

vManage 3节点群集的升级过程 (如果不需要升级Configuration-DB)

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简介

本文档介绍在不需要配置或数据库升级或新代码位于同一软件系列中时，使用3节点vManage群集的过程。

先决条件

- 如果解决方案是内部部署的，则每个vManage管理员拍摄的每个vManage节点3个虚拟机的快照；如果解决方案在思科托管，则由Cisco CloudOps团队拍摄。
- 使用命令`request nms configuration-db backup path path/filename`备份configuration-db
- 将configuration-db备份文件从vManage节点复制。

使用的组件

- 在20.3.4版本上管理3个节点的集群。
- 20.3.4.1 vManage映像。

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原始（默认）配置。如果您的网络处于活动状态，请确保您了解所有命令的潜在影响。

背景信息

本文档中介绍的过程是指不需要升级configuration-db的升级。

检查每个代码的“发行说明”上的[Cisco vManage Upgrade Paths](#)文档，以验证是否需要configuration-db升级。

注意：当从Cisco vManage版本18.4.x/19.2.x升级到Cisco vManage 20.3.x /20.4.x或从Cisco vManage版本20.3.x/20.4.x升级到Cisco vManage版本20.5.x/20.6.x时，必须升级configuration-db。请参阅[升级Cisco vManage集群](#)。

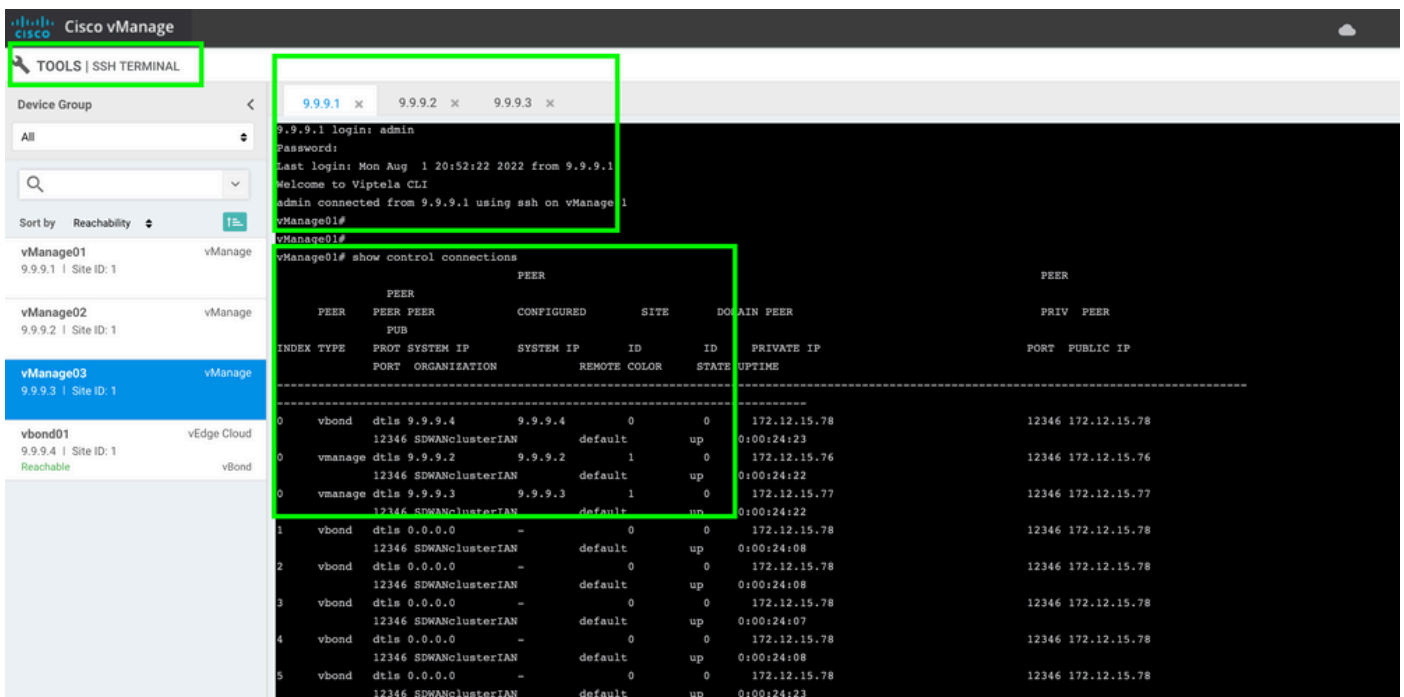
升级过程

1. 确保在每个vManage群集节点中：

- 每个vManage节点之间的控制连接都已启用。
- 网络配置协议(NETCONF)稳定
- 每个vManage节点之间的带外接口均可访问。
- 数据收集代理(DCA)位于 RUN 集群中所有节点的状态。

要检查NETCONF状态，请导航至 **Tools > SSH Session** 并登录每个vManage节点。如果登录成功，则NETCONF正常。

此 **show control connections** 显示vManage节点之间是否存在控制连接，如图所示。



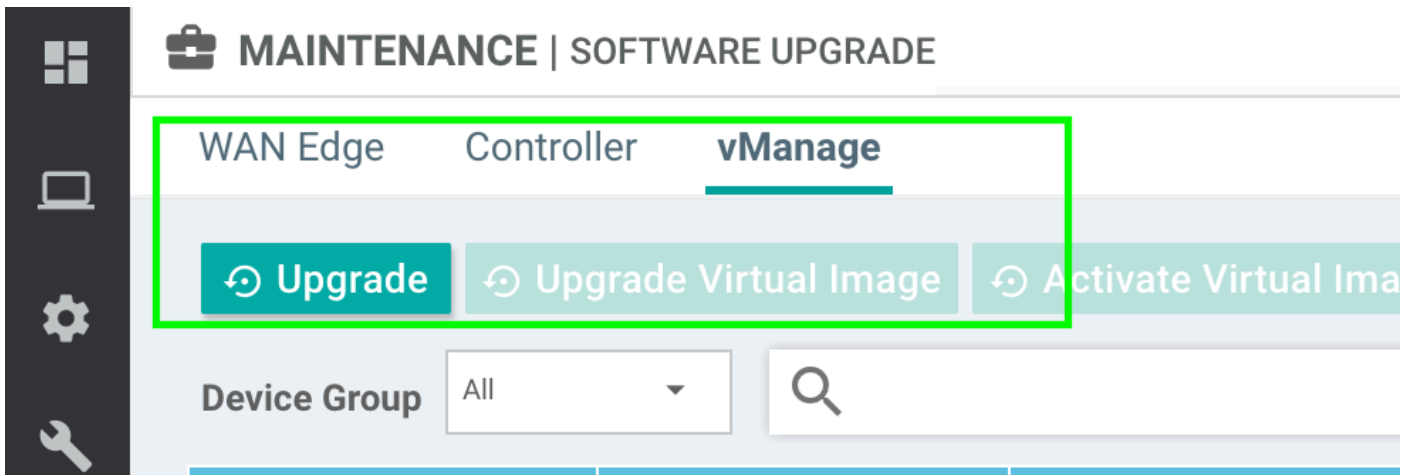
要检查连接，请ping远程带外ips，并从任何vManage节点获得带外接口。

请使用 `request nms data-collection-agent status` 命令检查DCA的状态。

2. 将新的Cisco Viptela vManage代码上传到一个节点上的vManage软件存储库。

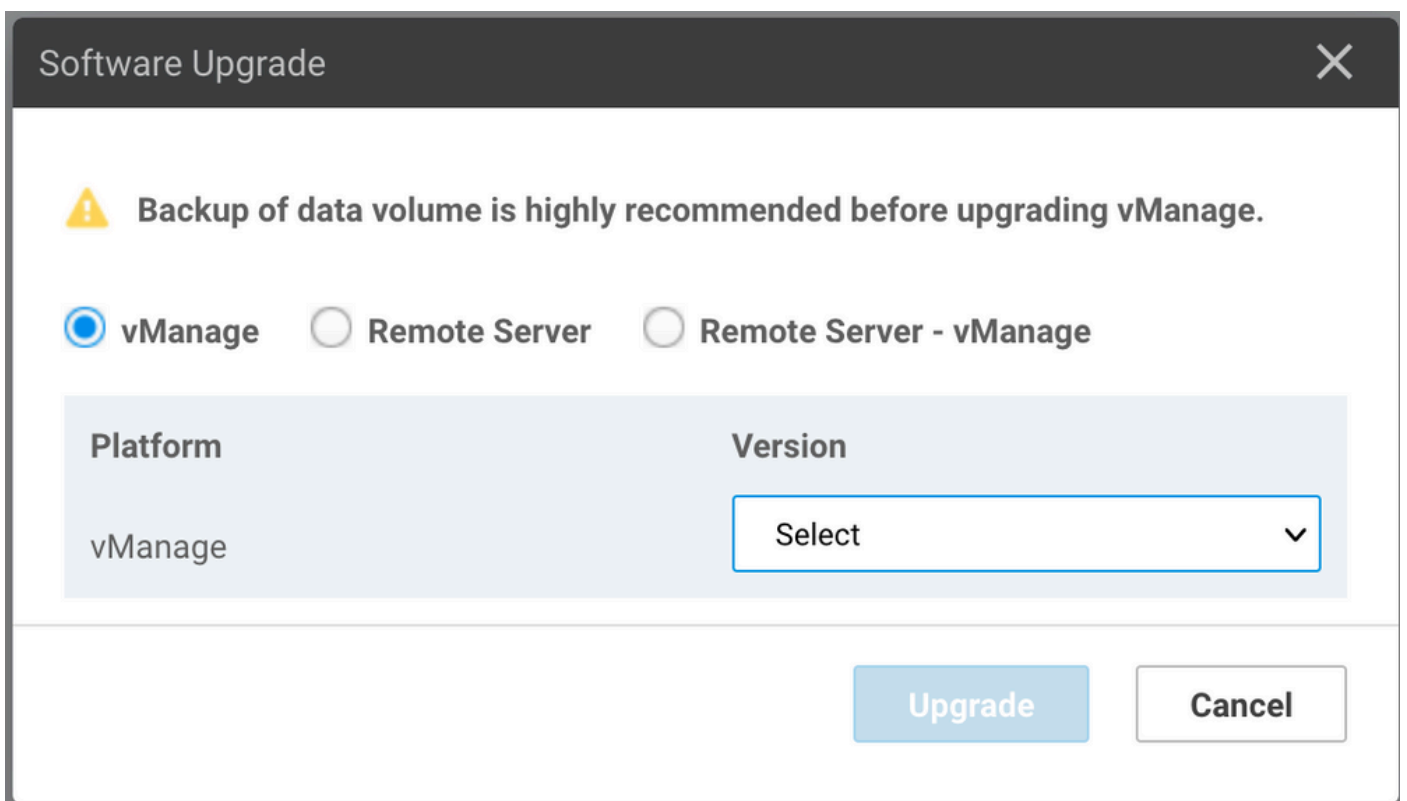
3. 导航至 **Maintenance > Software Upgrade**.

4. 选中3个vManage节点的复选框，单击 **Upgrade**，并选择新版本。



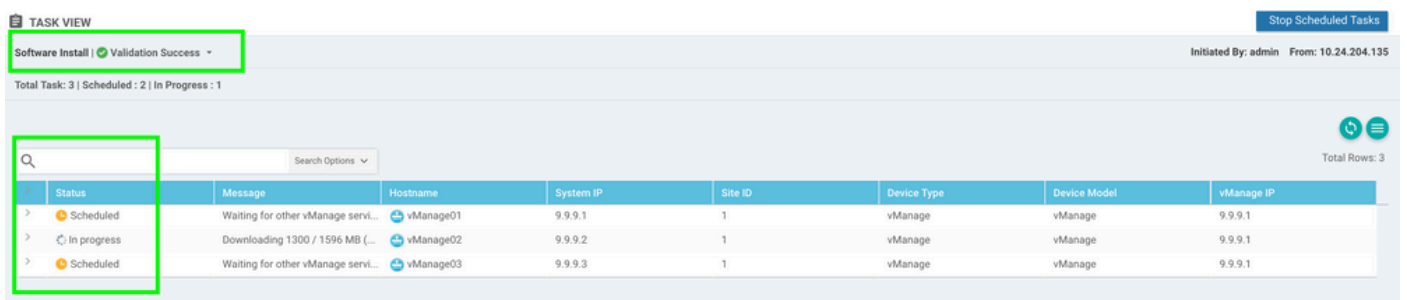
5.选择 **Upgrade** 选项并选中vManage作为平台。

6.从下拉菜单中选择新代码，然后单击 **Upgrade**..



7.软件安装按节点执行。当第一个vManage节点开始安装新代码时，其他节点位于 **Scheduled** 状态。

第一个节点成功后，它开始在下一个vManage节点上安装新代码，直到三(3)个节点成功安装映像。



注意：vManage集群的升级操作与独立vManage或重叠中的任何其他设备中的升级操作不同

。GUI的升级操作仅将映像安装在vManage节点上。它不会在vManage节点上激活新代码。
新代码激活由 `request software activate` 命令。

NETCONFvManagers

8.vManage

The screenshot displays the 'TASK VIEW' for a 'Software Install' operation. The status is 'Validation Success'. The task was initiated by 'admin' from IP '10.24.204.135'. A search bar and 'Search Options' are visible. The table below shows the progress for three vManage nodes.

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

Log messages for vManage01:

```
[1-Aug-2022 21:30:31 UTC] Software image: vmanage-20.3.4.1-x86_64.tar.gz
[1-Aug-2022 21:30:31 UTC] Software image download may take upto 60 minutes
[1-Aug-2022 21:30:36 UTC] Downloading http://9.9.9.1:8080/software/package/vmanage-20.3.4.1-x86_64.tar.gz?deviceId=9.9.9.1
[1-Aug-2022 21:31:05 UTC] Downloaded http://9.9.9.1:8080/software/package/vmanage-20.3.4.1-x86_64.tar.gz?deviceId=9.9.9.1
[1-Aug-2022 21:32:10 UTC] Signature verification Succeeded.
Signature verification Succeeded.
[1-Aug-2022 21:32:10 UTC] Installed 20.3.4.1
```

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

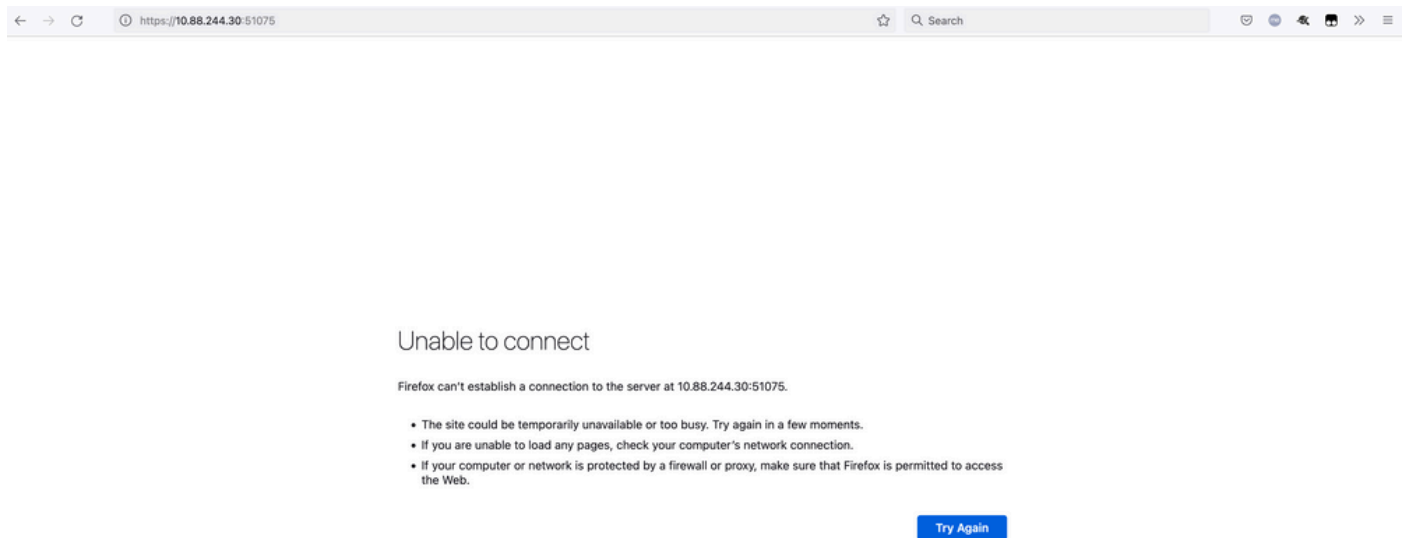
```
vManage01#
vManage01#
vManage01# request software activate 20.3.4.1 _
vManage02#
vManage02#
vManage02# request software activate 20.3.4.1_
```

```
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 addr_len) 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#
```

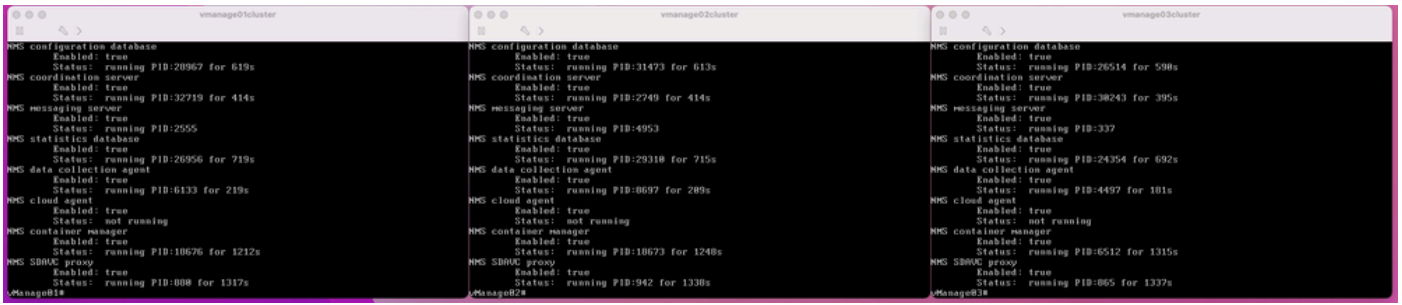
14. NMS

vManageNMS

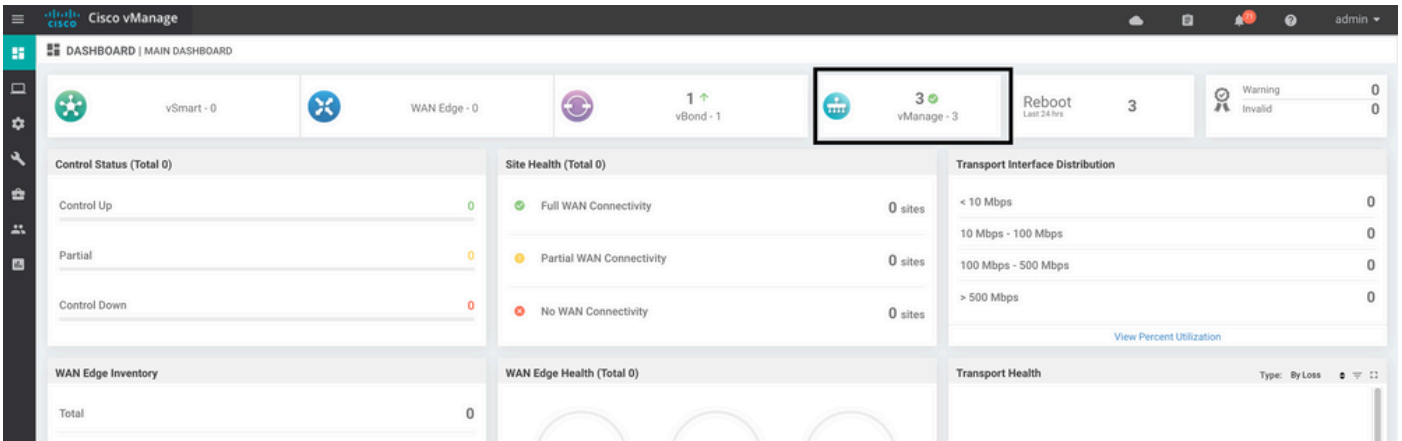
[vManage](#)

```
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



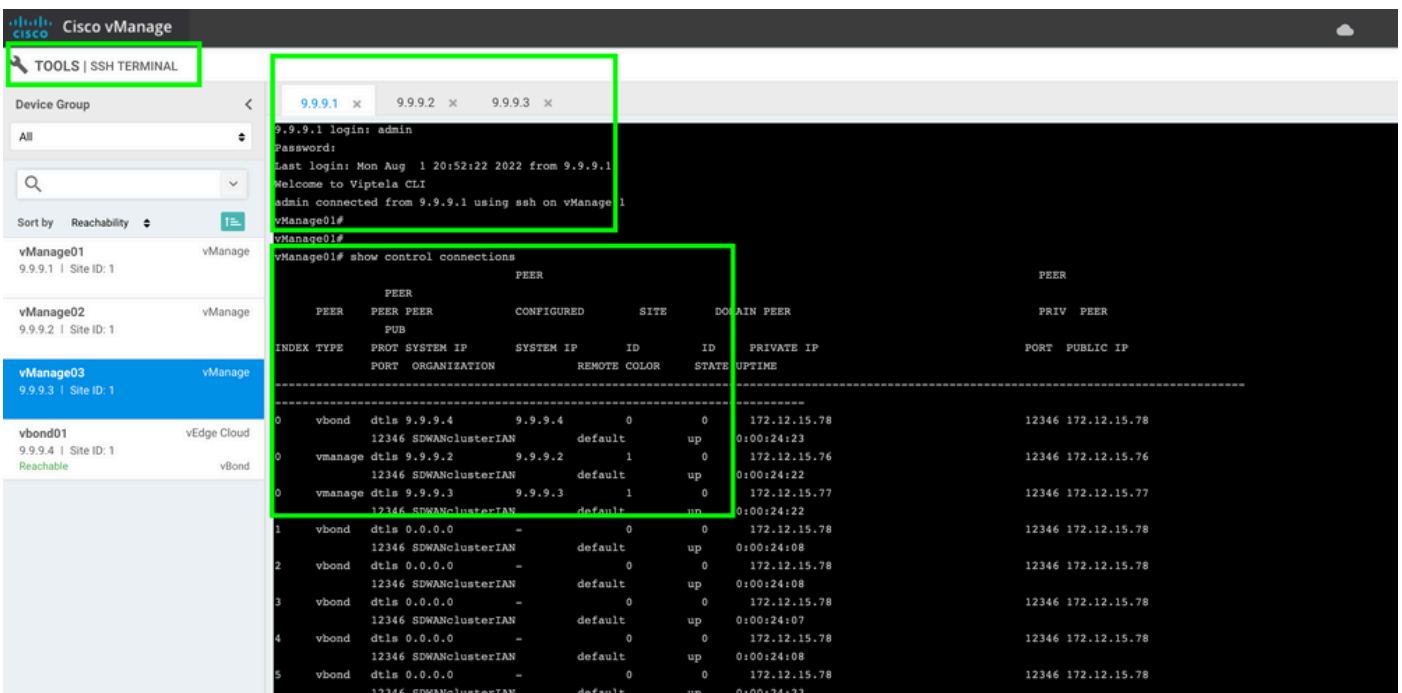
Cisco vManage GUI/vManage Dashboard/vManage



Administration > Cluster Management vManage ready SD-AVC



vManage GUI/SSH/vManagedevices/vedges/NETCONF



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