

升級用於Cisco 6015/6130/6160/6260 NI-2 DSLAM的Cisco IOS軟體

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簡介

本文檔包含升級Cisco NI-2 DSLAM的逐步過程。必須在TCP/IP就緒工作站上安裝TFTP伺服器或遠端複製協定(RCP)伺服器應用程式。安裝應用程式後，必須執行最低級別的配置。首先，必須將TFTP應用程式配置為作為TFTP伺服器運行，而不是TFTP客戶端。其次，必須指定出站檔案目錄。這是Cisco IOS[®]軟體映像的儲存目錄。大多數TFTP應用程式都提供設定常式來協助完成這些配置任務。

開始之前

慣例

如需文件慣例的詳細資訊，請參閱[思科技術提示慣例](#)。

必要條件

本文件沒有特定先決條件。

採用元件

本文件所述內容不限於特定軟體和硬體版本。

升級Cisco IOS軟體映像

使用以下步驟升級Cisco IOS軟體映像。

1. 在TFTP伺服器的出站目錄中安裝新的Cisco IOS軟體映像。TFTP伺服器在此目錄中查詢DSLAM的Cisco IOS軟體映像。確保您要複製到快閃記憶體的映像位於此目錄中。每個映像的

記憶體要求也位於TFTP伺服器的出站目錄中。使用**show version**命令驗證是否有足夠的記憶體。

```
DSLAM#show version
Cisco Internetwork Operating System Software
IOS (tm) NI2 Software (NI2-DSL-M), Version 12.1(5)DA, EARLY DEPLOYMENT RELEASE SOFTWARE
(fc2)
Copyright (c) 1986-2000 by cisco Systems, Inc.
Compiled Thu 07-Dec-00 19:27 by pnicosia
Image text-base: 0x800082C0, data-base: 0x811EA000
ROM: System Bootstrap, Version 12.0(5)DA, EARLY DEPLOYMENT RELEASE SOFTWARE (fc1)
BOOTFLASH: NI2 Software (NI2-DBOOT-M), Version 12.1(3)DA, EARLY DEPLOYMENT RELEASE SOFTWARE
(fc1)
6130A uptime is 1 day, 18 hours, 19 minutes
System returned to ROM by power-on
System restarted at 16:11:23 PST Wed Feb 14 2001
System image file is "flash:ni2-dsl-mz.121-5.DA.bin"
cisco 6130 (NI2) processor with 60416K/5120K bytes of memory.
RC64475 CPU at 100Mhz, Implementation 48, Rev 0.0
Bridging software.
1 Ethernet/IEEE 802.3 interface(s)
4 ATM network interface(s)
522232 bytes of non-volatile configuration memory.
4096K bytes of Boot Flash (Sector size 256K).
16384K bytes of Flash internal SIMM (Sector size 256K).
Configuration register is 0x2102
```

2. 建立到DSLAM的控制檯會話。這可以通過直接控制檯連線或虛擬Telnet連線完成。建議使用直接控制檯連線，因為在軟體安裝的重新啟動階段會丟失Telnet連線（請參閱步驟9）。控制檯連線使用卷線電纜（黑色或藍色扁平電纜）建立，並將DSLAM的控制檯埠連線到PC的COM埠。

3. 在PC上啟動HyperTerminal，然後使用以下設定：9600位元/秒8個資料庫0奇偶校驗位1停止位無流量控制

4. 檢驗TFTP伺服器是否與DSLAM具有IP連線。TFTP伺服器必須具有與DSLAM的網路連線，並且必須能夠ping用於TFTP軟體升級的DSLAM的IP地址。要達到此目的，DSLAM介面和TFTP伺服器必須具備：OR範圍內的IP地址；已配置預設網關。要驗證，請檢查TFTP伺服器的IP地址。**注意：**驗證與TFTP伺服器的網路連線後，在DSLAM上發出**write memory**命令，將所有更改寫入記憶體。

```
DSLAM#write memory
Building configuration...
[OK]
DSLAM#
```

5. 驗證bootflash映像是ni2-dboot-mz.121-5.da1還是ni2-dboot-mz.121-4.da。如果是，請轉至步驟14。如果不是，請轉至步驟6，在bootflash中騰出空間。

```
DSLAM#dir bootflash:
Directory of bootflash:/

1  -rw-      3361208   Jan 01 2000 00:05:11  ni2-dboot-mz.121-2.DA
```

```
3801088 bytes total (439752 bytes free)
```

6. 通過刪除當前啟動映像的名稱，在bootflash中騰出空間。

```
DSLAM#delete bootflash:ni2-dboot-mz.121-2.DA.bin
Delete filename [ni2-dboot-mz.121-2.DA.bin]?
Delete bootflash:ni2-dboot-mz.121-2.DA.bin? [confirm]
```

7. 使用**squeeze bootflash**命令恢復bootflash中的可用空間。

```
DSLAM#squeeze bootflash
All deleted files will be removed. Continue? [confirm]
Squeeze operation may take a while. Continue? [confirm]
Squeeze of bootflash complete
```

8. 將開機映像複製到bootflash。

```

DSLAM#copy tftp://171.69.89.140/ni2-dboot-mz.121-5.DA1.bin bootflash:
Destination filename [ni2-dboot-mz.121-5.DA1.bin]?
Accessing tftp://171.69.89.140/ni2-dboot-mz.121-5.DA1.bin...
Loading ni2-dboot-mz.121-5.DA1.bin from 171.69.89.140 (via Ethernet0/0): !!!!!!!!!
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
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!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
[OK - 3405392/6810624 bytes]

```

3405392 bytes copied in 57.676 secs (59743 bytes/sec)

9. 進入全域性配置模式並將配置暫存器設定為0x0000，以便NI-2在ROM監控器(ROMmon)模式下重新啟動。

```

DSLAM#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
DSLAM(config)#config-register 0x0
DSLAM(config)#exit

```

10. 儲存運行配置並重置系統。

```

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

```

```

DSLAM#reload
Proceed with reload? [confirm]

```

```

*Jan 10 02:11:43.397: %SYS-5-RELOAD: Reload requested
System Bootstrap, Version 12.0(5)DA1, EARLY DEPLOYMENT RELEASE SOFTWARE (fc1)
Copyright (c) 1999 by cisco Systems, Inc.
NI2 platform with 65536 Kbytes of main memory

```

11. 如果您在輸入set命令後看到BOOTLDR，則bootflash中的映像已用作載入程式；轉到步驟13。否則，轉到步驟12，並輸入命令強制系統使用ni2-dboot-mz.121-5.bin作為載入程式。

```
rommon 1 > set
```

12. 使用unset BOOTLDR刪除變數並同步以儲存ROMmon的狀態，然後重新啟動。NI-2啟動時，會使用ni2-dboot-mz.121-5da.bin作為啟動程式。

```
rommon 2 > unset BOOTLDR
```

```
rommon 3 > sync
```

13. 將配置暫存器設回0x2102並重置系統。

```
rommon 4 > confreg 0x2102
rommon 5 > reset
```

14. 顯示以ni2 — 開頭的快閃記憶體檔案的名稱，並在步驟15中將其用作檔名。

```

DSLAM#dir flash:
Directory of flash:/

 1  -rw-       9447084   Jan 01 2000 00:13:03  ni2-dsl-mz.121-5.DA1.bin

```

15990784 bytes total (6543572 bytes free)

15. 刪除步驟14中找到的快閃記憶體檔名。重複步驟14和步驟15，直到快閃記憶體中的所有檔案都已被刪除。

```
DSLAM#delete flash:ni2-dsl-mz.121-5.DA1.bin
```


