

ةطساوب لقتسملا دادرتسا ثراوكلا دعب تانايبل ا ةداعتسا

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ةمدقملا

ي طايتحا خسن ةيلمع مادختساب vManage ةداعتسا ئينعملات او طخل دنتسملا اذه فصي نيوكتلا تانايبل ةداعق اقل.

ةيساسأ تامولعم

ي رود لكشب Configuration-db ل ي طايتحا خسن ةيلمع عارج! مت دق هنأ دنتسملا اذه ضرتفي تيبثت وأ جمانرب نيعت ةداعي لاجاتحي ولقتسملا vManage دادرتسا نكمي ال، ام ببسلي و ديدج.

زهجألا تاداهشو تانيوكتلاب لاؤتاسيلا عيمج ةداعتسا ئيلع دنتسملا اذه كدعاسي. ةيفرطلا.

db-نيوكتلل يطايتحالا خسنلا

```
vManage_rcdn01# request nms configuration-db backup path 05_08_20_configdb
Starting backup of configuration-db
config-db backup logs are available in /var/log/nm/neo4j-backup.log file
Successfully saved database to /opt/data/backup/05_08_20_configdb.tar.gz
```

يجرأ مداخل SCP.

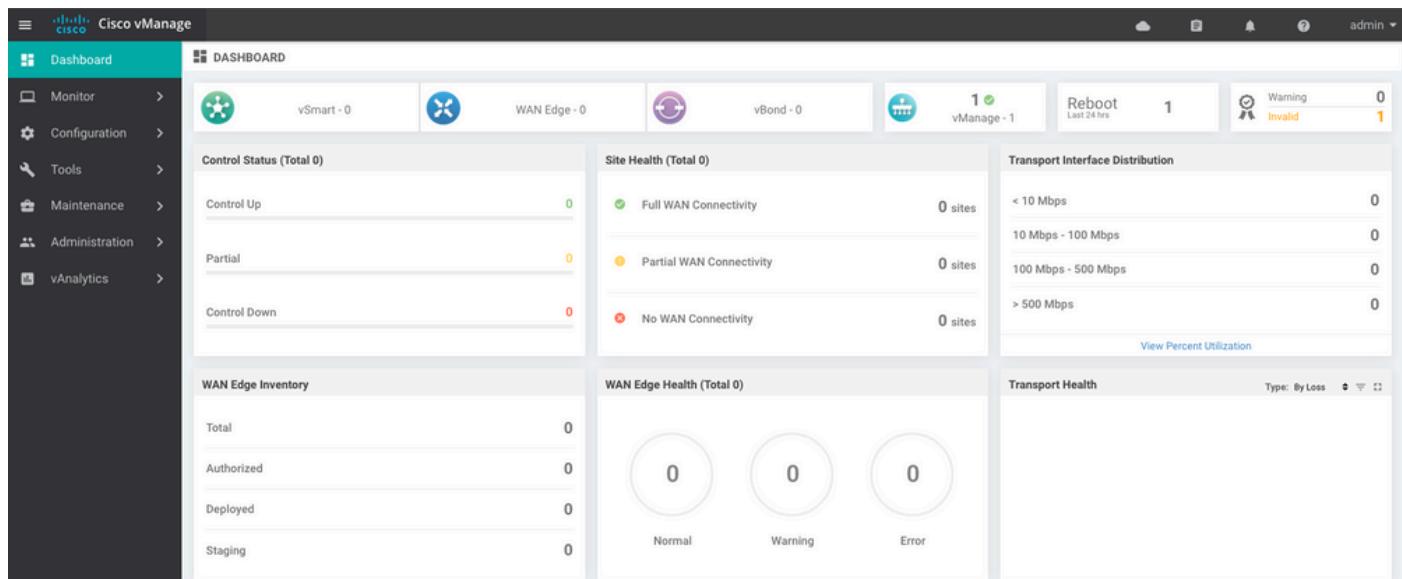
```
vManage_rcdn01# vshell  
vManage_rcdn01:~$ scp /opt/data/backup/05_08_20_configdb.tar.gz user@10.2.3.1://home/ftpuser/ftp/amaugust@10.2.3.1's password:  
05_08_20_configdb.tar.gz                                         100%   484KB   76.6MB/s   00
```

دادرتسى vManage

رمألا ةطساوب vManage طبض ڈاعى قىرط نع ئەثارك ئاكاحمب مق:

```
vManage_rcdn01# request software reset
```

نسحتسىملا نمف، هضرع مت يذلاك ودبى دىدج جمانرب كىدل حبصأ نأ دعب نآلما يطايتحالا ئخسنلا ڈاعتسىلا لباق حىحصلاب دادرتسىلا ئيلمعب مازتالالا.



ىلع نىوكتىلل ئندىلا دحلا 1. ۋەطخىلا vManage

```
system  
host-name          vManage_rcdn01  
system-ip          xx.xx.xx.xx  
site-id            100  
organization-name  ****.cisco  
vbond vbond.list  
!  
!
```

```

vpn 0
host vbond.list ip 10.2.3.4 10.2.3.5
interface eth0
  ip address 10.1.3.8/24
  tunnel-interface
  no shutdown
!
ip route 0.0.0.0/0 10.1.3.1
!
vpn 512
interface eth1
  ip address 10.11.3.8/24
  no shutdown
!
ip route 0.0.0.0/0 10.1.3.1
!
```

رذجلا ةداهشل او يطايتحالا خسنلا نيوكت خسن. 2. ٥وطخلأ

<#root>

```
vManage_rcdn01:~$ scp am****@xx.xx.xx.xx://home/ftpuser/ftp/am****/05_08_20_configdb.tar.gz .
am****@xx.xx.xx.xx's password:
05_08_20_configdb.tar.gz                                         100%  484KB  76.6MB/s  00:
```

verify

```
vManage_rcdn01:~$ ls -lh
total 492K
-rw-r--r-- 1 admin admin  394 May  8 15:20 archive_id_rsa.pub
-rwxr-xr-x 1 admin admin 485K May  8 15:39 05_08_20_configdb.tar.gz
```

Copy root certificate from other controller:

```
vManage_rcdn01:~$ scp admin@vbond://home/admin/root.crt .
viptela 18.4.4
admin@vbond's password:
root.crt                                         100% 1380      2.8MB/s  00:
```

رذجلا ةداهشل ا تيبيثت. 3. ٥وطخلأ

```
vManage_rcdn01# request root-cert-chain install /home/admin/root.crt
Uploading root-ca-cert-chain via VPN 0
Copying ... /home/admin/root.crt via VPN 0
Updating the root certificate chain..
Successfully installed the root certificate chain
```

ةيساسألا تامولعملأا ثيدحت. 4. ٥وطخلأ

ءة سفـلـا مـسـاـوـا vBond IP لـ ئـيـسـاسـاـلـا تـامـولـعـمـلا نـيـوكـتـوـا، ئـلـا لـقـتـنـا دـاهـشـلـا وـ.

Setting	Value	Action
Organization Name	alqurt.cisco	View Edit
vBond	vbond: port: 12346	View Edit
Email Notifications	Disabled	View Edit
Controller Certificate Authorization	Enterprise	View Edit
WAN Edge Cloud Certificate Authorization	Automated	View Edit
Web Server Certificate	12 Jul 2024 5:30:30 PM	CSR Certificate
Enforce Software Version (ZTP)		View Edit
Banner	Disabled	View Edit
Reverse Proxy	Disabled	View Edit
Statistics Setting		View Edit

5. ۋەطخـلـا دـاهـشـلـا تـيـبـثـتـا ۋـەـطـخـلـا

2. ۋەـطـخـلـا يـفـ اـهـتـيـبـثـتـتـا مـتـ يـتـلـا مـدـخـتـسـاـ.

Column	Value
Operation Status	CSR Generated
Controller Type	vManage
Hostname	vManage_rcd01
System IP	1.1.11.11
Site ID	100
Certificate Serial	No certificate installed
Expiration Date	-
uuid	92302e77-c05...
vEdge List St...	Sync
Device IP	1.1.11.11

CSR

IP Address: 1.1.11.11

[Download](#)

```
--BEGIN CERTIFICATE REQUEST--
MIIDTC...[Redacted]
```

[Close](#)

Cisco vManage

CONFIGURATION | CERTIFICATES

WAN Edge List Controllers > Send to vBond

No file chosen

Search Options

Operation Status	Controller Type	Hostname	System IP	Site ID	Certificate Serial	Expiration Date	vId	vEdge List St...	Device IP	...
CSR Generated	vManage	vManage_rcdn01	1.11.11.11	100	No certificate installed	-	92302e77-c05...	Sync	1.11.11.11	...

Total Rows: 1

Install Certificate

Certificate Text

```
-----BEGIN CERTIFICATE-----
MIIEQjCCAppwAwIBAgTwpF8easywxDQYJKoZIhvNcNAQELBQAebdDELMakGA1UE
BhAKVhMdczA1BgNVBAgTM2hM02nCwIDVQ2tIEcR0G09OMRb5fG1VQ2tVevGbWF1
Z3Vzrc5cXNbzbzEXM8lUgA1UECwM0YHdhW1c3Oa1Z2vY2b0aNBgNvNMTBLJv
b3fD2T4efw-yMDA1MDgxNjEMD0BaFw-M2a1MDgxNjCM08mAHNM0x-C0YDfVQ0Q
EwVUzETMfEGAA1UECBMk027saV2-cm-5pYTfRMASGA1UEB-MI1f7uEpvc2UfzAV
BgHVBAz1DmPfYYvnXhNkpc2N-MR02eEyDfQfKEr2SV02vHiehJvTfDME0
A1UEAAd5dm11bmFnZSD5MMwKmUm13y1MDVLTQ2MmEtYTcx0y0T2AxM21mWQ1
MmYhMC5zXBz0VvhLmNv-TEMCAGCSqSib3DfJAPYfC3wc9yDEB2zXB02Vxh
LmVbTCASh=DOYJKz2IwNAQEBBQADggEPADCCAs0CgxEBAKhMFBH-KmshqOE
t2zLcPSgqZTBlhmuXwVpymprJ7GdyAEz3gpmX14d70gPfHfa8c
5vOp6kyeT2MGXFdfstMNViwasUnCjhRerEnfmnd5YOHShz6jP/Wx2iAnZB
Z/W46TM7kyqD1ts4R1v3H7ASkAHzucVZ4NmPeAJsn1Ux8pIPB1oG2bwMrErJP
17zgnBWbVhqt2r0zAe3Jb246Pd7d8sm@XcBKf51Y+nXep0hrQz3XZUcToqm/

```

Select a file

Install Cancel

Cisco vManage

TASK VIEW

Install Certificate

Initiated By: admin From: 169.254.0.253

Total Task: 1 | Success: 1

Search Options

Status	Message	Device Type	Device IP	vManage IP
Success	Successfully synced vEdge list on vManage-9...	vManage	92302e77-c05c-462a-a717-5f013b31d52f	1.11.11.11

8-May-2020 16:15:06 UTC] Install Certificate, on device 92302e77-c05c-462a-a717-5f013b31d52f, started by user "admin" from IP address "169.254.0.253"
[8-May-2020 16:15:06 UTC] Pushing serial list to vManage-92302e77-c05c-462a-a717-5f013b31d52f (vManage_rcdn01)
[8-May-2020 16:15:06 UTC] Started processing serial list file on vManage-92302e77-c05c-462a-a717-5f013b31d52f (vManage_rcdn01)
[8-May-2020 16:15:07 UTC] Completed processing serial list file on vManage-92302e77-c05c-462a-a717-5f013b31d52f (vManage_rcdn01)
[8-May-2020 16:15:07 UTC] Done - Push vSmart List for vManage-92302e77-c05c-462a-a717-5f013b31d52f (vManage_rcdn01)
[8-May-2020 16:15:07 UTC] Pushed serial list to vManage-92302e77-c05c-462a-a717-5f013b31d52f (vManage_rcdn01)
[8-May-2020 16:15:07 UTC] Updated controllers with new certificate serial number of vManage-92302e77-c05c-462a-a717-5f013b31d52f

Cisco vManage

DASHBOARD

vSmart - 0 WAN Edge - 0 vBond - 0 vManage - 1 Reboot Last 24 hrs 1 Warning Invalid 0

Control Status (Total 0)

- Control Up 0
- Partial 0
- Control Down 0

Site Health (Total 0)

- Full WAN Connectivity 0 sites
- Partial WAN Connectivity 0 sites
- No WAN Connectivity 0 sites

Transport Interface Distribution

- < 10 Mbps 0
- 10 Mbps - 100 Mbps 0
- 100 Mbps - 500 Mbps 0
- > 500 Mbps 0

View Percent Utilization

WAN Edge Inventory

Total	0
Authorized	0
Deployed	0
Staging	0

WAN Edge Health (Total 0)

Normal	Warning	Error
0	0	0

Transport Health

Type: By Loss

تانا يابلا ۋە داعىق ۋە ئەسلىخا 6. ۋە ئەندا

```
<#root>
```

```
vManage_rcdn01# request nms configuration-db restore path /home/admin/05_08_20_configdb.tar.gz

Configuration database is running in a standalone mode
0 [main] INFO com.viptela.vmanage.server.deployment.cluster.ClusterConfigurationFileHandler - Trying to
4 [main] INFO com.viptela.vmanage.server.deployment.cluster.ClusterConfigurationFileHandler - Working on
Successfully saved cluster configuration for localhost
Starting DB backup from: localhost
Creating directory: local
cmd to backup db: sh /usr/bin/vconfd_script_nms_neo4jwrapper.sh backup localhost /opt/data/backup/local
Finished DB backup from: localhost
Stopping NMS application server on localhost
Stopping NMS configuration database on localhost
Reseting NMS configuration database on localhost
Restoring from DB backup: /opt/data/backup/staging/graph.db-backup
cmd to restore db: sh /usr/bin/vconfd_script_nms_neo4jwrapper.sh restore /opt/data/backup/staging/graph.db-backup
Successfully restored DB backup: /opt/data/backup/staging/graph.db-backup
Starting NMS configuration database on localhost
Waiting for 10s before starting other instances...
Polling neo4j at: localhost
NMS configuration database on localhost has started.
Updating DB with the saved cluster configuration data
Successfully reinserted cluster meta information
Starting NMS application-server on localhost
Waiting for 120s for the instance to start...
Removed old database directory: /opt/data/backup/local/graph.db-backup
Successfully restored database
```

يەتايىتحالا خىسنلارىلۇ دەمەت عەت و رېڭكۈچىنىڭ ئەندا ئەندا.

يەتايىتحالا خىسنلارىلۇ tailing ۋە ئەندا ئەندا vShell.

```
<#root>
```

```
vManage_rcdn01:~$  
tail -fq /var/log/nms/vmanage-server.log /var/log/nms/neo4j-out.log
```

تامدەنلە ئەندا 7. ۋە ئەندا

```
vManage_rcdn01# request nms all status
```

مەكتىلە ئادىھە ئەندا 8. ۋە ئەندا

ىلע تانىوكتلا او بل او قل او تاس ايسلا عيمج لي محى مى دق هنأ ئظحالىم كنكمى ، ايلاح vManage مكحتلا تادحو عيمج نكلو.

The Cisco vManage dashboard provides a comprehensive overview of network health and performance across several key metrics:

- Control Status (Total 5):** Shows 2 vSmart - 2 in Control Up, 0 in Partial, and 0 in Control Down.
- Site Health (Total 3):** Shows 3 sites with Full WAN Connectivity, 0 sites with Partial WAN Connectivity, and 0 sites with No WAN Connectivity.
- Transport Interface Distribution:** Shows interface utilization distribution: 0 sites < 10 Mbps, 0 sites 10 Mbps - 100 Mbps, 0 sites 100 Mbps - 500 Mbps, and 0 sites > 500 Mbps.
- WAN Edge Inventory:** Total 16 devices: 16 Authorized, 3 Deployed, and 0 Staging.
- WAN Edge Health (Total 0):** Shows 0 Normal, 0 Warning, and 0 Error conditions.
- Transport Health:** Type: By Loss.

Overall, the dashboard indicates a stable network environment with no critical issues.

عی طتسی ip ۋارادا) ناونع ۋارادىلا يف ئېبعت و مكحەت زاھىج لك رەح Configuration > Devices. ىللا لقتنا ۋە ملکو username (يەلحەم لېكىشتىلا يف تىسسىڭىن كەنگەرەتىنىڭ ئەنلىكىسىنىڭ.

Cisco vManage

CONFIGURATION | CERTIFICATES

WAN Edge List Controllers

> Send to Controllers

Total Rows: 15

State	Device Model	Chassis Number	Hostname	IP Address	Serial No./Token	Validate	...
Green	vEdge Cloud	ceaf1eb3-62cf-059d-634a-5649fca28125	Site03_vEdge...	1.1.1.6	EBOC7777	Invalid Staging Valid	...
Green	C1101-4P	C1101-4P-FGL221792P7	Site01_C1101	1.1.1.5	01633D8F	Invalid Staging Valid	...
Green	ISR4451-X	ISR4451-X/K9-FOC16491MWM	Site02_ISR44...	1.1.1.4	F42E	Invalid Staging Valid	...
Green	CSR1000v	CSR-953188CO-2D85-5D4B-A24A-2CEEE71...	-	-	Token - 40fcfc5d96bc40fc39a0d7bfb7e354	Invalid Staging Valid	...
Green	CSR1000v	CSR-91AA7B9A-C7E7-88E9-F205-15B732...	-	-	Token - 18bb348fdefc64ef3b5712046ccbd774	Invalid Staging Valid	...

اً طس او ب اه ترا دا نكمي ي تلا ٰ زه جأ عي مج ٰ ده اش م كنكمي ، نآل

Cisco vManage

DASHBOARD

vSmart - 2 WAN Edge - 3 vBond - 2 vManage - 1 Reboot Last 24 hrs 3 Warning Invalid 0

Control Status (Total 4)

- Control Up: 4
- Partial: 0
- Control Down: 0

Site Health (Total 2)

- Full WAN Connectivity: 2 sites
- Partial WAN Connectivity: 0 sites
- No WAN Connectivity: 0 sites

Transport Interface Distribution

- < 10 Mbps: 9
- 10 Mbps - 100 Mbps: 0
- 100 Mbps - 500 Mbps: 0
- > 500 Mbps: 0

View Percent Utilization

WAN Edge Inventory

Total	15
Authorized	15
Deployed	3
Staging	0

WAN Edge Health (Total 2)

Normal: 2 Warning: 0 Error: 0

Transport Health

Type: By Loss

Top Applications

No data to display

Application-Aware Routing

Tunnel Endpoints	Avg. Latency (ms)	Avg. Loss (%)	Avg. Jitter (ms)
Site02_ISR4451.default Site03_vEdge_Cloud...	50.5	0.013	37.333
Site01_C1101.default Site02_ISR4451.default	32.167	0.012	0
Site02_ISR4451.default Site01_C1101.default	32	0	0
Site01_C1101.default Site03_vEdge_Cloud...	25.917	0	41.083

Cisco vManage

CONFIGURATION | TEMPLATES

Device Feature

Add Template

Template Type: Non-Default Search Options Total Rows: 10

Name	Description	Type	Device Model	Device Templates	Devices Attached	Updated By	Last Updated	...
vEdge_VPN_0	Default Transport VPN tem...	WAN Edge VPN	C1111-4PLTEEA C1117-4P...	0	0	admin	23 Apr 2020 9:30:47 AM C...	...
Default_AAA	Default AAA template settin...	AAA	C1111-4PLTEEA C1117-4P...	1	1	admin	23 Apr 2020 9:42:40 AM C...	...
cEdge_VPN_0	Default Transport VPN tem...	WAN Edge VPN	C1111-4PLTEEA C1117-4P...	1	1	admin	23 Apr 2020 9:31:47 AM C...	...
vEdge_VPN_512_Interface	VPN 512 Interface config	WAN Edge Interface	C1111-4PLTEEA C1117-4P...	0	0	admin	23 Apr 2020 9:33:40 AM C...	...
vEdge_VPN_0_Interface	VPN 0 Interface config	WAN Edge Interface	C1111-4PLTEEA C1117-4P...	0	0	admin	23 Apr 2020 9:31:07 AM C...	...
Default_Banner	Banner for amaugust.cisco	Banner	ISR4451-X C1101-4P vEd...	1	1	admin	23 Apr 2020 8:17:38 AM C...	...
vEdge_VPN_512	VPN 512 add default route	WAN Edge VPN	C1111-4PLTEEA C1117-4P...	0	0	admin	23 Apr 2020 9:32:40 AM C...	...
cEdge_VPN_0_Interface	VPN 0 Interface config	WAN Edge Interface	C1111-4PLTEEA C1117-4P...	1	1	admin	23 Apr 2020 9:15:37 AM C...	...
cEdge_VPN_512	VPN 512 add default route	WAN Edge VPN	C1111-4PLTEEA C1117-4P...	1	1	admin	23 Apr 2020 9:33:16 AM C...	...
cEdge_VPN_512_Interface	VPN 512 Interface config	WAN Edge Interface	C1111-4PLTEEA C1117-4P...	1	1	admin	23 Apr 2020 9:34:20 AM C...	...

ئىلآللا تايىنقتلى نم ٩٤٩٥ مەجۇرمى ادختساب دنتسىمىلا اذە Cisco تەمچىرت
مەلاعىلما اھنۇ عىمەجى يىف نىيەمدختسىمىلى دىوتەم مېيدقىتلى ۋەرىشىپلار
امك ۋەقىيەت نوکتەنى لەيىل آمەجىرت لەصفا نأ ۋەظھالىم ئىچۈزى. ۋەصالخالا مەتغىلب
يىلخەت. فەرەتەم مەدقىي يىتلى ۋەيفارەتەحالا مەجىرتلى عەلاخالا وە
ىلى إمەئىاد عوجىرلاب يىصۇت و تامەجىرتلى ھەذە ۋەقىد نەع اھتىلىۋەسىم
Systems (رەفتەم طبارلى) يىلصەنلىلا ئىزىلچىنلىلا دنتسىمىلىا.