

# يَساس الانيوكتلا ءاطخأ فاشكتسا FXOS في اهال صاوا

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## ةمدقملا

ليغش تال او يساس ال نيوك تال ة لاج دي كأت يلع دعاست ي تال تاوطلال دن تسم ال اذه فصري ة. حيص Cisco نم ة يامحل راجل نم ال (FXOS) ليغش تال لباق ال

## ة يساس ال تاب ل ط ت ال

### تاب ل ط ت ال

نأشب ة فرعم كي دل نوكت نأب Cisco يصوت

- Cisco (FXOS) نم نم ال ة يامحل راجل لم ت حمل ليغش تال
- Cisco (FTD) ة يامحل راجل ديدهت نع نم ال عاف دل

### ة مدخت س ال تانوك ال

ة صاخ ة يلم عم ة ئي ب ي ف ة دوجوم ال ة زه ال نم دن ت س ال اذه ي ف ة دراو ال تامول عمل عاشن ا مت تناك اذا. (يضا رت ف ا) حوسم نيوك ت ب دن ت س ال اذه ي ف ة مدخت س ال ة زه ال عي مج ت ادب رمأ ي ال لم ت حمل ري ثا ت لل كم ه ف نم د كأت ف ، ليغش تال دي ق ك ت ك ب ش

- Cisco Secure Firewall Xsible Operating 4110، رادص ال (1.179).2.10
- Cisco Secure Firewall Threat Defense، رادص ال 7.0.5

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## ة يساس ا تامول عم

نام ا لولحل يلات ال ليحل نم يساس ا ماظن ة با ث م ب Cisco نم نم ال ة يامحل راجل لكيه دع ي Cisco و ASA ا ما ، قي ب ط ت لي ث م ليغش ت ي قطنم ال زاهل لك ح ي تي . لاصل ال او ة ب ش ال Secure Firewall Threat Defense (FTD).

ه رادص او قي ب ط ت ال لي ث م عون ف ي رت متي ، ه ف ي ض ت ي ذل ي قطنم ال زاهل يلع ا ن ب

## لك يهل تامول عم

لباق عيش لك ناك اذا ام) لك يهل نع ة ماع تامول عم يلع لوصحل ي ف رم او ال هذه دعاست عا ط خ ا فاش ك ت س ا ل ج ا نم TAC ي ل ا ه ع ي م ج ت م ت ي ي ت ال تامول عمل ي هو (ال م ا ليغش تال ا ه ا ل ص او لك يهل

ي لس لس ت ال م قر ال

دوجو ة لاج ي ف ة ي رورض ة ي ن ق ت ال هذه نوكت . لك يهل فرعم ك ي لس لس ت ال م قر ال مدخت سي و هلم ك ا ب لك يهل نمض (RMA) ة ع ج رت س ال داوم ال ص ي خ رت

```
FPR4110-04-A /chassis # show inventory
Chassis      PID          Vendor          Serial (SN)    HW Revision
-----
1            FPR-4110-K9  Cisco Systems  Inc JMX2136L03W  0
```

## رادصا FXOS

```
FPR4110-04-A# show version
Version: 2.10(1.179)
Startup-Vers: 2.10(1.179)
```

تباثلا جم انربلا ةقيرطلا هذه نمضتت ، FXOS رادصا ةفرعمل ناتقيرط كانه

```
FPR4110-04-A# show fabric-interconnect firmware
Fabric Interconnect A:
Running-Kern-Vers: 5.0(3)N2(4.101.103)
Running-Sys-Vers: 5.0(3)N2(4.101.103)
Package-Vers: 2.10(1.179)
Startup-Kern-Vers: 5.0(3)N2(4.101.103)
Startup-Sys-Vers: 5.0(3)N2(4.101.103)
Act-Kern-Status: Ready
Act-Sys-Status: Ready
Bootloader-Vers:
```

## رادصا bootloader

```
FPR4110-04-A# scope chassis 1
FPR4110-04-A /chassis # scope server 1
FPR4110-04-A /chassis/server # scope adapter 1
FPR4110-04-A /chassis/server/adapter # show version detail
Adapter 1:
Running-Vers: 5.10(1.53)
Package-Vers: 2.10(1.179)
Update-Status: Ready
Activate-Status: Ready
Bootloader-Update-Status: Ready
Startup-Vers: 5.10(1.53)
Backup-Vers: 5.10(1.57)
Bootloader-Vers: 4.0(1.62)
```

## صحفلا تقو

```
FPR4110-04-A# connect fxos
FPR4110-04-A(fxos)# show system uptime
System start time: Mon Oct 23 16:45:36 2023
System uptime: 98 days, 1 hours, 49 minutes, 36 seconds
Kernel uptime: 98 days, 1 hours, 40 minutes, 19 seconds
Active supervisor uptime: 98 days, 1 hours, 49 minutes, 36 second
```

## ةعاسلا راهظا

```
FPR4110-04-A# show clock
Tue Jan 30 17:07:50 EST 2024
```

## NTP مداخل نم ققحتلا

```
FPR4110-04-A# scope system
FPR4110-04-A /system # scope services
FPR4110-04-A /system/services # show ntp-server
NTP server hostname:
Name Time      Sync Status
-----
172.16.254.131  Time Synchronized
```

## لكيهلا ةمالس ةبقارم

اهالصل و للكيهلا ةزهجا ةلاح اءاطخأ فاشككسأ يف ةدعاسم لل رم اوألا ضعب هذو.

## ةئيبلا نم ققحتلا

```
FPR4110-04-A# scope chassis 1
FPR4110-04-A /chassis # show environment expand detail
Chassis 1:
Overall Status: Power Problem
Operability: Operable
Power State: Redundancy Failed
Thermal Status: Ok

PSU 1:
Threshold Status: N/A
Overall Status: N/A
Operability: N/A
Power State: Off
Thermal Status: OK
Voltage Status: N/A
```

PSU 2:

Threshold Status: OK  
Overall Status: Operable  
Operability: Operable  
Power State: On  
Thermal Status: OK  
Voltage Status: OK

Tray 1 Module 1:

Threshold Status: OK  
Overall Status: Operable  
Operability: Operable  
Power State: On  
Thermal Status: OK  
Voltage Status: OK

Fan Module Stats:

Ambient Temp (C): 27.000000

Fan 1:

Threshold Status: OK  
Overall Status: Operable  
Operability: Operable  
Power State: On  
Thermal Status: OK  
Voltage Status: OK

Fan 2:

Threshold Status: OK  
Overall Status: Operable  
Operability: Operable  
Power State: On  
Thermal Status: OK  
Voltage Status: OK

...

Server 1:

Name:  
User Label:  
Overall Status: Ok  
Operability: Operable  
Oper Power: On

Adapter 1:

Threshold Status: N/A  
Overall Status: Operable  
Operability: Operable  
Power State: On  
Thermal Status: N/A  
Voltage Status: N/A

Motherboard:

Threshold Status: OK  
Overall Status: N/A  
Operability: N/A  
Oper Power: On  
Power State: Ok  
Thermal Status: OK  
Voltage Status: OK  
CMOS Battery Voltage Status: Ok

Mother Board Power Usage Status: Ok

Motherboard Temperature Statistics:  
Motherboard Front Temperature (C): 19.000000  
Motherboard Rear Temperature (C): 26.000000

Memory Array 1:  
Threshold Status: N/A  
Overall Status: N/A  
Operability: N/A  
Power State: N/A  
Thermal Status: N/A  
Voltage Status: N/A

DIMMs:

DIMM Threshold Status Overall Status Operability Power State Thermal Status Voltage Status

-----  
1 N/A Operable N/A N/A OK N/A  
2 N/A Removed N/A N/A N/A N/A  
3 N/A Removed N/A N/A N/A N/A  
4 N/A Operable N/A N/A OK N/A  
5 N/A Removed N/A N/A N/A N/A  
...

CPU 1:  
Threshold Status: N/A  
Overall Status: Operable  
Operability: Operable  
Power State: N/A  
Thermal Status: OK  
Voltage Status: N/A

أطخ ل راهظ

ىل ع لوصح ل ا ف دعاس ت و ،نم آل ا ة ا م ح ل ر ا د ج ل ة ساس آل ا م ظن آل ا ل ع ا ه د ي د ح ت م ت ة ز ه ج ا ل ك ا ش م ي ا ل ا ط ع آل ا ة م ئ ا ق ر ه ظ ت ل ع ل ف ل ا ب ل ا ط ع آل ا ه ذ ه ح س م م ت د ق ه ن ا ل ل ة ف ا ض ا ل ا ب ة ط ش ن ل ا ب و ي ع ل ا ب ص خ ل م

ز ي ك ر ت ل ل ب ص ن ي . ة ز ج و م ة م ا ع ة ر ظ ن ف ص و ل ا ر ف و ي ا م ن ي ب ، ا ط خ ل ا ة ي م ه ا " ة ر و ط خ ل ا ة ج ر د " س ك ع ت . ي ن م ز ب ي ت ر ت ب ا ط خ آل ا ر ه ظ ت ل ق آل ا ل ل ا ة ر و ط خ ر ث ك آل ا ن م ا ط خ ل ا ة ر و ط خ ة ج ر د ب ي ت ر ت ن و ك ي و . ف ص و ل ا و ي ن م ز ل ا ع ب ا ط ل ل ا و ة ر و ط خ ل ا ة ج ر د ل ع ي س ا س ا ل ك ش ب ي ل ل ا ل ك ة ر و ط خ :

- ج ر ح
- ر ي ب ك
- ف ي ف ط
- ر ي ذ ح ت
- ة ل ا ح ل ل ا ت ا م و ل ع م

- حسم مت

FPR4110-04-A# show fault

Severity Code Last Transition Time ID Description

```
-----  
Major F0276 2023-12-14T18:26:29.505 507308 ether port 2/2 on fabric interconnect A oper state: link-down, reason: Link failure or not-connected  
Major F0276 2023-11-13T14:07:37.720 221350 ether port 1/1 on fabric interconnect A oper state: link-down, reason: Link failure or not-connected  
Info F0279 2023-11-13T14:07:37.720 446504 ether port 1/7 on fabric interconnect A oper state: sfp-not-present  
Major F0276 2023-11-07T08:10:50.143 434090 ether port 1/6 on fabric interconnect A oper state: link-down, reason: Link failure or not-connected  
Major F0276 2023-11-07T08:10:49.941 434081 ether port 1/5 on fabric interconnect A oper state: link-down, reason: Link failure or not-connected  
Major F0282 2023-07-31T17:52:04.764 201600 lan port-channel 7 on fabric interconnect A oper state: failed, reason: No operational members  
Major F0282 2023-07-31T17:51:03.325 201446 lan port-channel 4 on fabric interconnect A oper state: failed, reason: No operational members  
Major F0282 2023-07-31T17:49:00.451 201281 lan port-channel 2 on fabric interconnect A oper state: failed, reason: No operational members  
Major F0282 2023-07-31T17:42:34.236 200638 lan port-channel 1 on fabric interconnect A oper state: failed, reason: No operational members  
Major F0909 2023-06-19T14:02:55.642 99113 default Keyring's certificate is invalid, reason: expired.  
Warning F1781 2012-01-11T02:21:44.215 90296 The password encryption key has not been set.  
Info F0461 2011-12-31T21:32:43.448 35793 Log capacity on Management Controller on server 1/1 is very-low  
Major F0408 2011-12-31T21:32:32.787 35497 Power state on chassis 1 is redundancy-failed  
Warning F0528 2011-12-31T21:32:32.787 35498 Power supply 1 in chassis 1 power: off  
Minor F1437 2011-12-31T21:31:08.462 32663 Config backup may be outdated  
FPR4110-04-A#
```

ةتوبكم لاء ااطخال وأ ةروطخال وأ لى صافاتل وأ ب بس لى لى ادان ستسا ااطخال ةى فصت نكم ي

FPR4110-04-A# 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

FPR4110-04-A# show fault severity major

Severity Code Last Transition Time ID Description

```
-----  
Major F0276 2023-12-14T18:26:29.505 507308 ether port 2/2 on fabric interconnect A oper state: link-down, reason: Link failure or not-connected  
Major F0276 2023-11-13T14:07:37.720 221350 ether port 1/1 on fabric interconnect A oper state: link-down, reason: Link failure or not-connected  
Major F0276 2023-11-07T08:10:50.143 434090 ether port 1/6 on fabric interconnect A oper state: link-down, reason: Link failure or not-connected  
Major F0276 2023-11-07T08:10:49.941 434081 ether port 1/5 on fabric interconnect A oper state: link-down, reason: Link failure or not-connected  
Major F0282 2023-07-31T17:52:04.764 201600 lan port-channel 7 on fabric interconnect A oper state: failed, reason: No operational members  
Major F0282 2023-07-31T17:51:03.325 201446 lan port-channel 4 on fabric interconnect A oper state: failed, reason: No operational members  
Major F0282 2023-07-31T17:49:00.451 201281 lan port-channel 2 on fabric interconnect A oper state: failed, reason: No operational members  
Major F0282 2023-07-31T17:42:34.236 200638 lan port-channel 1 on fabric interconnect A oper state: failed, reason: No operational members  
Major F0282 2023-07-31T17:41:34.673 200660 lan port-channel 3 on fabric interconnect A oper state: failed, reason: No operational members  
Major F0408 2011-12-31T21:32:32.787 35497 Power state on chassis 1 is redundancy-faile
```

ةقاطال دادم| ةدحو تالكشم

ةلكشم دوجو ىل دهجل ةلكشم رشؤم ريشي ،ةقاطالاب ديوزتلا ةدحو تالكشم ب قلع تي اميف

FPR4110-04-A# scope chassis 1  
FPR4110-04-A /chassis # show psu

PSU:  
PSU Type Wattage (W) Overall Status

-----  
1 DV 0 N/A  
2 DV 1100 Operable

ةحورملا تالكشم

ةئطاخ ةيياجيا ةجيتن وأ حوارملا/ديربتلا عم ةعورشم ةزهج ةلكشم ام| نوكت حجراأل ىل ع اهنإف ،ةيرارح بويي ةكانه تناك اذا نم ديزم ىل ع لوصحلل TAC ب لصتاف ،ةروهدم وأ ليغشتلل ةلباق ريغ ةحورملا ةلاح تناك اذا .جم انربلا يف بيع ببسب ةدعاسملا

FPR4110-04-A# scope chassis 1  
FPR4110-04-A /chassis # show fan-module

Fan Module:  
Tray Module Overall Status

-----  
1 1 Operable  
1 2 Operable  
1 3 Operable  
1 4 Operable  
1 5 Operable  
1 6 Operable

ثدحل راهظا

ام وأ هسفن ىل لصننلا مداخللا يف نمكت ةلكشملا تناك اذا ام ةفرعمل تاقيبطتلا ءاطخأ نع اثحب FXOS نم ققحتلا مهمل نم .جم اربلاب ةقلعتم ةلكشم لجل دهملتلا ىل ع رداق ريغ قيبطتلا ناك اذا

FPR4110-04-A# scope chassis  
FPR4110-04-A /chassis # scope server  
FPR4110-04-A /chassis/server # scope fxos  
FPR4110-04-A /chassis/server/fxos # show event  
Creation Time ID Code Description

-----  
2024-01-25T14:09:32.783 588408 E4197910 [FSM:STAGE:END]: Waiting for install license complete from blade 1/1(FSM-STAGE:sam:dme:OsControl  
2024-01-25T14:09:32.783 588409 E4197611 [FSM:STAGE:SKIP]: Reboot blade 1/1(FSM-STAGE:sam:dme:OsControllerInitOS:RebootHostAfterUpgra  
2024-01-25T14:09:32.783 588410 E4197611 [FSM:STAGE:END]: Reboot blade 1/1(FSM-STAGE:sam:dme:OsControllerInitOS:RebootHostAfterUpgra



2024-01-25T14:09:32.783 588411 E4197612 [FSM:END]: Init OS on blade 1/1(FSM:sam:dme:OsControllerInitOS)  
2024-01-25T14:09:32.783 588412 E4197612 [FSM:STAGE:END]: (FSM-STAGE:sam:dme:OsControllerInitOS:success)  
2024-01-25T14:09:32.782 588405 E4197909 [FSM:STAGE:STALE-SUCCESS]: Request for upgrade to blade 1/1(FSM-STAGE:sam:dme:OsControllerIn  
2024-01-25T14:09:32.782 588406 E4197909 [FSM:STAGE:END]: Request for upgrade to blade 1/1(FSM-STAGE:sam:dme:OsControllerInitOS:Request  
2024-01-25T14:09:32.782 588407 E4197910 [FSM:STAGE:SKIP]: Waiting for install license complete from blade 1/1(FSM-STAGE:sam:dme:OsControl  
2024-01-25T14:09:32.773 588404 E4197909 [FSM:STAGE:ASYNC]: Request for upgrade to blade 1/1(FSM-STAGE:sam:dme:OsControllerInitOS:Requ  
2024-01-25T14:09:32.768 588401 E4197609 [FSM:STAGE:END]: Request for upgrade to blade 1/1(FSM-STAGE:sam:dme:OsControllerInitOS:Request  
2024-01-25T14:09:32.768 588402 E4197610 [FSM:STAGE:SKIP]: Waiting for upgrade complete from blade 1/1(FSM-STAGE:sam:dme:OsControllerIni  
2024-01-25T14:09:32.768 588403 E4197610 [FSM:STAGE:END]: Waiting for upgrade complete from blade 1/1(FSM-STAGE:sam:dme:OsControllerInit  
FPR4110-04-A /chassis/server/fxos #

ماظننل نييغت ةداع| ببس راهظا|

صحنو (FTD) تايلمع يأل زكارم يأ دوجو مدع نم ققحت، ةعقوت مل ريغ زاهج ل/ق ي ب ط ت ل ل ل ي م ح ت ة د ا ع | تايلمع يل ل و ص ح ل ل  
ب ة ط ب ت ر م ة ل ك ش م ل ن و ك ت ن أ ل م ت ح م ل ن م ف ، ة د و ج و م ر ص ا ن ع ل ا ه ذ ه ن ك ت م ل ا ذ ا . **show crash** ر م أ ل ا م ا د خ ت س ا ب **ASA/Lina crashinfo**  
FXOS. ة س ا س أ ل ا ة م ل ك ل ل م ا د خ ت س ا ب ا ه ه ي ج و ت ن ك م ي و FXOS.

```
FPR4110-04-A# connect fxos
FPR4110-04-A(fxos)# show system reset-reason
----- reset reason for Supervisor-module 1 (from Supervisor in slot 1) ---
1) No time
Reason: Unknown
Service:
Version: 5.0(3)N2(4.101)

2) No time
Reason: Unknown
Service:
Version: 5.0(3)N2(4.101)
...
```

مأل ة ح و ل ل ا ة ق ا ط ت ا ل ك ش م

```
FPR4110-04-A# scope chassis 1
FPR4110-04-A /chassis # scope server 1/1
FPR4110-04-A /chassis/server # show fsm status
```

```
Slot: 1
Server: sys/chassis-1/blade-1
```

```
FSM 1:
Remote Result: Not Applicable
Remote Error Code: None
Remote Error Description:
Status: Nop
Previous Status: Turnup Success
Timestamp: 2023-10-23T16:48:19.299
Try: 0
Flags: 0
```

Progress (%): 100

Current Task:

FSM 2:

Status: Nop

Previous Status: Identify Success

Timestamp: 2023-10-23T16:47:33.592

Try: 0

Progress (%): 100

Current Task:

FSM 3:

Status: Nop

Previous Status: Configure Success

Timestamp: 2023-10-23T16:48:16.739

Try: 0

Flags: 0

Progress (%): 100

Current Task:

FPR4110-04-A /chassis/server # show fault

Severity Code Last Transition Time ID Description

-----  
Info F0461 2011-12-31T21:32:43.448 35793 Log capacity on Management Controller on server 1/1 is very-low

ةي قطنم ل ةزهجأل

FTD وأ ASA ام، قيبطت لئثم ليغشت ي قطنم زاهج كل حيتي، ةيفللخال تامولعم يف حضوم وه امك

لكيهل يف تبثم ل قيبطت لئثم ةلاح ديكأتل رم أوأل اضع بهه

ةبقارم لئثم

مداخال ةلاح راهظا

فاشكالا ةلاح وحتفل تناك اذا ام اضع

FPR4110-04-A# show server status

Server Slot Status Overall Status Discovery

-----  
1/1 Equipped Ok Complete

show slot

ةحتفل لئغشت ل ةلباق ةلاح وةرادال ةلاح و لجلس ل يوتسم اضع

FPR4110-04-A# scope ssa

FPR4110-04-A /ssa # show slot

Slot:

Slot ID Log Level Admin State Oper State

-----  
1 Info Ok Online

قېبطلال لېښم راهظا

مدختسمل يضا رت فالال قېبطلال وه ناك اذا امو CSP عونو ةدمت عمل رشنال عاونأو فلؤم لال او رادصال او مسالا ضرع

FPR4110-04-A# scope ssa

FPR4110-04-A /ssa # show app

Name Version Author Supported Deploy Types CSP Type Is Default App

-----  
ftd 7.0.4-55 cisco Native,Container Application No

ftd 7.0.5-72 cisco Native,Container Application Yes

يقتطنم لال زاهجال راهظا

FPR4110-04-A# scope ssa

FPR4110-04-A /ssa # show logical-device

Logical Device:

Name Description Slot ID Mode Oper State Template Name

-----  
FTD1 1 Standalone Ok ftd

قېبطلال لېښم راهظا

تاحت فال قاطن نمض قېبطلال لېښم راهظا مادختساب قېبطلال لېښم لېغشالال ةلاجل ةلمكال تامولعمل ضرع

وأ "تېبثت" وه ناك اذا لېغشالال ةلاجل يف حضوم وه امك، هتيقورت وأ قېبطلال لېښم عاشن| دنع صاخ لكش ب رمألا اذه دعاسي  
هلهغش ت يراجال جم انربال رادصالو "لصتم"

FPR4110-04-A# scope ssa

FPR4110-04-A /ssa # scope slot 1

FPR4110-04-A /ssa/slot # show app-instance

Application Instance:

App Name Identifier Admin State Oper State Running Version Startup Version Deploy Type Turbo Mode Profile Name Cluster State Cluster Role

-----  
ftd FTD1 Enabled Online 7.0.5-72 7.0.5-72 Native No Not Applicable None

قېبىتىلىش لايىھىسىنىڭ ئىشلىتىش ھالىتى

FPR4110-04-A# scope ssa  
FPR4110-04-A /ssa # show app-instance detail

App Name: ftd  
Identifier: FTD1  
Slot ID: 1  
Admin State: Enabled  
Oper State: Online  
Running Version: 7.0.5-72  
Startup Version: 7.0.5-72  
Deploy Type: Native  
Profile Name:  
Cluster State: Not Applicable  
Cluster Role: None  
Current Job Type: Start  
Current Job Progress: 100  
Current Job State: Succeeded  
Clear Log Data: Available  
Error Msg:  
Hotfixes:  
Externally Upgraded: No  
FPR4110-04-A /ssa #

دروملىق ئىشلىتىش ھالىتى

قېبىتىلىش لايىھىسىنىڭ دروملىق ئىشلىتىش ھالىتى

FPR4110-04-A# scope ssa  
FPR4110-04-A /ssa # scope slot 1  
FPR4110-04-A /ssa/slot # enter app-instance ftd FTD1  
FPR4110-04-A /ssa/slot/app-instance # show resource detail

Resource:  
Allocated Core NR: 22  
Allocated RAM (MB): 52096  
Allocated Data Disk (MB): 128685  
Allocated Binary Disk (MB): 3907  
Allocated Secondary Disk (MB): 0

ئىشلىتىش لايىھىسىنىڭ ئىشلىتىش ھالىتى

ئىشلىتىش لايىھىسىنىڭ ئىشلىتىش ھالىتى

بجې. ېلحمل بېولام داخ ېل لوصول تايلمع عيمج 4100/9300 Secure Firewall Threat Defense لكه ضفري، ېضارتفا لكشبو  
كه ېصاخلا IP لتك نم لكلا هب حومسمل تامدخالاب ېمئاق مادختساب كه ېصاخلا IP ېل لوصول ېمئاق نېوكت

تالوكوتوربلا IP ېل لوصول ېمئاق معدت:

- 

HTTPS

- 

SNMP

- 

نمآلا لقنلا لوكوتورب (SSH)

```
FPR4110-04-A# scope system
FPR4110-04-A /system # scope services
FPR4110-04-A /system/services # show ip-block
```

Permitted IP Block:

IP Address Prefix Length Protocol

-----

0.0.0.0 0 https

0.0.0.0 0 snmp

دېدج لاخدا نېوكتب صاخ **enter** رمألا

```
FPR4110-04-A /system/services # enter ?
```

dns Domain Name Server hostname

ip-block Permitted IP Block

ipv6-block Permitted IPv6 Block

ntp-server NTP server hostname

ssh-host SSH Server public keys

```
FPR4110-04-A /system/services # enter ip-block ?
```

a.b.c.d IP Address

```
FPR4110-04-A /system/services # enter ip-block 0.0.0.0 ?
```

0-32 Prefix Length

```
FPR4110-04-A /system/services # enter ip-block 0.0.0.0 0 ?
```

https Https

snmp Snmp

ssh Ssh

```
FPR4110-04-A /system/services/ # enter ip-block 0.0.0.0 0 ssh
FPR4110-04-A /system/services/ip-block* # commit-buffer
FPR4110-04-A /system/services/ip-block # up
FPR4110-04-A /system/services # show ip-block
```

Permitted IP Block:

IP Address Prefix Length Protocol

-----

```
0.0.0.0 0 https
0.0.0.0 0 snmp
0.0.0.0 0 ssh
```

ةشاشل تاهجاو

لكيهل ةرادب صخال IP ناوع نم ققحتل

```
FPR4110-04-A# show fabric-interconnect
```

Fabric Interconnect:

ID OOB IP Addr OOB Gateway OOB Netmask OOB IPv6 Address OOB IPv6 Gateway Prefix Operability Ingress VLAN Group Entry Count (Current/Ma

-----  
A 172.16.244.72 172.16.244.65 255.255.255.192 :: :: 64 Operable 0/500 53/102

ذفنملا راهظا

ةرادال ةهجاو ةلاح ددح.

```
FPR4110-04-A# connect local-mgmt
FPR4110-04-A(local-mgmt)#
FPR4110-04-A(local-mgmt)# show mgmt-port
eth0 Link encap:Ethernet HWaddr 50:0f:80:8e:a5:cd
inet addr:172.16.244.72 Bcast:172.16.244.127 Mask:255.255.255.192
inet6 addr: fe80::520f:80ff:fe8e:a5cd/64 Scope:Link
inet6 addr: fe80::520f:80ff:fe8e:a5cd/64 Scope:Link
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:7359566 errors:0 dropped:0 overruns:0 frame:0
TX packets:1147585 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:1735874306 (1.6 GiB) TX bytes:360530127 (343.8 MiB)
```

ل.اصلتال رابتخال لاصلتال رابتخال مادختس! نكمي

```
FPR4110-04-A(local-mgmt)# ping 172.16.244.65
PING 172.16.244.65 (172.16.244.65) from 172.16.244.72 eth0: 56(84) bytes of data.
64 bytes from 172.16.244.65: icmp_seq=1 ttl=254 time=1.15 ms
64 bytes from 172.16.244.65: icmp_seq=2 ttl=254 time=1.38 ms
^C
--- 172.16.244.65 ping statistics ---
6 packets transmitted, 6 received, 0% packet loss, time 12ms
rtt min/avg/max/mdev = 1.146/1.364/1.479/0.122 ms
FPR4110-04-A(local-mgmt)#
```

ةرادإلا ةهجاو ىلع طاقنلا طبض

طبر 10- طقف ضبق ىلع ،ايضارتفا (FP41xx/FP93xx) ىلع ال اذه قبطنى ال (MIO) لكىهل ةرادإ ةهجاو طاقنلا نيكمت

```
FPR4110-04-A# connect fxos
FPR4110-04-A(fxos)# ethanalyzer local interface mgmt
Capturing on 'eth0'
1 2024-01-30 16:15:56.149887591 fe80::6a9e:bff:fed5:678c → ff02::2 ICMPv6 70 Router Solicitation from 68:9e:0b:d5:67:8c
2 2024-01-30 16:15:56.635897727 80:b7:09:32:f2:a0 → ff:ff:ff:ff:ff:ff ARP 60 Who has 172.16.244.65? Tell 172.16.244.106
3 2024-01-30 16:15:56.650081622 c4:72:95:76:df:97 → 01:80:c2:00:00:00 STP 60 RST. Root = 0/12/2c:31:24:b1:6b:00 Cost = 4 Port = 0x8017
4 2024-01-30 16:15:57.170356692 172.16.244.72 → 172.16.254.131 NTP 90 NTP Version 3, client
5 2024-01-30 16:15:57.234298977 172.16.254.131 → 172.16.244.72 NTP 90 NTP Version 3, server
6 2024-01-30 16:15:58.656444769 c4:72:95:76:df:97 → 01:80:c2:00:00:00 STP 60 RST. Root = 0/12/2c:31:24:b1:6b:00 Cost = 4 Port = 0x8017
7 2024-01-30 16:15:59.170382028 172.16.244.72 → 172.16.254.131 NTP 90 NTP Version 3, client
8 2024-01-30 16:15:59.233556065 172.16.254.131 → 172.16.244.72 NTP 90 NTP Version 3, server
9 2024-01-30 16:15:59.352654266 0.0.0.0 → 255.255.255.255 DHCP 368 DHCP Discover - Transaction ID 0x328ec1b7
10 2024-01-30 16:16:00.150684560 fe80::6a9e:bff:fed5:678c → ff02::2 ICMPv6 70 Router Solicitation from 68:9e:0b:d5:67:8c
10 packets captured
Program exited with status 0
```

ةضفخنم ةيولوأ تاذ وأ ةيلاع ةيولوأ تاذ تالجتس ةبائتمب تارايلال دعت . تنرتنإلا ةهجاو يف رزىلاناثيإلا مادختسإ نكمى امك

```
FPR4110-04-A(fxos)# ethanalyzer local interface ?
inbound-hi Inbound(high priority) interface
inbound-low Inbound(low priority) interface
mgmt Management interface
```

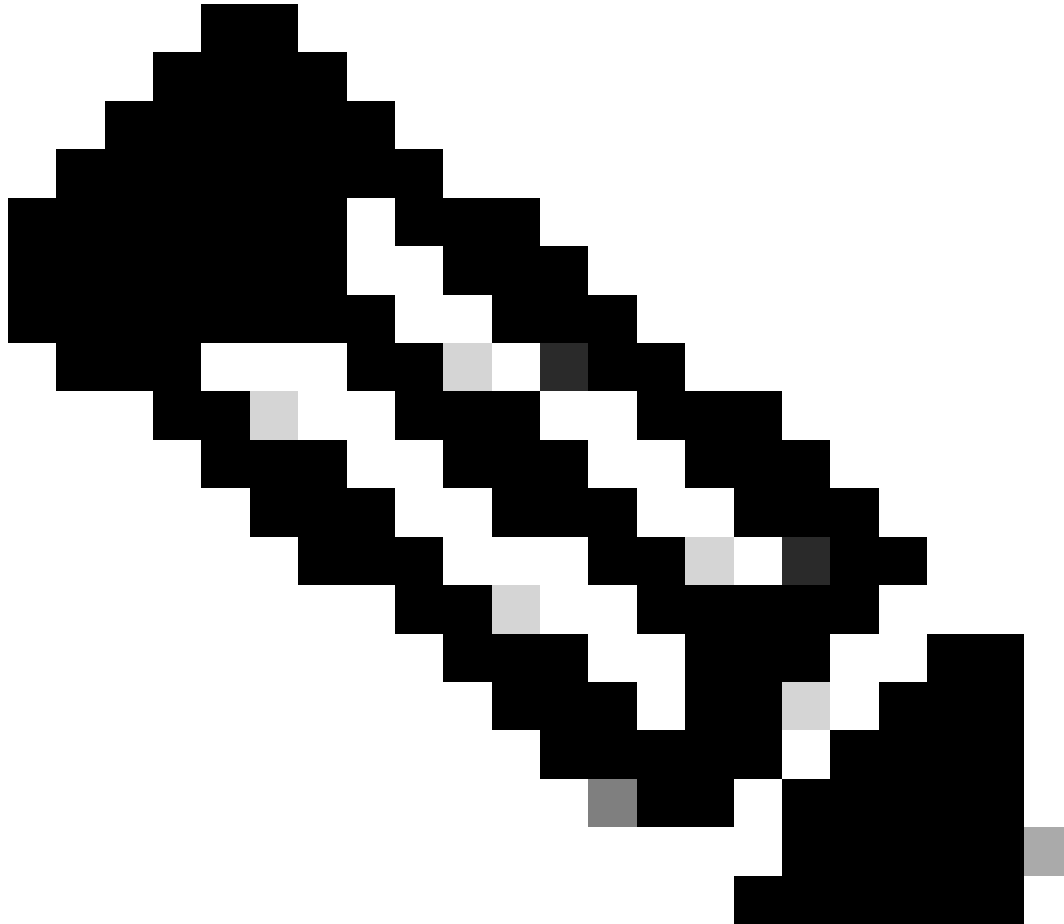
طاقنلالا ىلع ةيفصت لماع مادختسإ نكمى

```
FPR4110-04-A(fxos)# ethanalyzer local interface ?
inbound-hi Inbound(high priority) interface
inbound-low Inbound(low priority) interface
mgmt Management interface
```

ةهجاوإا راهظا

ل.يغشئلل ةلباق ةلإك لبسل زجوم فصولب لكهلا يف ةهجاوإل ةلإل ةلإل او ةمئاقلا رمألا اذه ضرعي

---



ةمئاقلا هذه يف ذفانملا تاونق يف ذفانمك لمعت يتلا تاهجاوإا رهظت ال :ةظالم

---

```
FPR4110-04-A# scope eth-uplink
FPR4110-04-A /eth-uplink # scope fabric a
FPR4110-04-A /eth-uplink/fabric # show interface
```

Interface:  
Port Name Port Type Admin State Oper State Allowed Vlan State Reason



```
-----
Ethernet1/1 Data Enabled Link Down All Link failure or not-connected
Ethernet1/2 Data Disabled Admin Down All Administratively down
Ethernet1/3 Data Enabled Up All Port is enabled and up
Ethernet1/4 Data Enabled Up All Port is enabled and up
Ethernet1/5 Data Enabled Link Down All Link failure or not-connected
Ethernet1/6 Data Enabled Link Down All Link failure or not-connected
Ethernet1/7 Data Enabled Sfp Not Present All Unknown
Ethernet1/8 Mgmt Enabled Up All Port is enabled and up
Ethernet2/2 Data Enabled Link Down All Link failure or not-connected
Ethernet2/5 Data Disabled Sfp Not Present All Unknown
Ethernet2/6 Data Disabled Sfp Not Present All Unknown
Ethernet2/7 Data Disabled Sfp Not Present All Unknown
Ethernet2/8 Data Disabled Sfp Not Present All Unknow
```

ك ن ك م ي . ن م آ ل ا ة ي ا م ح ل ر ا د ج ة م ظ ن أ ل ع ا ه ي ل ع ف ر ع ت ل م ت ة ز ه ج أ ت ا ل ك ش م ي أ ل ل ا ة ا ط خ أ ل ا ر ي ش ت ، ا ق ب س م ة ر ا ش ا ل ا ت م ت ا م ك و  
E T H . ة ل ص و ي ف ب و ي ع ل ل ل ا ث م ل ا ا ذ ه ح ض و ي . ق ا ط ن ل ك ي ف ت ا ل ك ش م ل ا ل ي ل ق ت ل ة ف ل ت خ م ت ا ق ا ط ن ي ف ا ة ا ط خ أ ل ا ن م ق ق ح ت ل ا

```
FPR4110-04-A# scope eth-uplink
FPR4110-04-A /eth-uplink # show fault
Severity Code Last Transition Time ID Description
-----
```

```
Major F0727 2024-01-29T20:31:54.282 597025 lan Member 2/3 of Port-Channel 1 on fabric interconnect A is down, membership: down
Major F0727 2024-01-29T20:31:54.282 597023 lan Member 2/4 of Port-Channel 1 on fabric interconnect A is down, membership: down
Major F0282 2023-07-31T17:52:04.764 201600 lan port-channel 7 on fabric interconnect A oper state: failed, reason: No operational members
Major F0282 2023-07-31T17:51:03.325 201446 lan port-channel 4 on fabric interconnect A oper state: failed, reason: No operational members
Major F0282 2023-07-31T17:49:00.451 201281 lan port-channel 2 on fabric interconnect A oper state: failed, reason: No operational members
Major F0282 2023-07-31T17:42:34.236 200638 lan port-channel 1 on fabric interconnect A oper state: failed, reason: No operational members
Major F0282 2023-07-31T17:41:34.673 200660 lan port-channel 3 on fabric interconnect A oper state: failed, reason: No operational member
```

```
show port-channel
```

ة م ا ل ا ا ه ت ل ا ح ل ل ا ة ف ا ض ا ل ا ب ، ل ك ي ه ل ا ي ف ا ه ن ي و ك ت م ت ي ت ل ا ذ ف ن م ل ا ت ا و ن ق د د ع ح ض و ي ا ذ ه و .

ة م و ل ع م ا ة ا ض ع ا ل ا ل ص ح ي ن ا ل ا ج م ة ا ن ق ة ا ن ي م ص ا خ ل ل ا ت ل ق ن ع ي ط ت س ي ت ن ا .

channel-انيم أطخ نم لاثم اذه نأ امب ، ةدعاسم ريثك ل TAC ل لصتا ، failed. نأ channel-انيم لم تنأ يري نا

```
FPR4110-04-A# scope eth-uplink
FPR4110-04-A /eth-uplink # scope fabric a
FPR4110-04-A /eth-uplink/fabric # show port-channel
```

```
Port Channel:
```

```
Port Channel Id Name Port Type Admin State Oper State Port Channel Mode Allowed Vlan State Reason
```

```
-----
1 Port-channel1 Data Enabled Failed Active All No operational members
2 Port-channel2 Data Enabled Failed Active All No operational members
3 Port-channel3 Data Enabled Failed Active All No operational members
4 Port-channel4 Data Enabled Failed Active All No operational members
7 Port-channel7 Data Enabled Failed Active All No operational members
```

FPR4110-04-A /eth-uplink/fabric # scope port-channel 1  
FPR4110-04-A /eth-uplink/fabric/port-channel # show member

Member Port:

Port Name Membership Oper State State Reason

-----  
Ethernet2/3 Down Sfp Not Present Unknown  
Ethernet2/4 Down Sfp Not Present Unknown

هياضعأ كلذكو زاهجلا ىلع ذفنملا تاونق عيمج ضرعل **show port-channel summary** رمألا مدختسأ

FPR4110-04-A# connect fxos  
FPR4110-04-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

-----  
1 Po1(SD) Eth LACP Eth2/3(D) Eth2/4(D)  
2 Po2(SD) Eth NONE --  
3 Po3(SD) Eth NONE --  
4 Po4(SD) Eth NONE --  
7 Po7(SD) Eth NONE --

ةلص تاذا تامولعم

- [اهجالص او FXOS عاطخأ فاشكتسا فلم عاشتنا](#)
- [\(FXOS\) Firepower لىغشتلل لباقلا لىغشتلا ماظن لوح ةلواذتملا ةلئسألا ىلع درلا](#)
- [اهجالص او اهياطخأ فاشكتسا او FirePOWER ةزهجأ ىلع NTP تادادعلا نيوكت](#)
- [Firepower ةزهجأ ىلع اهنم ققوحتلا او ذفنملا ةانق نيوكت](#)

ةمچرتل هذه لوج

ةلأل تاي نقتل نم ةومچم مادختساب دن تسمل اذہ Cisco تچرت  
ملاعلاء انء عيچ ي ف ني مدختسمل معد يوتحم مي دقتل ةيرشبلاو  
امك ةقيقد نوك ت نل ةلأل ةمچرت لصف أن ةظحال م يچري. ةصاغل مهتغب  
Cisco يلخت. فرتحم مچرت م اهم دقي ي تلل ةي فارتحال ةمچرتل عم لال او  
ىل إأمئاد عوچرلاب ي صؤتو تامچرتل هذه ةقد نع اهتيلوئسم Cisco  
Systems (رفوتم طبارلا) ي لصال يزي لچن إلال دن تسمل