

Exécutez la Reprise sur sinistre NCS 6000 sans utiliser l'USB

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Introduction

Ce document décrit une manière de récupérer le système 6000 (NCS6K) de convergence de réseau après que mise à jour défectueuse sans utiliser un lecteur USB. La reprise avec le lecteur USB exige l'accès physique au périphérique qui le plus souvent peut être un défi et coûteux en temps.

La procédure décrite dans ce document utiliserait une machine Linux agissant en tant que TFTP et serveur DHCP pour récupérer le NCS6K par l'intermédiaire du port Ethernet de Gestion RP.

Conditions préalables

Conditions requises

Cisco recommande que vous ayez la connaissance de base du Linux, du TFTP, du DHCP et du Cisco XR CLI.

[Composants utilisés](#)

Ce document est limité à la plate-forme NCS6K.

Les informations contenues dans ce document ont été créées à partir des périphériques d'un environnement de laboratoire spécifique. Tous les périphériques utilisés dans ce document ont démarré avec une configuration effacée (par défaut). Si votre réseau est opérationnel, assurez-vous que vous comprenez l'effet potentiel de toute commande.

Procédure pas à pas

1. Téléchargez le fichier requis de démarrage XR USB du site Web Cisco.
2. Téléchargez le fichier zip téléchargé au serveur Linux et défaites la fermeture éclair de lui dans /tftpboot :

```
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. Trouvez le MAC address du port Ethernet de Gestion du processeur d'artère NCS6K (RP). Il peut être trouvé dans les logs de console :

```
Press F12 to go to 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)..
```

4. Ajoutez le suivant au fichier dhcpd.conf. Ceci allouera une adresse IP statique au port Ethernet de mgmt RP en amorçant (par exemple : 10.48.32.160) :

```
root@xxrx:/tftpboot/0A3020A0# cat /etc/dhcp/dhcpd.conf
```

```
allow bootp;
allow booting;
```

```
subnet 10.48.32.0 netmask 255.255.255.0 {

    option routers 10.48.32.1;
    next-server 10.48.32.93;
    host pani0-rp {
        hardware ethernet 4c:4e:35:b6:63:33;
        fixed-address 10.48.32.160;
        filename "EFI/boot/bootx64.efi" ;
    }
}
```

Note: 10.48.32.93 est l'adresse TFTP et de serveur DHCP.

5. Tirez une copie de grub.cfg (fichier généré dans étape 2). Nommez le fichier après que l'adresse IP NCS6K obtenue du DHCP :

```
root@xxrx:/tftpboot# cp /tftpboot/EFI/boot/grub.cfg /tftpboot/10.48.32.160.cfg
```

6. Éditez le fichier généré ci-dessus pour s'assurer que l'OIN est sélectionnée du réseau (enlevez la conduite) :

```
root@xxrx:/tftpboot# diff /tftpboot/EFI/boot/grub.cfg /tftpboot/10.48.32.160.cfg
11,12c11,12
```

```
<         echo "Booting from USB.."
<         loopback loop /boot/install-image.iso
```

```
---
```

```
>         echo "Booting from network.."
>         loopback loop boot/install-image.iso
```

Pour 5.2.3, il regarderait n'importe quoi de pareil :

```
root@xxrx:/tftpboot# cat /tftpboot/10.48.32.160.cfg
set default=0
```

```
serial --unit=0 --speed=115200
```

```
terminal_input console
terminal_output serial
```

```
set timeout=2
```

```

menuentry "System Install OS" {
    echo "Booting from network..."
    loopback loop boot/install-image.iso
    root=loop
    echo "Loading Kernel.."
    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. La configuration sur le serveur Linux est complète. À la prochaine tentative de démarrage PXE, le DHCP allouera 10.48.32.160 au NCS6K RP. Il obtiendra alors le ver .efi et .cfg utilisant le TFTP. Après ceci, le VER commencerait automatiquement et chargerait l'OIN utilisant le TFTP.

Note: Le fichier ISO est normalement autour de 700Mb. Cela prendra un certain temps (jusqu'à 10 minutes) après « avoir amorcé du réseau. » le message est affiché. Terminez-vous les logs de l'activité :

```

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

Après une certaine heure, d'autres RP et linecards commenceront également l'initialisation.