

Catalyst 9600 Switch لوجم نيوكت

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عمدقملا

حاتفم 9600 ةزافح ةداملا setup نأ عارج ققحتلا و لولألا ليكشتلا ةقيثو اذه فصوي.

ةيساسألا تابلطتملا

تابلطتملا

ةيلال عيضاوملاب ةفرعم لكيدل نوكت نأب Cisco ي صوت:

تبيثتلا ةلدال اقفو وفرشملا و لكهلا بيكرت نم دكأت

- [لكهلا بيكرت ليلد](#)
- [فرشملا تبيثت ليلد](#)

عمدختسملا تانوكملا

ةغيص زاوجو ةيجمرب اذه يلع ةقيثو اذه يف ةمولعملا تساسأ:

- ةزهجالا: Catalyst 9600 Switch لوجملا
- جم انربلا: Cisco IOS® XE 16.12.3a

ةصاخ ةيلمعم ةئيبي يف ةدوجوملا ةزهجالا نم دنننسملا اذه يف ةدراولما تامولعملا عاشنإ مت تناك اذا. (يضا رتفا). حوسمم نيوكتب دنننسملا اذه يف عمدختسملا ةزهجالا عيجم تادب رما يال لمحتحملا ريثاتلل كمهف نم دكأتف، ليغشتلا دي قكتك بش

ةيساسأ تامولعم

steps ةثالث يف 9600 ةزافح ةدام تققودو ت لكش، قوف تدهم عيظتسي تنأ

اودعصا

- مكحتلا ةدحو ليل صوت

- ماظنن لايغش تب مق
 - مكحتللا ءدحو لئاسر رةب قارم
 - نيوكتللا راوح ع برم راوخ دي دحت
- نيوكتللا
- ءزهجالا ءرادا
 - فيضمالا مسا
 - ءعاس
 - نيوكتللا ظفح
- ءحصلا نم ققحتلا
- جماربالا ءمزحو جماربالا رادصا
 - كلذىل امو ءقائللا ماظننلا ءزهجا
 - ءرادالاب صاخاللا IP لاصتا
 - ماظننلا ءحص
 - تقولا



اودع صا

- USB و RJ45 مادختساب Catalyst 9600 مكحتللا ءدحو برت وي بمكللا لي صوت
 - ماظنن لايغش تب مق
 - مكحتللا ءدحو لاللا نم ءشاشلا لىل ع رىخا تامولعمو ماظننلا ءزهجا ءئيهت ءب قارم
- لي لوالا ليغش تاللا ءدب:

```

Initializing Hardware...
Initializing Hardware.....
System Bootstrap, Version 17.3.1r[FC2], RELEASE SOFTWARE (P)
Compiled 30-04-2020 12:00:00.00 by rel

Current ROMMON image : Primary Rommon Image

Last reset cause:LocalSoft
C9600-SUP-1 platform with 16777216 Kbytes of main memory

Preparing to autoboot. [Press Ctrl-C to interrupt] 0
boot: attempting to boot from [bootflash:packages.conf]
boot: reading file packages.conf
<truncated>
#####
<truncated>

Base Ethernet MAC Address      : 6c:b2:ae:4a:70:c0
Motherboard Assembly Number    : 4C57
Motherboard Serial Number      : FXS230103TN
Model Revision Number          : V02
Motherboard Revision Number    : 3
Model Number                   : C9606R
System Serial Number           : FXS2302Q2EP

```

ءدحو وي وديلا نيوكتللا ءضو لاللا ال راوخ لاللا دح. ماظننلا نيوكتللا راوح ع برم ىرت ىتحت رظتنا طيسبالا وي وديلا نيوكتللا لىل لولل، ئىاقلللا تيبتللا ءهاللا معن.

Would you like to enter the initial configuration dialog? [yes/no]: no
Would you like to terminate autoinstall? [yes]: yes

Press RETURN to get started

*Nov 5 15:40:26.909: %LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to down
*Nov 5 15:40:26.909: %LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to down

نيوكتالا

"enable" عضويف تقولا نم ةطقن يا يف `show running-config` رمألا مدختسأ: ةظحالم
اهنيوكت مت يتيقلا نم ققحتلل

ءانيملا تنكمت كتكبش نم ناووع عم ءانيم ةرادا تللكش

```
Switch#configure terminal
```

```
Enter configuration commands, one per line. End with CNTL/Z.
```

```
Switch(config)#interface gigabitEthernet 0/0
```

```
Switch(config-if)#ip address 10.122.186.8 255.255.255.240
```

```
Switch(config-if)#no shutdown
```

ناووع مدختسأ، ةرادالا ةكبشل ةيضارتفالا ةباوبلا ىل لوصولل تباث راسم نيوكتا مق
ةكبشلاب ةصاخلا ةباوبلا او IP

```
Switch(config)#ip route vrf Mgmt-vrf 10.122.157.250 255.255.255.255 10.122.186.1
```

ةملك نييعتو Telnet جم انرب ربع لوصولل ةيرهظالا ةيفرطالا ةدحولا، VTY طخ نيوكتا مق
كرايخا نم رورم

```
Switch(config)#line vty 0 4
```

```
Switch(config-line)#password cisco
```

```
Switch(config-line)#login
```

ىل لوصولل (ssh، telnet) لاثملا لىبس ىلع) تالوكتو ورتبلا عيمجب `input all` لقن حمسي
vty لمع تاسلج لالخ نم زاوجل

```
Switch(config-line)#transport input all
```

```
Switch(config-line)#exit
```

مكحتلا ةدحو ىل لوصولل مدختسما عضو رورم ةملك نيوكتا مق

```
Switch(config)#line console 0
```

```
Switch(config-line)#password cisco
```

```
Switch(config-line)#login
```

```
Switch(config-line)#exit
```

ةملك بولسأ `strong enable` تللكش

```
Switch(config)#enable secret cisco
```

ماظنلا ةعاس نييعت

```
Switch(config)#clock timezone utc +5 30
```

*Nov 6 04:34:58.910: %SYS-6-CLOCKUPDATE: System clock has been updated from 10:05:58 utc Fri Nov

6 2020 to 10:04:58 utc Fri Nov 6 2020, configured from console by console.
*Nov 6 04:35:59.634: %SYS-5-CONFIG_I: Configured from console by console

Switch#**clock set 04:30:00 6 Nov 2020**

*Nov 5 23:00:00.000: %SYS-6-CLOCKUPDATE: System clock has been updated from 10:06:19 utc Fri Nov 6 2020 to 04:30:00 utc Fri Nov 6 2020, configured from console by console.
Nov 5 23:00:00.000: %PKI-6-AUTHORITATIVE_CLOCK: The system clock has been set.

ماظن لل فيض الم س ن ي و ك ت ب مق

Switch(config)#**hostname Catalyst-9600**

start-up-config في ن آل ى تح ه ن ي و ك ت م ت ي ذ ل ن ي و ك ت ل ل ظ ف ح ا

Catalyst-9600#**write memory**

Building configuration...

[OK]

*Nov 5 16:11:46.061: %SYS-2-PRIVCFG_ENCRYPT: Successfully encrypted private config file

ة ح ص ل ل ن م ق ق ح ت ل ل ا

ى ل ا م و ماظن ل ل ا ل ي ص ا ف ت و ل ي غ ش ت ل ا ت ق و ظ ح ا ل م ث ، ماظن ل ل ا ل ع ج م ا ن ر ب ل ا ر ا د ص ا ن م ق ق ح ت ك ل ذ ك .

Catalyst-9600#**show version**

Cisco IOS XE Software, Version 16.12.03a

Cisco IOS Software [Gibraltar], Catalyst L3 Switch Software (CAT9K_IOSXE), Version 16.12.3a, RELEASE SOFTWARE (fc1)

Technical Support: <http://www.cisco.com/techsupport>

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Compiled Tue 28-Apr-20 09:37 by mcpre

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ROM: IOS-XE ROMMON

BOOTLDR: System Bootstrap, Version 17.3.1r[FC2], RELEASE SOFTWARE (P)

Catalyst-9600 uptime is 36 minutes

Uptime for this control processor is 37 minutes

System returned to ROM by Reload Command

System image file is "bootflash:packages.conf"

Last reload reason: Reload Command

This product contains cryptographic features and is subject to United States and local country laws governing import, export, transfer and use. Delivery of Cisco cryptographic products does not imply third-party authority to import, export, distribute or use encryption.

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A summary of U.S. laws governing Cisco cryptographic products may be found at:
<http://www.cisco.com/wwl/export/crypto/tool/stqrg.html>

If you require further assistance please contact us by sending email to export@cisco.com.

Technology Package License Information:

```
-----  
Technology-package           Technology-package  
Current                       Type                       Next reboot  
-----  
network-advantage   Smart License           network-advantage  
dna-advantage       Subscription Smart License   dna-advantage  
AIR License Level: AIR DNA Advantage  
Next reload AIR license Level: AIR DNA Advantage
```

Smart Licensing Status: UNREGISTERED/EVAL MODE

cisco C9606R (X86) processor (revision V00) with 1867991K/6147K bytes of memory.
Processor board ID FXS2302Q2EP
1 Virtual Ethernet interface
24 Forty/Hundred Gigabit Ethernet interfaces
48 TwentyFive Gigabit Ethernet interfaces
32768K bytes of non-volatile configuration memory.
16009160K bytes of physical memory.
11161600K bytes of Bootflash at bootflash:.
1638400K bytes of Crash Files at crashinfo:.
0K bytes of WebUI ODM Files at webui:.

Base Ethernet MAC Address : 6c:b2:ae:4a:70:c0
Motherboard Assembly Number : 4C57
Motherboard Serial Number : FXS230103TN
Model Revision Number : V02
Motherboard Revision Number : 3
Model Number : C9606R
System Serial Number : FXS2302Q2EP

Configuration register is 0x102

ةبثملا مزحلل نم ققحت.

Catalyst-9600#**show install summary**

[R0 R1] Installed Package(s) Information:
State (St): I - Inactive, U - Activated & Uncommitted,
C - Activated & Committed, D - Deactivated & Uncommitted

```
-----  
Type St  Filename/Version  
-----  
IMG C  16.12.3a.0.4  
-----
```

Auto abort timer: inactive

ب صاخال راسملا نم ققحت Management VRF.

Catalyst-9600#show post

Stored system POST messages:

Switch C9606R

Thu Nov 5 15:34:27 2020 POST: Module: 6 Mac Loopback Begin
Thu Nov 5 15:34:27 2020 POST: Module: 6 Mac Loopback: loopback Test: End, Status Passed
Thu Nov 5 15:34:27 2020 POST: Module: 1 Mac Loopback Begin
Thu Nov 5 15:34:27 2020 POST: Module: 1 Mac Loopback: loopback Test: End, Status Passed

Catalyst-9600#show diagnostic result module all

Current bootup diagnostic level: minimal

module 1: SerialNo : CAT2252L0PY

Overall Diagnostic Result for module 1 : PASS

Diagnostic level at card bootup: minimal

Test results: (. = Pass, F = Fail, U = Untested)

1) TestGoldPktLoopback:

Port 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

U U U U U U U U U U U U U U U U U U U U U U U U
Port 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48

U U U U U U U U U U U U U U U U U U U U U U U U

- 2) TestOBFL -----> U
- 3) TestThermal -----> .
- 4) TestPortTxMonitoring:

Port 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

U U U U U U U U . U . U U U U U U U U U U . U
Port 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48

U U U U U U U U U U U U U U U U U U U U U U U U

module 3: SerialNo : CAT2252L0SH

Overall Diagnostic Result for module 3 : PASS

Diagnostic level at card bootup: minimal

Test results: (. = Pass, F = Fail, U = Untested)

- 1) TestOBFL -----> U
- 2) TestFantray -----> .
- 3) TestThermal -----> .
- 4) TestScratchRegister -----> .

module 4: SerialNo : CAT2252L0SU

Overall Diagnostic Result for module 4 : PASS

Diagnostic level at card bootup: minimal

Test results: (. = Pass, F = Fail, U = Untested)

- 1) TestOBFL -----> U
- 2) TestFantray -----> U
- 3) TestThermal -----> .
- 4) TestScratchRegister -----> U

module 6: SerialNo : CAT2302L16G

Overall Diagnostic Result for module 6 : PASS

Diagnostic level at card bootup: minimal

Test results: (. = Pass, F = Fail, U = Untested)

1) TestGoldPktLoopback:

```

Port  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
-----
      U  U  U  U  U  U  U  U  U  U  U  U  U  U  U  U  U  U  U  U  U  U  U  U
Port 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48
-----
      U  U  U  U  U  U  U  U  U  U  U  U  U  U  U  U  U  U  U  U  U  U  U  U

```

- 2) TestOBFL -----> U
- 3) TestThermal -----> .
- 4) TestPortTxMonitoring:

```

Port  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
-----
      .  .  U  U  U  .  U  .  U  .  .  .  U  U  .  U  U  U  U  U  U  U  U  U
Port 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48
-----
      U  U  .  U  U  U  U  U  U  U  U  U  U  U  .  U  .  U  U  U  U  .  .  U

```

حیحص ل ك ش ب ة ع اس ل ل ن ی ع ت م ت ا ذ ا م ق ق ح ت

Catalyst-9600#show clock

*16:32:55.196 UTC Thu Nov 5 2020

اهت ح ص ن م و ة ت ب ث م ل ا ة ق ا ط ل ا ب د ی و ز ت ل ا ت ا د ح و ن م ق ق ح ت

Catalyst-9600#show power detail

Power					Fan States	
Supply	Model No	Type	Capacity	Status	1	2
PS1	C9600-PWR-2KWAC	ac	2000 W	active	good	good
PS4	C9600-PWR-2KWAC	ac	2000 W	active	good	good

PS Current Configuration Mode : none

PS Current Operating State : none

Power supplies currently active : 2

Power supplies currently available : 2

Power Summary (in Watts)	Used	Maximum Available
System Power	2800	3940
Total	2800	3940

Power Budget Mode : Dual Sup

Mod	Model No	Power State	Budget	Instantaneous	Peak	Out of Reset	In Reset
1	C9600-LC-24C	accepted	300	0	0	300	10
3	C9600-SUP-1	accepted	950	0	0	950	202
4	C9600-SUP-1	accepted	950	0	0	950	202
6	C9600-LC-48YL	accepted	300	0	0	300	10
FM1	C9606-FAN	accepted	300	--	--	300	--

Total allocated power: 2800

Total required power: 2800

قلمص تاذا تامولعم

- قيلصفت نيوكت تاراخي لعل لوصحلل [ماظنلا قرادا نيوكت ليلد](#) عابتا يجرى
- [Cisco Systems - تادنتملاو ينقتلا معدلا](#)

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