

如果不需要升級Configuration-DB，vManage 3節點群集的升級過程

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簡介

本文檔介紹了在不需配置或資料庫升級或新代碼位於同一軟體系列中時，使用3節點vManage群集的過程。

必要條件

- 如果解決方案是內部部署，則由vManage管理員拍攝的每個vManage節點3個虛擬機器的快照；如果解決方案是在思科託管的，則由Cisco CloudOps團隊拍攝。
- 使用`request nms configuration-db backup path path/filename`命令備份configuration-db
- 將configuration-db備份檔案從vManage節點複製。

採用元件

- vManage 20.3.4版上的3個節點集群。
- 20.3.4.1 vManage映像。

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。如果您的網路運作中，請確保您瞭解任何指令可能造成的影響。

背景資訊

本文檔中介紹的過程是指不需要升級configuration-db的升級。

檢視位於每個代碼發行說明上的[Cisco vManage Upgrade Paths](#)文檔，以驗證是否需要configuration-db升級。

附註：當從Cisco vManage 18.4.x/19.2.x版升級到Cisco vManage 20.3.x /20.4.x或從Cisco vManage 20.3.x/20.4.x版升級到Cisco vManage 20.5.x/20.6.x版時，必須升級configuration-db。請參閱[升級Cisco vManage集群](#)。

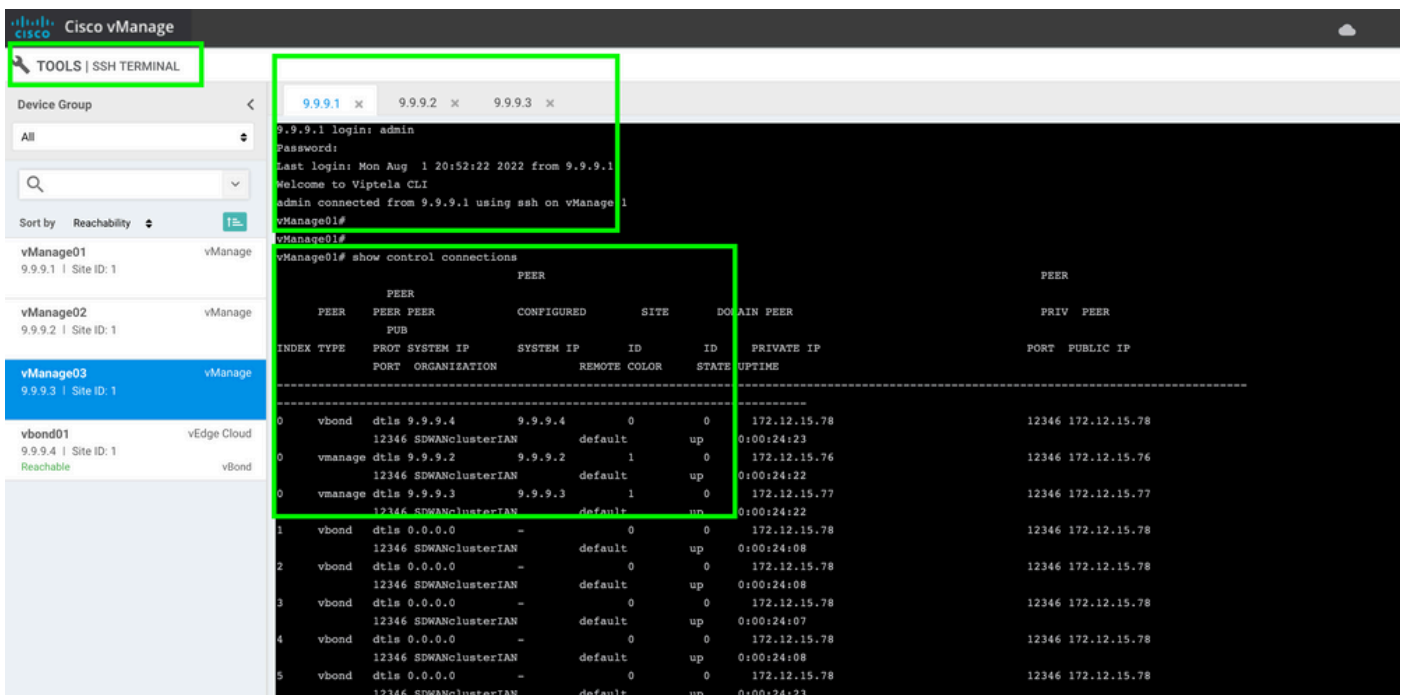
升級程式

1. 確保在每個vManage群集節點中：

- 每個vManage節點之間的控制連線已啟動。
- 網路設定通訊協定(NETCONF)穩定
- 每個vManage節點之間的帶外介面均可訪問。
- 資料收集代理(DCA)位於 RUN 集群中所有節點的狀態。

要檢查NETCONF狀態，請導航至 **Tools > SSH Session** 並登入到每個vManage節點。如果登入成功，則NETCONF正常。

其 **show control connections** 顯示vManage節點之間是否存在控制連線，如下圖所示。



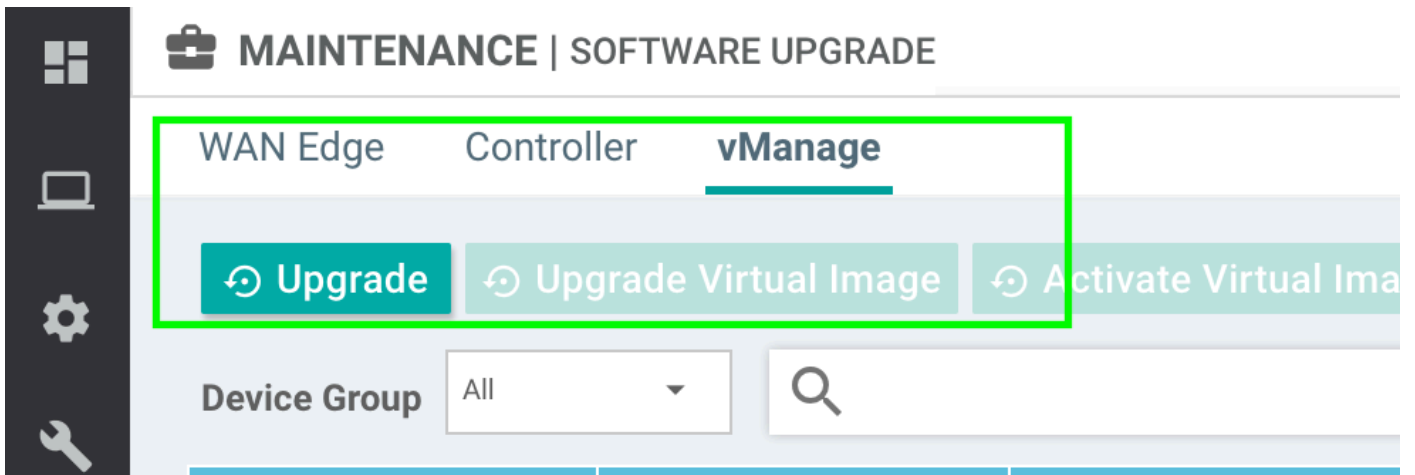
要檢查連線，請對遠端帶外ip執行ping操作，並從任何vManage節點向介面發出帶外源。

使用 `request nms data-collection-agent status` 命令檢查DCA的狀態。

2. 將新的Cisco Viptela vManage代碼上傳到一個節點上的vManage Software Repository中。

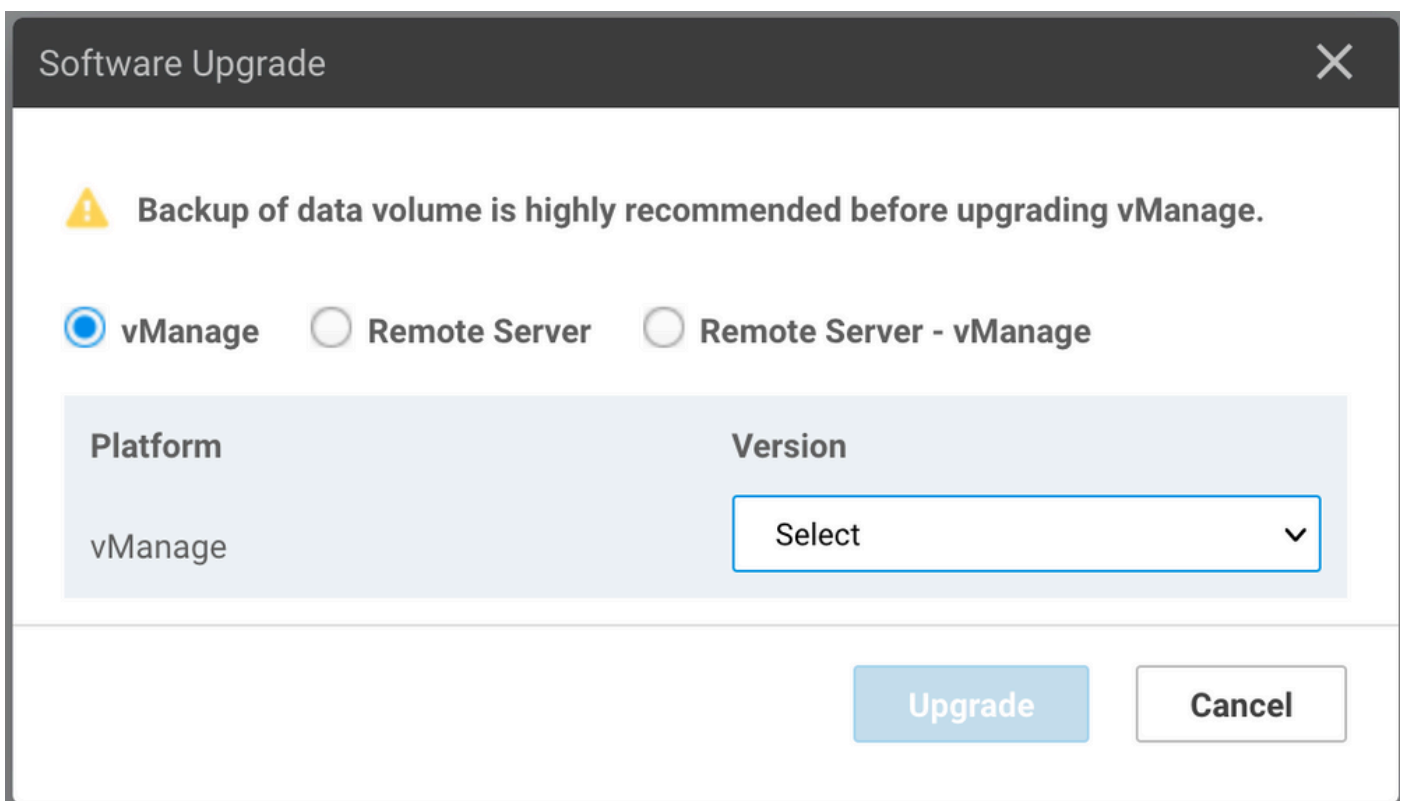
3. 導航至 **Maintenance > Software Upgrade**。

4. 選中3個vManage節點的覈取方塊，按一下 **Upgrade**，並選擇新版本。



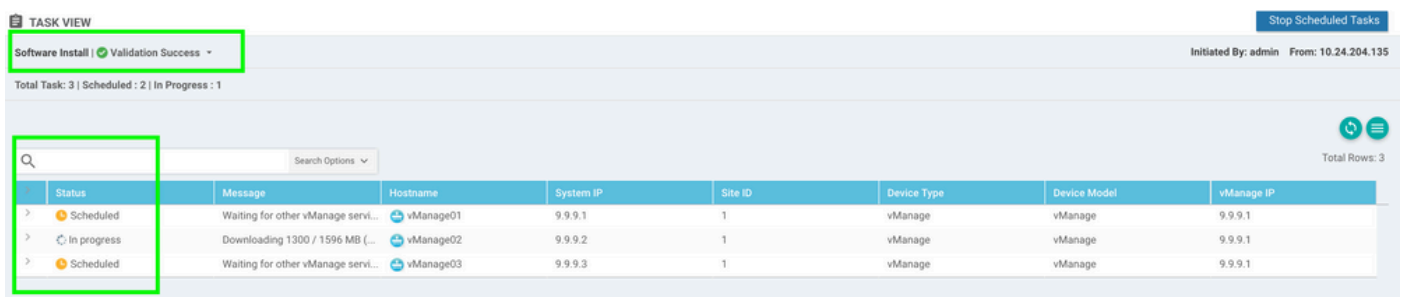
5.選擇 Upgrade 選項並選中vManage作為平台。

6.從下拉選單中選擇新代碼，然後按一下 Upgrade..



7.軟體安裝是按節點執行的。當第一個vManage節點開始安裝新代碼時，其他節點位於 Scheduled 狀態。

第一個節點成功後，它開始在下一個vManage節點上安裝新代碼，直到三(3)個節點成功安裝映像。



附註：vManage群集的升級操作與獨立vManage或重疊中的任何其他裝置中的操作不同。GUI的升級操作只會在vManage節點上安裝映像。它不會在vManage節點上啟用新代碼。新代碼啟用由 `request software activate` 指令。

NETCONFvManagers

8.vManage

TASK VIEW

Software Install | ✔ Validation Success - Initiated By: admin From: 10.24.204.135

Total Task: 3 | Success: 3

Search Options Total Rows: 3

Status	Message	Hostname	System IP	Site ID	Device Type	Device Model	vManage IP
Success	Done - Software Install	vManage01	9.9.9.1	1	vManage	vManage	9.9.9.1
Success	Done - Software Install	vManage02	9.9.9.2	1	vManage	vManage	9.9.9.1
Success	Done - Software Install	vManage03	9.9.9.3	1	vManage	vManage	9.9.9.1

show software show software

```
vManage02# show software
VERSION  ACTIVE  DEFAULT  PREVIOUS  CONFIRMED  TIMESTAMP
-----
20.3.4   true    true     -          -          2022-07-30T00:56:54-00:00
20.3.4.1 false   false    false     -          -
vManage02# _
```

9. request nms all status vManage

```
vmanage01cluster
NMS configuration database
  Enabled: true
  Status: running PID:20496 for 180s
NMS coordination server
  Enabled: true
  Status: running PID:19910 for 185s
NMS messaging server
  Enabled: true
  Status: not running
NMS statistics database
  Enabled: true
  Status: running PID:20625 for 179s
NMS data collection agent
  Enabled: true
  Status: not running
NMS cloud agent
  Enabled: true
  Status: running PID:827 for 300s
NMS container manager
  Enabled: true
  Status: running PID:18676 for 195s
NMS SDAVC proxy
  Enabled: true
  Status: running PID:880 for 300s
vManage01#
```

10. request nms all stop vManage

```
vManage01# request nms all stop
Successfully stopped NMS cloud agent
Successfully stopped NMS server proxy
Successfully stopped NMS application server
Successfully stopped NMS data collection agent
Stopping NMS messaging server
Successfully stopped NMS coordination server
Successfully stopped NMS configuration database
Successfully stopped NMS statistics database
vManage01#
```

nmsCLI

11. request software activate vManageCLI

```
vManage01#
vManage01#
vManage01# request software activate 20.3.4.1 _
```

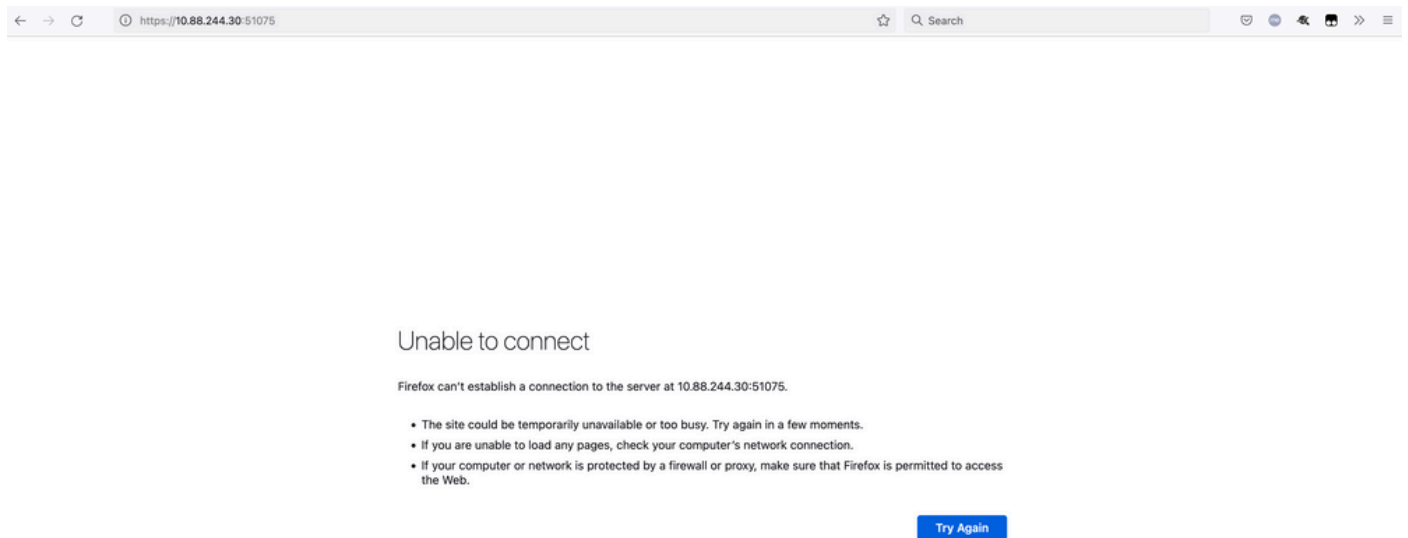
```
vManage02#
vManage02#
vManage02# request software activate 20.3.4.1_
```

```
vManage03#  
vManage03#  
vManage03# request software activate 20.3.4.1_
```

12. request software activate

```
vManage02#  
vManage02#  
vManage02# request software activate 20.3.4.1  
This will reboot the node with the activated version.  
Are you sure you want to proceed? [yes,NO] y
```

vManage GUI



13.vManagevManage

```
vmanage02cluster
directory
confd_load_schemas(addr->ai_addr addr->ai_addrLen) returned -2 confd_errno=45, vM
confd_lasterr()='EOF on socket to ConfD'

Mon Aug 1 21:55:19 UTC 2022: System Ready

WARNING: No cpu cfs quota support
WARNING: No cpu cfs period support

viptela 20.3.4.1

vManage02 login: admin
Password:
Welcome to Viptela CLI
admin connected from 127.0.0.1 using console on vManage02
vManage02# request software upgrade-confirm
vManage02# show software

VERSION    ACTIVE    DEFAULT    PREVIOUS    CONFIRMED    TIMESTAMP
-----
20.3.4     false    true       true        -            2022-07-30T00:56:54-00:00
20.3.4.1   true     false     false       user         2022-08-01T21:55:20-00:00

vManage02#
```

request software upgrade-confirm vManage

```
vmanage01cluster

Mon Aug 1 21:55:35 UTC 2022: System Ready

WARNING: No cpu cfs quota support
WARNING: No cpu cfs period support

viptela 20.3.4.1

vManage01 login: admin
Password:
Welcome to Viptela CLI
admin connected from 127.0.0.1 using console on vManage01
vManage01# request software con
^
% Invalid input detected at '^' marker.
vManage01# request software upgrade-confirm
vManage01# show software

VERSION    ACTIVE    DEFAULT    PREVIOUS    CONFIRMED    TIMESTAMP
-----
20.3.4     false    true       true        -            2022-07-30T00:53:34-00:00
20.3.4.1   true     false     false       user         2022-08-01T21:55:36-00:00

vManage01#
```

user auto

```
vmanage03cluster
vManage03 login:
Mon Aug  1 21:54:29 UTC 2022: System Ready
confd_load_schemas(addr->ai_addr, addr->ai_addrlen) returned -2, confd_errno=45
  confd_lasterr()='EOF on socket to ConfD'
WARNING: No cpu cfs quota support
WARNING: No cpu cfs period support

viptela 20.3.4.1

vManage03 login: admin
Password:
Welcome to Viptela CLI
admin connected from 127.0.0.1 using console on vManage03
vManage03# request software upgrade-confirm
vManage03# show software
```

VERSION	ACTIVE	DEFAULT	PREVIOUS	CONFIRMED	TIMESTAMP
20.3.4	false	true	true	-	2022-07-30T00:58:36-00:00
20.3.4.1	true	false	false	user	2022-08-01T21:54:30-00:00

```
vManage03#
```

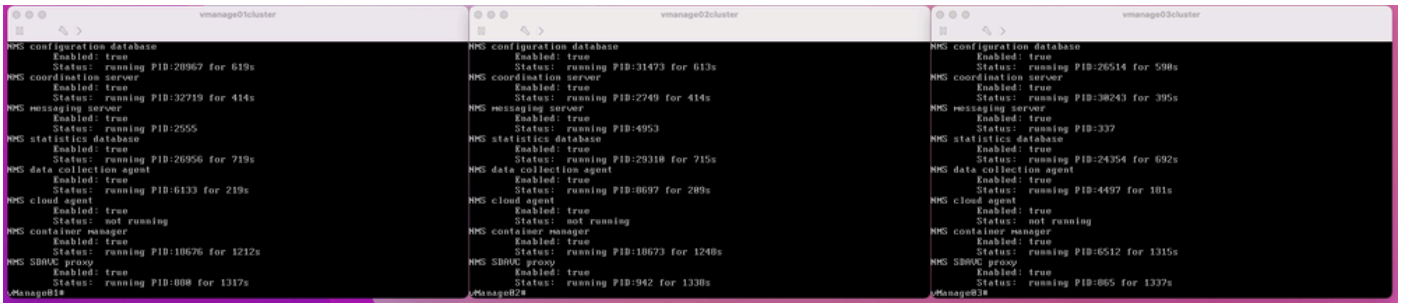
14. NMS

vManageNMS

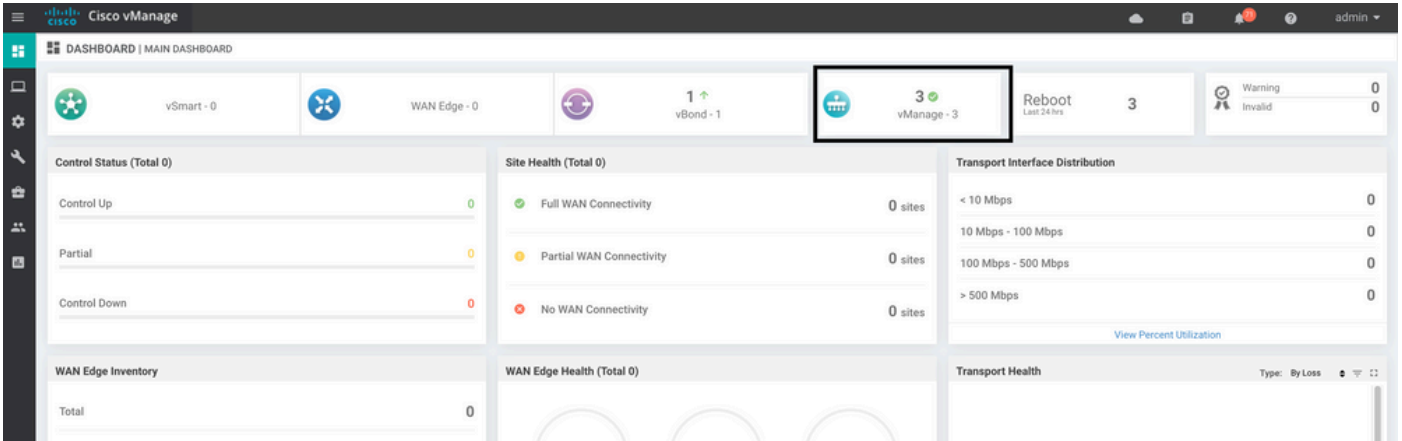
[vManage](#)

```
vManage02# request nms messaging-server status
NMS messaging server
  Enabled: true
  Status: running PID:4953
vManage02# request nms application-server start
Successfully started NMS application server
Setting up watches.
Watches established.
Successfully started NMS data collection agent
vManage02# request nms application-server status
NMS application server
  Enabled: true
  Status: running PID:7021 for 22s
```

request nms all status RUN



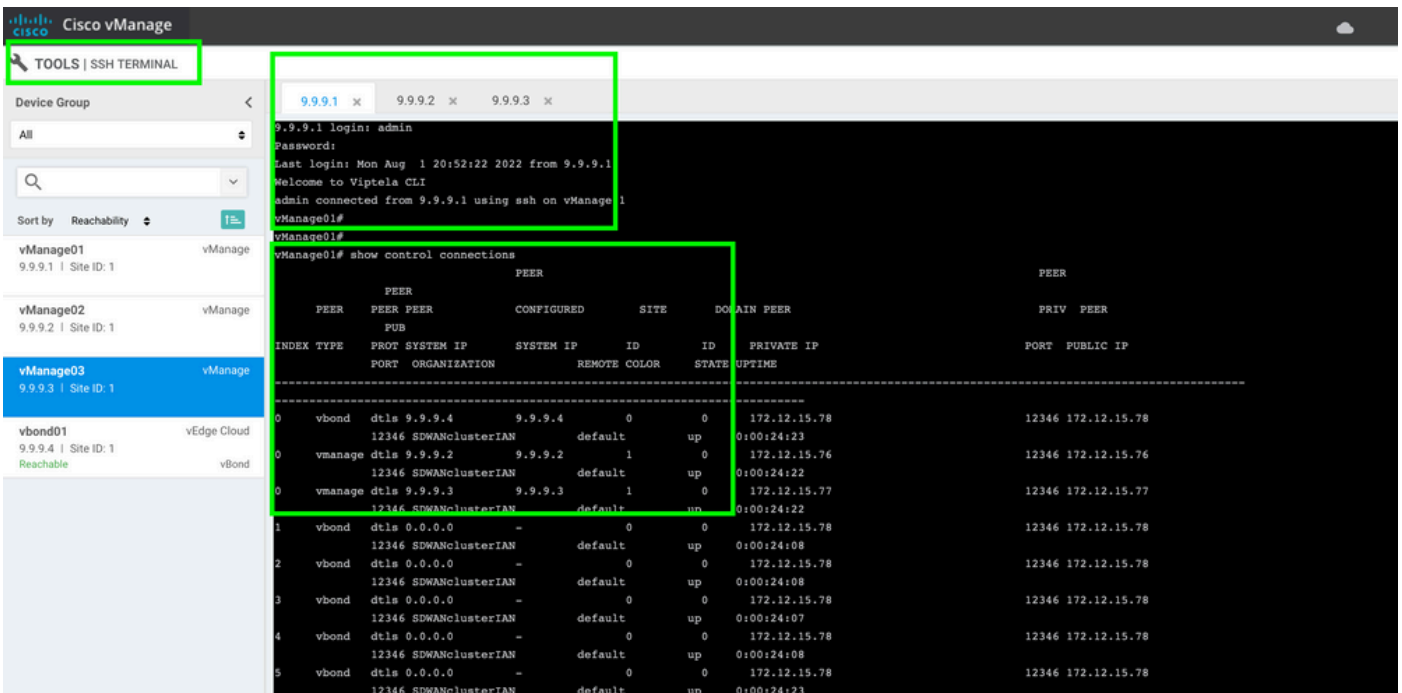
Cisco vManage GUI/vManage Dashboard/3vManage



Administration > Cluster Management vManage ready SD-AVC



vManage GUI/SSH/vManage/NETCONF



關於此翻譯

思科已使用電腦和人工技術翻譯本文件，讓全世界的使用者能夠以自己的語言理解支援內容。請注意，即使是最佳機器翻譯，也不如專業譯者翻譯的內容準確。Cisco Systems, Inc. 對這些翻譯的準確度概不負責，並建議一律查看原始英文文件（提供連結）。