show config
```

```
enter mgmt-bootstrap asa
  create bootstrap-key-secret PASSWORD
  !
  set value
exit
enter ipv4 1 default
  set gateway 172.16.171.1
  set ip 172.16.171.226 mask 255.255.255.0
```

```
    exit
  exit

FP4110-A /ssa/logical-device/mgmt-bootstrap #
enter bootstrap-key-secret PASSWORD

FP4110-A /ssa/logical-device/mgmt-bootstrap/bootstrap-key-secret #
set value

Value:  <enter new enable password in here>
Warning: Bootstrap changes are not automatically applied to app-instances. To apply the changes, please

FP4110-A /ssa/logical-device/mgmt-bootstrap/bootstrap-key-secret* #
commit-buffer

FP4110-A /ssa/logical-device/mgmt-bootstrap/bootstrap-key-secret #
top

FP4110-A#
scope ssa

FP4110-A /ssa #
scope slot 1

FP4110-A /ssa/slot #
scope app-instance asa

FP4110-A /ssa/slot/app-instance #
clear-mgmt-bootstrap

Warning: Clears the application management bootstrap. Application needs to be restarted for this action
FP4110-A /ssa/slot/app-instance* #
commit-buffer

FP4110-A /ssa/slot/app-instance #
restart

FP4110-A /ssa/slot/app-instance* #
commit-buffer
```

Prima di connettersi, verificare che l'ASA sia online e usare la nuova password di abilitazione.

```
<#root>
```

```
FP4110-A /ssa/slot/app-instance #
```

```
show
```

```
Application Instance:
```

App Name	Admin State	Oper State	Running Version	Startup Version	Profile Name	Cluster State
asa	Enabled	Online	9.9.1.76	9.9.1.76		Not Applicable

```
FP4110-A /ssa/slot/app-instance #
```

## D. Come modificare la password corrente di un utente FXOS (ad esempio admin)?

Utilizzare la procedura seguente:

```
<#root>
```

```
FP4110-1-A#
```

```
scope security
```

```
FP4110-1-A /security #
```

```
show local-user
```

User Name	First Name	Last name
admin		

```
admin
```

```
FP4110-1-A /security #
```

```
enter local-user admin
```

```
FP4110-1-A /security/local-user #
```

```
set password
```

```
Enter a password:
```

```
Confirm the password:
```

```
FP4110-1-A /security/local-user* #
```

```
commit-buffer
```

```
FP4110-1-A /security/local-user #
```

## D. Come declassare FXOS?

Il downgrade delle immagini FXOS non è ufficialmente supportato. L'unico metodo supportato da Cisco per effettuare il downgrade di una versione di FXOS è quello di eseguire una re-immagine completa del dispositivo. Questa condizione è documentata nel [percorso di aggiornamento di](#)

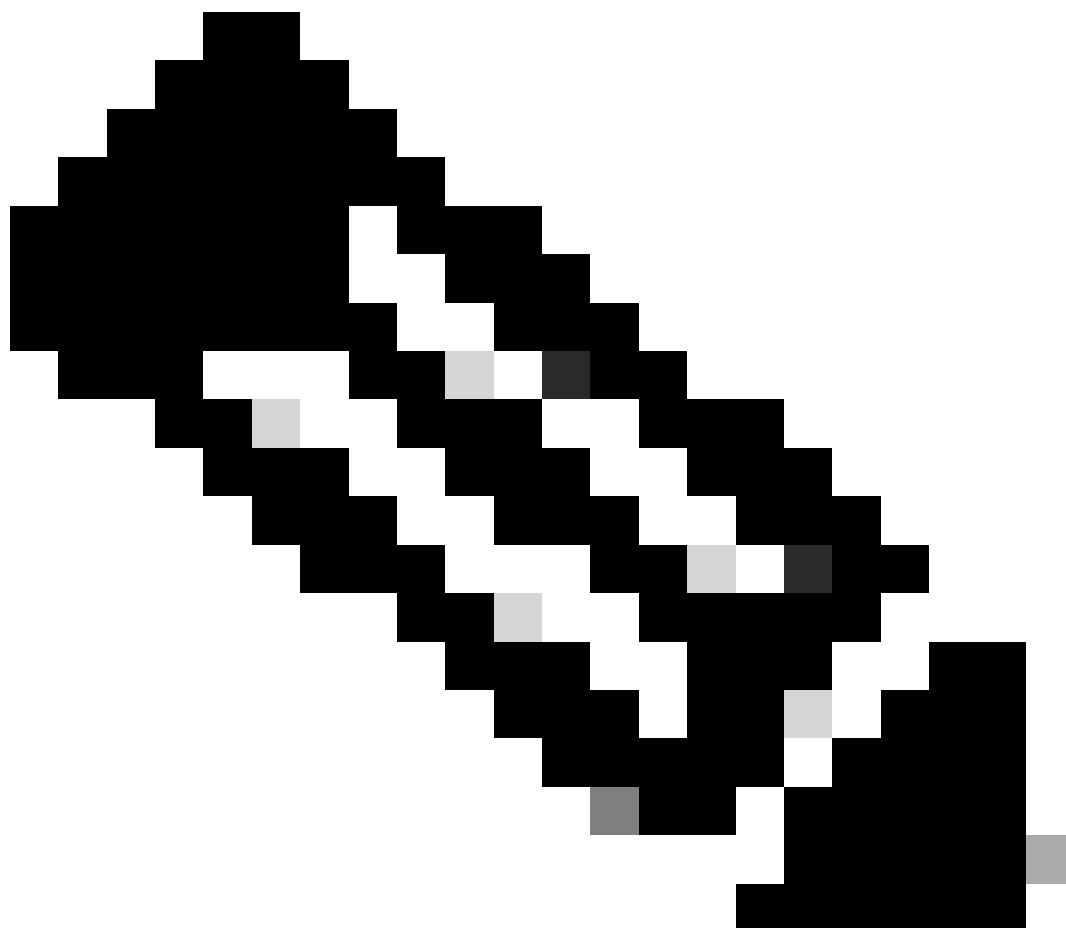


## D. Come effettuare il downgrade/aggiornamento di un dispositivo logico ASA?

Per effettuare il downgrade/upgrade della versione ASA con Chassis Manager: [aggiornamento della versione dell'immagine per un dispositivo logico](#)

Per modificare tramite CLI, utilizzare questa sezione della guida alla configurazione: [Updating the Image Version for a Logical Device \(Aggiornamento della versione dell'immagine per un dispositivo logico\)](#)

---



Nota: non appena si esegue il commit-buffer sulla CLI, il modulo viene riavviato. Analogamente, su chassis manager, dopo aver premuto ok, il modulo viene riavviato. Non è necessario riavviarlo manualmente.

---

## D. Come controllare lo stato di aggiornamento di FXOS tramite CLI?

L'aggiornamento viene completato quando tutti i componenti diventano pronti:

```
<#root>
```

```
FP9300#
```

```
scope system
```

```
FP9300 /system #
```

```
show firmware monitor
```

```
FPRM:
```

```
Package-Vers: 2.0(1.37)
```

```
Upgrade-Status: Ready
```

```
Fabric Interconnect A:
```

```
Package-Vers: 2.0(1.23)
```

```
Upgrade-Status: Upgrading
```

```
Chassis 1:
```

```
Server 1:
```

```
Package-Vers: 2.0(1.23)
```

```
Upgrade-Status: Ready
```

```
Server 2:
```

```
Package-Vers: 2.0(1.23)
```

```
Upgrade-Status: Upgrading
```

### Altri comandi utili

```
<#root>
```

```
FP9300 /firmware/auto-install #
```

```
show fsm status
```

```
FP9300 /firmware/auto-install #
```

```
show fsm status expand
```

## D. Come ricaricare il dispositivo logico dalla CLI di FXOS?

È preferibile utilizzare l'interfaccia utente di FCM. Se per qualsiasi motivo l'interfaccia utente non è accessibile, utilizzare i seguenti comandi:

```
<#root>
```

```
#
```

```
scope chassis 1
```

```
/chassis #
```

```
scope server 1/1
```

```
/chassis/server #
```

```
reset ?
```

```
hard-reset-immediate Perform an immediate hard reset
```

```
hard-reset-wait Wait for the completion of any pending management oper
```

```
/chassis/server #
```

```
commit-buffer
```

## D. Come controllare il tempo di attività dello chassis FXOS e il motivo dell'ultimo caricamento?

Il controllo del tempo di attività di FXOS è utile nel caso in cui sia presente un traceback FXOS. FXOS può essere visualizzato dall'interfaccia utente (FCM) o dalla CLI:

```
<#root>
```

```
FPR9K-1-A#
```

```
connect fxos
```

```
FPR9K-1-A(fxos)#
```

```
show system uptime
```

```
System start time: Sun Sep 25 09:57:19 2016
```

```
System uptime: 28 days, 9 hours, 38 minutes, 14 seconds
```

```
Kernel uptime: 28 days, 9 hours, 38 minutes, 41 seconds
```

```
Active supervisor uptime: 28 days, 9 hours, 38 minutes, 14 seconds
```

Inoltre, per determinare il motivo dell'ultimo ricaricamento, usare questo comando:

```
<#root>
```

```
FPR9K-1-A(fxos)#
```

```
show system reset-reason
```

```
----- reset reason for Supervisor-module 1 (from Supervisor in slot 1) ---
```

```
1) At 212883 usecs after Fri Oct 21 22:34:35 2016
```

```
Reason: Kernel Panic
```

```
Service:
```

```
Version: 5.0(3)N2(3.02)
```

```
2) At 106690 usecs after Thu May 26 16:07:38 2016
```

```
Reason: Reset Requested by CLI command reload
```

```
Service:
```

```
Version: 5.0(3)N2(3.02)
```

Per il tempo di attività di FPR2100, eseguire le operazioni seguenti:

1. Acquistare il pacchetto 'show tech-support-fprm detail'
2. Estrarre il contenuto del fascio
3. Controllare il file tmp/inventory\_manager.xml

Esiste una voce che mostra il tempo di attività in secondi:

```
<#root>
```

```
tmp/inventory_manager.xml:
```

```
<uptime>151</uptime>
```

## D. Come controllare lo spazio disponibile su disco in FXOS?

Denominato anche 'workspace':

```
<#root>
```

```
FPR9K-1-A#
```

```
connect local-mgmt
```

```
FPR9K-1-A(local-mgmt)#
```

```
dir
```

```

1      29 Sep 25 09:56:22 2016 blade_debug_plugin
1      19 Sep 25 09:56:22 2016 bladelog
1      16 Aug 05 15:41:05 2015 cores
1 2841476 Apr 26 14:13:12 2016 d
2      4096 Dec 01 10:09:11 2015 debug_plugin/
1      31 Aug 05 15:41:05 2015 diagnostics
1 2842049 Feb 23 03:26:38 2016 dp
1 18053120 Feb 23 11:10:19 2016 fpr9k-1-0-sam_logs_all.tar
1 18176000 Feb 23 11:10:43 2016 fpr9k-1-1-sam_logs_all.tar
1 19302400 Feb 23 11:11:07 2016 fpr9k-1-2-sam_logs_all.tar
1 16312320 Feb 23 11:06:53 2016 fpr9k-1-3-sam_logs_all.tar
1 2841476 Feb 22 18:47:00 2016 fxos-dplug.5.0.3.N2.3.13.67g.gSSA
2      4096 Aug 05 15:38:58 2015 lost+found/
1      25 Dec 01 11:11:50 2015 packet-capture
1 18493440 Feb 23 10:44:51 2016 sam_logs_all.tar
2      4096 Sep 14 11:23:11 2016 techsupport/

```

```

Usage for workspace://
4032679936 bytes total
324337664 bytes used
3503489024 bytes free

```

<#root>

```
FPR9K-1-A(local-mgmt)#
```

```
dir volatile:/
```

```
1 66 Oct 27 08:17:48 2016 xmlout_5816
```

```

Usage for volatile://
251658240 bytes total
4096 bytes used
251654144 bytes free

```

Per controllare lo spazio libero sul flash di avvio. Si noti che questo output mostra anche le dimensioni e l'utilizzo del workspace:

<#root>

```
FPR9K-1-A#
```

```
scope fabric-interconnect a
```

```
FPR9K-1-A /fabric-interconnect #
```

```
show storage
```

```

Storage on local flash drive of fabric interconnect:
  Partition      Size (MBytes)  Used Percentage
  -----
  bootflash      106490         9
  opt             3870           2

```

spare	5767	1
usbdrive	Nothing	Empty
workspace	3845	9

## D. Come ripristinare la configurazione di FXOS ai valori predefiniti?

Utilizzare questo comando:

```
<#root>
```

```
FPR9K-1-A#
```

```
connect local-mgmt
```

```
FPR9K-1-A(local-mgmt)#
```

```
erase configuration
```



Nota: il sistema viene riavviato e l'intera configurazione, incluso l'indirizzo IP di gestione, viene cancellata. Accertarsi quindi che la console sia connessa. Una volta riavviato il sistema, viene eseguita l'applicazione di configurazione ed è possibile immettere nuovamente le informazioni di configurazione della gestione.

---

## Esempio

```
<#root>
```

```
FPR9K-1#
```

```
connect local-mgmt
```

```
FPR9K-1(local-mgmt)#
```

```
erase configuration
```

```
All configurations are erased and system must reboot. Are you sure? (yes/no):
```

```
yes
```

```
Removing all the configuration. Please wait...
/bin/rm: cannot remove directory `/bootflash/sysdebug//tftpd_logs': Device or resource busy
sudo: cannot get working directory
sudo: cannot get working directory
Configurations are cleaned up. Rebooting...
...
System is coming up ... Please wait ...
System is coming up ... Please wait ...
2016 Oct 28 06:31:00  %$ VDC-1 %$ %USER-0-SYSTEM_MSG: Starting bcm_attach - bcm_usd
System is coming up ... Please wait ...
2016 Oct 28 06:31:06  %$ VDC-1 %$ %USER-0-SYSTEM_MSG: Finished bcm_attach... - bcm_usd
2016 Oct 28 06:31:07  %$ VDC-1 %$ %USER-0-SYSTEM_MSG: Enabling Filter on CPU port - bcm_usd
System is coming up ... Please wait ...
2016 Oct 28 06:31:11 switch %$ VDC-1 %$ %VDC_MGR-2-VDC_ONLINE: vdc 1 has come online
System is coming up ... Please wait ...
nohup: appending output to `nohup.out'
    ---- Basic System Configuration Dialog ----
    This setup utility guides you through the basic configuration of
    the system. Only minimal configuration including IP connectivity to
    the Fabric interconnect and its clustering mode is performed through these steps.
    Type Ctrl-C at any time to abort configuration and reboot system.
    To back track or make modifications to already entered values,
    complete input till end of section and answer no when prompted
    to apply configuration.
    You have chosen to setup a new Security Appliance. Continue? (y/n):
```

## D. Come controllare la configurazione bootstrap (interfacce assegnate, versione, ecc.) di un dispositivo logico dalla CLI di FXOS?

```
<#root>
FPR4100-3-A#
scope ssa
FPR4100-3-A /ssa #
show configuration
scope ssa
  enter logical-device FTD4150-3 ftd 1 standalone
    enter external-port-link Ethernet16_ftd Ethernet1/6 ftd
      set decorator ""
      set description ""
      set port-name Ethernet1/6
    exit
  enter external-port-link Ethernet17_ftd Ethernet1/7 ftd
    set decorator ""
    set description ""
    set port-name Ethernet1/7
  exit
```



```

enter external-port-link Ethernet18_ftd Ethernet1/8 ftd
  set decorator ""
  set description ""
  set port-name Ethernet1/8
exit
enter mgmt-bootstrap ftd
  enter bootstrap-key DNS_SERVERS
    set value 192.0.2.100
  exit
  enter bootstrap-key FIREPOWER_MANAGER_IP
    set value 10.62.148.57
  exit
  enter bootstrap-key FIREWALL_MODE
    set value routed
  exit
  enter bootstrap-key FQDN
    set value FTD4150-3.lab.com
  exit
  enter bootstrap-key SEARCH_DOMAINS
    set value lab.com
  exit
  enter bootstrap-key-secret PASSWORD
!    set value
  exit
  enter bootstrap-key-secret REGISTRATION_KEY
!    set value
  exit
  enter ipv4 1 firepower
    set gateway 10.62.148.1
    set ip 10.62.148.89 mask 255.255.255.128
  exit
  exit
  set description ""
  set res-profile-name ""
exit
scope slot 1
  enter app-instance ftd
    enable
    set startup-version 6.0.1.1213
  exit
  set log-level info
exit
scope app asa 9.12.4.12
  set-default
exit
scope app ftd 6.0.1.1213
  accept-license-agreement
  set-default
exit
exit

```

Equivalente a:

Overview Interfaces **Logical Devices** Security Engine Platform Settings

Provisioning - FTD4150-3  
Standalone | Cisco Firepower Threat Defense | 6.0.1.1213

Data Ports

- Ethernet1/1
- Ethernet1/2
- Ethernet1/3
- Ethernet1/4
- Ethernet1/5
- Ethernet1/6
- Ethernet1/8

Application	Version	Management IP	Gateway	Management Port	Status
FTD	6.0.1.1213	10.62.148.89	10.62.148.1	Ethernet1/7	

Ports:

Data Interfaces: Ethernet1/6 Ethernet1/8

Per visualizzare la configurazione FXOS completa, aggiungere la parola chiave 'all' (l'output è composto da diverse pagine):

```
<#root>
```

```
FPR4100-3-A /ssa #
```

```
show configuration all
```

## D. Come controllare lo stato (tipo di porta, stato) delle interfacce FXOS?

```
<#root>
```

```
FPR4100-3-A#
```

```
scope eth-uplink
```

```
FPR4100-3-A /eth-uplink #
```

```
scope fabric a
```

```
FPR4100-3-A /eth-uplink/fabric #
```

```
show interface
```

Interface:

Port Name	Port Type	Admin State	Oper State	State Reason
Ethernet1/1	Data	Disabled	Admin Down	Administratively down
Ethernet1/2	Data	Disabled	Admin Down	Administratively down
Ethernet1/3	Data	Disabled	Admin Down	Administratively down
Ethernet1/4	Data	Disabled	Sfp Not Present	Unknown
Ethernet1/5	Data	Disabled	Admin Down	Administratively down
Ethernet1/6	Data	Enabled	Up	
Ethernet1/7	Mgmt	Enabled	Up	
Ethernet1/8	Data	Enabled	Up	

FPR4100-3-A /eth-uplink/fabric #

Equivale a:

Interface	Type	Admin Speed	Operational Speed	Application	Operation State	Admin State
MGMT	Management					Enabled
Port-channel48	cluster	10gbps	indeterminate		admin-down	Disabled
Ethernet1/1	data	10gbps	10gbps		admin-down	Disabled
Ethernet1/2	data	10gbps	10gbps		admin-down	Disabled
Ethernet1/3	data	10gbps	10gbps		admin-down	Disabled
Ethernet1/4	data	10gbps	10gbps		sfp-not-present	Disabled
Ethernet1/5	data	1gbps	1gbps		admin-down	Disabled
Ethernet1/6	data	1gbps	1gbps	FTD	up	Enabled
Ethernet1/7	mgmt	1gbps	1gbps	FTD	up	Enabled
Ethernet1/8	data	1gbps	1gbps	FTD	up	Enabled

D. Come controllare l'utilizzo della CPU e della memoria sullo chassis?

```
<#root>
```

```
FPR9K-2-A#
```

```
connect fxos
```

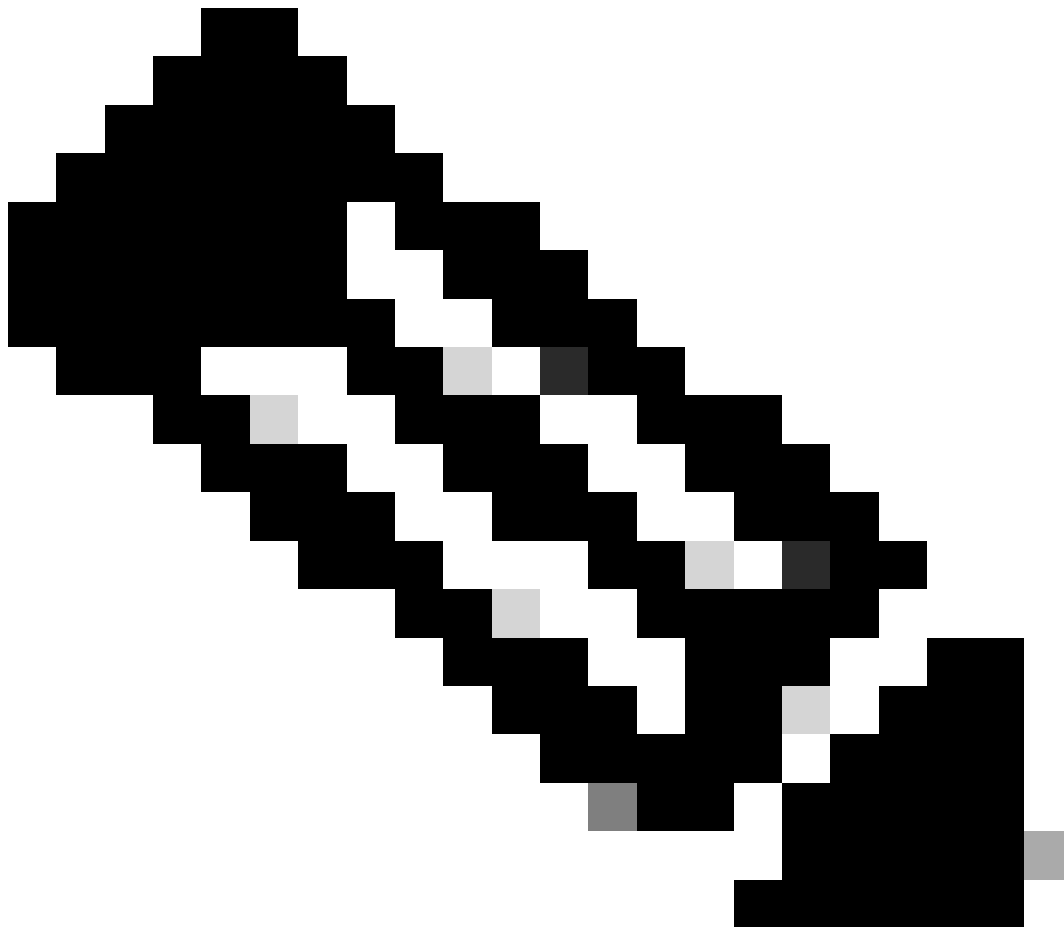
```
FPR9K-2-A(fxos)#
```

```
show system resources
```

```
Load average: 1 minute: 1.60 5 minutes: 1.30 15 minutes: 1.15  
Processes : 967 total, 1 running  
CPU states : 1.8% user, 1.1% kernel, 97.1% idle
```

Memory usage: 16326336K total, 4359740K used, 11966596K free

---



Nota: il totale mostrato nell'output può essere diverso anche per 2 dispositivi che appartengono allo stesso modello. In particolare, il totale è preso dall'output del comando free che a sua volta è preso da /proc/meminfo.

---

Per controllare la memoria:

```
<#root>
```

```
FPR4100-8-A /fabric-interconnect #
```

```
show detail
```

```
Fabric Interconnect:
```

```
  ID: A
```

```
  Product Name: Cisco FPR-4140-SUP
```

PID: FPR-4140-SUP  
VID: V02  
Vendor: Cisco Systems, Inc.  
Serial (SN): FLM12345KL6  
HW Revision: 0  
Total Memory (MB): 8074  
OOB IP Addr: 10.62.148.196  
OOB Gateway: 10.62.148.129  
OOB Netmask: 255.255.255.128  
OOB IPv6 Address: ::  
OOB IPv6 Gateway: ::  
Prefix: 64  
Operability: Operable  
Thermal Status: Ok  
Current Task 1:  
Current Task 2:  
Current Task 3:

Per verificare il controllo dell'utilizzo della memoria per processo (RES = Memoria fisica):

<#root>

FPR4100-2-A-A#

connect local-mgmt

FPR4100-2-A-A(local-mgmt)#

show processes

Cpu(s): 8.0%us, 4.2%sy, 3.9%ni, 83.8%id, 0.0%wa, 0.0%hi, 0.1%si, 0.0%st

Mem: 8267648k total, 3866552k used, 4401096k free, 288k buffers

Swap: 0k total, 0k used, 0k free, 1870528k cached

PID	USER	PR	NI	VRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
5024	root	-2	0	354m	114m	34m	R	43	1.4	7976:51	/isan/bin/bcm_usd
1096	root	20	0	10352	3992	3332	S	0	0.0	0:00.28	sshd: admin@pts/1
1140	root	20	0	117m	78m	53m	S	0	1.0	0:00.42	/isan/bin/ucssh --ucs-mgmt -p admin
1856	root	20	0	2404	632	512	S	0	0.0	2:29.32	/nuova/bin/cmcmmon -f /etc/cmcmmon.conf
1859	root	20	0	23804	1932	1532	S	0	0.0	1427:47	dmserver -F
1860	root	20	0	2244	472	404	S	0	0.0	0:00.01	/sbin/hotplug2 --persistent --set-rules-fi
1861	root	20	0	57116	10m	6552	S	0	0.1	7:28.76	/isan/sbin/sysmgr -V
1864	root	20	0	14044	4136	1072	S	0	0.1	1:06.19	rsyslogd -c3 -i/var/run/rsyslogd.pid
4909	root	20	0	3568	1100	876	S	0	0.0	0:00.48	/isan/sbin/xinetd -syslog local7 -loop 250
4911	root	20	0	58232	12m	6152	S	0	0.2	18:39.24	/isan/sbin/syslogd -d -n -m 0 -r
4912	root	20	0	20076	3532	2368	S	0	0.0	0:00.02	/isan/bin/sdwrapd
4913	root	21	1	2756	300	192	S	0	0.0	0:00.04	/usr/sbin/in.tftpd -l -c -s /bootflash
4914	root	20	0	58312	17m	8724	S	0	0.2	13:45.34	/isan/bin/pfm
4937	root	20	0	2208	332	272	S	0	0.0	0:00.01	/sbin/klogd -2 -x -c 1
4939	root	20	0	26692	4656	3620	S	0	0.1	0:24.01	/isan/bin/vshd
...											

Suggerimento:

1. Raccogliere l'output del comando show process memory
2. Incollare l'output in un file su un computer Linux (cat > top.log)
3. Ordinare il file in base alla colonna RES

Vengono mostrati i GByte, i MByte e così via

<#root>

mzafeiro@MZAFEIRO-JA2YS:~\$

cat top.log | sort -V -k 6

```
1954 root      20   0 1645m 1.6g 1372 S  0.0 20.7 793:32.99 dmserver
7556 root      20   0 207m 9.8m 6184 S  0.0  0.1 73:52.25 udld
5563 root      20   0 333m 9.8m 7032 S  0.0  0.1  5:08.65 cdpd
5523 root      20   0 327m 103m 28m S  0.0  1.3  0:12.38 afm
24040 daemon    23   3 592m 115m 33m S  0.0  1.5 74:56.57 httpd
5329 root      -2   0 384m 132m 29m S  9.4  1.7 27130:09 bcm_usd
5317 root      20   0 401m 150m 35m S  0.0  1.9 33:19.05 fwm
5625 root      24   4 450m 179m 35m S  0.0  2.3 275:38.25 svc_sam_statsAG
5614 root      23   3 495m 247m 54m S  0.0  3.2 355:59.95 svc_sam_dme
21688 root      20   0 2672 1080 880 S  0.0  0.0  3:15.29 ntpd
8819 root      35  15 2408 1084 748 R  5.6  0.0  0:00.06 top
```

## D. Come controllare il tipo di ricetrasmittitore dell'interfaccia dello chassis?

In Firepower 4100/9300 utilizzare questo comando:

<#root>

FPR9K-2-A#

connect fxos

FPR9K-2-A(fxos)#

show interface e1/3 transceiver details

Ethernet1/3

```
transceiver is present
type is 1000base-T
name is CISCO-METHODE
part number is SP7041-R
revision is
serial number is FLM12345KL6
nominal bitrate is 1300 MBit/sec
Link length supported for copper is 100 m
cisco id is --
cisco extended id number is 4
```

DOM is not supported

FPR9K-2-A(fxos)#

Nel caso della fibra ottica, l'output è il seguente:

```
<#root>
```

```
FPR4100-1-A(fxos)#
```

```
show interface e1/1 transceiver details
```

```
Ethernet1/1
```

```
transceiver is present
type is 10Gbase-SR
name is CISCO-JDSU
part number is PLRXPL-SC-S43-CS
revision is 1
serial number is FLM12345KL6
nominal bitrate is 10300 MBit/sec
Link length supported for 50/125um OM2 fiber is 82 m
Link length supported for 62.5/125um fiber is 26 m
Link length supported for 50/125um OM3 fiber is 300 m
cisco id is --
cisco extended id number is 4

Calibration info not available
```

In Firepower 1000/2100 utilizzare questo comando:

```
<#root>
```

```
FPR2100#
```

```
scope fabric-interconnect
```

```
FPR2100 /fabric-interconnect #
```

```
show inventory expand detail | egrep ignore-case "Port|Xcvr"
```

```
...
```

```
Slot 1 Port 13:
  Xcvr: 10 Gbase SR
  Xcvr Model: PLRXPL-SC-S43-C
  Xcvr Vendor: Cisco Systems, Inc.
  Xcvr Serial: ABCD1234
Slot 1 Port 14:
  Xcvr: 10 Gbase SR
  Xcvr Model: PLRXPL-SC-S43-C
  Xcvr Vendor: Cisco Systems, Inc.
  Xcvr Serial: VWXY1234
Slot 1 Port 15:
  Xcvr: Non Present
  Xcvr Model:
  Xcvr Vendor:
  Xcvr Serial:
Slot 1 Port 16:
  Xcvr: Non Present
  Xcvr Model:
  Xcvr Vendor:
```

Xcvr Serial:

## D. Come controllare le informazioni su modulo/blade/server/netmod (tipo hardware/PID/SN/memoria/core, ecc.)?

Questo comando mostra l'ID prodotto (PID) e il numero di serie (SN) dello chassis e dei moduli (netmod)

```
<#root>
```

```
FP4110-7-A#
```

```
connect fxos
```

```
FP4110-7-A(fxos)#
```

```
show inventory
```

```
NAME: "Chassis", DESCR: "Firepower 41xx Security Appliance"  
PID: FPR-4110-SUP      , VID: V02 , SN: FLM12345KL6 <--- Chassis SN
```

```
NAME: "Module 1", DESCR: "Firepower 41xx Supervisor"  
PID: FPR-4110-SUP      , VID: V02 , SN: FLM12345KL6 <--- Embedded module on FPR4100
```

```
NAME: "Module 3", DESCR: "Firepower 6x10G FTW SFP+ SR NM"  
PID: FPR-NM-6X10SR-F   , VID: V00 , SN: FLM12345KL6 <--- FTW Netmode SN
```

FPR4110 ha 2 slot per i moduli di rete (2 e 3) e il dispositivo nell'esempio ha un FTW netmod installato nello slot 3.

```
<#root>
```

```
FPR9K-1-A#
```

```
scope chassis 1
```

```
FPR9K-1-A /chassis #
```

```
show inventory server
```

```
Chassis 1:
```

```
Servers:
```

```
Server 1/1:
```

```
Equipped Product Name: Cisco Firepower 9000 Series High Performance Security Module  
Equipped PID: FPR9K-SM-36  
Equipped VID: V01  
Equipped Serial (SN): FLM12345KL6
```



Slot Status: Equipped  
Acknowledged Product Name: Cisco Firepower 9000 Series High Performance Security Module  
Acknowledged PID: FPR9K-SM-36  
Acknowledged VID: V01  
Acknowledged Serial (SN): FLM12345KL6  
Acknowledged Memory (MB): 262144  
Acknowledged Effective Memory (MB): 262144  
Acknowledged Cores: 36  
Acknowledged Adapters: 2

Server 1/2:

Equipped Product Name: Cisco Firepower 9000 Series High Performance Security Module  
Equipped PID: FPR9K-SM-36  
Equipped VID: V01  
Equipped Serial (SN): FLM12345KL6  
Slot Status: Equipped  
Acknowledged Product Name: Cisco Firepower 9000 Series High Performance Security Module  
Acknowledged PID: FPR9K-SM-36  
Acknowledged VID: V01  
Acknowledged Serial (SN): FLM12345KL6  
Acknowledged Memory (MB): 262144  
Acknowledged Effective Memory (MB): 262144  
Acknowledged Cores: 36  
Acknowledged Adapters: 2

Server 1/3:

Equipped Product Name: Cisco Firepower 9000 Series High Performance Security Module  
Equipped PID: FPR9K-SM-36  
Equipped VID: V01  
Equipped Serial (SN): FLM12345KL6  
Slot Status: Equipped  
Acknowledged Product Name: Cisco Firepower 9000 Series High Performance Security Module  
Acknowledged PID: FPR9K-SM-36  
Acknowledged VID: V01  
Acknowledged Serial (SN): FLM12345KL6  
Acknowledged Memory (MB): 262144  
Acknowledged Effective Memory (MB): 262144  
Acknowledged Cores: 36  
Acknowledged Adapters: 2

Server1/1 = modulo/blade 1

Server1/2 = modulo/blade 2

Server1/3 = modulo/blade 3

PID modello FPR41xx:

- FPR4K-SM-12 = FPR4110
- FPR4K-SM-24 = FPR4120
- FPR4K-SM-36 = FPR4140
- FPR4K-SM-4 = FPR4150
- FPR4K-SM-24S = FPR4115
- FPR4K-SM-32S = FPR4125
- FPR4K-SM-44S = FPR4145

È inoltre possibile ottenere altre informazioni nell'ambito del server <chassis-id/blade-id>:

<#root>

FP9300-A#

scope server 1/1

FP9300-A /chassis/server #

show inventory

<CR>

```
>      Redirect it to a file
>>    Redirect it to a file in append mode
adapter Adapter
bios   Bios
board  Board
cpu    Cpu
detail Detail
expand Expand
memory Memory
mgmt   Mgmt
storage Storage
|      Pipe command output to filter
```

FP9300-A /chassis/server #

show inventory storage

Server 1/1:

```
Name:
User Label:
Equipped PID: FPR9K-SM-36
Equipped VID: V01
Equipped Serial (SN): FLM12345PBD
Slot Status: Equipped
Acknowledged Product Name: Cisco Firepower 9000 Series High Performance Security Module
Acknowledged PID: FPR9K-SM-36
Acknowledged VID: 01
Acknowledged Serial (SN): FLM67890PBD
Acknowledged Memory (MB): 262144
Acknowledged Effective Memory (MB): 262144
Acknowledged Cores: 36
Acknowledged Adapters: 2
Motherboard:
  Product Name: Cisco Firepower 9000 Series High Performance Security Module
  PID: FPR9K-SM-36
  VID: V01
  Vendor: Cisco Systems Inc
  Serial (SN): FLM12345KL6
  HW Revision: 0

  RAID Controller 1:
    Type: SAS
    Vendor: Cisco Systems Inc
    Model: UCSB-MRAID12G
    Serial: FLM12345KL6
```

HW Revision: C0  
PCI Addr: 01:00.0  
Raid Support: RAID0, RAID1  
OOB Interface Supported: Yes  
Rebuild Rate: 30  
Controller Status: Optimal

Local Disk 1:

Product Name:  
PID:  
VID:  
Vendor: TOSHIBA  
Model: PX02SMF080  
Vendor Description:  
Serial: FLM12345KL6  
HW Rev: 0  
Block Size: 512  
Blocks: 1560545280  
Operability: Operable  
Oper Qualifier Reason: N/A  
Presence: Equipped  
Size (MB): 761985  
Drive State: Online  
Power State: Active  
Link Speed: 12 Gbps  
Device Type: SSD

Local Disk 2:

Product Name:  
PID:  
VID:  
Vendor: TOSHIBA  
Model: PX02SMF080  
Vendor Description:  
Serial: FLM12345KL6  
HW Rev: 0  
Block Size: 512  
Blocks: 1560545280  
Operability: Operable  
Oper Qualifier Reason: N/A  
Presence: Equipped  
Size (MB): 761985  
Drive State: Online  
Power State: Active  
Link Speed: 12 Gbps  
Device Type: SSD

Local Disk Config Definition:

Mode: RAID 1 Mirrored  
Description:  
Protect Configuration: Yes

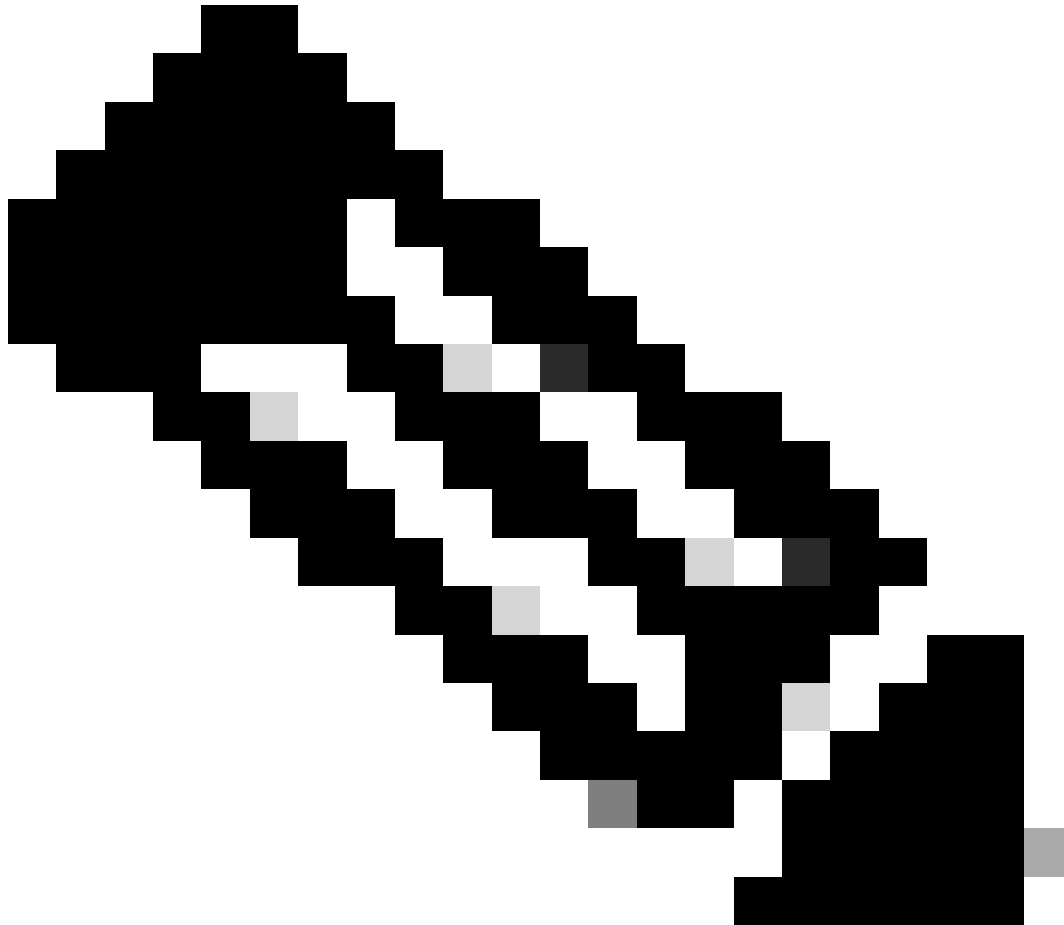
Virtual Drive 0:

Type: RAID 1 Mirrored  
Block Size: 512  
Blocks: 1560545280  
Operability: Operable  
Presence: Equipped  
Size (MB): 761985  
Lifecycle: Allocated  
Drive State: Optimal  
Strip Size (KB): 64

Access Policy: Read Write  
Read Policy: Normal  
Configured Write Cache Policy: Write Through  
Actual Write Cache Policy: Write Through  
IO Policy: Direct  
Drive Cache: No Change  
Bootable: True

FP9300-A /chassis/server #

---



Nota: sulle piattaforme FP41xx, poiché non utilizzano RAID, il comando `show inventory storage` visualizza lo stato del controller come Sconosciuto. Il motivo principale per cui non sono RAID è che il secondo SSD viene utilizzato per altre funzioni come MSP (Malware Storage Pack) su un dispositivo logico FTD.

---

D. Come eliminare un'immagine ASA o FTD dalla GUI e dalla

# CLI di FXOS?

Dalla GUI di FCM:

Per eliminare dalla GUI, selezionare System > Updates (Sistema > Aggiornamenti) ed eliminare l'immagine:

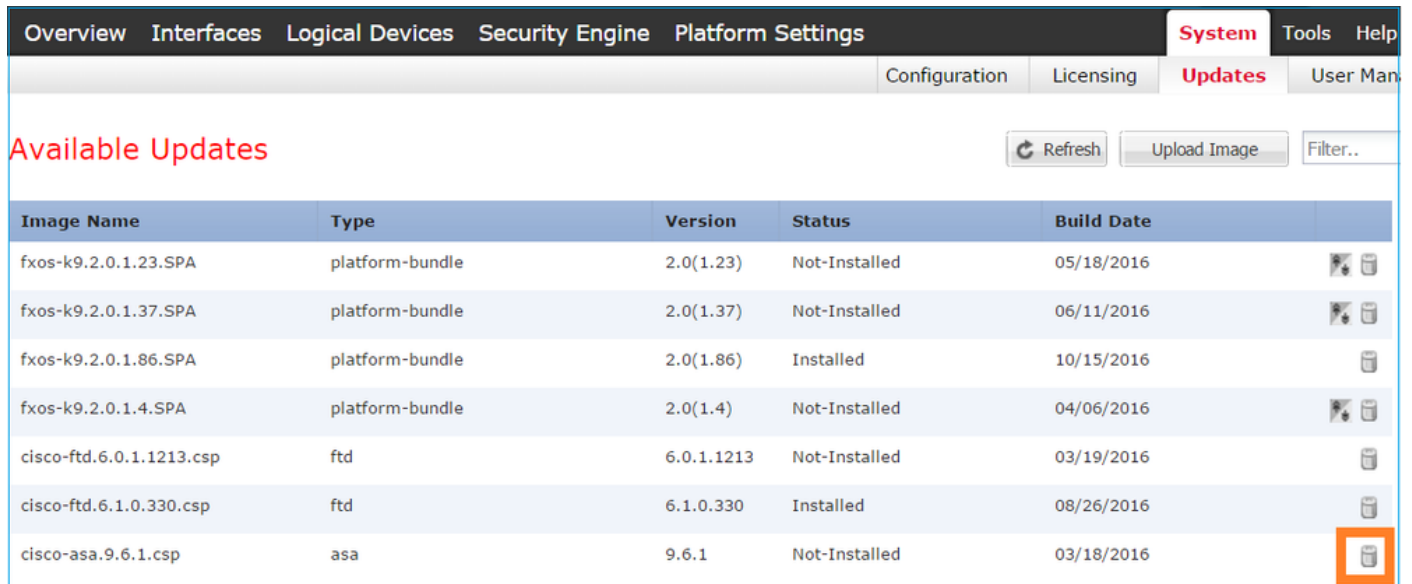












Image Name	Type	Version	Status	Build Date	
fxos-k9.2.0.1.23.SPA	platform-bundle	2.0(1.23)	Not-Installed	05/18/2016	 
fxos-k9.2.0.1.37.SPA	platform-bundle	2.0(1.37)	Not-Installed	06/11/2016	 
fxos-k9.2.0.1.86.SPA	platform-bundle	2.0(1.86)	Installed	10/15/2016	
fxos-k9.2.0.1.4.SPA	platform-bundle	2.0(1.4)	Not-Installed	04/06/2016	 
cisco-ftd.6.0.1.1213.csp	ftd	6.0.1.1213	Not-Installed	03/19/2016	
cisco-ftd.6.1.0.330.csp	ftd	6.1.0.330	Installed	08/26/2016	
cisco-asa.9.6.1.csp	asa	9.6.1	Not-Installed	03/18/2016	

Dalla CLI di FXOS

```
<#root>
```

```
FPR4100#
```

```
scope ssa
```

```
FPR4100 /ssa #
```

```
show app
```

```
Application:
```

Name	Version	Description	Author	Deploy Type	CSP Type	Is Default App
asa	9.6.1	N/A	cisco	Native	Application	Yes
ftd	6.0.1.1213	N/A	cisco	Native	Application	No
ftd	6.1.0.330	N/A	cisco	Native	Application	Yes

```
FPR4100 /ssa #
```

```
delete app asa 9.6.1
```

```
FPR4100 /ssa* #
```

```
commit
```

```
FPR4100 /ssa #
```

```
show app
```

Application:

Name	Version	Description	Author	Deploy Type	CSP Type	Is Default App
ftd	6.0.1.1213	N/A	cisco	Native	Application	No
ftd	6.1.0.330	N/A	cisco	Native	Application	Yes

## D. Come controllare la versione FXOS dalla CLI?

Ci sono alcuni modi per farlo.

Modo 1

<#root>

FPR4100#

```
show fabric-interconnect firmware
```

Fabric Interconnect A:

```
Running-Kern-Vers: 5.0(3)N2(4.01.65)
Running-Sys-Vers: 5.0(3)N2(4.01.65)
Package-Vers: 2.0(1.86)
Startup-Kern-Vers: 5.0(3)N2(4.01.65)
Startup-Sys-Vers: 5.0(3)N2(4.01.65)
Act-Kern-Status: Ready
Act-Sys-Status: Ready
Bootloader-Vers:
```

Questo è lo stesso che si può vedere dalla GUI di FCM:

The screenshot shows the FCM GUI with the 'Overview' tab selected. The device name is 'FPR4100' and the IP address is '10.62.148.38'. The 'Model' field is empty, and the 'Version' field is '2.0(1.86)', which is highlighted with an orange box. The 'Operational State' field is empty.

Modo 2

<#root>

FP4145-1#

```
show version
```

```
Version: 2.6(1.192)
```

Startup-Vers: 2.6(1.192)

## D. Come verificare l'MTU delle interfacce su FXOS?

Per impostazione predefinita, lo chassis Firepower 4100/9300 supporta i frame jumbo. È possibile controllare l'MTU dell'interfaccia con questo comando:

```
<#root>
```

```
FPR9K-1-A#
```

```
connect fxos
```

```
FPR9K-1-A(fxos)# show hardware internal bcm-usd info phy-info all
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| port phy info                                                                                                     |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
front-port : 1          asic-port : 125          sfp installed : yes
  enable : ena          speed : 1G           autoneg : on
interface : (10)XFI     duplex: half        linkscan : sw
  pause_tx : 0x0        pause_rx : 0x0
```

```
max frame : 9216
```

```
local_advert : 0x20      remote_advert : 0x420      port_40g_enable : 0
local_fault : 0x1        remote_fault : 0x0
xcvr sfp type : (1)PHY_SFP_1G_COPPER
```

```
TSC4 registers:
```

```
txfir(0xc252):0x0000    txdrv(0xc017):0x0000      lane(0x9003):0x1b1b
```

```
Asic 56846 Registers
```

```
signal_detect(1.0x81d0):0x0000    link_status(1.0x81d1):0x0000
rx_link_state(1.0x0):0x0000        pcs_rx_tx_fault(1.0x0008):0x0000
pcs_block_status_0x20(1.0x20) :0x0000
pcs_block_status_0x21(1.0x021) : 0x0000
transmitter_reg(1.0x8000):0x0000    micro_ver(1.0x81f0):0x0000
```

In alternativa, controllare l'MTU nella shell dei comandi fxos:

```
<#root>
```

```
KSEC-FPR4112-4#
```

```
connect fxos
```

```
<output is skipped>
```

```
KSEC-FPR4112-4(fxos)#
```

```
show interface ethernet 1/1
```

Ethernet1/1 is up  
Dedicated Interface  
Hardware: 1000/10000 Ethernet, address: 14a2.a02f.07c0 (bia 14a2.a02f.07c0)  
Description: U: Uplink

MTU 9216 bytes

, BW 1000000 Kbit, DLY 10 usec

## D. Come controllare le applicazioni installate?

Dalla CLI dello chassis, usare il comando `scope ssa`, quindi visualizzare i dettagli di espansione dello slot.

Le stesse informazioni si trovano sul file `sam_techsupportinfo` all'interno dello chassis `show tech bundle`.

```
<#root>
```

```
`scope ssa`  
`show slot expand detail`
```

Slot:

```
Slot ID: 1  
Log Level: Info  
Admin State: Ok  
Operational State: Online  
Disk State: Ok  
Clear Log Data: Available
```

Application Instance:

```
Application Name: asa  
Admin State: Enabled  
Operational State: Online  
Running Version: 9.6.2  
Startup Version: 9.6.2  
Hotfixes:  
Externally Upgraded: No  
Cluster Oper State: Not Applicable  
Current Job Type: Start  
Current Job Progress: 100  
Current Job State: Succeeded  
Clear Log Data: Available  
Error Msg:  
Current Task:
```

App Attribute:

```
App Attribute Key: mgmt-ip  
Value: 0.0.0.0
```

```
App Attribute Key: mgmt-url  
Value: https://0.0.0.0/
```

Heartbeat:

```
Last Received Time: 2017-03-15T10:25:02.220
```



Heartbeat Interval: 1  
Max Number of Missed heartbeats Permitted: 3

Resource:

Allocated Core NR: 46  
Allocated RAM (KB): 233968896  
Allocated Data Disk (KB): 20971528  
Allocated Binary Disk (KB): 174964  
Allocated Secondary Disk (KB): 0

Heartbeat:

Last Received Time: 2017-03-15T10:25:00.447  
Heartbeat Interval: 5  
Max Number of Missed heartbeats Permitted: 3

Monitor:

OS Version: 9.6(1.150)  
CPU Total Load 1 min Avg: 48.110001  
CPU Total Load 5 min Avg: 48.110001  
CPU Total Load 15 min Avg: 48.110001  
Memory Total (KB): 264377600  
Memory Free (KB): 236835112  
Memory Used (KB): 27542488  
Memory App Total (KB): 233968896  
Disk File System Count: 5  
Blade Uptime: up 1 day, 6:56  
Last Updated Timestamp: 2017-03-15T10:24:10.306

Disk File System:

File System: /dev/sda1  
Mount Point: /mnt/boot  
Disk Total (KB): 7796848  
Disk Free (KB): 7694456  
Disk Used (KB): 102392

File System: /dev/sda2  
Mount Point: /opt/cisco/config  
Disk Total (KB): 1923084  
Disk Free (KB): 1734420  
Disk Used (KB): 90976

File System: /dev/sda3  
Mount Point: /opt/cisco/platform/logs  
Disk Total (KB): 4805760  
Disk Free (KB): 4412604  
Disk Used (KB): 149036

File System: /dev/sda5  
Mount Point: /var/data/cores  
Disk Total (KB): 48061320  
Disk Free (KB): 43713008  
Disk Used (KB): 1906892

File System: /dev/sda6  
Mount Point: /opt/cisco/csp  
Disk Total (KB): 716442836  
Disk Free (KB): 714947696  
Disk Used (KB): 1495140

## D. Come verificare la configurazione del canale della porta dalla CLI di FXOS?

Comandi di verifica del canale della porta

### Controllo 1

Per verificare quali porte-canali sono attualmente configurati sullo chassis:

```
<#root>
```

```
FPR9K-1-A#
```

```
connect fxos
```

```
FPR9K-1-A(fxos)# show port-channel summary
```

```
Flags:  D - Down          P - Up in port-channel (members)
        I - Individual    H - Hot-standby (LACP only)
        s - Suspended     r - Module-removed
        S - Switched      R - Routed
        U - Up (port-channel)
        M - Not in use. Min-links not met
```

```
-----
```

Group	Port-Channel	Type	Protocol	Member Ports
11	Po11(SU)	Eth	LACP	Eth1/4(P) Eth1/5(P)
15	Po15(SD)	Eth	LACP	Eth1/6(D)
48	Po48(SU)	Eth	LACP	Eth1/2(P) Eth1/3(P)

```
-----
```

### Controllo 2

Per verificare i canali porta allocati a una periferica logica:

```
<#root>
```

```
FPR9K-1-A#
```

```
scope ssa
```

```
FPR9K-1-A /ssa #
```

```
show configuration
```

```
scope ssa
  enter logical-device ftd_682021968 ftd "1,2,3" clustered
    enter cluster-bootstrap
      set chassis-id 1
      set ipv4 gateway 0.0.0.0
      set ipv4 pool 0.0.0.0 0.0.0.0
      set ipv6 gateway ::
      set ipv6 pool :: ::
      set virtual ipv4 0.0.0.0 mask 0.0.0.0
```

```

!       set virtual ipv6 :: prefix-length ""
       set key
       set mode spanned-etherchannel
       set name 682021968
       set site-id 0
exit
enter external-port-link Ethernet11_ftd Ethernet1/1 ftd
       set decorator ""
       set description ""
       set port-name Ethernet1/1
exit
enter external-port-link PC11_ftd Port-channel11 ftd
       set decorator ""
       set description ""
       set port-name Port-channel11
exit
enter external-port-link PC48_ftd Port-channel48 ftd
       set decorator ""
       set description ""
       set port-name Port-channel48
exit

```

### Controllo 3

Per controllare le statistiche del traffico del canale porta per porta:

<#root>

```
FPR9K-1-A(fxos)#
```

```
show port-channel traffic interface port-channel 11
```

ChanId	Port	Rx-Ucst	Tx-Ucst	Rx-Mcst	Tx-Mcst	Rx-Bcst	Tx-Bcst
11	Eth1/4	62.91%	0.0%	58.90%	49.99%	100.00%	0.0%
11	Eth1/5	37.08%	0.0%	41.09%	50.00%	0.0%	0.0%

### Controllo 4

Per controllare i dettagli di un canale porta specifico:

<#root>

```
FPR9K-1-A(fxos)#
```

```
show port-channel database interface port-channel 11
```

```

port-channel11
  Last membership update is successful
  2 ports in total, 2 ports up
  First operational port is Ethernet1/4
  Age of the port-channel is 0d:20h:26m:27s
  Time since last bundle is 0d:18h:29m:07s
  Last bundled member is Ethernet1/5
  Ports:  Ethernet1/4      [active ] [up] *

```

Ethernet1/5 [active ] [up]

## Controllo 5

Per controllare l'ID sistema LACP locale:

```
<#root>
```

```
FPR9K-1-A(fxos)#
```

```
show lacp system-identifier
```

```
32768,b0-aa-77-2f-81-bb
```

## Controllo 6

Per controllare l'ID sistema LACP dei dispositivi a monte e i flag di stato LACP:

```
<#root>
```

```
FPR9K-1-A(fxos)#
```

```
show lacp neighbor
```

```
Flags: S - Device is sending Slow LACPDUs F - Device is sending Fast LACPDUs  
A - Device is in Active mode P - Device is in Passive mode
```

```
port-channel11 neighbors
```

```
Partner's information
```

Port	Partner System ID	Partner Port Number	Age	Partner Flags
Eth1/4	32768,4-62-73-d2-65-0	0x118	66828	FA
	LACP Partner Port Priority	Partner Oper Key		Partner Port State
	32768	0xb		0x3d

```
Partner's information
```

Port	Partner System ID	Partner Port Number	Age	Partner Flags
Eth1/5	32768,4-62-73-d2-65-0	0x119	66826	FA
	LACP Partner Port Priority	Partner Oper Key		Partner Port State
	32768	0xb		0x3d

## Controllo 7

Per controllare la cronologia degli eventi Port-Channel:

```
<#root>
```

FPR9K-1-A(fxos)#

show port-channel internal event-history all

Low Priority Pending queue: len(0), max len(1) [Thu Apr 6 11:07:48 2017]  
High Priority Pending queue: len(0), max len(16) [Thu Apr 6 11:07:48 2017]  
PCM Control Block info:  
pcm\_max\_channels : 4096  
pcm\_max\_channel\_in\_use : 48  
pc count : 3  
hif-pc count : 0  
Max PC Cnt : 104  
Load-defer timeout : 120

=====  
PORT CHANNELS:  
2LvPC PO in system : 0

port-channel11  
channel : 11  
bundle : 65535  
ifindex : 0x1600000a  
admin mode : active  
oper mode : active  
fop ifindex : 0x1a003000  
nports : 2  
active : 2  
pre cfg : 0  
l1l : 0x0 (0)  
l1f : 0x0  
iod : 0x78 (120)  
global id : 3  
flag : 0  
lock count : 0  
num. of SIs: 0  
ac mbrs : 0 0  
l1cp graceful conv disable : 0  
l1cp suspend indiv disable : 1  
pc min-links : 1  
pc max-bundle : 16  
pc max active members : 32  
pc is-suspend-minlinks : 0  
port load defer enable : 0  
l1cp fast-select-hot-standby disable : 0  
ethpm bundle lock count : 0  
bundle res global id : 2

Members:

Ethernet1/4 [bundle\_no = 0]

Ethernet1/5 [bundle\_no = 0]

port-channel external lock:

Lock Info: resource [eth-port-channel 11]

type[0] p\_gwrap[(nil)]

FREE @ 246108 usecs after Wed Apr 5 14:18:10 2017

type[1] p\_gwrap[(nil)]

FREE @ 436471 usecs after Wed Apr 5 16:15:30 2017

type[2] p\_gwrap[(nil)]

FREE @ 436367 usecs after Wed Apr 5 16:15:30 2017

0x1600000a

internal (ethpm bundle) lock:

Lock Info: resource [eth-port-channel 11]

type[0] p\_gwrap[(nil)]

FREE @ 246083 usecs after Wed Apr 5 14:18:10 2017

type[1] p\_gwrap[(nil)]

FREE @ 610546 usecs after Wed Apr 5 16:19:04 2017

```
type[2] p_gwrap[nil]  
FREE @ 610437 usecs after Wed Apr 5 16:19:04 2017  
0x1600000a
```

```
>>>>FSM: <eth-port-channel 11> has 194 logged transitions<<<<<<
```

- 1) FSM:<eth-port-channel 11> Transition at 557291 usecs after Wed Apr 5 16:04:27 2017  
Previous state: [PCM\_PC\_ST\_WAIT\_REL\_RESRC]  
Triggered event: [PCM\_PC\_EV\_REL\_RESRC\_DONE]  
Next state: [PCM\_PC\_ST\_INIT]
- 2) FSM:<eth-port-channel 11> Transition at 49036 usecs after Wed Apr 5 16:07:18 2017  
Previous state: [PCM\_PC\_ST\_INIT]  
Triggered event: [PCM\_PC\_EV\_L2\_CREATE]  
Next state: [PCM\_PC\_ST\_WAIT\_CREATE]
- 3) FSM:<eth-port-channel 11> Transition at 49053 usecs after Wed Apr 5 16:07:18 2017  
Previous state: [PCM\_PC\_ST\_WAIT\_CREATE]  
Triggered event: [PCM\_PC\_EV\_L2\_CREATED]  
Next state: [PCM\_PC\_ST\_CREATED]

## Controllo 8

Debug lacp all genera un output molto grande:

```
<#root>
```

```
FPR9K-1-A(fxos)#
```

```
debug lacp all
```

```
2017 Jul 11 10:42:23.854160 lacp: lacp_pkt_parse_pdu(569): lacp_pkt_parse_pdu: got packet from actorpor  
2017 Jul 11 10:42:23.854177 lacp: lacp_pkt_compute_port_params(1163): Ethernet1/3(0x1a002000): pa aggre  
2017 Jul 11 10:42:23.854190 lacp: lacp_pkt_compute_port_params(1170): p_e1=(8000, 2-0-0-0-0-1, 136, 800  
2017 Jul 11 10:42:23.854198 lacp: lacp_pkt_compute_port_params(1172): p_e1_pkt=(8000, 2-0-0-0-0-1, 136,  
2017 Jul 11 10:42:23.854207 lacp: lacp_utils_get_obj_type_from_ifidx(390): lacp_utils_get_obj_type_from  
2017 Jul 11 10:42:23.854218 lacp: Malloc in fu_fsm_event_new@../utils/fsmutils/fsm.c[5317]-ty[1]0x9bf71  
2017 Jul 11 10:42:23.854228 lacp: lacp_utils_cr_fsm_event(572): Called from lacp_utils_create_fsm_event.  
2017 Jul 11 10:42:23.854237 lacp: Malloc in fu_fsm_event_pair_new@../utils/fsmutils/fsm.c[5327]-ty[2]0x  
2017 Jul 11 10:42:23.854248 lacp: fu_fsm_execute_all: match_msg_id(0), log_already_open(0)  
2017 Jul 11 10:42:23.854257 lacp: Malloc in fu_fsm_event_new@../utils/fsmutils/fsm.c[5317]-ty[1]0x9bf71  
2017 Jul 11 10:42:23.854268 lacp: fu_fsm_execute: (Ethernet1/3)  
2017 Jul 11 10:42:23.854275 lacp: current state [LACP_ST_PORT_MEMBER_COLLECTING_AND_DISTRIBUTING_EN  
2017 Jul 11 10:42:23.854283 lacp: current event [LACP_EV_PARTNER_PDU_IN_SYNC_COLLECT_ENABLED_DISTRI  
2017 Jul 11 10:42:23.854291 lacp: next state [FSM_ST_NO_CHANGE]  
2017 Jul 11 10:42:23.854304 lacp: lacp_proto_get_state(969): IF Ethernet1/3(0x1a002000): end PartnerEnd  
2017 Jul 11 10:42:23.854314 lacp: lacp_proto_record_pdu(2266): Recording PDU for LACP pkt on IF Etherne  
2017 Jul 11 10:42:23.854325 lacp: lacp_proto_set_state(900): IF Ethernet1/3(0x1a002000): Set end ActorE  
2017 Jul 11 10:42:23.854335 lacp: lacp_proto_get_state(969): IF Ethernet1/3(0x1a002000): end PartnerEnd  
2017 Jul 11 10:42:23.854344 lacp: lacp_proto_update_ntt(2211): updateNTT called for IF Ethernet1/3(0x1a  
2017 Jul 11 10:42:23.854355 lacp: lacp_proto_get_state(969): IF Ethernet1/3(0x1a002000): end ActorEnd(1  
2017 Jul 11 10:42:23.854362 lacp: lacp_timer_start_w_chgd_time(681): lacp_timer_start_w_chgd_time: star  
2017 Jul 11 10:42:23.854377 lacp: lacp_timer_start(637): Timer Started: Timer_Arg ([rid type IF-Rid: if  
2017 Jul 11 10:42:23.854386 lacp: lacp_timer_start(638): Timer period=15 seconds  
2017 Jul 11 10:42:23.854396 lacp: Free ptr in fu_fsm_execute@../utils/fsmutils/fsm.c[1091] for addr 0x9  
2017 Jul 11 10:42:23.854408 lacp: fu_fsm_execute_all: done processing event LACP_EV_PARTNER_PDU_IN_SYNC  
2017 Jul 11 10:42:23.854419 lacp: fu_mts_drop ref 0x9bf7320 opc 90117
```

```

2017 Jul 11 10:42:23.854434 lACP: fu_fsm_execute_all: MTS_OPC_NET_L2_RX_DATA_HDR(msg_id 2623696) dropped
2017 Jul 11 10:42:23.854445 lACP: fu_fsm_engine_post_event_processing
2017 Jul 11 10:42:23.854453 lACP: end of while in fu_fsm_engine
2017 Jul 11 10:42:23.854461 lACP: fu_handle_process_hot_plugin_msg: Entered the function line 143
2017 Jul 11 10:42:23.854468 lACP: begin fu_fsm_engine: line[2357]
2017 Jul 11 10:42:24.361501 lACP: lACP_pkt_encode_pdu_helper(770): lACP_pkt_encode_pdu_helper: pkt_len=
2017 Jul 11 10:42:24.361530 lACP: lACP_pkt_encode_pdu_helper(797): lACP_pkt_encode_pdu_helper: if_idx=E
2017 Jul 11 10:42:24.361542 lACP: lACP_debug_wrapper_t1(1718): Executing [mcecm_api_is_pc_mcec]
2017 Jul 11 10:42:24.361551 lACP: lACP_debug_wrapper_t1(1718): input: if_index = [0x16000000]
2017 Jul 11 10:42:24.361559 lACP: lACP_debug_wrapper_t1(1718): Executing [mcecm_cache_is_pc_mcec]
2017 Jul 11 10:42:24.361568 lACP: lACP_debug_wrapper_t1(1718): output:0
2017 Jul 11 10:42:24.361589 lACP: lACP_pkt_encode_pdu_helper(842): 0x1a002000: Set short_timeout to per
2017 Jul 11 10:42:24.361599 lACP: lACP_pkt_encode_pdu_helper(879): lACP_pkt_encode_pdu_helper: actor-po
2017 Jul 11 10:42:24.361612 lACP: lACP_pkt_encode_pdu_helper(906): lACP_pkt_encode_pdu_helper: if_idx=E
2017 Jul 11 10:42:24.361624 lACP: lACP_pkt_encode_pdu_helper(910): lACP_pkt_encode_pdu_helper: if_idx=E
2017 Jul 11 10:42:24.361636 lACP: lACP_net_tx_data(206): lACP_net_tx_data: Sending buffer with length 1
2017 Jul 11 10:42:24.361648 lACP: lACP_net_tx_data(215): 01 01 01 14 ffff
2017 Jul 11 10:42:24.361658 lACP: lACP_net_tx_data(215): ffff
2017 Jul 11 10:42:24.361668 lACP: lACP_net_tx_data(215): 00 00 00 02 14 ffff
2017 Jul 11 10:42:24.361678 lACP: lACP_net_tx_data(215): ffff
2017 Jul 11 10:42:24.361689 lACP: lACP_net_tx_data(215): 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2017 Jul 11 10:42:24.361700 lACP: lACP_net_tx_data(215): 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2017 Jul 11 10:42:24.361710 lACP: lACP_net_tx_data(215): 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2017 Jul 11 10:42:24.361721 lACP: lACP_net_tx_data(247): Ethernet1/3(0x1a002000): Tx LACP PDU len: 110
2017 Jul 11 10:42:24.361753 lACP: lACP_proto_get_state(969): IF Ethernet1/3(0x1a002000): end PartnerEnd
2017 Jul 11 10:42:24.361764 lACP: lACP_proto_restart_tx_timer(1802): lACP_proto_restart_tx_timer: got e
2017 Jul 11 10:42:24.361773 lACP: lACP_proto_restart_tx_timer(1825): lACP_proto_restart_tx_timer: flag
2017 Jul 11 10:42:24.361782 lACP: lACP_timer_start_w_chgd_time(681): lACP_timer_start_w_chgd_time: star
2017 Jul 11 10:42:24.361798 lACP: lACP_timer_start(637): Timer Started: Timer_Arg ([rid type IF-Rid: if
2017 Jul 11 10:42:24.361807 lACP: lACP_timer_start(638): Timer period=1 seconds
2017 Jul 11 10:42:24.361820 lACP: lACP_pkt_encode_pdu_helper(770): lACP_pkt_encode_pdu_helper: pkt_len=
2017 Jul 11 10:42:24.361833 lACP: lACP_pkt_encode_pdu_helper(797): lACP_pkt_encode_pdu_helper: if_idx=E
2017 Jul 11 10:42:24.361841 lACP: lACP_debug_wrapper_t1(1718): Executing [mcecm_api_is_pc_mcec]
2017 Jul 11 10:42:24.361849 lACP: lACP_debug_wrapper_t1(1718): input: if_index = [0x16000000]
2017 Jul 11 10:42:24.361857 lACP: lACP_debug_wrapper_t1(1718): Executing [mcecm_cache_is_pc_mcec]
2017 Jul 11 10:42:24.361865 lACP: lACP_debug_wrapper_t1(1718): output:0
2017 Jul 11 10:42:24.361879 lACP: lACP_pkt_encode_pdu_helper(842): 0x1a003000: Set short_timeout to per
2017 Jul 11 10:42:24.361888 lACP: lACP_pkt_encode_pdu_helper(879): lACP_pkt_encode_pdu_helper: actor-po
2017 Jul 11 10:42:24.361899 lACP: lACP_pkt_encode_pdu_helper(906): lACP_pkt_encode_pdu_helper: if_idx=E
2017 Jul 11 10:42:24.361910 lACP: lACP_pkt_encode_pdu_helper(910): lACP_pkt_encode_pdu_helper: if_idx=E
2017 Jul 11 10:42:24.361920 lACP: lACP_net_tx_data(206): lACP_net_tx_data: Sending buffer with length 1
2017 Jul 11 10:42:24.361930 lACP: lACP_net_tx_data(215): 01 01 01 14 ffff
2017 Jul 11 10:42:24.361940 lACP: lACP_net_tx_data(215): ffff
2017 Jul 11 10:42:24.361950 lACP: lACP_net_tx_data(215): 00 00 00 02 14 00 00 00 00 00 00 00 00 00 00 00
2017 Jul 11 10:42:24.361960 lACP: lACP_net_tx_data(215): 00 00 00 00 00 00 03 10 00 00 00 00 00 00 00 00
2017 Jul 11 10:42:24.361971 lACP: lACP_net_tx_data(215): 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2017 Jul 11 10:42:24.361981 lACP: lACP_net_tx_data(215): 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2017 Jul 11 10:42:24.361991 lACP: lACP_net_tx_data(215): 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
2017 Jul 11 10:42:24.362001 lACP: lACP_net_tx_data(247): Ethernet1/4(0x1a003000): Tx LACP PDU len: 110
2017 Jul 11 10:42:24.362022 lACP: lACP_proto_get_state(969): IF Ethernet1/4(0x1a003000): end PartnerEnd
2017 Jul 11 10:42:24.362032 lACP: lACP_proto_restart_tx_timer(1802): lACP_proto_restart_tx_timer: got e
2017 Jul 11 10:42:24.362042 lACP: lACP_proto_restart_tx_timer(1825): lACP_proto_restart_tx_timer: flag
2017 Jul 11 10:42:24.362050 lACP: lACP_timer_start_w_chgd_time(681): lACP_timer_start_w_chgd_time: star
2017 Jul 11 10:42:24.362062 lACP: lACP_timer_start(637): Timer Started: Timer_Arg ([rid type IF-Rid: if

```

## Suggerimento

Verificare se si ricevono pacchetti LACP dal peer. Ad esempio, l'interfaccia Ethernet1/3 riceve pacchetti LACP, ma Ethernet1/4 no:

```
2017 Jul 11 10:42:25.641920 l2p: l2p_net_get_pkt_info(746): Packet received on phy_if_idx Ethernet1/3
2017 Jul 11 10:42:25.641937 l2p: l2p_net_process_rx_data(480): Ethernet1/3(0x1a002000): Rx LACP PDU 1
```

## Controllo 9

In questo output, l'interfaccia Ethernet1/4 è un membro di Port-Channel, ma è in modalità individuale (sospesa sul lato switch):

```
<#root>
```

```
ciscofcm01-A(fxos)#
```

```
show l2p internal event-history interface ethernet 1/4
```

```
>>>>FSM: <Ethernet1/4> has 549 logged transitions<<<<<<
```

- 1) FSM:<Ethernet1/4> Transition at 385779 usecs after Wed Jul 5 13:13:03 2017  
Previous state: [LACP\_ST\_PORT\_IS\_DOWN\_OR\_LACP\_IS\_DISABLED]  
Triggered event: [LACP\_EV\_CLNUP\_PHASE\_II]  
Next state: [LACP\_ST\_PORT\_IS\_DOWN\_OR\_LACP\_IS\_DISABLED]
- 2) FSM:<Ethernet1/4> Transition at 955546 usecs after Wed Jul 5 13:13:03 2017  
Previous state: [LACP\_ST\_PORT\_IS\_DOWN\_OR\_LACP\_IS\_DISABLED]  
Triggered event: [LACP\_EV\_LACP\_ENABLED\_AND\_PORT\_UP]  
Next state: [LACP\_ST\_DETACHED\_LAG\_NOT\_DETERMINED]
- 3) FSM:<Ethernet1/4> Transition at 962224 usecs after Wed Jul 5 13:13:10 2017  
Previous state: [LACP\_ST\_DETACHED\_LAG\_NOT\_DETERMINED]  
Triggered event: [LACP\_EV\_RECEIVE\_PARTNER\_PDU\_TIMED\_OUT]  
Next state: [FSM\_ST\_NO\_CHANGE]
- 4) FSM:<Ethernet1/4> Transition at 963838 usecs after Wed Jul 5 13:13:13 2017  
Previous state: [LACP\_ST\_DETACHED\_LAG\_NOT\_DETERMINED]  
Triggered event: [LACP\_EV\_RECEIVE\_PARTNER\_PDU\_TIMED\_OUT]  
Next state: [FSM\_ST\_NO\_CHANGE]
- 5) FSM:<Ethernet1/4> Transition at 964002 usecs after Wed Jul 5 13:13:13 2017  
Previous state: [LACP\_ST\_DETACHED\_LAG\_NOT\_DETERMINED]  
Triggered event: [LACP\_EV\_RECEIVE\_PARTNER\_PDU\_TIMED\_OUT\_II\_INDIVIDUAL]  
Next state: [LACP\_ST\_INDIVIDUAL\_OR\_DEFAULT]
- 6) FSM:<Ethernet1/4> Transition at 735923 usecs after Wed Jul 5 13:13:36 2017  
Previous state: [LACP\_ST\_INDIVIDUAL\_OR\_DEFAULT]  
Triggered event: [LACP\_EV\_UNGRACEFUL\_DOWN]  
Next state: [LACP\_ST\_PORT\_IS\_DOWN\_OR\_LACP\_IS\_DISABLED]

## Controllo 10

In questo output, l'interfaccia Ethernet1/3 è operativa e membro di PortChannel1, mentre Ethernet1/4, sebbene sia membro di PortChannel1, è in modalità individuale. Si noti che Ethernet1/3 invia (tx) e riceve (rx) pacchetti, ma Ethernet1/4 non invia (tx) alcun pacchetto:



<#root>

ciscofcm01-A(fxos)#

debug lacp pkt

```
ciscofcm01-A(fxos)# 2017 Jul 11 11:04:05.278736 lacp: lacp_net_process_rx_data(480): Ethernet1/3(0x1a002000): Rx LACP PDU len: 110
2017 Jul 11 11:04:05.602855 lacp: lacp_net_tx_data(247): Ethernet1/3(0x1a002000): Tx LACP PDU len: 110
2017 Jul 11 11:04:05.983134 lacp: lacp_net_tx_data(247): Ethernet1/4(0x1a003000): Tx LACP PDU len: 110
2017 Jul 11 11:04:06.249929 lacp: lacp_net_process_rx_data(480): Ethernet1/3(0x1a002000): Rx LACP PDU len: 110
2017 Jul 11 11:04:06.602815 lacp: lacp_net_tx_data(247): Ethernet1/3(0x1a002000): Tx LACP PDU len: 110
2017 Jul 11 11:04:06.992812 lacp: lacp_net_tx_data(247): Ethernet1/4(0x1a003000): Tx LACP PDU len: 110
2017 Jul 11 11:04:07.163780 lacp: lacp_net_process_rx_data(480): Ethernet1/3(0x1a002000): Rx LACP PDU len: 110
2017 Jul 11 11:04:07.602814 lacp: lacp_net_tx_data(247): Ethernet1/3(0x1a002000): Tx LACP PDU len: 110
2017 Jul 11 11:04:08.002817 lacp: lacp_net_tx_data(247): Ethernet1/4(0x1a003000): Tx LACP PDU len: 110
2017 Jul 11 11:04:08.102006 lacp: lacp_net_process_rx_data(480): Ethernet1/3(0x1a002000): Rx LACP PDU len: 110
2017 Jul 11 11:04:08.612810 lacp: lacp_net_tx_data(247): Ethernet1/3(0x1a002000): Tx LACP PDU len: 110
2017 Jul 11 11:04:09.002811 lacp: lacp_net_tx_data(247): Ethernet1/4(0x1a003000): Tx LACP PDU len: 110
2017 Jul 11 11:04:09.091937 lacp: lacp_net_process_rx_data(480): Ethernet1/3(0x1a002000): Rx LACP PDU len: 110
2017 Jul 11 11:04:09.622810 lacp: lacp_net_tx_data(247): Ethernet1/3(0x1a002000): Tx LACP PDU len: 110
2017 Jul 11 11:04:10.002807 lacp: lacp_net_tx_data(247): Ethernet1/4(0x1a003000): Tx LACP PDU len: 110
2017 Jul 11 11:04:10.004411 lacp: lacp_net_process_rx_data(480): Ethernet1/3(0x1a002000): Rx LACP PDU len: 110
2017 Jul 11 11:04:10.632806 lacp: lacp_net_tx_data(247): Ethernet1/3(0x1a002000): Tx LACP PDU len: 110
2017 Jul 11 11:04:10.854094 lacp: lacp_net_process_rx_data(480): Ethernet1/3(0x1a002000): Rx LACP PDU len: 110
2017 Jul 11 11:04:11.002789 lacp: lacp_net_tx_data(247): Ethernet1/4(0x1a003000): Tx LACP PDU len: 110
2017 Jul 11 11:04:11.642807 lacp: lacp_net_tx_data(247): Ethernet1/3(0x1a002000): Tx LACP PDU len: 110
2017 Jul 11 11:04:11.714199 lacp: lacp_net_process_rx_data(480): Ethernet1/3(0x1a002000): Rx LACP PDU len: 110
```

Per ulteriori informazioni, consultare questo documento:

## D. Come trovare la versione del bundle FXOS da Show Tech Output?

Modo 1

Nel file tar FPRM, estrarre il contenuto del file FPRM\_A\_TechSupport.tar.gz. Quindi, aprire il file sam\_techsupportinfo e cercare Package-Verse:

```

sam_techsupportinfo
80148 `top`
80149 `scope fabric-interconnect a`
80150 `show firmware`
80151 Fabric Interconnect A:
80152     Running-Kern-Vers: 5.0(3)N2(4.11.74)
80153     Running-Sys-Vers: 5.0(3)N2(4.11.74)
80154     Package-Vers: 2.1(1.77)
80155     Startup-Kern-Vers: 5.0(3)N2(4.11.74)
80156     Startup-Sys-Vers: 5.0(3)N2(4.11.74)
80157     Act-Kern-Status: Ready
80158     Act-Sys-Status: Ready
80159     Bootloader-Vers:
80160
80161 `show fan detail`
80162 `show psu detail`
80163 `show storage detail`
80164
Find result - 24 hits
Search "Package-Vers" (24 hits in 1 file)
C:\Users\mzafeiro\Desktop\Tech_docs\FXOS\FXOS show-tech new\20170502134149_FPR4140_FPRM\sam_techsupportinfo (24 hits)
Line 80154:      Package-Vers: 2.1(1.77)
Line 116366:    Package-Vers: 2.1(1.77)
Line 116372:    Package-Vers: 2.1(1.77)
Line 116378:    Package-Vers: 2.1(1.77)
Line 116385:    Package-Vers: 2.1(1.77)

```

</root>

FPR4140-A#

show fabric-interconnect firmware

```

Fabric Interconnect A:
  Running-Kern-Vers: 5.0(3)N2(4.11.74)
  Running-Sys-Vers: 5.0(3)N2(4.11.74)
  Package-Vers: 2.1(1.77)
  Startup-Kern-Vers: 5.0(3)N2(4.11.74)
  Startup-Sys-Vers: 5.0(3)N2(4.11.74)
  Act-Kern-Status: Ready
  Act-Sys-Status: Ready
  Bootloader-Vers:

```

Modo 2

Nel file Tar FRPM, estrarre il contenuto del file FPRM\_A\_TechSupport.tar.gz. Aprire quindi il file /var/sysmgr/sam\_logs/svc\_sam\_dme.log e cercare la parola chiave aInPlatformVersion:

```

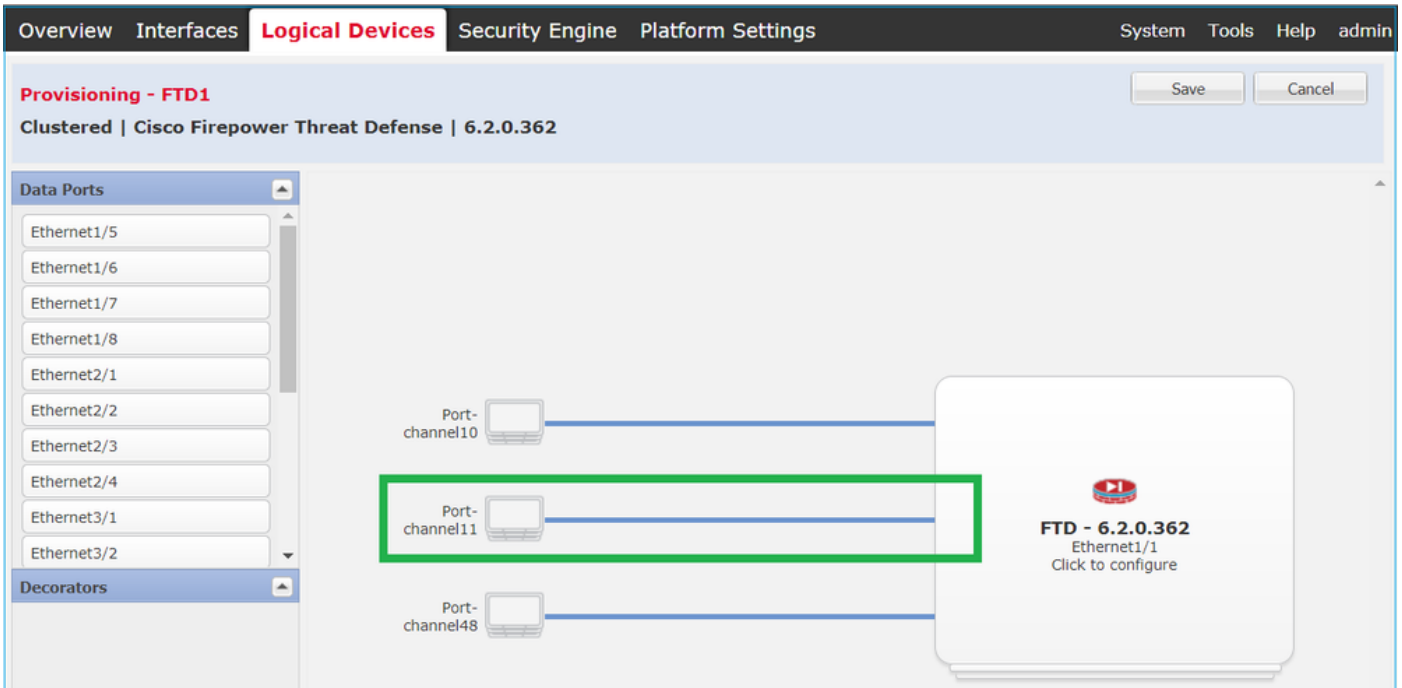
svc_sam_dme.log
1932     id=""
1933     name=""
1934     operState="on"
1935     rns="health-led"/>
Find result - 14 hits
Search "aInPlatformVersion" (14 hits in 1 file)
C:\Users\mzafeiro\Desktop\Tech_docs\FXOS\FXOS show-tech new\20170502134149_FPR4140_FPRM\var\sysmgr\sam_logs\svc_sam_dme.log.1 (14 hits)
Line 93795: [INFO][0x67902b90][May 2 11:28:33.313][app_sam_dme:isApplicat] isApplicationSupported: aInAppName ftd aInAppVersion 6.1.0.330, aInPlatformVersion 2.1(1.77)
Line 100200: [INFO][0x67902b90][May 2 11:33:01.801][app_sam_dme:isApplicat] isApplicationSupported: aInAppName ftd aInAppVersion 6.1.0.330, aInPlatformVersion 2.1(1.77)
Line 118594: [INFO][0x67902b90][May 2 11:38:01.801][app_sam_dme:isApplicat] isApplicationSupported: aInAppName ftd aInAppVersion 6.1.0.330, aInPlatformVersion 2.1(1.77)
Line 121788: [INFO][0x67902b90][May 2 11:43:01.800][app_sam_dme:isApplicat] isApplicationSupported: aInAppName ftd aInAppVersion 6.1.0.330, aInPlatformVersion 2.1(1.77)
Line 122311: [INFO][0x67902b90][May 2 11:48:01.801][app_sam_dme:isApplicat] isApplicationSupported: aInAppName ftd aInAppVersion 6.1.0.330, aInPlatformVersion 2.1(1.77)
Line 122842: [INFO][0x67902b90][May 2 11:53:01.801][app_sam_dme:isApplicat] isApplicationSupported: aInAppName ftd aInAppVersion 6.1.0.330, aInPlatformVersion 2.1(1.77)
Line 123381: [INFO][0x67902b90][May 2 11:58:01.800][app_sam_dme:isApplicat] isApplicationSupported: aInAppName ftd aInAppVersion 6.1.0.330, aInPlatformVersion 2.1(1.77)
Line 123939: [INFO][0x67902b90][May 2 12:03:01.800][app_sam_dme:isApplicat] isApplicationSupported: aInAppName ftd aInAppVersion 6.1.0.330, aInPlatformVersion 2.1(1.77)
Line 124476: [INFO][0x67902b90][May 2 12:08:01.800][app_sam_dme:isApplicat] isApplicationSupported: aInAppName ftd aInAppVersion 6.1.0.330, aInPlatformVersion 2.1(1.77)
Line 125107: [INFO][0x67902b90][May 2 12:13:01.801][app_sam_dme:isApplicat] isApplicationSupported: aInAppName ftd aInAppVersion 6.1.0.330, aInPlatformVersion 2.1(1.77)
Line 125650: [INFO][0x67902b90][May 2 12:18:01.801][app_sam_dme:isApplicat] isApplicationSupported: aInAppName ftd aInAppVersion 6.1.0.330, aInPlatformVersion 2.1(1.77)
Line 126202: [INFO][0x67902b90][May 2 12:23:01.800][app_sam_dme:isApplicat] isApplicationSupported: aInAppName ftd aInAppVersion 6.1.0.330, aInPlatformVersion 2.1(1.77)
Line 126749: [INFO][0x67902b90][May 2 12:28:01.801][app_sam_dme:isApplicat] isApplicationSupported: aInAppName ftd aInAppVersion 6.1.0.330, aInPlatformVersion 2.1(1.77)
Line 127307: [INFO][0x67902b90][May 2 12:33:01.800][app_sam_dme:isApplicat] isApplicationSupported: aInAppName ftd aInAppVersion 6.1.0.330, aInPlatformVersion 2.1(1.77)

```

## D. In che modo MIO propaga le informazioni dell'interfaccia (aggiunta/rimozione) all'applicazione blade (FTD, ASA)?

Utilizza il componente agente app MIO.

Ad esempio, quando un nuovo Port-Channel viene assegnato all'FTD da MIO:



Il debug dell'agente app FTD mostra:

```
<#root>
```

```
firepower#
```

```
debug app-agent 255
```

```
appagent : part 0 : ftd_001_JAD19500BAB0Z690F2.interfaceMapping.update
appagent : part 1 : ssp-xml:3
appagent : part 2 : 7
appagent : part 3 : appAG
appagent : part 4 : <interfaceMappingConfigUpdateRequest><interfaceMapping action="insert"><externalPort
<bladeVNIC>22</bladeVNIC></internalPort></interfaceMapping></interfaceMappingConfigUpdateRequest>
appagent : Process the request message
appagent : It is an update request command
appagent : Invoke request msg handler for cmd interfaceMapping.update
appagent : Processing InterfaceMapping Update Message
appagent : Creating Interface Mapping Structure.
appagent : Processing the tag externalPort.
appagent : =====
appagent : PortName=Port-channel11
appagent : ftw capability=0
appagent : no available ftw peers
appagent : cleaning external_port_ftw_peers_t
appagent : Sending Response message for Interface Mapping update Message
appagent : Send response message to appAG
```

```

appagent : resp_msg->cmdName =appAG.interfaceMapping.update
appagent : resp_msg->content_version =ssp-xml:3
appagent : resp_msg->msgId =7
appagent : resp_msg->statusCode =100
appagent : resp_msg->data =<interfaceMappingConfigUpdateResponse>
  <response>
    <code>100</code>
    <message>Request success</message>
  </response>
</interfaceMappingConfigUpdateResponse>
appagent : part 0 : ftd_001_JAD19500BAB0Z690F2.interfaceStatus.update
appagent : part 1 : ssp-xml:3
appagent : part 2 : 8
appagent : part 3 : appAG
appagent : part 4 : <interfaceStatusUpdateRequest><interface><interfaceName>Port-channel11</interfaceName>
appagent : Process the request message
appagent : It is an update request command
appagent : Invoke request msg handler for cmd interfaceStatus.update
appagent : Processing Interface Status Update Request.
appagent : The Fxos version is 2.1.1 or newer
appagent : Parsing interface status update request message for FXOS > 211
appagent : Parsing Interface Status Req.
appagent : Interface Status Successfully Updated.
appagent : Sending Response for Interface Status Update Request
appagent : Send response message to appAG
appagent : resp_msg->cmdName =appAG.interfaceStatus.update
appagent : resp_msg->content_version =ssp-xml:3
appagent : resp_msg->msgId =8
appagent : resp_msg->statusCode =100
appagent : resp_msg->data =<interfaceStatusUpdateResponse>
  <response>
    <code>100</code>
    <message>Request success</message>
  </response>
</interfaceStatusUpdateResponse>

```

## D. Quale numero di serie (SN) deve essere utilizzato nel caso di RMA dello chassis Firepower?

Lo chassis firepower ha più SN. Quella utilizzata per una richiesta RMA può essere presa da questi output:

```
<#root>
```

```
FP4120-5-A#
```

```
scope chassis 1
```

```
FP4120-5-A /chassis # show inventory
```

Chassis	PID	Vendor	Serial (SN)	HW	Revision
1	FPR-4120-K9	Cisco Systems Inc	FLM12345KL6	0	

O:

<#root>

FP4120-5-A#

connect local-mgmt

FP4120-5-A(local-mgmt)#

show license all

Smart Licensing Status

=====

Smart Licensing is ENABLED

Registration:

Status: UNREGISTERED

Export-Controlled Functionality: Not Allowed

License Authorization:

Status: No Licenses in Use

License Usage

=====

No licenses in use

Product Information

=====

UDI: PID:FPR-4120-SUP,SN:JAD19500BAB

O:

<#root>

FP4120-5-A#

scope license

FP4120-5-A /license #

show license all

Smart Licensing Status

=====

Smart Licensing is ENABLED

Registration:

Status: UNREGISTERED

Export-Controlled Functionality: Not Allowed

License Authorization:

Status: No Licenses in Use

## License Usage

=====

No licenses in use

## Product Information

=====

UDI: PID:FPR-4120-SUP,SN:JAD19500BAB

## D. È possibile sostituire SSD1 tra due diversi chassis FXOS?

La risposta breve è no. SSD1 contiene l'immagine dell'applicazione (ad esempio FTD o ASA). Se si estrae la SSD1 dallo chassis e la si collega a un altro chassis, il modulo non si accende e vengono visualizzati questi errori:

Critico F1548 2017-11-08T11:36:40.095 427280 Lo swap dei blade è stato rilevato sullo slot 1

Severity	Description	Cause	Occurrence	Time	Acknowledged
CRITICAL	Blade swap detected on slot 1	blade-swap	1	2017-11-08T11:36:40.095	no

Immagine del modulo di sicurezza non corrispondente

Application	Version	Management IP	Gateway	Management Port	Status
FTD	6.2.2.81	10.62.148.194	10.62.148.129	Ethernet1/1	Security module image mismatch

**Ports:**  
Data Interfaces: Ethernet3/1 Ethernet3/2  
Port-channel15

**Attributes:**  
Cluster Operational Status: not-applicable  
Firepower Management IP: 10.62.148.194  
Management URL: https://10.62.148.75/  
HA-ROLE: standalone  
UUID: 8b8557b2-ba50-11e7-85f9-958a43b079f

Disco locale 1 mancante sul server 1/1

MAJOR	Local disk 1 missing on server 1/1	equipment-missing	2	2017-11-08T10:40:43.122	no
-------	------------------------------------	-------------------	---	-------------------------	----

## D. In che modo viene controllato il consumo energetico dello chassis?

A partire dalla versione FXOS 2.2.1, è possibile usare il comando show environment summary:

```
<#root>
```

```
FPR4100-1 /chassis #
```

```
show environment summary
```

Chassis INFO :

Total Power Consumption: 440.000000  
Inlet Temperature (C): 21.000000  
CPU Temperature (C): 39.000000  
Last updated Time: 2018-07-01T09:39:55.157

PSU 1:

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

PSU 2:

Type: AC  
Input Feed Status: N/A  
12v Output Status: N/A  
Overall Status: Removed

FAN 1

Fan Speed RPM (RPM): 12110  
Speed Status: Ok  
Overall Status: Operable

FAN 2

Fan Speed RPM (RPM): 12110  
Speed Status: Ok  
Overall Status: Operable

FAN 3

Fan Speed RPM (RPM): 12100  
Speed Status: Ok  
Overall Status: Operable

Per ulteriori informazioni, controllare:

[Monitoraggio dello stato dello chassis](#)

## D. Come controllare la versione del bootloader?

```
<#root>
```

```
FPR-4110-7-A#
```

```
scope chassis 1
```

```
FPR-4110-7-A /chassis #
```

```
scope server 1
```

```
FPR-4110-7-A /chassis/server #
```

```
scope adapter 1
```

```
FPR-4110-7-A /chassis/server/adapter #
```

```
show version detail
```

Adapter 1:  
Running-Vers: 5.3(1.91)  
Package-Vers: 2.3(1.88)  
Update-Status: Ready  
Activate-Status: Ready  
Bootloader-Update-Status: Ready  
Startup-Vers: 5.3(1.91)  
Backup-Vers: 5.3(1.48)  
Bootloader-Vers: MF-111-234949

## D. Come aggiornare il bootloader?

Dopo l'installazione di FXOS 2.3.1.58 o versione successiva, il sistema potrebbe ricevere un errore critico sull'appliance di sicurezza che indica che è necessario aggiornare il firmware dell'adattatore:

```
Critical F1715 2017-05-11T11:43:33.121 339561 Adapter 1 on Security Module 1 requires a critical firmwa
```

La procedura di aggiornamento del bootloader è descritta in questo link:

[https://www.cisco.com/c/en/us/td/docs/security/firepower/fxos/fxos231/release/notes/fxos231\\_rn.html#pgf173826](https://www.cisco.com/c/en/us/td/docs/security/firepower/fxos/fxos231/release/notes/fxos231_rn.html#pgf173826)

Se si verifica questo errore durante l'aggiornamento del bootloader, è possibile provare a utilizzare l'opzione 'force'.

```
<#root>
```

```
FPR-4110-7-A#
```

```
scope chassis 1
```

```
FPR-4110-7-A /chassis #
```

```
scope server 1
```

```
FPR-4110-7-A /chassis/server #
```

```
scope adapter 1/1/1
```

```
FPR-4110-7-A /chassis/server/adapter #
```

```
show image
```

```
Name Type Version
```

```
-----  
fxos-m83-8p40-cruzboot.4.0.1.62.bin Adapter Boot 4.0(1.62)  
fxos-m83-8p40-vic.4.0.1.51.bin Adapter 4.0(1.51)  
fxos-m83-8p40-vic.5.3.1.2.bin Adapter 5.3(1.2)
```



```
fxos-m83-8p40-vic.5.3.1.48.bin Adapter 5.3(1.48)
fxos-m83-8p40-vic.5.3.1.91.bin Adapter 5.3(1.91)
FPR-4110-7-A /chassis/server/adapter #

update boot-loader 4.0(1.62)
```

Warning: Please DO NOT reboot blade or chassis during upgade, otherwise, it may cause adapter UNUSABLE  
After upgrade completed, blade must be power cycled automatically  
FPR-4110-7-A /chassis/server/adapter\* #

```
commit-buffer
```

Error: Update failed: [This adaptor is not applicable for boot-loader upgrade.]

## D. Come disabilitare il timeout SSH assoluto?

Ciò è utile durante i test di laboratorio e la risoluzione dei problemi. Tenere presente che questo timeout assoluto è una procedura consigliata per la sicurezza diversa da zero, quindi prestare attenzione se viene eseguito temporaneamente nell'ambiente utente.

```
<#root>
```

```
FPR-4115-A#
```

```
scope security
```

```
FPR-4115-A /security #
```

```
scope default-auth
```

```
FPR-4115-A /security/default-auth #
```

```
show detail
```

```
Default authentication:
```

```
Admin Realm: Local
```

```
Operational Realm: Local
```

```
Web session refresh period(in secs): 600
```

```
Idle Session timeout(in secs) for web, ssh, telnet sessions: 3600
```

```
Absolute Session timeout(in secs) for web, ssh, telnet sessions: 3600
```

```
Serial Console Idle Session timeout(in secs): 3600
```

```
Serial Console Absolute Session timeout(in secs): 3600
```

```
Admin Authentication server group:
```

```
Operational Authentication server group:
```

```
Use of 2nd factor: No
```

```
FPR-4115-A /security/default-auth #
```

```
set absolute-session-timeout 0
```

```
FPR-4115-A /security/default-auth* #
```

```
commit-buffer
```

```
FPR-4115-A /security/default-auth #
```

```
show detail
```

```
Default authentication:
```

```
Admin Realm: Local
```

```
Operational Realm: Local
```

```
Web session refresh period(in secs): 600
```

```
Idle Session timeout(in secs) for web, ssh, telnet sessions: 3600
```

```
Absolute Session timeout(in secs) for web, ssh, telnet sessions: 0
```

```
Serial Console Idle Session timeout(in secs): 3600
```

```
Serial Console Absolute Session timeout(in secs): 3600
```

```
Admin Authentication server group:
```

```
Operational Authentication server group:
```

```
Use of 2nd factor: No
```

## D. Come catturare i pacchetti LACP destinati al Supervisor dello chassis (Control-Plane)?

I pacchetti LACP destinati al supervisore dello chassis (control-plane) di Firepower 4100/9300 sono incapsulati nella sezione dati di pacchetti specifici e possono essere acquisiti sull'interfaccia interna inbound-hi con il comando ethanalyzer. I byte PDU LACP vengono incorporati a partire dai byte con valori 01 80 C2 00 00 02 (indirizzo Slow\_Protocols\_Multicast IEEE 802.3) fino alla fine della sezione dei dati:

```
<#root>
```

```
firepower#
```

```
connect fxos
```

```
...
```

```
firepower(fxos)#
```

```
ethanalyzer local interface inbound-hi limit-captured-frames 10000 limit-frame-size 9000 detail
```

```
Capturing on 'eth4'
```

```
Frame 1: 188 bytes on wire (1504 bits), 188 bytes captured (1504 bits) on interface 0
```

```
Interface id: 0 (eth4)
```

```
Interface name: eth4
```

```
Encapsulation type: Ethernet (1)
```

```
Arrival Time: Dec 5, 2023 09:16:06.736180828 UTC
```

```
[Time shift for this packet: 0.000000000 seconds]
```

```
Epoch Time: 1701767766.736180828 seconds
```

```
[Time delta from previous captured frame: 0.000000000 seconds]
```

```
[Time delta from previous displayed frame: 0.000000000 seconds]
```

```

[Time since reference or first frame: 0.000000000 seconds]
Frame Number: 1
Frame Length: 188 bytes (1504 bits)
Capture Length: 188 bytes (1504 bits)
[Frame is marked: False]
[Frame is ignored: False]
[Protocols in frame: eth:ethertype:vlan:ethertype:data]
Ethernet II, Src: 02:10:18:a3:4f:f5 (02:10:18:a3:4f:f5), Dst: 58:97:bd:b9:36:4e (58:97:bd:b9:36:4e)
  Destination: 58:97:bd:b9:36:4e (58:97:bd:b9:36:4e)
    Address: 58:97:bd:b9:36:4e (58:97:bd:b9:36:4e)
      .... ..0. .... = LG bit: Globally unique address (factory default)
      .... ..0. .... = IG bit: Individual address (unicast)
  Source: 02:10:18:a3:4f:f5 (02:10:18:a3:4f:f5)
    Address: 02:10:18:a3:4f:f5 (02:10:18:a3:4f:f5)
      .... ..1. .... = LG bit: Locally administered address (this is NOT the factory default)
      .... ..0. .... = IG bit: Individual address (unicast)
  Type: 802.1Q Virtual LAN (0x8100)
802.1Q Virtual LAN, PRI: 0, DEI: 0, ID: 4048
000. .... = Priority: Best Effort (default) (0)
  ....0 .... = DEI: Ineligible
  .... 1111 1101 0000 = ID: 4048
  Type: Unknown (0xde08)

```

Data (170 bytes)

```

0000 b8 50 20 04 00 00 00 00 00 00 00 00 00 81 00 .P .....
0010 00 00 00 00 00 04 09 04 cd 00 00 00 00 00 00 00 .....
0020 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

```

```

01 80 .....

```

0030

```

c2 00 00 02 58 97 bd b9 36 51 88 09 01 01 01 14 ....X...6Q.....

```

0040

```

80 00 58 97 bd b9 36 4d 00 28 80 00 00 44 3f 00 ..X...6M.(...D?.

```

0050

```

00 00 02 14 80 00 00 17 df d6 ec 00 00 33 80 00 .....3..

```

0060

```

02 2c 3d 00 00 00 03 10 00 00 00 00 00 00 00 ..,=.....

```

0070

```

00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....

```

0080

```

00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....

```

0090

```

00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....

```

00a0

00 00 00 00 00 00 00 00 00 00

.....  
Data: b85020040000000000000000000000081000000000000040904...

Il dump esadecimale può essere convertito in PCAP utilizzando gli strumenti in linea.

## D. Come trovare le informazioni SSD?

Le informazioni sulle unità SSD interne del supervisore dello chassis sono disponibili in tutte le versioni FXOS indicate nel passaggio 1, sezione Soluzione/soluzione in [FN72077](#):

```
<#root>
```

```
KSEC-FPR4112-4 #
```

```
scope chassis 1
```

```
KSEC-FPR4112-4 /chassis #
```

```
show sup version detail
```

```
SUP FIRMWARE:
```

```
ROMMON:
```

```
Running-Vers: 1.0.15
```

```
Package-Vers: 1.0.18
```

```
Activate-Status: Ready
```

```
Upgrade Status: SUCCESS
```

```
FPGA:
```

```
Running-Vers: 2.00
```

```
Package-Vers: 1.0.18
```

```
Activate-Status: Ready
```

```
SSD:
```

```
Running-Vers: MU03
```

```
Model: Micron_M500IT_MTFDDAT128MBD
```

SSD Security Engine (blade):

```
<#root>
```

```
KSEC-FPR4112-4#
```

```
show server storage detail
```

Server 1/1:

<output skipped>

RAID Controller 1:

Type: SATA

Vendor: Cisco Systems Inc

Model: FPR4K-PT-01

Serial: JAD260508TZ

HW Revision:

PCI Addr: 00:31.2

Raid Support:

OOB Interface Supported: No

Rebuild Rate: N/A

Controller Status: Unknown

Local Disk 1:

Vendor: INTEL

Model: SSDSC2KG48

Serial: PHYG109603PA480BGN

HW Rev: 0

Operability: Operable

Presence: Equipped

Size (MB): 400000

Drive State: Online

Power State: Active

Link Speed: 6 Gbps

Device Type: SSD

Local Disk 2:

Vendor: INTEL

Model: SSDSC2KG96

Serial: PHYG143301JG960CGN

HW Rev: 0

Operability: Operable

Presence: Equipped

Size (MB): 800000

Drive State: Online

Power State: Active

Link Speed: 6 Gbps

Device Type: SSD

Local Disk Config Definition:

Mode: No RAID

Description:

Protect Configuration: No

## D. Come configurare le acquisizioni dello switch interno (FXOS)?

Fare riferimento all'articolo [Configure and Verify Secure Firewall and Firepower Internal Switch Capture](#) (Configurazione e verifica della protezione del firewall e degli switch interni Firepower).

## Riferimenti

- [Guida alla configurazione di Cisco Firepower 4100/9300 FXOS Secure Firewall Chassis Manager, 2.14\(1\)](#)
- [Guida alla configurazione di CLI di Cisco Secure FXOS per Firepower 4100/9300, 2.14\(1\)](#)
- [Guida di riferimento ai comandi di Cisco Firepower 4100/9300 FXOS](#)
- [Configurazione e verifica delle acquisizioni dello switch interno Secure Firewall e Firepower](#)

## Informazioni su questa traduzione

Cisco ha tradotto questo documento utilizzando una combinazione di tecnologie automatiche e umane per offrire ai nostri utenti in tutto il mondo contenuti di supporto nella propria lingua. Si noti che anche la migliore traduzione automatica non sarà mai accurata come quella fornita da un traduttore professionista. Cisco Systems, Inc. non si assume alcuna responsabilità per l'accuratezza di queste traduzioni e consiglia di consultare sempre il documento originale in inglese (disponibile al link fornito).