Recuperación de vManage independiente mediante recuperación ante desastres

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Introducción

Este documento describe los pasos necesarios para restaurar vManage mediante la utilización de una copia de seguridad de la base de datos de configuración.

Antecedentes

Este documento supone que se ha realizado una copia de seguridad de la base de datos de configuración periódicamente y, por alguna razón, vManage independiente es irrecuperable y necesita un restablecimiento de software o una nueva instalación.

Este documento le ayuda a recuperar todas las políticas, plantillas, configuraciones y certificados de dispositivo Edge.

Backup Configuration-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 a un servidor externo.

```
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
```

Recuperar vManage

Simule un desastre mediante un restablecimiento de vManage mediante el comando:

```
vManage_rcdn01# request software reset
```

Ahora que tiene un vManage nuevo que se parece al que se muestra, es recomendable adherirse al proceso de recuperación en la secuencia correcta antes de restaurar la copia de seguridad.

≡	cisco Cisco vi	Manag	e			
55	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)	Transpo
÷	Maintenance	>	Control Up	0	Full WAN Connectivity	0 sites < 10 M
-	Administration	>	Desited.			10 Mbj
8	vAnalytics >		Partial		9 Partial WAN Connectivity	O sites 100 M
			Control Down	0	O No WAN Connectivity	> 500 t O sites
			WAN Edge Inventory		WAN Edge Health (Total 0)	Transpo
			Total	0		
			Authorized	0	0 0 0	
			Deployed	0		
			Staging	0	Normal Warning Err	or

Paso 1. Configuración mínima en vManage

```
system
host-name vManage_rcdn01
system-ip xx.xx.xxx
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 10.1.3.1
!
```

Paso 2. Copiar configuración de copia de seguridad y certificado raíz

<#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:
                                                                          100% 1380
                                                                                        2.8MB/s
root.crt
                                                                                                   00:00
```

Paso 3. Instalar certificado raíz

```
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
```

Paso 4. Actualizar información básica

Desplácese hasta Administration > Settings y configure la información básica de la IP de vBond, el nombre de la organización y el certificado.

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

Paso 5. Instalar certificado de vManage

Use el comando root.crt que se instala en el paso 2.

=	cisco Cisco vi	Manage											
55			🌣 co	NFIGURATION CERTIF	ICATES								
		>	WAN	Edge List Controller	5								
٠		>	> Ser	And to vBond									
	Cartificates	Q Search Options V											
	Gerundates	_	2										
			>	CSR Generated	vManage	vManage_rcdn01	1.11.11.11	100	No certificate installed				
		_											
		_											
		_			CSR					×			
										_			
		r SaaS			IP As	ddress: 1.11.11.11							
										Download			
		_			MI	BEGIN CERTIFICATE REQUEST DTJCCAJYCAQAwgc0xCzAJBg	t)NVBAYTAIVTMRMwE	QYDVQQIEwpDYV	VxpZm9ybmlh				
					MP	EwDwYDVQQHEwhTYW4gSm NVBAoTC3ZJUHRIbGEgSW5ji	9zZTEXMBUGA1UEC MUMwQQYDVQQDEzp	xMOYW1hdWd1c3 2bWFuYWdlLTkyN	9QuY2IzY28xFDAS 4zAyZTc3LWMw				
*		<u> </u>			NW hvc	MtNDYyYS1hNzE3LTVmMDE NAQkBFhNzdXBwb3J0QHZp	zYjMxZDUyZi0wLnZp cHRIbGEuY29tMIIBIJA	cHRIbGEuY29tMS NBgkqhkiG9w0BA	QEFAAOC				
÷		>			AQ N1	8AMIIBCgKCAQEAp4czwUdw LLgATHbyBqYq3/53102D2I+18	qaGpfQS0hmcuJw/ls ICwFzmtWg/qTJ5PYw	aNINMGKKGb6Rfe /Zc4V2iy0w1XLxq	sbKqe6m/8l xScImG2				
45		>			JG	ysStqad3ig4dI3PqM9L9bHYg0 g2Y+gAlKfVTPHykg8EigbZvC1	CeVkFn9bjpMzuTKoO /Ssk/XvOmfxYFWGpP Disb07ss0b71070.044	W26zhHW+Pctsl wTM4DPclvbjqU	BKR4Ae5x 9313yyY 2504420				
		· .			Hiv	viSsWfuChJ76dBDwmlM4k9k	yySq8shXXsJmQIDA0 GA1UdDo0WBB0wK1	ABoDsw0QYJKoj 40Sk4040i9Cw0r	Zhowi29 ZhveNAQkO nOVba JOMSaSIAN				
					n-1		Statute Alexandre	OUTD ADD A D D IAA	Pole and Arabitation of the second				
		_											
										Close			



≡	cisco Cisco vi	/lanage								
	Dashboard		İ TASI	K VIEW						
▫	Monitor	>	Install C	ertificate						
\$	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	>								



Paso 6. Restaurar La Base De Datos

<#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

Este paso toma más tiempo y depende de la copia de seguridad.

Puede verificar el proceso mediante tailing los registros en vShell.

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

Paso 7. Comprobar servicios

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

Paso 8. Reautenticar controladores

Actualmente, puede observar que todas las políticas, plantillas y configuraciones se han cargado en vManage, pero todos los controladores están inactivos.

≡	cisco Cisco vi	Manag	e							
8	Dashboard		B DASHBOARD							
▫	Monitor	>	8	2 🔸	8	3 4		2 🗸	10	
۵	Configuration	>	•	vSmart - 2	•	WAN Edge - 3	•	vBond - 2	VManag	je - 1
٩	Tools	>	Control Status (To	otal 5)			Site Health (Total	3)		Transp
ŝ	Maintenance	>	Control Up			5	Full WAN C	Connectivity	3 sites	< 10 N
*	Administration	>	Destial							10 Mb
•	vAnalytics	>	Partial				Partial WA	N Connectivity	0 sites	100 M
			Control Down			0	O No WAN C	connectivity	0 sites	> 500
			WAN Edge Invent	ory			WAN Edge Health	n (Total 0)		Transp
			Total			16				
			Authorized			16	0	0	0	
			Deployed			3				
			Staging			0	Normal	Warning	Error	

Debe volver a autenticar todos los controladores.

Desplácese hasta Configuration > Devices. Edite cada controlador y rellene la dirección IP de administración (la dirección IP de administración se puede encontrar en la configuración local) nombre de usuario y contraseña.

=	cisco vManage	e								
	Dashboard	CONFIGURATIO	CONFIGURATION DEVICES							
	Monitor >	WAN Edge List	Controllers							
٠	Configuration >	Add Controller	* 🗍 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		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									

Paso 9. Enviar actualizaciones a controladores

=	Cisco vManag	e										
	Dashboard	🌣 co	CONFIGURATION CERTIFICATES									
▫	Monitor >	WAN	WAN Edge List Controllers									
۰	Configuration >											
	Devices											
	Certificates	Q			Search Options 🗢							
		2	Controller Type	Hostname	System IP	Expiration Date	uuid	Operation Status	Site ID	Ce		
	Network Design	>	vBond	vbond	1.1.1.3	28 Mar 2023 8:33:00 PM CDT	30b8e052-3c	Installed	100	06		
	Tamalatas	>	vBond	vbond_rtp	1.1.2.2	20 Apr 2023 2:07:00 PM CDT	9ff911c1-f1a2	Installed	100	27		
	rempiates	>	vSmart	vsmart	1.1.1.2	21 Apr 2023 8:02:00 PM CDT	0e3ce626-b1	vBond Updated	100	4E		
	Policies	>	vSmart	vsmart_rtp	1.2.2.2	21 Apr 2023 7:49:00 PM CDT	7c5bf5ab-6a8	vBond Updated	100	36		
≡	Cisco vMana	ige										
	Dashboard	\$ 0	CONFIGURATION C	ERTIFICATES								

	Dashboard		CONFIGURAT	ION CERTIFICATES					
▫	Monitor	>	WAN Edge List	Controllers					
٠	Configuration	>	 Send to Controlle 	013					
	Devices								
	Cartificator		Q			Search Options 🗸			
	Cerdificates	_	State	Device Model	Chassis I	lumber	Hostname	IP Address+	Serial No./Token
	Network Design		Ŷ	vEdge Cloud	ceaf1eb3	-62cf-059d-634a-5649fca28125	Site03_vEdge	1.1.1.6	EB0C7777
	Templates		Ŷ	C1101-4P	C1101-4F	-FGL221792P7	Site01_C1101	1.1.1.5	01633D8F
	Policies		Ŷ	ISR4451-X	ISR4451-	K/K9-FOC16491MWM	Site02_ISR44	1.1.1.4	F42E
			۲	CSR1000v	CSR-9531	88C0-2D85-5D48-A24A-2CEEE71	-	-	Token - 40fcfc5d96bc40fcc39a0d7bfbc7
			(i)	CSR1000v	CSR-91A	789A-C7E7-88E9-F205-15B7322			Token - 18bb348fdefc64ef3b5712046cct

Ahora, verá que todos los dispositivos se pueden gestionar mediante vManage.

≡	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 St	atus (Total 4)			Site He	alth (Total 2)				Trans
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		
			Dealers d					2)	0	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						

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