재해 복구를 통해 독립형 vManage 복구

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소개

이 문서에서는 configuration-db 백업을 활용하여 vManage를 복원하는 단계에 대해 설명합니다.

배경 정보

이 문서에서는 컨피그레이션 DB 백업이 정기적으로 수행되었으며 어떤 이유로 독립형 vManage를 복구할 수 없으며 소프트웨어를 재설정하거나 새로 설치해야 한다고 가정합니다.

이 문서에서는 모든 정책, 템플릿, 컨피그레이션 및 에지 디바이스 인증서를 복구하는 데 도움이 됩니다.

백업 구성 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

외부 서버에 scp합니다.

vManage 복구

다음 명령을 사용하여 vManage를 재설정하여 재해를 시뮬레이션합니다.

vManage_rcdn01# request software reset

표시된 것과 같은 새로운 vManage가 있으므로 백업을 복원하기 전에 올바른 순서로 복구 프로세스 를 따르는 것이 좋습니다.

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55	Dashboard		B DASHBOARD			
- •	Monitor	> 、	vSmart - 0	WAN Edge - 0	vBond - 0 wMa	1 C Reboot 1 Warning 0 Invalid 1
ž	Tools		Control Status (Total 0)		Site Health (Total 0)	Transport Interface Distribution
÷	Maintenance		Control Up	0	Full WAN Connectivity 0 sites	s < 10 Mbps 0
	Administration					10 Mbps - 100 Mbps 0
	vAnalytics		Partial		Partial WAN Connectivity 0 sites	s 100 Mbps - 500 Mbps 0
			Control Down	0	No WAN Connectivity 0 sites	> 500 Mbps 0
						View Percent Utilization
			WAN Edge Inventory		WAN Edge Health (Total 0)	Transport Health Type: By Loss • = C
			Total	0		
			Authorized	0	0 0 0	
			Deployed	0		
			Staging	0	Normal Warning Error	

1단계. vManage의 최소 구성

```
system
                       vManage_rcdn01
host-name
system-ip
                       xx.xx.xx.xx
site-id
                       100
organization-name
                       ****.cisco
vbond vbond.list
 I
1
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
!
```

2단계. 백업 구성 및 루트 인증서 복사

<#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:
```

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 00:0

3단계. 루트 인증서 설치

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

4단계. 기본 정보 업데이트

탐색 Administration > Settings vBond IP, Organization Name 및 Certificate에 대한 기본 정보를 구성합니다.

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	Dashboard			ADMINISTRATION SETTINGS												
▫	Monitor			Organization Name	a st.cisco					View	Edit					
۵	Configuration			vBond	vbond t : 12346					View	Edit					
٩	Tools			Email Notifications	Disabled					View	Edit					
÷	Maintenance	>		Controller Certificate Authorization	Enterprise	v										
<u></u>	Administration	>	ſ	WAN Edge Cloud Certificate Authorization	Automated					View	Edit					
	Settings			Web Server Certificate	12 Jul 2024 5:30:30 PM				c	SR Certi	ificate					
	Manage Users			Enforce Software Version (ZTP)						View	Edit					
	Cluster Manageme			Banner	Disabled					View	Edit					
	Integration Manag	gration Management Reverse Proxy		Reverse Proxy	Disabled					View	Edit					
1.	vAnalytics	>		Statistics Setting						View	Edit					

5단계. vManage 인증서 설치

이 root.crt 2단계에서 설치됩니다.







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shboard		DASHBOARD)														
	>	•	vSmart - 0	8	WAN Edge - 0		•	vBond - 0		1 S vManag	e - 1	Reboot Last 24 hrs	1		0	Warning Invalid	0
nfiguration	>	Control Charles of	(F-1-1-0)				Oles Haalah (Tatal O)										
	>	Control Status ((Iotal U)			-	Site Health (Total U)				ransport interface visitibution						
aintenance	>	Control Up			0		Full WAN Connect	0 sites	< 10 M	lbps	0						
	>	Destial									10 Mb	ps - 100 Mbps		0			
nalvtics	>	Partial					Partial WAN Con	100 Mbps - 500 Mbps						0			
		Control Down 0					O sites					Mbps					0
										0 unco			View Pe	rcent Utiliz	ation		
		WAN Edge Inver	ntory			1	WAN Edge Health (Tota	10)			Transp	ort Health				Type: By Loss	$\bullet \equiv 0$
		Total			0												
		Authorized	Authorized 0				0	0	0								
		Deployed 0															
		Staging 0) Normal Warning Error											
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6단계. 데이터베이스 복원

<#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 t 4 [main] INFO com.viptela.vmanage.server.deployment.cluster.ClusterConfigurationFileHandler - Working 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/grap 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

이 단계는 시간이 더 걸리고 백업에 따라 달라집니다.

다음 방법으로 프로세스를 확인할 수 있습니다. tailing vShell에 로그온합니다.

<#root>

vManage_rcdn01:~\$

tail -fq /var/log/nms/vmanage-server.log /var/log/nms/neo4j-out.log

7단계. 서비스 확인

vManage_rcdn01# request nms all status

8단계. 컨트롤러 재인증

현재 모든 정책, 템플릿 및 컨피그레이션이 vManage에 로드되었지만 모든 컨트롤러가 다운되었음 을 확인할 수 있습니다.

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55	Dashboard		## DASHBOARD									
	Monitor	>	2↓ vSmart - 2 3 WAN E	↓ dge - 3		1 © lanage	-1	Reboot Last 24 hrs	1		S Warnin Invalid	ng 0 0
÷ 4	Configuration Tools		Control Status (Total 5)		Site Health (Total 3)		Transpor	t Interface Dist	ribution			
÷	Maintenance		Control Up	5	Full WAN Connectivity 3 site:	s	< 10 Mb	ps		0		
<u></u>	Administration		Destial				10 Mbps	s - 100 Mbps				0
11.	vAnalytics		Paluai	-	Partial WAN Connectivity 0 site	55	100 Mbp	ps - 500 Mbps	0			
			Control Down	0	No WAN Connectivity 0 site:	5	> 500 M	bps			0	
									View Pe	rcent Utili	ration	
			WAN Edge Inventory		WAN Edge Health (Total 0)		Transpor	t Health			Type: E	yLoss e ≂ ⊡
			Total	16								
			Authorized	16	0 0 0							
			Deployed	3								
			Staging	0	Normal Warning Error							

모든 컨트롤러를 다시 인증해야 합니다.

탐색 Configuration > Devices. 각 컨트롤러를 수정하고 관리 IP 주소(관리 IP는 로컬 컨피그레이션에서 찾 을 수 있음) 사용자 이름 및 비밀번호를 입력합니다.

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55	Dashboard	Г	CONFIGURATION	DEVICES											
	Monitor >		WAN Edge List Co	ntrollers											
-			 Add Controller • 	() Change Mode 💌										00	
	Configuration >		0		Search Options 🗸									Total I	Rows: 6
	Devices		Controller Tune	Mosteame	Sustam ID	Site ID	Mode	Assigned Template	Davica Status	Cartificate Stat	Policy Name	Policy Version		LILUD.	
			vManage	-	-	-	CLI	-	In Sync	Installed	-	-		acdaf52	
	Network Design		vManage	vManage_rcdn01	1.11.11.11	100	CLI	-	In Sync	Installed	-	-		92302e	
			vSmart	vsmart	1.1.1.2	100	CLI		In Sync	Installed				0e3ce6	
	Templates		vSmart	vsmart_rtp	1.2.2.2	100	CLI	-	In Sync	Installed	-	-		7c5bf5a	
			vBond	vbond	1.1.1.3	100	CLI		In Sync	Installed	-	-		30b8e0	
	Cocurity		vBond	vbond_rtp	1.1.2.2	100	CLI	-	In Sync	Installed	-		Running	Configura	ation
													Local Co	onfiguratio	m
		aS											Templat	le Log	
													Invalida	te	
	Network Hub												Device 8	Bring Up	

9단계. 컨트롤러에 업데이트 보내기

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	Dashboard	٩	CONFIGURATION	CERTI	IFICATES								1 Install C	ertificate
	Monitor >	1	WAN Edge List	ontrolle	rs									
\$	Configuration	>	 Send to vBond 											
	Devices												0	99
	0-16-1		Q	L s									Tot	al Rows: 6
	Certificates		> Controller Typ	e	Hostname	System IP	Expiration Date	uuid	Operation Status	Site ID	Certificate Serial	vEdge List St	Device IP	
	Network Design		> vBond		vbond	1.1.1.3	28 Mar 2023 8:33:00 PM CDT	30b8e052-3c	Installed	100	068BCFF16E5D1CE4	Sync	10	
	Templates		> vBond		vbond_rtp	1.1.2.2	20 Apr 2023 2:07:00 PM CDT	9ff911c1-f1a2	Installed	100	27630C538F9BD950	Sync	1. 7	
	remplates		> vSmart		vsmart	1.1.1.2	21 Apr 2023 8:02:00 PM CDT	0e3ce626-b1	vBond Updated	100	4E103617F5961C5D	Sync	1 7	
	Policies		> vSmart		vsmart_rtp	1.2.2.2	21 Apr 2023 7:49:00 PM CDT	7c5bf5ab-6a8	vBond Updated	100	3620573D1767DCC9	Sync	100000	

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	Dashboard	CONFIGURATION	CERTIFICATES											
	Monitor >	WAN Edge List Co	ontrollers											
*	Configuration >	Send to Controllers												
										(000			
	Devices	Q		Search Options V							Total Rows: 15			
	Certificates	Circle .	Device Madel	Character Mumber	Mandanana	10 Address b	Carded Mar (Talvar	Malida						
	Network Decise	State	Device Model	chassis reamber	Rite02 vEdee	IP Address*	Senai No.J Token	Valida	ee d. I. Stanion, I. Ma					
	Network Design	×	veage cloud	Cearrep3-0201-0590-03-48-004910828125	Siteua_veoge	1.1.1.0	EBOC////		o I Staging I va					
	Templates	¥	C1101-4P	C1101-4P-FGL221792P7	Site01_C1101	1.1.1.5	01633D8F		d Staging Va					
		Q	ISR4451-X	ISR4451-X/K9-F0C16491MWM	Site02_ISR44	1.1.1.4	F42E	Invali	d Staging Va	Jid				
		۲	CSR1000v	CSR-953188C0-2D85-5D4B-A24A-2CEEE71	-	-	Token - 40fcfc5d96bc40fcc39a0d7bfbc7e354	Invali	d Staging Va	lid				
			CSR1000v	CSR-91AA7B9A-C7E7-B8E9-F205-15B7322	-	-	Token - 18bb348fdefc64ef3b5712046ccbd774	Invali	d Staging Va	hid				

이제 vManage에서 모든 디바이스를 관리할 수 있습니다.

≡	cisco Cisco v	Manag	e								•	• 8	# © @	admin 🤊		
-			DASHB0	ARD												
	Monitor Configuration	> >	•	2 ↑ vSmart - 2	8	3 ↑ WAN Edge - 3	•	2 ↑ vBond - 2	1 vManag	ie - 1	Reboot Last 24 hrs	3	Warning Invalid	0		
4	Tools	\$	Control Sta	tus (Total 4)			Site Health (Total 2)			Transport	t Interface Distri	bution				
ì	Maintenance	\$	Control Up			4	Full WAN Con	nectivity	2 sites	< 10 Mbp	ps			9		
	Administration	\$	Destial							10 Mbps	- 100 Mbps			0		
_	uApplution	,	Partial				Partial WAN C	onnectivity	0 sites	100 Mbp	os - 500 Mbps			0		
۵	vAnalytics	í	Control Do	wn		0	O No WAN Conn	ectivity	0 sites	> 500 Mb	bps			0		
									View Percent Utilization							
			WAN Edge	Inventory			WAN Edge Health (To	otal 2)		Transport	t Health	Type: By Los	a ∎ = □			
			Total			15	\frown	· · ·	· · ·	100 %						
			Authorized	1		15	$\begin{pmatrix} 2 \end{pmatrix}$	0	0							
			Deployed			3	\Box	Ú	<u> </u>	50 %						
			Staging			0	Normal	Warning	Error							
										0 •				•		
			Top Applica	ations		⊽ 0	Application-Aware R	outing					Type: By	Loss 🕈 🖸		
							Tunnel Endpoir	its	Avg. Latency (ms)	Aug. Lo	uss (%)	A	g. Jitter (ms)			
							Site02_ISH445	ridefault-Site03_vEdge_Cloud	32.167	0.013		3/	.333			
				No data	to display		Site02_ISR445	1:default-Site01_C1101:default	32	0		0				
							Site01_C1101:default-Site03_vEdge_Cloud:d 25.917					41	.083			
							•									

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55	Dashboard	CONFIGURATION TEM	PLATES								
	Monitor >	Device Feature									
•	Configuration >	Add Template									00
		Template Type Non-Default	- Q		Search Options 🐱					Total R	Rows: 10
		Name	Description	Туре	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	
	Network Design	Default_AAA	Default AAA template settin	ААА	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	
	Templates	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	
	Policies	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	
	Cloud onRamp for SaaS	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	
	Network Hub										

이 번역에 관하여

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