Standalone vManager herstellen door noodherstel

Inhoud

Inleiding Achtergrondinformatie Reserve-configuratie-dB Herstel vManager Stap 1. Minimale configuratie op vManager Stap 2. Back-upconfiguratie en basiscertificaat kopiëren Stap 3. Root-certificaat installeren Stap 4. Basisinformatie bijwerken Stap 5. Installeer het vManager-certificaat Stap 6. De database terugzetten Stap 7. Services controleren Stap 8. Controllers opnieuw verifiëren Stap 9. Verzend updates naar controllers

Inleiding

In dit document worden de stappen beschreven die nodig zijn om vManager te herstellen met behulp van een configuratie-dB back-up.

Achtergrondinformatie

Dit document gaat ervan uit dat er regelmatig een configuratie-db back-up is gemaakt en dat de standalone vManager om de een of andere reden onherstelbaar is en een software-reset of een nieuwe installatie nodig heeft.

Dit document helpt u bij het herstellen van alle beleid, sjablonen, configuraties en Edge-apparaatcertificaten.

Reserve-configuratie-dB

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

scp naar een externe server.

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

Herstel vManager

Simuleer een ramp door de vManager opnieuw in te stellen met de opdracht:

vManage_rcdn01# request software reset

Nu u een frisse vManager hebt die eruitziet als degene die wordt getoond, is het raadzaam om het herstelproces in de juiste volgorde aan te houden voordat u de back-up herstelt.

≡	cisco Cisco vi	Manag	çe					
-	Dashboard		DASHBOARD					
□	Monitor	>	vSmart - 0	WAN Edge - 0	vBond - 0	10		
۵	Configuration	>	•	•		vManage - 1		
٩	Tools	>	Control Status (Total 0)		Site Health (Total 0)	Transp		
÷	Maintenance	>	Control Up	0	S Full WAN Connectivity	0 sites < 10 M		
-	Administration	>	Paralal			10 Mb		
8	vAnalytics >		Partial		9 Partial WAN Connectivity	O sites 100 M		
			Control Down	0	8 No WAN Connectivity	> 500 l		
			WAN Edge Inventory		WAN Edge Health (Total 0)			
			Total	0				
			Authorized	0	0 0	0		
			Deployed	0				
		Staging		0	Normal Warning	Error		

Stap 1. Minimale configuratie op vManager

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

Stap 2. Back-upconfiguratie en basiscertificaat kopiëren

<#root>

```
vManage_rcdn01:~$ scp am****@xx.xx.xx://home/ftpuser/ftp/am****/05_08_20_configdb.tar.gz .
am****@xx.xx.xx's password:
05_08_20_configdb.tar.gz 100% 484KB 76.6MB/s 00:0
```

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 15:3905_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 00:00
```

Stap 3. Root-certificaat installeren

```
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
```

Stap 4. Basisinformatie bijwerken

Naar navigeren Administration > Settings en configureer de basisinformatie voor vBond IP, de naam van de organisatie en het certificaat.

≡	cisco VN	lanag	;e				
	Dashboard		-	ADMINISTRATION SETTINGS			
▫	Monitor	>		Organization Name	a st.cisco		
٠	Configuration	>		vBond	vbond t : 12346		
٩	Tools >			Email Notifications	Disabled		
÷	Maintenance > Controller Certificate Authorization		Enterprise				
<u> 45</u>	Administration	>	ſ	WAN Edge Cloud Certificate Authorization	Automated		
	Settings			Web Server Certificate	12 Jul 2024 5:30:30 PM		
	Manage Users			Enforce Software Version (ZTP)			
	Cluster Management			Banner	Disabled		
	Integration Management vAnalytics			Reverse Proxy	Disabled		
				Statistics Setting			

Stap 5. Installeer het vManager-certificaat

Gebruik de root.crt dat is geïnstalleerd in stap 2.

=	cisco Cisco vi	Manage														
55			¢ co	NFIGURATION CERTIF	ICATES											
Q		>	WAN	Edge List Controller	5											
٠		>	> Ser	 Send to vBond 												
			0	O Search Options y												
	Certificates	Q Search Options ~														
			>	Operation Status CSR Generated	Controller Type vManage	VManage_rcdn01	System IP 1.11.11.11	Site ID 100	Certificate Serial No certificate installed							
	Policies	_														
		_			CSR					×						
										_						
	Cloud onRamp for	r SaaS			IP Ad	dress: 1.11.11.11				Download						
						BEGIN CERTIFICATE REQUES	T									
					MIII MRI	DTJCCA/YCAQAwgc0xCzAJB; EwDwYDVQQHEwhTYW4gSm B/PA + TC27, UK/Pb + C5 + SWEH	NVBAYTAJVTMRMwE 9zZTEXMBUGA1UEC	QYDVQQIEwpDYV xMOYW1hdWd1c	VxpZm9ybmlh 3QuY2IzY28xFDAS	_						
۹,		>			BgM NW hvc	WBAGTC32JUHRIBGEgSW5ji MtNDYyYS1hNzE3LTVmMDE NAOkBFhNzdXBwb3J0OHZp	vUMwQQYDVQQDezp zYjMxZDUyZi0wLnZpi cHRIbGEuY29tMIIBIJA	cHRIbGEuY29tMS NBgkahkiG9w0BA	IwlAYJKoZI AQEFAAOC	_						
÷		>			AQ8 N1L	AMIIBCgKCAQEAp4czwUdw LgATHbyBqYq3/53t02D2I+t8	qaGpfQS0hmcuJw/lsa ICwFzmtWg/qTJ5PYw	aNINMGKKGb6Rfi vZc4V2iy0w1XLxq	albKqe6m/8l alScImG2	_						
45.		>			JGy Vng Eda	sSfqad3lg4dl3PqM9L9bHYg(i2Y+gAlKfVTPHykg8EigbZvC) /Ea Lval N/6446k0Cr0Dd4lDer	CeVkFn9bjpMzuTKo0: YSsk/XvOmfxYFWGpP Disb9Zsv9b71070 liAr	XW26zhHW+Pcfs PavTM4DPcIvbjqU p.WoQiad.kmd0ttX	BKR4Ae5x 9313yyY 350M20	_						
•		>			Hiw	ISsWfuChJ76dBDwmlM4k9k wwKjAJBgNVHRMEAjAAMB0	yySq8shXXsJmQIDAQ IGA1UdDgQWBBQwKi	ABoDsw0QYJKo MQSk4Q40j9Cw0r	ZihveNAQkO m0VbaJ0MSaSjAN	_						
					Date		ALL DALK LO KONDON	OUTD ADD LOD IN	Pile an Af all Annel							
										Close						
										_						



≡	cisco Cisco vi	/lanage												
	Dashboard		İ TASI	K VIEW										
▫	Monitor	>	> Install Certificate											
\$	Configuration	>	Total Ta	sk: 1 Success : 1										
	Devices													
	Certificates		Q			Search Options 🐱								
			2	Status		Message		Device Type		Device IP				
	Network Design		~	Success		Successfully synced	l vEdge list on vManage-9	vManage		92302e77-c05c-462a-a71				
	Templates		[[8-May-2020 16:15:06 8-May-2020 16:15:06	5 UTC] Install Certin 5 UTC] Pushing seria	ficate, on device l list to vManage-	92302e77-c05c-462a-a71 92302e77-c05c-462a-a71	7-5f013b31d52f, st 7-5f013b31d52f (vM	arted by user "admin" anage_rcdn01)	from IP address "169.				
	Policies		1	8-May-2020 16:15:06 8-May-2020 16:15:07	UTC] Started proces UTC] Completed proc	ssing serial list cessing serial lis	file on vManage-92302e t file on vManage-9230	77-c05c-462a-a717- 2e77-c05c-462a-a71	5f013b31d52f (vManage 7-5f013b31d52f (vMana	_rcdn01) ge_rcdn01)				
			1	8-May-2020 16:15:07 8-May-2020 16:15:07	UTC] Done - Push v UTC] Pushed serial	Smart List for vMa list to vManage-9	nage-92382e77-c85c-462 2382e77-c85c-462a-a717	a-a717-5f013b31d52 -5f013b31d52f (vMa	f (vManage_rcdn01) nage_rcdn01)					
	secunty		[8-May-2020 16:15:07	UTC] Updated contro	ollers with new ce	rtificate serial numbe	r of vManage-92302	e77-c05c-462a-a717-5f	013b31d52f				
	Cloud onRamp for	SaaS												
	Cloud onRamp													
	Natwork Hub													
	Herrorichau													
٩	Tools	>												
÷	Maintenance	>												
	Administration	>												



Stap 6. De database terugzetten

<#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 of
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
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
```

Deze stap vergt meer tijd en is afhankelijk van de back-up.

U kunt het proces verifiëren door tailing de logbestanden op vShell.

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

Stap 7. Services controleren

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

Stap 8. Controllers opnieuw verifiëren

Op dit moment kunt u zien dat alle beleid, sjablonen en configuraties zijn geladen op vManager, maar alle controllers zijn uitgeschakeld.

=	cisco Vi	Manaş	e				
8	Dashboard		DASHBOARD				
□	Monitor	>	₽ 2*	3 4	2↓	1 •	
٠	Configuration	>	vSmart - 2	WAN Edge - 3	vBond - 2	vManage	9-1
٩	Tools	>	Control Status (Total 5)		Site Health (Total 3)		Transp
ŝ	Maintenance	>	Control Up	5	S Full WAN Connectivity	3 sites	< 10 N
**	Administration	>	Partial	0	Partial WAN Connectivity	0	10 Mb
•	vAnalytics	>			Patal man connecting	U sites	100 M
			Control Down	0	S No WAN Connectivity	0 sites	> 500
			WAN Edge Inventory		WAN Edge Health (Total 0)		Transp
			Total	16			
			Authorized	16	0 0	0	
			Deployed	3			
			Staging	0	Normal Warning	Error	

Je moet alle controllers opnieuw authenticeren.

Naar navigeren Configuration > Devices. Bewerk elke controller en vul het IP-adres in (beheer IP kan worden gevonden in de lokale configuratie) gebruikersnaam en wachtwoord.

=	Cisco vManage	e											
	Dashboard	CONFIGURATIO	CONFIGURATION DEVICES										
	Monitor >	WAN Edge List Controllers											
٠	Configuration >	Add Controller - I Change Mode -											
	Devices	Q		Search Options 🐱									
_		Controller Type	Hostname	System IP	Site ID	Mode	Assigned Template	Device Status	Certificate Stat				
	Certificates	vManage	-	-	-	CLI	-	In Sync	Installed				
	Network Design	vManage	vManage_rcdn01	1.11.11.11	100	CLI	-	In Sync	Installed				
		vSmart	vsmart	1.1.1.2	100	CLI	1	In Sync	Installed				
	Templates	vSmart	vsmart_rtp	1.2.2.2	100	CLI	-	In Sync	Installed				
	Policies	vBond	vbond	1.1.1.3	100	CLI	-	In Sync	Installed				
		vBond	vbond_rtp	1.1.2.2	100	CLI	-	In Sync	Installed				
	Security												
	Cloud onRamp for SaaS												
	Cloud onRamp												
	Network Hub												

Stap 9. Verzend updates naar controllers

=	cisco vManage													
::	Dashboard	\$ co	CONFIGURATION CERTIFICATES											
▫	Monitor >	WAN	WAN Edge List Controllers											
۰	Configuration	- 34	· sena to visiona											
	Devices													
	Certificates	Q			Search Options 🗸									
		2												
	Network Design	>	vBond	vbond	1.1.1.3	28 Mar 2023 8:33:00 PM CDT	30b8e052-3c	Installed	100	06				
	Tamplatas	>	vBond	vbond_rtp	1.1.2.2	20 Apr 2023 2:07:00 PM CDT	9ff911c1-f1a2	Installed	100	27				
	remplates	>	vSmart	vsmart	1.1.1.2	21 Apr 2023 8:02:00 PM CDT	0e3ce626-b1	vBond Updated	100	4E				
	Policies	\rightarrow	vSmart	vsmart_rtp	1.2.2.2	21 Apr 2023 7:49:00 PM CDT	7c5bf5ab-6a8	vBond Updated	100	36				

=	Cisco vMana	ge						
	Dashboard	CONFI	IGURATION CERTIFI	ICATES				
▫	Monitor >	WAN Edg	ge List Controllers	1				
٠	Configuration >	> Send to	Controllers					
	Devices	0			Personal Continues and			
	Certificates	Q.			search uptions V			
		State		Model Chase	sis Number		IP Address+	Serial No./Token
	Network Design	Ŷ	vEdge	Cloud ceaf1	eb3-62cf-059d-634a-5649fca28125	Site03_vEdge	1.1.1.6	EB0C7777
	Templates	P	C1101	-4P C110	1-4P-FGL221792P7	Site01_C1101	1.1.1.5	01633D8F
	rempiates	9	ISR445	51-X ISR44	51-X/K9-F0C16491MWM	Site02_ISR44	1.1.1.4	F42E
	Policies	۲	CSR10	00v CSR-9	53188C0-2D85-5D4B-A24A-2CEEE71			Token - 40fcfc5d96bc40fcc39a0d7bfbc7
		(3)	CSR10	00v CSR-9	1AA7B9A-C7E7-B8E9-F205-15B7322			Token - 18bb348fdefc64ef3b5712046cct

Nu ziet u dat alle apparaten kunnen worden beheerd door vManager.

≡	cisco Cisco vi	Manage										
-	Dashboard		DASHB	OARD								
	Monitor	>	8	2 ↑		3 ↑		æ	2 ↑		1 0	
۵	Configuration	>	w	vSmart - 2	•	WAN Edge - 3		•	vBond - 2	-	vManag	je - 1
a	Tools	>	Control Status (Total 4)					Site Health (Total 2)				
2			Control U	p		4	0	Full WAN Connec	tivity		2 sites	< 10 1
-	Maintenance	`									▲ sites	10 M
*	Administration	>	Partial			0	0	Partial WAN Conr	nectivity		0 sites	100 N
	vAnalytics	>										> 500
			Control D	own			0	No WAN Connect	ivity		0 sites	
			WAN Edge	Inventory			WAN E	dge Health (Total	2)			Transp
			Total			15		\frown	· · · ·	· ·		100 %
			Authorize	d		15	(2)	0	0		
			Additized							0		50 %
			Depioyed			3		\smile				
			Staging			0		Normal	Warning	Error		0
			-									
			тор Аррис	ations		Ψu	Арриса	ition-Aware Kouti	ng			
							~	Site02_ISR4451:def	ault-Site03 vEdge_Cloud_	Avg. Latency (ms)		A.
							~	Site01_C1101:defau	ult-Site02_ISR4451:default	32.167		0.0
				No data to	display		~	Site02_JSR4451:def	ault-Site01_C1101:default	32		0
							~	Site01_C1101:defau	ult-Site03_vEdge_Cloud.d	25.917		0

=	Cisco vManage												
	Dashboard 3	CONFIGURATION TEMP	LATES										
□	Monitor >	Device Feature											
٠	Configuration >	Add Template											
	Devices	Template Type Non-Default	· Q		Search Options 🐱								
		Name	Description	Туре	Device Model	Device Templates	Devices Attached						
	Certificates	vEdge_VPN_0	Default Transport VPN tem	WAN Edge VPN	C1111-4PLTEEA C1117-4P	0	0						
	Network Design	Default_AAA	Default AAA template settin	AAA	C1111-4PLTEEA C1117-4P	1	1						
		cEdge_VPN_0	Default Transport VPN tem	WAN Edge VPN	C1111-4PLTEEA C1117-4P	1	1						
	Templates	vEdge_VPN_512_Interface	VPN 512 interface config	WAN Edge Interface	C1111-4PLTEEA C1117-4P	0	0						
	Policies	vEdge_VPN_0_Interface	VPN 0 interface config	WAN Edge Interface	C1111-4PLTEEA C1117-4P	0	0						
		Default_Banner	Banner for amaugust.cisco	Banner	ISR4451-X C1101-4P vEd	1	1						
	Security	vEdge_VPN_512	VPN 512 add default route	WAN Edge VPN	C1111-4PLTEEA C1117-4P	0	0						
	Cloud onRamp for SaaS	cEdge_VPN_0_Interface	VPN 0 interface config	WAN Edge Interface	C1111-4PLTEEA C1117-4P	1	1						
		cEdge_VPN_512	VPN 512 add default route	WAN Edge VPN	C1111-4PLTEEA C1117-4P	1	1						
	Cloud onRamp	cEdge_VPN_512_Interface	VPN 512 interface config	WAN Edge Interface	C1111-4PLTEEA C1117-4P	1	1						
	Network Hub												

Over deze vertaling

Cisco heeft dit document vertaald via een combinatie van machine- en menselijke technologie om onze gebruikers wereldwijd ondersteuningscontent te bieden in hun eigen taal. Houd er rekening mee dat zelfs de beste machinevertaling niet net zo nauwkeurig is als die van een professionele vertaler. Cisco Systems, Inc. is niet aansprakelijk voor de nauwkeurigheid van deze vertalingen en raadt aan altijd het oorspronkelijke Engelstalige document (link) te raadplegen.