Factory Reset of the ESM on CGR 2010

Contents

Introduction Prerequisites Requirements Components Used Problem Solution Factory Reset Recover an ESM with a Corrupt Software Image Password Recovery

Introduction

This document describes how to perform a factory reset or password recovery of the Ethernet Switch Module (ESM) on Cisco Connected Grid Router 2010 (CGR 2010). This procedure can also be used to recover an ESM module with a corrupt software image.

Contributed by Sumedha Phatak and Duy Nguyen, Cisco TAC Engineers.

Prerequisites

Requirements

There are no specific requirements for this document.

Components Used

The information in this document is based on these software and hardware versions:

- ESM for Clsco2000
- CGR 2010

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Problem

To perform a factory reset, password recovery of the ESM module or recover an ESM module with a corrupt software image on the CGR 2010.

Note: A direct connection to the CGR 2010 via console is required for this procedure to work.

Solution

Step 1. Connect to the CGR 2010 directly via console.

Step 2. Issue the command service-module gix/x/x reload to reload the ESM:

service-module gi0/0/0 reload

Step 3. As the ESM module is booting, use a pin to press the Express Setup (ES) button on the ESM module to break the boot sequence.

Step 4. Enter the ESM by issuing service-module gix/x/x session.

Step 5. Once in the switch: prompt, initialize flash: by issuing flash_init. After Step 5., follow the appropriate sections.

Factory Reset

Step 6. Delete the config.text and vlan.dat file.

switch: delete flash:config.text
switch: delete flash:vlan.dat
Step 7. Load the system image and issue the command boot flash:<image-name>.

Recover an ESM with a Corrupt Software Image

Step 8. A new image can be copied onto the ESM with x-modem. From the ESM switch: prompt, press enter several times to clear the line.

Step 9. Press **Control + Shift + 6 + X** to go back into the CGR 2010. Clear the ESM session for xmodem to transfer successfully.

service-module gigabitEthernet 0/0/0 session clear Step 10. Once in the CGR, use the **copy** command copy **flash:<file from CGR2010> xmodem:** to copy the new ESM image to xmodem.

```
cgr2010-ast03-lab#copy flash:test1 xmodem:test2
**** WARNING ****
x/ymodem is a slow transfer protocol limited to the current speed
settings of the auxiliary/console ports. The use of the auxiliary
port for this download is strongly recommended.
During the course of the download no exec input/output will be
available.
____ ****** ____
Proceed? [confirm]
Destination filename [test2]?
Service Module slot number? [1]: 0
Service Module interface number? [0]:
1k buffer? [confirm]
Max Retry Count [10]: 2
Xmodem send on slot 0 interface 0. Please be sure there is enough space on receiving side.
Continue? [confirm]
Ready to send file.....C!!!
3072 bytes copied in 24.596 secs (125 bytes/sec)
```

Step 11. After the ESM image is copied to **xmodem:** successfully, log in to the ESM module.

service-module gigabitEthernet 0/0/0 session

Step 12. At the switch: prompt on the ESM, use the **boot** command to load the appropriate image.

switch: boot flash: grwicdes-ipservicesk9-mz.152-5.E1.bin Loading flash:grwicdes-ipservicesk9-mz.152-****** ***** ***** ****** ***** ***** ****** ***** ****** ***** ***** ***** File flash:grwicdes-ipservicesk9-mz.152-5.E1.bin uncompressed and installed, entry point: 0x1000000 executing...

Password Recovery

Step 13. Issue dir flash: command.

Switch#dir flash: Directory of flash:/

2 -rwx 3401 Jan 1 1970 00:08:20 +00:00 config.text.back
3 -rwx 24872960 Jan 1 1970 00:57:43 +00:00 grwicdes-ipservicesk9-mz.152-5.E1.bin
4 -rwx 3423 Jan 1 1970 00:27:29 +00:00 config.text.backup

Step 14. Type rename flash:config.text flash:config.old to rename the configuration file.

switch: rename flash:config.text flash:config.old
Step 15. Issue the boot command.

**** ****** ****** ****** ***** ***** ****** ****** ****** ****** ****** #################### File flash:/grwicdes-ipservicesk9-mz.152-5.E1.bin uncompressed and installed, entry point: 0x1000000 executing ...

Step 16. Enter **n** at the prompt to abort the initial configuration dialogue.

Switch>en Switch# Step 18.

Type **rename flash:config.old flash:config.text** to rename the configuration file with its original name.

Switch#rename flash:config.old flash:config.text Step 19. Copy the configuration file into memory.

Step 20. Overwrite the current passwords.

Step 21. Copy current config with new passwords to startup-config.

switch_austin#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]