

حاتفم 4500/4900 ةزافح ةدامل ةملك تدرتسإ كرحم فرشم عم

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ةمدقمل

نأ حاتفم 4500/4900 ةزافح ةدام لىل دوقفم رورم ةملك درتسي نأ فيك ةقيثو اذه فصبي
ةيجمر ب Cisco IOS® سكرى نأ كرحم فرشم لىل قىلتي.

ةيساسأل تابلطمل

تابلطمل

دن تسمل اذهل ةصاخ تابلطتم دجوت ال

ةمدختسمل تانوكمل

ةنعم ةيدام تانوكم وجرمارب تارادصل لىل دن تسمل اذه رصتقي ال

ةصاخ ةيلمعم ةئي ب في ةدوجومل ةزهجال نم دن تسمل اذه في ةدراول تامولعمل عاشنإ مت
تنك اذإ. (يضا رتفا) حوسمم نيوكتب دن تسمل اذه في ةمدختسمل ةزهجال عيمج تادب
رمأ لىل لم تحمل ريثا لىل كم هف نم دكاتف، ليغشتل دي قكتك بيش

تاحالطصال

تاحالطصا لوح تامولعمل نم ديزم لىل لوصحلل ةينقتل Cisco تاحيملت تاحالطصا عجار
تادن تسمل

ةيساسأ تامولعم

و II+ فرشملا تاكرحم معدت، Catalyst 4500/4000 Series Switches تالوحم في: ةظالم
II و I فرشملا تاكرحم و Cisco IOS جم انرب طقف V-10GE و V و IV و III و II+TS و II+10GE
ةملك، II، و I كرحم فرشملا لىل ةملكلا تدرتسإ in order to تلحأ. Catalyst OS جم انرب

[CatOS ضكري نأ ةزافح ةداملل عارجا ةداعتسا](#)

Catalyst لوحم ىلع ةفورعم ريغ وأ ةدوقم رورم ةملك ةداعتسا ةيفيك دنتسملا اذه حضوي 4500/4000 فرشم كرحم عم 4500/4000 فرشم كرحم عم (WS-X4013+TS) II-Plus-TS، (WS-X4013+) II-Plus فرشم كرحم عم، (WS-X4013+10GE) II-Plus-10GE فرشم كرحم عم، Supervisor Engine III (WS-X4014)، Supervisor Engine IV (WS-X4515)، (WS-X4516) v كرحم فرشم، (WS-X4516-10GE) v-10GE كرحم فرشم، و cisco ةزافح ةدام 4900m، cisco ةزافح ةدام 4948، cisco ةزافح ةدام 4948، ةيظمن ةدحو حاتفم.

نيوكتلا ةيلمع

حاتفم 4500/4900 ةزافح ةداملا ىلع كوروم ةملك درتسي نأ

ةدحو لوصلو مادختسا نمو لوحملا ىلإ ىلع لوصو ىلع ك لوصح نم دكأت: **ةظحال** لوصلل. تاوطلال هذه ذيفنت اناثأ (فرشملا كرحم) Supervisor Engine ةدحو ىلإ مكحتلا **ةدحو ذفنم مدمم لىصوت** ىلإ عجرا، لوحملا مكحت ةدحو لاصتا لوح لىصافت ىلع **Catalyst** تاوطلال **ىف مكحتلا**.

، ةسرامم لىصفاك. روكذم وه امك عارجال عابتا مت اذا لوحملا نيوكت دقف متي ال: **حيملت**، مداخل Cisco ةزهجأ عيمج نيوكت نم ةيطايتح إخسن كيدل نوكتي نأ Cisco لىصوت TFTP ةرادا مداخل.

1. دعأ مت، زاهجال لىغشت فاقيا م ق، ةقاطلا ةرود لجأ نم. زاهجال ةقاط ةرودب م ق. اذه كعضي. ىلإ قتل ديهمتلا عنمل ناوث 5 نوضغ يفي **Ctrl-C** ىلع طغضا. هلىغشت **ROMmon**. ةشاشب صاخلا ةبلاطملا عضوي عارجال.

```
!--- Here, you power cycle the switch.
```

```
***** * * * Welcome to ROM Monitor for
WS-X4014 System. * * Copyright (c) 1999-2000, 2001 by Cisco Systems, Inc. * * All rights
reserved. * * * ***** ROM Monitor
Program Version 12.1(10r)EY(1.21) Board type 1, Board revision 7 Swamp FPGA revision 16,
Dagobah FPGA revision 43 Timer interrupt test passed. MAC Address : 00-02-b9-83-af-fe IP
Address : 172.16.84.122 Netmask : 255.255.255.0 Gateway : 172.16.84.1 TftpServer : Not set.
Main Memory : 256 MBytes ***** The system Will autoboot in 5 seconds ***** Type control-C to
prevent autobooting.
```

```
!--- At this point, press Ctrl-C.
```

```
Autoboot cancelled..... please wait!!!
Autoboot cancelled..... please wait!!!
rommon 1 > [interrupt]
```

```
!--- The module ended in the ROMmon.
```

```
rommon 1 > [interrupt]
```

2. يفي انه رهظت يتلا تايدحتلا لمعب م ق. **رم او هجوم rommon** ىلع ةدايقلا **confreg** رادصا م ق. رورملا ةملك دادرستال رماوالا رطس ةهجاو:

```
rommon 1 > set
```

```
rommon 1 > confreg
```

```
Configuration Summary :
=> load ROM after netboot fails
```

```
=> console baud: 9600
=> autoboot from: commands specified in 'BOOT' environment variable
```

```
do you wish to change the configuration? y/n [n]: y
enable "diagnostic mode"? y/n [n]: n
enable "use net in IP bcast address"? y/n [n]: n
disable "load ROM after netboot fails"? y/n [n]: n
enable "use all zero broadcast"? y/n [n]: n
enable "break/abort has effect"? y/n [n]: n
enable "ignore system config info"? y/n [n]: y
```

```
change console baud rate? y/n [n]: n
```

```
change the boot characteristics? y/n [n]: n
```

```
Configuration Summary :
```

```
=> load ROM after netboot fails
=> ignore system config info
=> console baud: 9600
=> autoboot from: commands specified in 'BOOT' environment variable
```

```
do you wish to save this configuration? y/n [n]: y
You must reset or power cycle for new configuration to take effect
```

ةميق نييعةتل ROMmon رمأل هجوم يف رمأل 0x2142 confreg مادختسا اضيا كنكمي :ةطخالجم
NVRAM ةركاذا يف نزملم لايغشتلا ادب نيوكت يطيختل نيوكتلا لجمس.

```
rommon 1 > confreg 0x2142
```

You must reset or power cycle for the new configuration to take effect.

3. يتل تاريخيغتلل ارظن.ةيطمنلل ةدحولا ليغشت ةداعإ حمسي يذلا رمأل reset رادصإ مق
نيوكتلا لهاجتت اهنكلو ةيطمنلل ةدحولا ديهمت ةداعإ متت 2، ةوطخال يف اهب تمق
ظوفحمل.

```
rommon 2 > reset
```

```
Resetting .....
```

```
rommon 3 >
```

```
***** Welcome to ROM Monitor for WS-X4014 System. * * Copyright (c)  
1999-2000, 2001 by Cisco Systems, Inc. * * All rights reserved. * * *
```

```
!--- Output suppressed.
```

```
Press RETURN to get started!
```

```
!--- Press Return.
```

```
00:00:21: %SYS-5-RESTART: System restarted -- Cisco Internetwork Operating System Software IOS (tm) Catalyst 4000  
L3 Switch Software (cat4000-IS-M), Version 12.1(8a)EW, RELEASE SOFTWARE (fc1) TAC Support:  
http://www.cisco.com/tac Copyright (c) 1986-2002 by cisco Systems, Inc. Compiled Thu 24-Jan-02 17:34 by ccai 00:00:21:  
%SNMP-5-COLDSTART: SNMP agent on host Switch is undergoing a cold start
```

```
Switch>
```

4. ةدحولا ديهمت ىلع ةميقل هذه لمعت. 0x2142 هه نيوكتلا لجمس ةميقل نأ نم دكأت
رمأل رادصإ مق .ظوفحمل نيوكتلا لايحمحت نود (ةتقؤملا ةركاذلا) Flash نم ةيطمنلل
رمأل رادصإ مق مث .نيكمتلا عوضو ىللا لاقنتنالل Switch ةبالاطم ةذفان يف **enable**
نيوكتلا لجمس ةميقل نم ققحتلل **show version**.

```
Switch>enable
```

```
Switch#show version
```

```
Cisco Internetwork Operating System Software  
IOS (TM) Catalyst 4000 L3 Switch Software (cat4000-IS-M),  
Version 12.1(8a)EW, RELEASE SOFTWARE (fc1)
```

TAC Support: <http://www.cisco.com/tac>
Copyright (c) 1986-2002 by cisco Systems, Inc.
Compiled Thu 24-Jan-02 17:34 by ccai
Image text-base: 0x00000000, data-base: 0x00AA2B8C

ROM: 12.1(10r)EY(1.21)
Switch uptime is 5 minutes
System returned to ROM by reload
Running default software

cisco WS-C4006 (MPC8245) processor (revision 7) with 262144K bytes of memory.
Processor board ID FOX04183666
Last reset from Reload
32 Gigabit Ethernet/IEEE 802.3 interface(s)
467K bytes of non-volatile configuration memory.

Configuration register is 0x2142

Switch#

5. في NVRAM ةرك اذخ سنل `copy startup-config running-config` وأرمأل `configure memory` رادصإب مق ةدحولال ىلع يضارتفالال نيوكتلال ضرعي في ذلأ، رملأل `configure terminal` رادصإ مدع. ةرك اذلأ ةي طمنلل.

Switch#**configure memory**

Uncompressed configuration from 1307 bytes to 3014 bytes

Switch#

00:13:52: %SYS-5-CONFIG_I: Configured from memory by console

c-4006-SUPIII#

6. `up/up` يدب في اقباس لمعتسي ناك نأ نراقلل نأ دكأت في نأ رملأ `show ip interface brief` رادصإب مق نم ام لا، `down` يدب في ةداعتسلإ ةم لكلا لبق لمعتسي ناك نأ نراق any of the. نإ. عضو قوف نراقلل بلجي نأ نراق نأ ىلع رملأ لمع فاق في.
7. ىلع ظوفحملال نيوكتلال ضرعل `show running-config` رملأل وأ `write terminal` رادصإب مق ةي طمنلل ةدحولال.

c-4006-SUPIII#show running-config

Building configuration...

Current configuration : 3014 bytes

!

version 12.1

no service pad

service timestamps debug uptime

service timestamps log uptime

no service password-encryption

service compress-config

!

hostname c-4006-SUPIII

!

boot system flash bootflash:

!

vtp mode transparent

!--- Output suppressed.

line con 0 stopbits 1 line vty 0 4 login

!

end

c-4006-SUPIII#

- ةي طمنلل ةدحولال ىلع رورملال ةم لك ريغي تغتل زهاج نألأ تنأ
8. ةم لكلا ريغي نأ رملأ اذه تردصأ:

```
c-4006-SUPIII#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
c-4006-SUPIII(config)#no enable secret
```

```
!--- This step is necessary if the switch had an enable secret password. c-4006-
SUPIII(config)#enable secret < password >
[Choose a strong password with at least one capital letter,
one number, and one special character.]
```

```
!--- This command sets the new password.
```

9. رمأل هجوم يف تاوطخلال هذه لمكأ. 0x2102 لىل نيوكتلال لجس ةميقي ةداع| نم دكأت. اه نم ققحتلال او نيوكتلال لجس ةميقي ريغتل ConfigPrompt

```
c-4006-SUPIII(config)#config-register 0x2102
c-4006-SUPIII(config)# ^Z
c-4006-SUPIII#
00:19:01: %SYS-5-CONFIG_I: Configured from console by console
c-4006-SUPIII#write memory
```

```
!--- This step saves the configuration. Building configuration...
Compressed configuration from 3061 bytes to 1365 bytes[OK]
c-4006-SUPIII#show version
```

```
!--- This step verifies the value change.
```

```
Cisco Internetwork Operating System Software
IOS (TM) Catalyst 4000 L3 Switch Software (cat4000-IS-M),
Version 12.1(8a)EW, RELEASE SOFTWARE (fc1)
TAC Support: http://www.cisco.com/tac
Copyright (c) 1986-2002 by cisco Systems, Inc.
Compiled Thu 24-Jan-02 17:34 by ccai
Image text-base: 0x00000000, database: 0x00AA2B8C
```

```
ROM: 12.1(10r)EY(1.21)
c-4006-SUPIII uptime is 20 minutes
System returned to ROM by reload
Running default software
```

```
cisco WS-C4006 (MPC8245) processor (revision 7) with 262144K bytes of memory.
Processor board ID FOX04183666
Last reset from Reload
32 Gigabit Ethernet/IEEE 802.3 interface(s)
467K bytes of nonvolatile configuration memory.
```

```
Configuration register is 0x2142 (will be 0x2102 at next reload)
```

```
c-4006-SUPIII#
رورم ال ةم لك ريغتب تمق ، ةطقنلال هذه دنع
```

جارخإلال او نيوكتلال لىل لاثم

iii. كرحم فرشم 4000 ةزافح ةدام لىل عارج| ةداعتس| ةم لكلال نم ةجيتنللا جاتنل لاثم اذه

```
c-4006-SUPIII> enable
Password:
Password:
Password:
% Bad secrets
```

```
!--- Here, you power cycle the switch.
```

```
***** Welcome to ROM Monitor for WS-
```

X4014 System. * * Copyright (c) 1999-2000, 2001 by Cisco Systems, Inc. * * All rights reserved.
* * * ***** ROM Monitor Program Version
12.1(10r)EY(1.21) Board type 1, Board revision 7 Swamp FPGA revision 16, Dagobah FPGA revision
43 Timer interrupt test passed. MAC Address : 00-02-b9-83-af-fe IP Address : 172.16.84.122
Netmask : 255.255.255.0 Gateway : 172.16.84.1 TftpServer : Not set. Main Memory : 256 Mbytes
***** The system will autoboot in 5 seconds *****

Type control-C to prevent autobooting.

!--- At this point, press Ctrl-C.

Autoboot cancelled..... please wait!!!

Autoboot cancelled..... please wait!!!

rommon 1 > [interrupt]

rommon 1 > [interrupt]

rommon 1 > **confreg**

Configuration Summary :

=> load ROM after netboot fails

=> console baud: 9600

=> autoboot from: commands specified in 'BOOT' environment variable

do you wish to change the configuration? y/n [n]: **y**

enable "diagnostic mode"? y/n [n]: **n**

enable "use net in IP bcast address"? y/n [n]: **n**

disable "load ROM after netboot fails"? y/n [n]: **n**

enable "use all zero broadcast"? y/n [n]: **n**

enable "break/abort has effect"? y/n [n]: **n**

enable "ignore system config info"? y/n [n]: **y**

change console baud rate? y/n [n]: **n**

change the boot characteristics? y/n [n]: **n**

Configuration Summary :

=> load ROM after netboot fails

=> ignore system config info

=> console baud: 9600

=> autoboot from: commands specified in 'BOOT' environment variable

do you wish to save this configuration? y/n [n]: **y**

You must reset or power cycle for new configuration to take effect

rommon 2 > **reset**

Resetting

rommon 3 >

***** Welcome to ROM Monitor for WS-X4014 System. * * Copyright (c) 1999-2000, 2001 by Cisco Systems, Inc. * * All rights reserved. * * * *****

ROM Monitor Program Version 12.1(10r)EY(1.21)

Board type 1, Board revision 7

Swamp FPGA revision 16,

Dagobah FPGA revision 43

Timer interrupt test passed.

MAC Address : 00-02-b9-83-af-fe

IP Address : 172.16.84.122

Netmask : 255.255.255.0

Gateway : 172.16.84.1
TftpServer : Not set.
Main Memory : 256 Mbytes

***** The system will autoboot in 5 seconds *****

Type control-C to prevent autobooting.

.

***** The system will autoboot now *****

config-register = 0x2142

Autobooting using BOOT variable specified file.....

Current BOOT file is --- bootflash:

Rommon reg: 0x2B004180

Decompressing the image : #####

[OK]

k2diags version 1.6

prod: WS-X4014 part: 73-6854-07 serial: JAB0546060Z

Power-on-self-test for Module 1: WS-X4014
Status: (. = Pass, F = Fail)

Traffic using serdes loopback (L2; one port at a time)...
switch port 0: . switch port 1: . switch port 2: .
switch port 3: . switch port 4: . switch port 5: .
switch port 6: . switch port 7: . switch port 8: .

!--- Output suppressed.

Module 1 Passed

Exiting to ios...

Rommon reg: 0x2B000180

Decompressing the image : #####

!--- Output suppressed.

[OK]

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cisco Systems, Inc. 170 West Tasman Drive San Jose, California 95134-1706

cisco WS-C4006 (MPC8245) processor (revision 7) with 262144K bytes of memory.
Processor board ID FOX04183666
Last reset from Reload
32 Gigabit Ethernet/IEEE 802.3 interface(s)
467K bytes of nonvolatile configuration memory.

Press RETURN to get started!

```
00:00:21: %SYS-5-RESTART: System restarted --
Cisco Internetwork Operating System Software
IOS (TM) Catalyst 4000 L3 Switch Software (cat4000-IS-M),
Version 12.1(8a)EW, RELEASE SOFTWARE (fc1)
TAC Support: http://www.cisco.com/tac
Copyright (c) 1986-2002 by cisco Systems, Inc.
Compiled Thu 24-Jan-02 17:34 by ccai
00:00:21: %SNMP-5-COLDSTART: SNMP agent on host Switch is undergoing a cold start
Switch>enable
Switch#show version
Cisco Internetwork Operating System Software
IOS (TM) Catalyst 4000 L3 Switch Software (cat4000-IS-M),
Version 12.1(8a)EW, RELEASE SOFTWARE (fc1)
TAC Support: http://www.cisco.com/tac
Copyright (c) 1986-2002 by cisco Systems, Inc.
Compiled Thu 24-Jan-02 17:34 by ccai
Image text-base: 0x00000000, database: 0x00AA2B8C
```

```
ROM: 12.1(10r)EY(1.21)
Switch uptime is 5 minutes
System returned to ROM by reload
Running default software
```

cisco WS-C4006 (MPC8245) processor (revision 7) with 262144K bytes of memory.
Processor board ID FOX04183666
Last reset from Reload
32 Gigabit Ethernet/IEEE 802.3 interface(s)
467K bytes of nonvolatile configuration memory.

Configuration register is 0x2142

Switch#

Switch#**configure memory**

```
Uncompressed configuration from 1307 bytes to 3014 bytes
c-4006-SUPIII#
00:13:52: %SYS-5-CONFIG_I: Configured from memory by console
c-4006-SUPIII#show running-config
Building configuration...
```

```
Current configuration : 3014 bytes
!
version 12.1
no service pad
service timestamps debug uptime
service timestamps log uptime
no service password-encryption
service compress-config
!
hostname c-4006-SUPIII
!
boot system flash bootflash:
```



```

!
vtp mode transparent
!
vlan 20 private-vlan primary ! vlan 100 ! vlan 202 private-vlan association 440 ! vlan 440 private-vlan isolated ! vlan 500 ip subnet-
zero no ip domain-lookup ! ip multicast-routing !! interface GigabitEthernet1/1 no switchport ip address 10.1.1.1 255.255.255.0 ip
pim dense-mode ! interface GigabitEthernet1/2 no switchport ip address 10.2.2.2 255.255.255.0
!

!--- Output suppressed.

!
interface Vlan1 ip address 172.16.84.140 255.255.255.0 ip pim dense-mode ! interface Vlan2 no ip address shutdown ! interface
Vlan20 no ip address shutdown
!

!--- Output suppressed.

!
line con 0 stopbits 1 line vty 0 4 login
!
end

c-4006-SUPIII#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
c-4006-SUPIII(config)#no enable secret

!--- This step is necessary if the switch had an enable secret password.

c-4006-SUPIII(config)#enable secret < password >
[Choose a strong password with at least one capital letter,
one number, and one special character.]
c-4006-SUPIII(config)#config-register 0x2102
c-4006-SUPIII(config)#^Z
c-4006-SUPIII#
00:19:01: %SYS-5-CONFIG_I: Configured from console by console
c-4006-SUPIII#write memory
Building configuration...
Compressed configuration from 3061 bytes to 1365 bytes[OK]
c-4006-SUPIII#show version
Cisco Internetwork Operating System Software
IOS (TM) Catalyst 4000 L3 Switch Software (cat4000-IS-M),
Version 12.1(8a)EW, RELEASE SOFTWARE (fc1)
TAC Support: http://www.cisco.com/tac
Copyright (c) 1986-2002 by cisco Systems, Inc.
Compiled Thu 24-Jan-02 17:34 by ccai
Image text-base: 0x00000000, database: 0x00AA2B8C

ROM: 12.1(10r)EY(1.21)
c-4006-SUPIII uptime is 20 minutes
System returned to ROM by reload
Running default software

cisco WS-C4006 (MPC8245) processor (revision 7) with 262144K bytes of memory.
Processor board ID FOX04183666
Last reset from Reload
32 Gigabit Ethernet/IEEE 802.3 interface(s)
467K bytes of nonvolatile configuration memory.

Configuration register is 0x2142 (will be 0x2102 at next reload)

c-4006-SUPIII#

```

قلمص تاذا تامولعم

- [رورملا ةملاك دادرتسا انثأة يسايقلا Break](#) حيتافم لسلست تاعومجم
- [رورملا ةملاك دادرتسا تاءارجا](#)
- [LAN](#) تالوحم تاجتنم معد
- [Cisco Systems](#) - تادنتس مل او ينقتلا معدلا

ةمچرتل هذه لوج

ةللأل تاي نقتل نم ةومچم مادختساب دن تسمل اذہ Cisco تچرت
ملاعلاء انءمچي فني مدختسمل معدى وتحم مي دقتل ةيرشبل او
امك ةقيقد نوك تنل ةللأل ةمچرت لصف أن ةظحال مچري. ةصاخل مهتبل ب
Cisco يلخت. فرتحم مچرت مامدقي يتل ةيفارتحال ةمچرتل عم لالحل وه
ىل إأمئاد ةوچرلاب ي صؤت وتامچرتل هذه ةقدنع اهتيل وئسم Cisco
Systems (رفوتم طبارل) ي لصلأل يزي لچن إل دن تسمل