

Bootflash del Troubleshooting y recuperación de la imagen del sistema para CGOS CGR 1000

Contenido

[Introducción](#)

[Antecedentes](#)

[prerrequisitos](#)

[Requisitos](#)

[Componentes Utilizados](#)

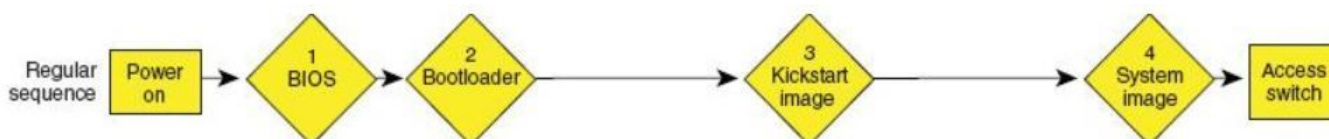
[Pasos de recuperación](#)

Introducción

Este documento describe los pasos del troubleshoot para recuperar el bootflash y la imagen del sistema en CGR 1000.

Antecedentes

Memoria de la placa de Cisco Secure Digital (SD) del uso CGR1000 a salvado kickstart las imágenes, las imágenes del sistema, las configuraciones, el etc. En las raras ocasiones, el indicador luminoso LED amarillo de la placa muestra gravedad menor SD consigue corrompido. Como consecuencia, la imagen del kickstart y/o la imagen del sistema consigue corrompidas. Esto evita que el CGR inicie para arriba. La secuencia para el bootup se delinea en la figura dada. El procedimiento delinea en este artículo es restablecer el CGR de un estado corrompido de memoria de la placa SD.



Prerrequisitos

1. Servidor del Trivial File Transfer Protocol (TFTP) instalado en PC local
2. Ponga al servidor TFTP para tener la imagen del kickstart y la imagen del sistema

Requisitos

Cisco recomienda que tenga conocimiento sobre estos temas:

1. Cable de la consola

2. CAT5

3. La imagen del kickstart y las imágenes del sistema

Componentes Utilizados

Este documento se restringe solamente a la versión CGOS que se ejecuta en CGR 1120 y CGR1240.

La información que contiene este documento se creó a partir de los dispositivos en un ambiente de laboratorio específico. Todos los dispositivos que se utilizan en este documento se pusieron en funcionamiento con una configuración verificada (predeterminada). Si la red está funcionando, asegúrese de haber comprendido el impacto que puede tener cualquier comando.

Pasos de recuperación

1. Cable de la consola de la configuración usando el putty.

2. Conecte el cable CAT5 PC local del NIC con el ETH 2/2 CGR. Ésta es la única interfaz que trabaja a la hora del proceso de recuperación.

3. Ponga PC local el NIC para estar en la misma subred como el CGR.

Por ejemplo; El PC NIC es subred 255.255.255.0 de 192.0.2.1.

Para el CGR sea subred 255.255.255.0 de 192.0.2.2.

4. En la sesión PuTTY, usted ve:

```
"loader>"
```

```
IOFPGA @ 0xd0000000 version=0x30020700, datecode=0xc080d17 CPLD version 0x14  
Reset Reason = 0(0)  
Scratch pad test passed !!!
```

```
BIOS Version: Build # 12 - Wed 06/27/2012  
CGR Loader Version: 1.00.01
```

```
Filesystem type is ext2fs, partition type 0x83  
Filesystem type is ext2fs, partition type 0x83
```

```
GNU GRUB version 0.97
```

```
CGR Loader Version 1.00.01
```

```
loader>
```

5. Ponga la dirección IP de ETH2/2 con el comando "fijan el IP".

```
set ip 192.0.2.2 255.255.255.0
```

```
Correct - ip addr is 192.0.2.2, mask is 255.255.255.0
Found Intel IOH GBE [2:0.1] at 0xe020, ROM address 0x0000
Probing...[Intel IOH GBE]
MAC address 78:da:6e:8:ad:e1
External PHY link UP @ 1000/full
Address: 192.0.2.2
Netmask: 255.255.255.0
Server: 0.0.0.0
Gateway: 0.0.0.0
```

```
loader>
```

6. Ponga a la dirección del gateway para ser PC local el NIC con el comando “gw fijado”.

```
set gw 192.0.2.1
```

```
Correct gateway addr 192.0.2.1
Address: 192.0.2.2
Netmask: 255.255.255.0
Server: 0.0.0.0
Gateway: 192.0.2.1
```

7. Inicie la imagen del kickstart del servidor local de tftp con el comando “inicio tftp://”.

```
loader> boot tftp://192.0.2.1/cgr1000-uk9-kickstart.5.2.1.CG4.3.SPA.bin      ??????
Address: 192.0.2.2
Netmask: 255.255.255.0
Server: 192.0.2.1
Gateway: 192.0.2.1
  Filesystem type is tftp, using whole disk
Booting: /cgr1000-uk9-kickstart.5.2.1.CG4.3.SPA.bin console=ttyS0,9600n8nn quiet loader_ver="1.00.01"....
.....
.....Kickstart image verification Successful
Image verification OK

INIT: Checking all filesystems ..... done.
Warning: switch is starting up with default configuration
Creating boot config file...
/etc/rc.d/rcS.d/S26check-flash: line 528: /mnt/bootloader/boot/grub/menu.lst.local: No such file
or directory
cp: cannot stat `/mnt/cfg/0/boot/grub/menu.lst.local': No such file or directory
WARNING: image sync is going to be disabled after a loader netboot
Loading system software
INIT: Sending processes the TERM signal?[H?[J
INIT: Sending processes the TERM signal
INIT: Sending processes the
```

```
KILL signal
```

8. Una vez que la imagen arranca, usted verá una salida que sea similar a esta salida.

```
Router(boot)# ?
Exec commands:
clear      Reset functions
config     Enter configuration mode
copy       Copy from one file to another
delete     Delete a file or directory
dir        Directory listing for files
```

```

exit      Exit from the EXEC
find      Find a file below the current directory
format    Format disks
init      Initialize internal disk
load      Load system image
mkdir     Create new directory
move      Move files
no        Disable debugging functions
pwd       View current directory
reload    Reboot this supervisor module
rmdir     Remove existing directory
show      Show running system information
sleep     Sleep for the specified number of seconds
ssh       SSH to another system
tail      Display the last part of a file
telnet    Telnet to another system

```

9. Formate el indicador luminoso LED amarillo de la placa muestra gravedad menor corrompido SD con format bootflash del comando el ":".

This command is going to erase the contents of your bootflash:.

Do you want to continue? (y/n) [n] y

```

Formatting bootflash:
Formatting started at:  Fri Feb 20 23:56:00 UTC 2015
mke2fs 1.35 (28-Feb-2004)
Formatting finished at:  Fri Feb 20 23:56:52 UTC 2015
Formatting completed

```

10. Funcione con el sistema del init (paso de la opción: este los formatos del comando el indicador luminoso LED amarillo de la placa muestra gravedad menor SD y limpian hacia fuera todo).

```
Router(boot)# init system
```

~~This command is going to erase your startup config, licenses as well as the contents of your bootflash:.~~

~~Do you want to continue? (y/n) [n] y~~Initializing the system

~~mount: /dev/mmcblk0p4 already mounted or /bootflash busy~~

~~mount: according to mtab, /dev/mmcblk0p4 is already mounted on /bootflash~~

~~ERROR: cannot mount filesystem~~

~~ep: omitting directory `/bootflash/`~~

~~Partitioning failed~~

11. Ponga la interfaz de administración (esto se requiere para copiar el kickstart y la imagen del sistema en el bootflash).

```

Router(boot)# configure terminal
Router(boot)(config)# interface mgmt0
Router(boot)(config-if)# ip address 192.0.2.2 255.255.255.0
Router(boot)(config-if)# no shut

```

12. Copie el kickstart y la imagen del sistema en el bootflash.

```

Router(boot)# copy tftp://192.0.2.1/cgr1000-uk9-kickstart.5.2.1.CG4.3.SPA.bin bootflash:
Trying to connect to tftp server.....
Connection to server Established. Copying Started.....

```

```

TFTP get operation was successful
Copy complete, now saving to disk (please wait)...

```

```
Router(boot)# copy tftp://192.0.2.1/cgr1000-uk9.5.2.1.CG4.3.SPA.bin bootflash:
Trying to connect to tftp server.....
Connection to server Established. Copying Started.....
```

```
TFTP get operation was successful
Copy complete, now saving to disk (please wait)...
```

13. Verifique que el kickstart y la imagen del sistema esté en el CGR con el "dir".

```
Router(boot)#dir
 29167616    Feb 21 00:39:59 2015  cgr1000-uk9-kickstart.5.2.1.CG4.3.SPA.bin
143332283    Feb 21 00:42:06 2015  cgr1000-uk9.5.2.1.CG4.3.SPA.bin
    372      Feb 23 17:55:52 2015  fpga.log
    1905     Feb 23 18:39:54 2015  mts.log
```

```
Usage for bootflash://
691462144 bytes used
8859394048 bytes free
9550856192 bytes total
```

14. Inicie la imagen del sistema con "el comando del bootflash de la carga".

```
Router(boot)# load bootflash:cgr1000-uk9.5.2.1.CG4.3.SPA.bin
```

```
Loading system software
Uncompressing bootflash:/cgr1000-uk9.5.2.1.CG4.3.SPA.bin.....done. (in 37 seconds)
Loading plugin 0: core_plugin...
```

```
INIT: Switching to runlevel: 3
INIT: Sending processes the TERM signal
```

```
Router(boot)#
```

```
INIT:
```

```
System is coming up ... Please wait ...
System is coming up ... Please wait ...
System is coming up ... Please wait ...
System is coming up ... Please wait ...
System is coming up ... Please wait ...
System is coming up ... Please wait ...
System is coming up ... Please wait ...
System is coming up ... Please wait ...
System is coming up ... Please wait ...
System is coming up ... Please wait ...
System is coming up ... Please wait ...
System is coming up ... Please wait ...
```

```
2015 Feb 21 00:47:56  %$ VDC-1  %$ %COPP-2-COPP_NO_POLICY: Control-plane is unprotected.System is
coming up ... Please wait ...
```

```
2015 Feb 21 00:47:58  %$ VDC-1  %$ %VDC_MGR-2-VDC_ONLINE: vdc 1 has come online 2015 Feb 21
```

```
00:47:58 Router %$ VDC-1  %$ %PLATFORM-2-
```

```
INPUT_POWER_SOURCE_TRANSITION: Three Phase and DC Input Status Alert:  L1 Phase ON, L2 Phase
OFF, L3 Phase OFF, DC Input Absent
```

15. Una vez que el CGR inicia para arriba en la imagen del sistema, usted necesita instalar el kickstart y la imagen del sistema con "instala todo el bootflash: bootflash del sistema del <kickstart-image>: image> del <system>".

```
cgr1120# install all kickstart bootflash:cgr1000-uk9-kickstart.5.2.1.CG4.3.SPA.bin system
bootflash:cgr1000-uk9.5.2.1.CG4.3.SPA.bin
```

```
Verifying image bootflash:/cgr1000-uk9-kickstart.5.2.1.CG4.3.SPA.bin for boot variable
"kickstart".
```

```
-- SUCCESS
```

Verifying image bootflash:/cgr1000-uk9.5.2.1.CG4.3.SPA.bin for boot variable "system".

-- SUCCESS

Verifying image type.

-- SUCCESS

Extracting "system" version from image bootflash:/cgr1000-uk9.5.2.1.CG4.3.SPA.bin.

-- SUCCESS

Extracting "kickstart" version from image bootflash:/cgr1000-uk9-kickstart.5.2.1.CG4.3.SPA.bin.

-- SUCCESS

Extracting "bios" version from image bootflash:/cgr1000-uk9.5.2.1.CG4.3.SPA.bin.

-- SUCCESS

Checking for Battery Power Mode.

-- SUCCESS

Checking for Module Power Status.

-- SUCCESS

Checking for WPAN upgrade compatibility.

-- SUCCESS

Performing module support checks.

-- SUCCESS

Notifying services about system upgrade.

-- SUCCESS

Compatibility check is done:

Module	bootable	Impact	Install-type	Reason
1	yes	disruptive	reset	Hitless upgrade is not supported

Images will be upgraded according to following table:

Module	Image	Running-Version(pri:alt)	New-Version	Upg-Required
1	system	5.2(1)CG4(3)	5.2(1)CG4(3)	no
1	kickstart	5.2(1)CG4(3)	5.2(1)CG4(3)	no
1	bios	v16.1.0(10/15/2013):V12.1.0(06/27/2012)	v16.1.0(10/15/2013)	no
1	fpga	2.07.00	2.07.00	no

Switch will be reloaded for disruptive upgrade.

Do you want to continue with the installation (y/n)? [n] y