

如何將NAM升級到3.x版

目錄

[簡介](#)

[必要條件](#)

[需求](#)

[採用元件](#)

[慣例](#)

[將NAM軟體升級到版本3.x](#)

[工作](#)

[逐步說明](#)

[驗證](#)

[疑難排解](#)

[相關資訊](#)

簡介

本文提供如何將網路分析模組(NAM)軟體升級為版本3.x的逐步程式。

必要條件

需求

嘗試此組態之前，請確保符合以下要求：

- 熟悉檔案傳輸通訊協定(FTP)
- 通過命令列熟悉Catalyst交換機管理

採用元件

本文中的資訊係根據以下軟體和硬體版本：

- X6380 (原始NAM)
- NAM 3.0版軟體
- NAM-1和NAM-2硬體裝置
- 執行CatOS 7.3.1的Catalyst 6505

本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除 (預設) 的組態來啟動。如果您的網路正在作用，請確保您已瞭解任何指令可能造成的影響。

慣例

如需文件慣例的詳細資訊，請參閱[思科技術提示慣例](#)。

將NAM軟體升級到版本3.x

工作

本節提供將NAM軟體升級到版本3.x的資訊。

逐步說明

完成以下步驟即可升級軟體：

1. 下載檔案：原始NAM — 請參閱[適用於Cat 6500的Software Download-NAM\(Prod.代碼：WS-X6380-NAM\)](#)(僅限註冊客戶)並獲取c6nam.3-1-1.bin.gz文件。NAM1/NAM2 — 請參閱[適用於Cat 6500的Software Download-NAM\(Prod.代碼：WS-SVC-NAMx\)](#)(僅限註冊客戶)並獲取c6svc-nam.3-1-1.bin.gz文件。
2. 將該檔案放在要使用的FTP伺服器上帳戶的根目錄中。**註**：此圖示使用WS-X6380-NAM，但它同時適用於WS-SVC-NAM-1和WS-SVC-NAM-2。此範例使用以下資訊：FTP伺服器為：名稱:rtp-sycamore.cisco.com地址：172.18.123.68帳戶ID無效。帳戶密碼已加密。案例的根目錄為：~ rtp-sycamore cse %4> pwd /local/home/cse。檔案列在此處，因此它是
： /local/home/cse/c6nam.3-1-1.bin.gz。~ rtp-sycamore cse %4>ls -al c6nam.3-1-1.bin.gz
rw-r—r— 1其他756712445月28日11:17 c6nam.3-1-1.bin.gz
3. 若要確認FTP伺服器是否正常運作，請進行測試以確認是否可從其他工作站存取此FTP伺服器：**註**：此處使用rtp-cse-205作為示例。

```
rtp-cse-205_oansari-> ftp rtp-sycamore
Connected to rtp-sycamore.cisco.com.
220 rtp-sycamore FTP server (SunOS 5.7) ready.
Name (rtp-sycamore:oansari): cse
331 Password required for cse.
Password: csecse
230 User cse logged in.
Remote system type is UNIX.
Using binary mode to transfer files.
```

4. 存取FTP伺服器時，請確保檔案可用：

```
ftp> ls c6nam.3-1-1.bin.gz
227 Entering Passive Mode (172,18,123,68,222,205)
150 ASCII data connection for /bin/ls (64.102.51.64,35372) (0 bytes).
-rw-r--r-- 1 cse other 75671244 May 28 11:17 c6nam.3-1-1.bin.gz
226 ASCII Transfer complete.
```

當您驗證檔案存在且可用時，您就可以更加確信檔案傳輸到NAM會成功。這可確認FTP服務正在運行，且有必要的檔案可供下載到FTP使用者端。

5. 開始升級NAM的步驟。範例如下：檢查模組：

```
nms-6506a> (enable) sh mod
...
```

Mod	Slot	Ports	Module-Type	Model	Sub	Status
1	1	2	1000BaseX Supervisor	WS-X6K-SUP1A-2GE	yes	ok
15	1	1	Multilayer Switch Feature	WS-F6K-MSFC	no	ok
2	2	0	FlexWAN Module	WS-X6182-2PA	no	power-down
4	4	2	Network Analysis Module	WS-X6380-NAM	no	ok
5	5	8	1000BaseX Ethernet	WS-X6408-GBIC	no	ok
6	6	48	10/100BaseTX Ethernet	WS-X6348-RJ-45	yes	ok

輸出顯示，相關的NAM位於插槽4中，狀態為ok。檢查CatOS交換器的版本：

```
nms-6506a> (enable) sh ver
WS-C6506 Software, Version NmpSW: 7.3(1)
```

注意：版本必須是7.3(1)或更高版本。如果您的交換機沒有此版本，請不要繼續升級NAM。首先升級交換機軟體。如果指定的版本是7.3(1)或更高版本，則重置NAM:

```
nms-6506a> (enable) reset 4 hdd:2
This command will reset module 4.
Unsaved configuration on module 4 will be lost
Do you want to continue (y/n) [n]? y
Module 4 shut down in progress, do not remove module until shutdown completed.
nms-6506a> (enable)
```

注意：對於NAM1/NAM2，您必須使用以下命令：**reset <module> cf:1**。您會在終端上看到以下輸出：

```
2003 May 28 11:28:36 %SNMP-5-ENTITYMODTRAP:Module 4 status
changed to "unknown(1)"
2003 May 28 11:28:36 %SNMP-5-MODULETRAP:Module 4 [Down] Trap
2003 May 28 11:28:36 %SNMP-5-ENTITYMODTRAP:Module 4 status
changed to "failed(7)"

003 May 28 11:28:50 %SNMP-5-FRUREMOVEDTRAP:module 4 removed
2003 May 28 11:28:50 %SNMP-5-ENTITYTRAP:Entity Mib last change time
483090709 ticks
2003 May 28 11:28:50 %SNMP-5-ENTITYMODTRAP:Module 4 status
changed to "unknown(1)"
2003 May 28 11:29:07 %SNMP-5-ENTITYTRAP:Entity Mib last change time
483092362 ticks
2003 May 28 11:29:07 %SNMP-5-FRUINSERTEDTRAP:module 4 inserted

2003 May 28 11:30:26 %SNMP-5-ENTITYMODTRAP:Module 4 status
changed to "ok(2)"
2003 May 28 11:30:26 %SNMP-5-MODULETRAP:Module 4 [Up] Trap
2003 May 28 11:30:27 %SNMP-5-FRUREMOVEDTRAP:module 4 removed
2003 May 28 11:30:27 %SNMP-5-ENTITYTRAP:Entity Mib last change time
483100353 ticks
2003 May 28 11:30:27 %SNMP-5-FRUINSERTEDTRAP:module 4 inserted
2003 May 28 11:30:27 %SYS-3-MOD_PORTINTFINSYNC:Port Interface in sync
for Module 4
```

確保NAM成功重新啟動：

```
nms-6506a> (enable) sh mod 4
Mod Slot Ports Module-Type Model Sub Status
-----
4 4 2 Network Analysis Module WS-X6380-NAM no ok
```

!--- Yes, it is up again.

會話進入NAM並發出upgrade命令：

```
nms-6506a> (enable) sess 4
Trying NAM-4...
Connected to NAM-4.
Escape character is '^']'.
```

Cisco Network Analysis Module (WS-X6380-NAM)

Maintenance Partition

!--- Notice how this states Maint Partition now. login: root

Password:

!--- Enter the password (the default password here is 'cisco'). Network Analysis Module (WS-X6380-NAM) Console, 1.2(1a)m Copyright (c) 1999, 2000, 2001 by cisco Systems, Inc. root@nms-6506a-nam.123.cisco.com#**upgrade ftp://cse:csecse@172.18.123.68/local/home/cse/c6nam.3-1-1.bin.gz**

!--- Notice that the complete path was specified after the IP address, !--- the same path that was retrieved from the "pwd" command on the server. !--- For this reason, it is

encouraged to use your UNIX server as your !--- FTP server. If necessary, get your sysadmin to enable FTP on it !--- temporarily to upgrade this NAM. !--- This step takes the longest time to upgrade. root@nms-6506a-nam.123.cisco.com#**upgrade ftp://cse:csecse@172.18.123.68/local/home/cse/c6nam.3-1-1.bin.gz**500 'SIZE c6nam.3-1-1.bin.gz':
command not understood.
ftp://cse:csecse@172.18.123.68/local/home/cse/c6nam.3-1-1.bin.gz
(unknown size) - [|| 41362K
!--- This goes on for a long time. !--- You have to be patient through this. !--- Then, after a lot of time, (can run for hours): 75671250 bytes transferred in 3010.21 sec (24.55k/sec) downloaded image version 3.1(1) Upgrade file
ftp://cse:csecse@172.18.123.68/local/home/cse/c6nam.3-1-1.bin.gz is downloaded. Upgrading will wipe out the contents of the application partition on the hard disk. Do you want to proceed installing it [y|N]: **y**

Proceeding with installation. Please do not interrupt.
If installation is interrupted or fails, boot this partition again and restart upgrade.

!--- After a few minutes, you should see this: Upgrade complete. You can boot the new application partition. root@nms-6506a-nam.123.cisco.com#

返回並重設交換器：

root@nms-6506a-nam.123.cisco.com#**exit**

nms-6506a> (enable) **reset 4**
This command will reset module 4.
Unsaved configuration on module 4 will be lost
Do you want to continue (y/n) [n]? **y**
Module 4 shut down in progress, do not remove module until shutdown completed.

you might see these log messages as well:

```
2003 May 28 12:47:45 %SNMP-5-ENTITYMODTRAP:Module 4 status
changed to "unknown(1)"
2003 May 28 12:47:45 %SNMP-5-MODULETRAP:Module 4 [Down] Trap
2003 May 28 12:47:45 %SNMP-5-ENTITYMODTRAP:Module 4 status
changed to "failed(7)"

2003 May 28 12:48:00 %SNMP-5-FRUREMOVEDTRAP:module 4 removed
2003 May 28 12:48:00 %SNMP-5-ENTITYTRAP:Entity Mib last change time
483565551 ticks
2003 May 28 12:48:00 %SNMP-5-ENTITYMODTRAP:Module 4 status
changed to "unknown(1)"
2003 May 28 12:48:16 %SNMP-5-ENTITYTRAP:Entity Mib last change time
483567205 ticks
2003 May 28 12:48:16 %SNMP-5-FRUINSERTEDTRAP:module 4 inserted

2003 May 28 12:48:00 %SNMP-5-FRUREMOVEDTRAP:module 4 removed
2003 May 28 12:48:00 %SNMP-5-ENTITYTRAP:Entity Mib last change time
483565551 ticks
2003 May 28 12:48:00 %SNMP-5-ENTITYMODTRAP:Module 4 status
changed to "unknown(1)"
2003 May 28 12:48:16 %SNMP-5-ENTITYTRAP:Entity Mib last change time
483567205 ticks
2003 May 28 12:48:16 %SNMP-5-FRUINSERTEDTRAP:module 4 inserted
2003 May 28 12:50:22 %SNMP-5-ENTITYMODTRAP:Module 4 status
changed to "ok(2)"
2003 May 28 12:50:22 %SNMP-5-MODULETRAP:Module 4 [Up] Trap
2003 May 28 12:50:22 %SNMP-5-FRUREMOVEDTRAP:module 4 removed
2003 May 28 12:50:22 %SNMP-5-ENTITYTRAP:Entity Mib last change time
483579792 ticks
2003 May 28 12:50:22 %SNMP-5-FRUINSERTEDTRAP:module 4 inserted
2003 May 28 12:50:23 %SYS-3-MOD_PORTINTFINSYNC:Port Interface in sync
for Module 4
```

最後，再次登入NAM:

```
nms-6506a> (enable) sess 4
Trying NAM-4...
Connected to NAM-4.
Escape character is '^']'.
```

```
Cisco Network Analysis Module (WS-X6380-NAM)
!--- NOTE #1: The 3.1 application image upgrade requires a special !--- one-time extra
reboot for optimal NAM 3.1 operation. !--- Reboot the NAM immediately after logging in. !---
- NOTE #2: Although it is NOT recommended, if for some reason you either !--- want to
downgrade the application image later on this NAM or reinstall !--- the maintenance image,
it is necessary to first install the NAM !--- downgrade patch. login: root
Password:
Terminal type: vt100
```

```
Cisco Network Analysis Module (WS-X6380-NAM) Console, 3.1(1)
Copyright (c) 1999-2003 by cisco Systems, Inc.
```

```
root@nms-6506a-nam.123.cisco.com#
root@nms-6506a-nam.123.cisco.com# reboot
!--- Reboot the NAM one last time. Reboot the NAM? (Y/N) [N]: y
```

6. 等待NAM重新啟動

```
!--- Note: NAM 3.1 takes a little longer to reboot (7-10 minutes). Look for these logs:
2003 May 28 12:55:08 %SNMP-5-ENTITYMODTRAP:Module 4 status changed to "unknown(1)" 2003 May
28 12:55:08 %SNMP-5-MODULETRAP:Module 4 [Down] Trap 2003 May 28 12:55:08 %SNMP-5-
ENTITYMODTRAP:Module 4 status changed to "failed(7)" 2003 May 28 12:55:23 %SNMP-5-
FRUREMOVEDTRAP:module 4 removed 2003 May 28 12:55:23 %SNMP-5-ENTITYTRAP:Entity Mib last
change time 483609821 ticks 2003 May 28 12:55:23 %SNMP-5-ENTITYMODTRAP:Module 4 status
changed to "unknown(1)" 2003 May 28 12:55:39 %SNMP-5-ENTITYTRAP:Entity Mib last change time
483611474 ticks 2003 May 28 12:55:39 %SNMP-5-FRUINSERTEDTRAP:module 4 inserted
```

最後：

```
2003 May 28 12:57:17 %SNMP-5-ENTITYMODTRAP:Module 4 status changed to "ok(2)"
2003 May 28 12:57:17 %SNMP-5-MODULETRAP:Module 4 [Up] Trap
2003 May 28 12:57:18 %SNMP-5-FRUREMOVEDTRAP:module 4 removed
2003 May 28 12:57:18 %SNMP-5-ENTITYTRAP:Entity Mib last change time 483621409 ticks
2003 May 28 12:57:18 %SNMP-5-FRUINSERTEDTRAP:module 4 inserted
2003 May 28 12:57:18 %SYS-3-MOD_PORTINTFINSYNC:Port Interface in sync for Module 4
```

驗證

使用本節內容，確認您的組態是否正常運作。

[輸出直譯器工具](#)(僅供已註冊客戶使用)(OIT)支援某些show命令。使用OIT檢視show命令輸出的分析

o

• show mod

```
nms-6506a> (enable) sh mod 4
Mod Slot Ports Module-Type Model Sub Status
-----
4 4 2 Network Analysis Module WS-X6380-NAM no ok
```

(i) login again to see the version:

```
nms-6506a> (enable) sess 4
Trying NAM-4...
Connected to NAM-4.
Escape character is '^']'.
```

Cisco Network Analysis Module (WS-X6380-NAM)

login: **root**

Password:

Terminal type: vt100

Cisco Network Analysis Module (WS-X6380-NAM) Console, 3.1(1)

Copyright (c) 1999-2003 by cisco Systems, Inc.

root@mms-6506a-nam.123.cisco.com#

疑難排解

目前尚無適用於此組態的具體疑難排解資訊。

相關資訊

- [思科網路分析模組流量分析器使用手冊3.6](#)
- [技術支援與文件 - Cisco Systems](#)