Ripristino di vManage standalone tramite disaster recovery

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Introduzione

In questo documento vengono descritti i passaggi necessari per ripristinare vManage tramite l'utilizzo di un backup del database di configurazione.

Premesse

In questo documento si presume che sia stato eseguito periodicamente un backup del database di configurazione. Per qualche motivo, vManage standalone è irreversibile e richiede un ripristino del software o una nuova installazione.

Questo documento consente di ripristinare tutti i criteri, i modelli, le configurazioni e i certificati dei dispositivi 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 su un server esterno.

```
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
```

Ripristina vManage

Simulare un guasto irreparabile ripristinando vManage con il comando:

```
vManage_rcdn01# request software reset
```

Ora che si dispone di un nuovo vManage simile a quello illustrato, è consigliabile attenersi al processo di ripristino nella sequenza corretta prima di ripristinare il backup.



Passaggio 1. Configurazione minima su 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
!
```

Passaggio 2. Copia configurazione di backup e certificato radice

<#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
```

Passaggio 3. Installa certificato radice

```
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
```

Passaggio 4. Aggiorna informazioni di base

Passa a Administration > Settings e configurare le informazioni di base per IP vBond, Nome organizzazione e certificato.

≡	cisco VN	lanag	;e				
	Dashboard		-	ADMINISTRATION SETTINGS			
▫	Monitor	>		Organization Name	a st.cisco		
٠	Configuration	>		vBond	vbond t : 12346		
٩	Tools > Email Notifications		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)		Enforce Software Version (ZTP)				
	Cluster Management			Banner	Disabled		
	Integration Manag	ement	Reverse Proxy		Disabled		
	II. vAnalytics >			Statistics Setting			

Passaggio 5. Installa certificato vManage

Utilizzare il root.crt installato nel passaggio 2.

=	cisco Cisco vi	Manage								
55			¢ co	NFIGURATION CERTIF	ICATES					
		>	WAN	Edge List Controllers	s					
٠		>	P 50	ia co viboria						
						and a start of				
	Certificates		Q.			Search Options V				
			>	CSR Generated	vManage	vManage_rcdn01	1.11.11.11	100	No certificate installed	
		_								
		_			CSR					×
		_			CON .					^
		r SaaS			IP Ad	dress: 1.11.11.11				
		_				EGIN CERTIFICATE DEOLIES	T			2 Download
		_			MID	TJCCA/YCAQAwgc0xCzAJB WDwYDVQQHEwhTYW4gSr	gNVBAYTAIVTMRMwE n9zZTEXMBUGA1UEC	QYDVQQIEwpDYV xMOYW1hdWd1c3	VxpZm9ybmlh 3QuY2lzY28xFDAS	
4		>			BgN NWI	VBAoTC3ZJUHRIbGEgSW5j MtNDYyYS1hNzE3LTVmMDE	MUMwQQYDVQQDEzp zYjMxZDUyZi0wLnZp	2bWFuYWdlLTkyN cHRIbGEuY29tMSI	AzAyZTcSLWMw IwIAYJKoZI	
		· .			AQ8	NAQKBFhNzdXBwb3J0QHZp AMIIBCgKCAQEAp4czwUdw	cHRIbGEuY29tMIIBIJA /qa/GpfQS0hmcuJw/ls	NBgkqhkiG9w0BA aNINMGKKGb6Rf8	IQEFAAOC 3bKqe6m/8l	
					JGy: Vng	sSfqad3lg4dl3PqM9L9bHYg 2Y+qAlKfVTPHykg8EigbZyC	CeVkFn9bjpMzuTKo0 YSsk/XvOmfxYFWGpP	XW26zhHW+Pcfsl wTM4DPclvbiaU	ASCIMISZ BICR4Ae5x 9313vvY	
_		í I			Fdw Hlw	EqJ/nUVj6dd6kOGtDPddlRx ISsWfuChJ76dBDwmlM4k94	Oiqb9Zm9b710Z0JiAj cyySq8shXXsJmQIDA0	JVnQi+dJmd0ttX ABoDsw0QYJKoJ	2h0M29 ZihveNAQkO	
		~			MSv	wwKjAJBgNVHRMEAjAAMBI	0GA1UdDgQWBBQwKI	AQSk4Q40j9CwOr	n0VbaJ0MSaSjAN	
										Close



≡	cisco Cisco vi	/lanage								
	Dashboard		İ TASI	K VIEW						
▫	Monitor	>	Install C	ertificate						
\$	Configuration >									
	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		1	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	>								



Passaggio 6. Ripristina Il Database

<#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

Questa operazione richiede più tempo e dipende dal backup.

È possibile verificare il processo tailing consente di accedere a vShell.

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

Passaggio 7. Controlla servizi

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

Passaggio 8. Riautentica controller

Al momento, è possibile osservare che tutti i criteri, i modelli e le configurazioni sono stati caricati in vManage, ma tutti i controller sono inattivi.

≡	cisco Cisco vi	Manag	e				
8	Dashboard		DASHBOARD				
□	Monitor	>	2↓	3↓	2 ↓	10	
۵	Configuration	>	vSmart - 2	WAN Edge - 3	vBond - 2	vManage	e - 1
٩	Tools	>	Control Status (Total 5)	S	ite 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 connectivity	U sites	100 M
			Control Down	0	S No WAN Connectivity	0 sites	> 500
			WAN Edge Inventory	w	VAN Edge Health (Total 0)		Transp
			Total	16			
			Authorized	16	0 0	0	
			Deployed	3			
_			Staging	0	Normal Warning	Error	

È necessario riautenticare tutti i controller.

Passa a Configuration > Devices. Modificare ciascun controller e immettere l'indirizzo IP di gestione (l'indirizzo IP di gestione si trova nella configurazione locale), il nome utente e la password.

=	cisco vManage	2									
	Dashboard	CONFIGURATIO	N DEVICES								
	Monitor >	WAN Edge List Controllers									
٠	Configuration >	◆ Add Controller ▼									
	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										

Passaggio 9. Invia aggiornamenti ai controller

≡	Cisco VMana	cisco vManage											
	Dashboard	¢ co	CONFIGURATION CERTIFICATES										
▫	Monitor >	WAN	/AN Edge List Controllers										
٠	Configuration	_											
	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			
	Templates	>	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	>	vSmart	vsmart_rtp	1.2.2.2	21 Apr 2023 7:49:00 PM CDT	7c5bf5ab-6a8	vBond Updated	100	36			

≡	cisco vManage										
	Dashboard		CONFIGURATIO	N CERTIFICATES							
□	Monitor >		WAN Edge List	Controllers							
٠	Configuration >	-	- Send to Controllers								
	Devices		0			Paranta Ondiana Int					
	Certificates		Q			search uptions V					
			State	Device Model	Chass	sis Number		IP Address+	Serial No./Token		
	Network Design		e	vEdge Cloud	ceaf1	eb3-62cf-059d-634a-5649fca28125	Site03_vEdge	1.1.1.6	EB0C7777		
	Templates		Q	C1101-4P	C1101	1-4P-FGL221792P7	Site01_C1101	1.1.1.5	01633D8F		
	rempiates		e	ISR4451-X	ISR44	51-X/K9-F0C16491MWM	Site02_ISR44	1.1.1.4	F42E		
	Policies		٢	CSR1000v	CSR-9	53188C0-2D85-5D48-A24A-2CEEE71	-		Token - 40fcfc5d96bc40fcc39a0d7bfbc7		
			(8)	CSR1000v	CSR-9	1AA7B9A-C7E7-B8E9-F205-15B7322		-	Token - 18bb348fdefc64ef3b5712046cct		

Ora è possibile vedere che tutti i dispositivi possono essere gestiti da 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 Down						No WAN Connectivity O sites					
			WAN Edge Inventory					WAN Edge Health (Total 2)				
			Total		15	\frown \frown \frown					100 %	
			Authorize	d		15						
			Dealers d								50 %	
			Depioyed			3		\smile				
			Staging			0		Normal	Warning	Error		0
			-									
			тор Аррис	ations		÷ 0	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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