

دع ب تاناي ب ل ا ة داعت س ا NCS 6000 ذي فنت USB مادخت س ا نودب ثراوك ل ا

تايوت حمل ا

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ةمدق م ل ا

ل ش ف دع ب (NCS6K) 6000 زارط تاك ب ش ل ا ب راق ت ماظن ة داعت س ا ل ا ة قيرط دن ت س م ل ا اذه حضوي ص ارق ا ك رح م مادخت س ا ب دادر ت س ا ل ا ة يل م ع ب ل ط ت ت . USB ص ارق ا ك رح م مادخت س ا ل ا نود ة ي قرت ل ا ت قولا نم ريثك ل ا كل هت س ي و اري ب ك ا ي دحت ل ث م ي ام وهو ، زاهج ل ا ل ا ي دام ل ا ل و ص و ل ا USB .

دادرت س ا ل ا DHCP و TFTP م داخ ك ل م ع ي Linux زاهج دن ت س م ل ا اذه ي ف حضوم ل ا ارج ا ل ا مدخت س ي RP ة راد ا ل ت نرث ي ا ذ ف ن م رب ع NCS6K .

ةي س اس ا ل ا تابل ط م ل ا

تابل ط م ل ا

cisco Linux، TFTP، DHCP و Cisco XR CLI نم ةي س اس ا ل ا ة فر ع م تن ا ي ق ل ت ي ن ا ي ص و ي .

ةمدخت س م ل ا تانوك م ل ا

NCS6K ة ص ن م ي ل ع دن ت س م ل ا اذه ر ص ت ق ي .

ة ص ا خ ة ي ل م ع م ة ئ ي ب ي ف ة د و ج و م ل ا ة ز ه ج ا ل ا نم دن ت س م ل ا اذه ي ف ة درا و ل ا ت ا م و ل ع م ل ا ا ش ن ا م ت ت ن ا ك ا ذ ا . (ي ض ا ر ت ف ا) ح و س م م ن ي و ك ت ب دن ت س م ل ا اذه ي ف ة م د خ ت س م ل ا ة ز ه ج ا ل ا ع ي م ج ت ا د ب ر م ا ي ا ل ل م ت ح م ل ا ر ي ث ا ت ل ل ك م ه ف ن م د ك ا ت ف ، ة ر ش ا ب م ك ت ك ب ش .

ةوطخب ةوطخ ارج ا

1. ب ي و ل ا ي ل ع Cisco ع ق و م نم ب و ل ط م ل ا XR USB د ي ه م ت ف ل م ل ي ز ن ت ب م ق .

2. /tftpboot : ي ف ه ي ل ع ط غ ض ل ل ك ف ا و Linux م داخ ي ل ا ه ل ي ز ن ت م ت ي ذ ل ا ZIP ف ل م ل ي م ح ت ب م ق .

```
root@xxxxr:/tftpboot# unzip ncs6k-usb-boot-5.2.3.zip
```

```
Archive:  ncs6k-usb-boot-5.2.3.zip
```

```
  inflating: EFI/boot/bootx64.efi
```

```
  inflating: EFI/boot/grub.cfg
```

```
  inflating: boot/install-image.iso
```

3. رو ث ع ل ا ن ك م ي . NCS6K (RP) ه ي ج و ت ل ا ج ل ا ع م ة ر ا د ا ل ت نرث ي ا ذ ف ن م ل MAC ن ا و ن ع ن ع ش ح ب ا .


```
linux (loop)/boot/bzImage root=/dev/ram install=/dev/sda console=ttyS0,115200
prod=1 crashkernel=192M@0 bigphysarea=10M quiet pci=assign-busses noissu aer=off
pci=hpmemsize=0M,hpiosize=0M
echo "Loading initrd.."
initrd (loop)/boot/initrd.img signfile=/boot/signature.initrd.img
}
```

7. صصخي س، ةلالت ال PXE دي هم ةل و احم في Linux. مداخ يلع ةئيه التال ةي لم ة تلم تكا. يلع ة و م احم ال لصحت س اهدعب و NCS6K RP يلى 10.48.32.160 رادص ال DHCP لوكوت و رب ISO لي م احم و ائق لت لم ة ال في GROUP اءب، كل ذ دعب و TFTP م ادخت ساب .efi و .cfg. TFTP م ادخت ساب.

ضع ب رم ال قرغت سي س. اب يرق ت تي اب احم ISO 700 فلم م احم غ لبي ام ة داع: **ءظ احم**
ة لم ال ال ال... ة ب ش ال نم دي هم التال" ة لاسر ر ضرع دعب (قئاق د 10 ت ح) ت قول ا
طاش لل

```
Cisco BIOS version : SB.Panini.0014.00
BIOS Build Date : 07/10/2014 by lchinnad
System Memory Speed : 1600 MHz
Processor Type : Intel(R) Xeon(R) CPU E5-2448L @ 1.80GHz
```

Press F12 to goto Boot Manager..

```
Booting System Host OS..
Verifying Image for Secure Boot failed with status 15
```

System Host OS boot failed.

```
Booting Int Network 0 for IPv4 (4C-4E-35-B6-63-33)..
```

Start PXE over IPv4.

PXE-E18: Server response timeout.

```
Int Network 0 for IPv4 (4C-4E-35-B6-63-33) boot failed.
```

```
Booting Ext Network 0 for IPv4 (4C-4E-35-B6-63-33)..
```

Start PXE over IPv4.

Station IP address is 10.48.32.160

Server IP address is 10.48.32.93

NBP filename is bootx64.efi

Downloading NBP file...

Succeed to download NBP file.

```
GNU GRUB version 2.00
```

Press F2 to goto grub Menu..

```
Booting from network..
```

```
[ 6.338259] i8042: No controller found
```

```
Starting udev: [ OK ]
```

Actual changes:

```
large-receive-offload: off [requested on]
```

```
ntuple-filters: on
```

```
Setting hostname host: [ OK ]
```

```
Checking filesystems:[ OK ]
```

```
Remounting root filesystem in read-write mode: [ OK ]
```

```
Entering non-interactive startup
```

```
Bringing up loopback interface: [ OK ]
```

```
Starting system logger: [ OK ]
```

```
Starting kernel logger: [ OK ]
```

```
Starting kdump:[ OK ]
```

```
Starting system message bus: [ OK ]
```

```
Starting smartd: [ OK ]
```

```
Generating SSH1 RSA host key: [ OK ]
Generating SSH2 RSA host key: [ OK ]
Generating SSH2 DSA host key: [ OK ]
Starting sshd: [ OK ]
Starting xinetd: [ OK ]
Checking PCI block device /dev/sdb disk space
Thu Jun 25 14:07:13 UTC 2015: Detected /iso/host.iso
mount: block device /iso/host.iso is write-protected, mounting read-only
Thu Jun 25 14:07:13 UTC 2015: Mounted /iso/host.iso to /tmp/isomnt.iV1833
Thu Jun 25 14:07:13 UTC 2015: Found /tmp/isomnt.iV1833/rpm/ncs6k-sysadmin-hostos.all-5.2.3-Default.x86_64.rpm in host.iso
Thu Jun 25 14:07:13 UTC 2015: Installing /tmp/isomnt.iV1833/rpm/ncs6k-sysadmin-hostos.all-5.2.3-Default.x86_64.rpm
Preparing packages for installation...
ncs6k-sysadmin-hostos.all-5.2.3-Default.x86_64
hushd_static: no process killed
hushd restarted
Thu Jun 25 14:07:13 UTC 2015: Did not detect new pxe install script, keep going with old xrnginstall
Thu Jun 25 14:07:13 UTC 2015: Running in Data LV support model
/etc/rc3.d/S60xrnginstall: line 239: SIMULATION: readonly variable
Thu Jun 25 14:07:13 UTC 2015: Prepping System with calvados.iso
Thu Jun 25 14:07:13 UTC 2015: Installer will install image on sda
Thu Jun 25 14:07:13 UTC 2015: Running in LVM support model
Thu Jun 25 14:07:15 UTC 2015: Partition creation on /dev/sda took 1 seconds
Thu Jun 25 14:07:15 UTC 2015: File system creation on /dev/sda1 took 0 seconds
Thu Jun 25 14:07:15 UTC 2015: Install host image on /dev/sda1
Thu Jun 25 14:07:23 UTC 2015: Installing host image size of 183M took 8 seconds
Thu Jun 25 14:07:33 UTC 2015: File system creation on /dev/sda2 took 4 seconds
Thu Jun 25 14:08:38 UTC 2015: Copying XR iso to repository took 65 seconds
Partitioning PCI block device /dev/sdb
Added VLAN with VID == 513 to IF -:eth-pf1:-
Thu Jun 25 14:08:40 UTC 2015: Copying boot/install-image.iso from tftpserver 10.48.32.93
Thu Jun 25 14:16:58 UTC 2015: Copying Pxeboot files from tftpserver 10.48.32.93 took 498 seconds
Thu Jun 25 14:17:28 UTC 2015: File system creation on /dev/panini_vol_grp/calvados_lv0 took 5 seconds
Thu Jun 25 14:17:28 UTC 2015: Install sysadmin-vm image on /dev/panini_vol_grp/calvados_lv0
mount: block device /iso/ncs6k-sysadmin.iso is write-protected, mounting read-only
Thu Jun 25 14:17:35 UTC 2015: sysadmin-vm: RP based installation
Thu Jun 25 14:18:22 UTC 2015: Installing sysadmin-vm image size of 444M took 54 seconds
Install EFI on /dev/sda4
Thu Jun 25 14:18:24 UTC 2015: Install finished on sda
Resetting BIOS Boot Mode register ...
Automatic rebooting system after installation ...

Cisco BIOS version : SB.Panini.0014.00
BIOS Build Date : 07/10/2014 by lchinnad
System Memory Speed : 1600 MHz
Processor Type : Intel(R) Xeon(R) CPU E5-2448L @ 1.80GHz

Press F12 to goto Boot Manager..

Booting System Host OS..

GNU GRUB version 2.00
Press F2 to goto grub Menu..
Booting from Disk..
Loading Kernel..
Loading initrd..
Starting udev: [ OK ]
Setting hostname sysadmin-vm: [ OK ]
Checking filesystems:[ OK ]
Mount /dev/vdd at /misc/disk1
```

```
Entering non-interactive startup
Bringing up loopback interface: [ OK ]
Starting system logger: [ OK ]
Starting kernel logger: [ OK ]
Starting system message bus: [ OK ]
Starting smartd: [FAILED]
Generating SSH1 RSA host key: [ OK ]
Generating SSH2 RSA host key: [ OK ]
Generating SSH2 DSA host key: [ OK ]
Starting sshd: [ OK ]
Starting xinetd: [ OK ]
Starting crond: [ OK ]
Starting libvirtd daemon: [ OK ]
Starting NCS6k programs for RP on sysadmin-vm: [ OK ]
starting pm
sysadmin_startup: Starting Cisco Login Program on ttyS0
sysadmin initialized
sysadmin_startup: Starting Cisco Login Program on ttys1
sysadmin initialized
```

```
0_0_0Jun 25 14:19:32 : Send To Helper Failed - Msg : aaad[2600]: %MGBL-AAAD-7-DEBUG : AAA
Init successful
```

```
0_0_0Jun 25 14:19:33 : Send To Helper Failed - Msg : vm_manager[2628]: %INFRA-VM_MANAGER-4-
INFO : Info: VM Manager started. arguments -W
```

```
0_0_0Jun 25 14:19:34 : Send To Helper Failed - Msg : sdr_mgr[2619]: %SM-SDR_MANAGER-4-INFO
: Info: SDR Manager started.
```

```
SYSTEM IS NOT READY FOR LOGIN
```

```
!!!NO root-system username is configured. Need to configure root-system username!!!
```

```
--- Administrative User Dialog ---
```

```
Enter root-system Username: 0_0_0Jun 25 14:20:58 : Send To Helper Failed - Msg :
plx_fpd[2616]: %INFRA-FPD_Driver-1-UPGRADE_ALERT : Driver missing fpd obfl log function for
fpd PLX-8748, FPD init continues but debugability impacted
0/RP0/ADMIN0:Jun 25 14:20:58.410 : envmon[2609]: %PKT_INFRA-FM-4-FAULT_MINOR : ALARM_MINOR
:Unsupported power module detected :DECLARE :0/PT0-PM0:
0/RP0/ADMIN0:Jun 25 14:20:58.417 : envmon[2609]: %PKT_INFRA-FM-4-FAULT_MINOR : ALARM_MINOR
:Unsupported power module detected :DECLARE :0/PT0-PM1:
0/RP0/ADMIN0:Jun 25 14:20:58.418 : envmon[2609]: %PKT_INFRA-FM-4-FAULT_MINOR : ALARM_MINOR
:Unsupported power module detected :DECLARE :0/PT0-PM2:
0/RP0/ADMIN0:Jun 25 14:20:58.434 : envmon[2609]: %PKT_INFRA-FM-4-FAULT_MINOR : ALARM_MINOR
:Unsupported power module detected :DECLARE :0/PT3-PM0:
0/RP0/ADMIN0:Jun 25 14:20:58.445 : envmon[2609]: %PKT_INFRA-FM-4-FAULT_MINOR : ALARM_MINOR
:Unsupported power module detected :DECLARE :0/PT3-PM1:
0/RP0/ADMIN0:Jun 25 14:20:58.451 : envmon[2609]: %PKT_INFRA-FM-4-FAULT_MINOR : ALARM_MINOR
:Unsupported power module detected :DECLARE :0/PT3-PM2:
0/RP0/ADMIN0:Jun 25 14:20:58.517 : zen[2630]: %INFRA-FPD_Driver-1-UPGRADE_ALERT : Driver
missing fpd obfl log function for fpd CPU Complex FPGA, FPD init continues but debugability
impacted
```

```
Enter root-system Username: root
```

```
Enter secret:
```

```
Enter secret again:
```

```
Successfully created root-system user
```

System Admin Username: root

Password:

root connected from 127.0.0.1 using console on sysadmin-vm:0_RP0

sysadmin-vm:0_RP0# show platform

Thu Jun 25 14:21:33.150 UTC

Location	Card Type	HW State	SW State	Config State
0/1	NC6-60X10GE-M-S	POWERED_ON	SW_INACTIVE	NSHUT
0/7	NC6-10X100G-M-P	POWERED_ON	SW_INACTIVE	NSHUT
0/RP0	NC6-RP	OPERATIONAL	OPERATIONAL	NSHUT
0/RP1	NC6-RP	POWERED_ON	SW_INACTIVE	NSHUT
0/FC0	P-L-FC-S	POWERED_ON	N/A	NSHUT
0/FC1	P-L-FC-S	POWERED_ON	N/A	NSHUT
0/FC2	P-L-FC-S	POWERED_ON	N/A	NSHUT
0/FC3	P-L-FC-S	POWERED_ON	N/A	NSHUT
0/FC4	P-L-FC-S	POWERED_ON	N/A	NSHUT
0/FC5	P-L-FC-S	POWERED_ON	N/A	NSHUT
0/CI0	NCS-CRFT=	OPERATIONAL	N/A	NSHUT
0/FT0	NC6-FANTRAY	OPERATIONAL	N/A	NSHUT
0/FT1	NC6-FANTRAY	OPERATIONAL	N/A	NSHUT
0/PT0	NCS-AC-PWRTRAY	OPERATIONAL	N/A	NSHUT
0/PT1	NCS-AC-PWRTRAY	OPERATIONAL	N/A	NSHUT
0/PT2	NCS-AC-PWRTRAY	OPERATIONAL	N/A	NSHUT
0/PT3	NCS-AC-PWRTRAY	OPERATIONAL	N/A	NSHUT
0/PT4	NCS-AC-PWRTRAY	OPERATIONAL	N/A	NSHUT
0/PT5	NCS-AC-PWRTRAY	OPERATIONAL	N/A	NSHUT

ديهمتلا يف اضيأ أدبتس rp و طخال تاقاطب ةيقب ، تقولا ضعب دعب

ةمچرتل هذه ل و ح

ةلأل تاي نقتل ن م ة و مچ م ادخت ساب دن تسم ل ا ذه Cisco ت مچرت
م ل ا ل اء ان ا ع مچ ي ف ن م دخت س م ل ل م عد و ت ح م م ي دقت ل ة ي ر ش ب ل و
امك ة ق ي ق د ن و ك ت ن ل ة ي ل ا ة مچرت ل ض ف ا ن ا ة ظ ح ال م ي ج ر ي . ة ص ا خ ل ا م ه ت غ ل ب
Cisco ي ل خ ت . ف ر ت ح م مچرت م ا ه م د ق ي ي ت ل ا ة ي ف ا ر ت ح ال ا ة مچرت ل ا ع م ل ا ح ل ا و ه
ي ل ا م اء ا د ع و ج ر ل ا ب ي ص و ت و ت ا مچرت ل ا هذه ة ق د ن ع ا ه ت ي ل و ئ س م Cisco
Systems (ر ف و ت م ط ب ا ر ل ا) ي ل ص ا ل ا ي ز ي ل ج ن ا ل ا دن ت س م ل ا