通過災難恢復恢復獨立vManage

目錄

簡介

本文檔介紹通過使用配置資料庫備份還原vManage所涉及的步驟。

背景資訊

本文檔假定已定期進行配置資料庫備份,由於某種原因,獨立vManage不可恢復,需要軟體重置或 新安裝。

本文檔可幫助您恢復所有策略、模板、配置和邊緣裝置證書。

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到外部伺服器。

vManage_rcdn01# vshell vManage_rcdn01:~\$ scp /opt/data/backup/05_08_20_configdb.tar.gz user@10.2.3.1://home/ftpuser/ftp/amaugu amaugust@10.2.3.1's password:

恢復vManage

通過命令重置vManage來模擬災難:

vManage_rcdn01# request software reset

現在,您已經有了新的vManage(類似於所示的vManage),建議在恢復備份之前按照正確的順序 執行恢復過程。

≡	cisco Cisco vi	Aanag	ge							•	•	Ð	۰	ø	
86	Dashboard		DASHBOARD												
Q	Monitor		vSmart - 0	WAN Edge - 0		vBond - 0		1 👁 vManag	e - 1	Reboot Last 24 hrs	1		<u>n</u>	Warning Invalid	0
*	Configuration		Control Status (Total 0)		Si	Site Health (Total 0)			Transpor	rt Interface Distrib	ution				
ì	Tools Maintenance		Control Up	0		Full WAN Connectivity		0 sites	< 10 Mb	ps					0
-	Administration							U sites	10 Mbps	s - 100 Mbps					0
8	vAnalytics		Partial	0	1	Partial WAN Connectivity		0 sites	100 Mb;	ps - 500 Mbps			0		
			Control Down	0		O No WAN Connectivity		0 sites	> 500 M	lbps					0
										٧	New Per	cent Utilia	ation		
			WAN Edge Inventory		w	WAN Edge Health (Total 0)			Transpor	rt Health				Type: By Loss	$\bullet = \Box$
			Total	0											
			Authorized	0		0 0	0								
			Deployed	0											
			Staging	0		Normal Warning	Error								

步驟 1.vManage上的最低配置

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

步驟 2.復製備份配置和根證書

<#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

步驟 3.安裝根證書

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

步驟 4.更新基本資訊

導航至 Administration > Settings 並配置vBond IP、組織名稱和證書的基本資訊。

≡	cisco VM	anag	e			•	Û		0	admin
	Dashboard			ADMINISTRATION SETTINGS						
▫	Monitor	>		Organization Name	a st.cisco				View	Edit
٠	Configuration	>		vBond	vbond t: 12346				View	Edit
٩	Tools	>		Email Notifications	Disabled				View	Edit
÷	Maintenance	>		Controller Certificate Authorization	Enterprise				View	Edit
# %	Administration	>	ſ	WAN Edge Cloud Certificate Authorization	Automated				View	Edit
	Settings		ľ	Web Server Certificate	12 Jul 2024 5:30:30 PM			с	SR Certi	ficate
	Manage Users			Enforce Software Version (ZTP)					View	Edit
	Cluster Manageme	nt		Banner	Disabled				View	Edit
	Integration Manage	ment		Reverse Proxy	Disabled				View	Edit
	vAnalytics	>		Statistics Setting					View	Edit

步驟 5.安裝vManage證書

使用 root.crt 安裝在Step 2。







cisco vMa	anage	2											٠	ê	٠	Ø	admin 👻
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)				Transp	ort Interface Di	tribution				
aintenance	>	Control Up			0		Full WAN Connect	ctivity		0 sites	< 10 M	lbps					0
	>	Destial									10 Mb	ps - 100 Mbps					0
nalvtics	>	Partial					Partial WAN Con	nectivity		0 sites	100 M	bps - 500 Mbps					0
		Control Down			0		8 No WAN Connect	tivity		0 sites	> 500	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			0		0	0	0								
		Deployed			0												
		Staging			0		Normal	Warning	Error								
	shoord nitor nfiguration ols intenance ministration nalytics	shboard initor > infiguration > als > intenance > ministration > nalytics >	It is co vManage ahboard It DASHBOARD nitor > nfguration > ols > control Status in intenance > ministration > nalytics > WAN Edge Inveg Total Authorized Deployed Staging	skiboard III DASHBOARD nitor > nfiguration > ols > control Status (Total 0) intenance Control Up ministration > nalytics > WAN Edge Inventory Total Authorized Deployed Staging	skboard III DASHBOARD nitor > nfguration > ols > control Status (Total 0) intenance Control Up ministration > nalytics > WAN Edge Inventory Total Authorized Deployed Staging	skboard If DASHBOARD nitor > nfguration > ols > Control Status (Total 0) intenance Control Up ministration > Partial 0 Control Down 0 WAN Edge Inventory 0 Authorized 0 Staging 0	skibbard I DASHBOARD nitor > nfguration > ols > ols > control Status (Total 0) 0 ministration > nalytics > WAN Edge Inventory 0 WAN Edge Inventory 0 Deployed 0 Staging 0	sklobard If DASHBOARD nitor > nfguration > >ls > Control Status (Total 0) Image: Control Up Control Up 0 Partial 0 Partial 0 Control Down 0 WAN Edge Inventory WAN Edge Health (Total 0) WAN Edge Inventory 0 Muthorized 0 Deployed 0 Staging 0	sklovard If DASHBOARD nitor > nfguration > >linternance > ministration > nalytics > WAN Edge Inventory WAN Edge Inventory WAN Edge Inventory 0 Normal 0 Normal Warning	skboard If DASHBOARD nitor > nfguration > ols > control Status (Total 0) intenance oninistration > nalytics > WAN Edge Inventory Beployed Staging Warning	skboard If DASHBOARD nitor > nfguration > ols > control Status (Total 0) Site Health (Total 0) control Up 0 Partial 0 Partial 0 Control Down 0 WAN Edge Inventory WAN Edge Health (Total 0) WAN Edge Inventory WAN Edge Health (Total 0) Normal Warning Error Normal	Inition > Inition </th <th>thourd If DASHBOARD nitor > pfguration > ols > ols > ontrol Status (Total 0) Site Health (Total 0) Oentrol Status (Total 0) Image-1 Partial 0 Partial 0 Control Down 0 WAN Edge Inventory 0 sites WAN Edge Inventory 0 sites WAN Edge Inventory 0 Total 0 Deployed 0 Staging 0</th> <th>Liboard I DASHBOARD nitor I DASHBOARD I DASHBO</th> <th>shboard Site DASHBOARD nitor > pfguration > ob > obs ><</th> <th>choard I DASHBOARD nitor > nfguration > obscription Control Status (Total 0) Control Up 0 Partial 0 Control Down 0 Control Down 0 Total 0 Total 0 Total 0 Total 0 Total 0 Staging 0 Normal Warning Below 0 Normal Warning</th> <th>control Status (Total 0) Control Status (Total 0) Control Status (Total 0) Control Own Control Own Control Own Control Own Control Own Control Control Control Control Own Control Own Control Own Control Own Control Own Control Control Control Own Control Own Control Cont</th>	thourd If DASHBOARD nitor > pfguration > ols > ols > ontrol Status (Total 0) Site Health (Total 0) Oentrol Status (Total 0) Image-1 Partial 0 Partial 0 Control Down 0 WAN Edge Inventory 0 sites WAN Edge Inventory 0 sites WAN Edge Inventory 0 Total 0 Deployed 0 Staging 0	Liboard I DASHBOARD nitor I DASHBOARD I DASHBO	shboard Site DASHBOARD nitor > pfguration > ob > obs ><	choard I DASHBOARD nitor > nfguration > obscription Control Status (Total 0) Control Up 0 Partial 0 Control Down 0 Control Down 0 Total 0 Total 0 Total 0 Total 0 Total 0 Staging 0 Normal Warning Below 0 Normal Warning	control Status (Total 0) Control Status (Total 0) Control Status (Total 0) Control Own Control Own Control Own Control Own Control Own Control Control Control Control Own Control Own Control Own Control Own Control Own Control Control Control Own Control Own Control Cont

<#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

此步驟需要更多時間,具體取決於備份。

您可以通過以下方式驗證該流程: tailing vShell上的日誌。

<#root>

```
vManage_rcdn01:~$
```

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

步驟 7.檢查服務

vManage_rcdn01# request nms all status

步驟 8.重新驗證控制器

目前,您可以觀察到所有策略、模板和配置都已載入到vManage中,但所有控制器均已關閉。

=	cisco Visco vi	Manag	;e										•	Ê	* 0	0	admin 🗸
55	Dashboard		E DASHBOA	RD													
▫	Monitor	>	8	2 🗸	8	3↓		2 4	6	10		Reboot	1		Ø War	ing	0
٠	Configuration	>	-	vsmart - z	-	WAN Edge - 3		vBond - 2	-	vmanag	e - 1				** IIva		0
٩	Tools	>	Control Statu	is (Total 5)			Site Health (Total 3)				Transpo	ort Interface Dist	tribution				
÷	Maintenance	>	Control Up			5	Full WAN Connectivity 3 sites					bps					0
**	Administration	>	Destial				Partial WAN Consectivity				10 Mbp	os - 100 Mbps			0		
63	vAnalytics	,	Partial				Partial WAN Connectivity 0 sites					ops - 500 Mbps			0		
			Control Dow	n		0	No WAN Connectivity 0 sites					Mbps					0
													View Per	cent Utiliz	ation		
			WAN Edge In	ventory			WAN Edge Health (To	tal 0)			Transpo	ort Health			Type:	By Loss	• = 0
			Total			16											
			Authorized			16	0	0	0								
			Deployed 3														
			Staging			0	Normal Warning Error										

您需要重新驗證所有控制器。

導航至 Configuration > Devices.編輯每個控制器並填寫管理IP地址(管理IP可以在本地配置中找到)使用 者名稱和密碼。

=	cisco VMana	age									•	â	* 0	0	admin 👻
	Dashboard	1	CONFIGURATION	DEVICES											
	Monitor >		WAN Edge List Co	ntrollers											
*	Configuration N		Add Controller •	🗇 Change Mode 👻										0	00
*	configuration 2		Q		Search Options 🗸									Tota	I Rows: 6
	Devices		Controller Type	Hostname	System IP	Site ID	Mode	Assigned Template	Device Status	Certificate Stat.	Policy Name	Policy Vers	ion	UUID	
			vManage		-	-	CLI	-	In Sync	Installed	-	-		acdaf5	2
	Network Design		vManage	vManage_rcdn01	1.11.11.11	100	CLI	-	In Sync	Installed	-	-		92302e	
			vSmart	vsmart	1.1.1.2	100	CLI	24	In Sync	Installed	14			0e3ce6	
	Templates		vSmart	vsmart_rtp	1.2.2.2	100	CLI	-	In Sync	Installed	-	-		7c5bf5	
	Policies		vBond	vbond	1.1.1.3	100	CLI	-	In Sync	Installed	-			30b8e0	
			vBond	vbond_rtp	1.1.2.2	100	CLI	-	In Sync	Installed			Dura	nunss.	
	Security												Local	Configurat	tion
	Cloud onRamp for Saas	s											Temp	late Log	
													Edit		
	Cloud onRamp												Invali	date	
	Network Hub												Devic	e Bring Up	

步驟 9.將更新傳送到控制器

≡	cisco VMana	age									•	ê j	i <mark>lo</mark> 0	admin 🔻
	Dashboard	4	¢ co	NFIGURATION CERTIF	ICATES								1 Insta	Il Certificate
▫	Monitor >		WAN	Edge List Controller	5									
٠	Configuration >	L	- 54	ia to veona										
	Devices													908
	Certificates		Q			Search Options 👻								Total Rows: 6
_	Certificates		2	Controller Type	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	10.000.000	17
	Templates		>	vBond	vbond_rtp	1.1.2.2	20 Apr 2023 2:07:00 PM CDT	9ff911c1-f1a2	Installed	100	27630C538F9BD950	Sync	121.00	7
	remplates		>	vSmart	vsmart	1.1.1.2	21 Apr 2023 8:02:00 PM CDT	0e3ce626-b1	vBond Updated	100	4E103617F5961C5D	Sync	10.000	7
	Policies		>	vSmart	vsmart_rtp	1.2.2.2	21 Apr 2023 7:49:00 PM CDT	7c5bf5ab-6a8	vBond Updated	100	3620573D1767DCC9	Sync	1	1

=	Cisco vMana	ige						4	• ê	*	0	admin
55	Dashboard	\$	CONFIGURATION	CERTIFICATES								
_	Monitor >		WAN Edge List Co	ntrollers								
_		2	Send to Controllers									
٠	Configuration >										•	00
											Q	99
	Certificates		Q		Search Options 🗸						Tota	il Rows: 15
	Gerundates		State	Device Model	Chassis Number		IP Address+	Serial No./Token	Validate			
	Network Design		e	vEdge Cloud	ceaf1eb3-62cf-059d-634a-5649fca28125	Site03_vEdge	1.1.1.6	EB0C7777	Invalid Stagi	ng Valid		
	Templates		0 M	C1101-4P	C1101-4P-FGL221792P7	Site01_C1101	1.1.1.5	01633D8F	Invalid Stagi	ng Valid		
			0	ISR4451-X	ISR4451-X/K9-F0C16491MWM	Site02_ISR44	1.1.1.4	F42E	Invalid Stagi	ng Valid		
			۲	CSR1000v	CSR-953188C0-2D85-5D4B-A24A-2CEEE71	-	-	Token - 40fcfc5d96bc40fcc39a0d7bfbc7e354	Invalid Stagi	ng Valid		
			(i)	CSR1000v	CSR-91AA789A-C7E7-88E9-F205-15B7322	-	-	Token - 18bb348fdefc64ef3b5712046ccbd774	Invalid Stagi	ng Valid		

現在,您會看到所有裝置都可以通過vManage進行管理。

≡	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
												/iew Percent Util	ization	
			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		
								0		41	.083			
							•							

≡	Cisco vManag	ge						•	Û	*0	0	admin 🥆
	Dashboard	CONFIGURATION TEM	PLATES									
□	Monitor >	Device Feature										
•	Configuration >	• Add Template										96
	Devices	Template Type Non-Default	· Q		Search Options 🐱						Total R	.ows: 10
	ocheco	Name	Description	Туре	Device Model	Device Templates	Devices Attached	Updated By	Las	t 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	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	
	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 8:11	:38 AM C	
		vEdge_VPN_512	VPN 512 add default route	WAN Edge VPN	C1111-4PLTEEA C1117-4P	0	0	admin	23	Apr 2020 9:33	: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	5:37 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											

關於此翻譯

思科已使用電腦和人工技術翻譯本文件,讓全世界的使用者能夠以自己的語言理解支援內容。請注 意,即使是最佳機器翻譯,也不如專業譯者翻譯的內容準確。Cisco Systems, Inc. 對這些翻譯的準 確度概不負責,並建議一律查看原始英文文件(提供連結)。