通过灾难恢复恢复独立vManage

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简介

本文档介绍通过使用配置数据库备份恢复vManage所涉及的步骤。

背景信息

本文档假定已定期进行配置db备份,并且由于某些原因,独立vManage不可恢复,需要重置软件或 进行新安装。

本文档可帮助您恢复所有策略、模板、配置和边缘设备证书。

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到外部服务器。

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:

恢复vManage

通过命令重置vManage模拟灾难:

vManage_rcdn01# request software reset

现在,您有一个新的vManage,与图中所示的类似,建议在恢复备份之前,按照正确的顺序执行恢 复过程。

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	Monitor	>	vSmart - 0	WAN Edge - 0	vBond - 0	Reboot 1 Remining Invalid	0
ې د	Configuration		Control Status (Total 0)		Site Health (Total 0) Trans	sport Interface Distribution	
÷	Maintenance		Control Up	0	Full WAN Connectivity O sites < 10 I	Mbps	0
*	Administration		Partial	0	10 M Partial WAN Connectivity O sites	lbps - 100 Mbps	0
8	vAnalytics				> 500	Mbps - 500 Mbps 0 Mbps	0
			Control Down		No WAN Connectivity 0 sites	View Percent Utilization	
			WAN Edge Inventory		WAN Edge Health (Total 0) Transj	port Health Type: By Loss	• = D
			Total	0			
			Authorized	0	0 0 0		
			Deployed	0			
			Staging	0	Normal Warning Error		

步骤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
 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
 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
!
```

第二步:复制备份配置和根证书

<#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:

100% 1380

2.8MB/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

第三步:安装根证书

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

第四步:更新基本信息

导航至 Administration > Settings 并配置vBond IP、组织名称和证书的基本信息。

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	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
<u> - 11</u>	Administration	>	ſ	WAN Edge Cloud Certificate Authorization	Automated				View	Edit
	Settings			Web Server Certificate	12 Jul 2024 5:30:30 PM			с	SR Certi	ificate
	Manage Users			Enforce Software Version (ZTP)					View	Edit
	Cluster Manageme			Banner	Disabled				View	Edit
	Integration Manag	ement		Reverse Proxy	Disabled				View	Edit
1.	vAnalytics	s > Statistics Setting							View	Edit

第五步:安装vManage证书

请使用 root.crt 安装在Step 2中。







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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)				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	$\bullet \equiv 0$
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第六步:恢复数据库

<#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

此步骤需要较长时间,具体取决于备份。

您可以通过以下方式验证该流程: tailing vShell上的日志。

<#root>

```
vManage_rcdn01:~$
```

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

步骤 7.检查服务

vManage_rcdn01# request nms all status

步骤 8重新验证控制器

目前,您可以观察到所有策略、模板和配置都已加载到vManage中,但所有控制器均已关闭。

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8	Dashboard		E DASHBOA	RD													
▫	Monitor	>	8	2 🗸	8	3↓		2↓		10		Reboot	1		Warr	ing	0
۰	Configuration	>	-	vomart - 2	-	WAN Edge - 3	•	VBond - 2	-	vmanag	e - 1				4 the linear	•	0
٩	Tools	>	Control Statu	is (Total 5)			Site Health (Total	3)			Transpo	ort Interface Dist	ribution				
ŝ	Maintenance	>	Control Up			5	Full WAN C	onnectivity		3 sites	< 10 M	bps					0
	Administration	>	Dartial							-	10 Mbp	os - 100 Mbps					0
	vAnalytics	,	Farcial				Partial WAN	V Connectivity	100 Mb	ops - 500 Mbps					0		
			Control Dow	n		0	S No WAN Co	onnectivity		0 sites	> 500 N	Mbps					0
													View Perc	ent Utiliz	ation		
			WAN Edge In	ventory			WAN Edge Health	(Total 0)			Transpo	ort Health			Type:	By Loss d	• = 0
			Total			16											
			Authorized			16	0	0	0								
			Deployed			3											
			Staging			0	Normal	Warning	Error								

您需要对所有控制器重新进行身份验证。

导航至 Configuration > Devices.编辑每个控制器并填写管理IP地址(管理IP可以在本地配置中找到)用户 名和密码。

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	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	

步骤 9将更新发送到控制器

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	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

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5	Dashboard	1	CONFIGURATION	CERTIFICATES									
	Monitor >		WAN Edge List Co	ntrollers									
-	Conformation		Send to Controllers										
	Configuration >			·								0	00
			0									Tota	Baue: 15
	Certificates		Q		Search Options 🗸							1000	110043.15
_			State										
	Network Design		e	vEdge Cloud	ceaf1eb3-62cf-059d-634a-5649fca28125	Site03_vEdge	1.1.1.6	EB0C7777		lid Staging	Valid		
	Templates		e R	C1101-4P	C1101-4P-FGL221792P7	Site01_C1101	1.1.1.5	01633D8F	Inva	lid Staging	Valid		
	remplates		e R	ISR4451-X	ISR4451-X/K9-F0C16491MWM	Site02_ISR44	1.1.1.4	F42E	Inva	lid Staging	Valid		
			۲	CSR1000v	CSR-953188C0-2D85-5D48-A24A-2CEEE71	-	-	Token - 40fcfc5d96bc40fcc39a0d7bfbc7e354	Inva	lid Staging	Valid		
			(i)	CSR1000v	CSR-91AA7B9A-C7E7-B8E9-F205-15B7322	-	-	Token - 18bb348fdefc64ef3b5712046ccbd774	Inva	lid Staging	Valid		

现在,您会看到所有设备都可以通过vManage进行管理。

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55	Dashboard		DASHBO	ARD										
	Monitor Configuration	> >		2 ↑ vSmart - 2	8	3↑ WAN Edge - 3	3	2 ↑ vBond - 2	1 😪 vManag	ie - 1	Reboot Last 24 hrs	3	S Warnin Invalid	9 0 0
	Tools		Control Stat	us (Total 4)			Site Health (Total 2)			Transpor	rt Interface Distri	bution		
â	Maintenance	>	Control Up			4	Full WAN Cont	nectivity	2 sites	< 10 Mb	ps			9
**	Administration	>	Partial			0	Partial WAN C	onnectivity	0 sites	10 Mbp	s - 100 Mbps ps - 500 Mbps			0
	vAnalytics	>	Control Dov	wn		0	S No WAN Conn	ectivity	0 sites	> 500 M	0			
											N	/iew Percent Util	ization	
			WAN Edge I	nventory			WAN Edge Health (To	otal 2)		Transpor	rt Health		Type: B	rLoss ♦ \Xi 🗅
			Total			15	\frown	\sim	· · · ·	100 %				
			Authorized Deployed			15 3	2	0	0	50 %				
			Staging			0	Normal	Warning	Error	0				
			Top Applicat	tions		≂ α	Application-Aware Re	outing					Тури	:ByLoss € 🖸
							Tunnel Endpoin	its	Avg. Latency (ms)	Avg. L	oss (%)	A	g. Jitter (ms)	
							Site02_ISR4451	1:default-Site03_vEdge_Cloud	50.5	0.013		37	.333	
				No data	to display		Site01_C1101:	default-Site02_ISR4451:default	32.167	0.012		0		
							SRe02_JSR4451	r:deraum-sneo1_C1101:default	32	0		0	093	

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55	Dashboard	CONFIGURATION TEM	PLATES								
□	Monitor >	Device Feature									
•	Configuration >	Add Template								Ø)
	Devices	Template Type Non-Default	- Q		Search Options 🐱					fotal Rows: 1	0
	ocheco	Name	Description	Туре	Device Model	Device Templates	Devices Attached	Updated By	Last Updated		
	Certificates	vEdge_VPN_0	Default Transport VPN tem	WAN Edge VPN	C1111-4PLTEEA C1117-4P	0	0	admin	23 Apr 2020 9:30:47	M C	8
	Network Design	Default_AAA	Default AAA template settin	AAA	C1111-4PLTEEA C1117-4P	1	1	admin	23 Apr 2020 9:42:40	M C	
	, in the second s	cEdge_VPN_0	Default Transport VPN tem	WAN Edge VPN	C1111-4PLTEEA C1117-4P	1	1	admin	23 Apr 2020 9:31:47	4M 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	M 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	4M C	
		Default_Banner	Banner for amaugust.cisco	Banner	ISR4451-X C1101-4P vEd	1	1	admin	23 Apr 2020 8:17:38	M C	
	Security	vEdge_VPN_512	VPN 512 add default route	WAN Edge VPN	C1111-4PLTEEA C1117-4P	0	0	admin	23 Apr 2020 9:32:40	4M 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	M 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	M C	
	Cloud onRamp	cEdge_VPN_512_Interface	VPN 512 interface config	WAN Edge Interface	C1111-4PLTEEA C1117-4P	1	1	admin	23 Apr 2020 9:34:20	M C	
	Network Hub										

关于此翻译

思科采用人工翻译与机器翻译相结合的方式将此文档翻译成不同语言,希望全球的用户都能通过各 自的语言得到支持性的内容。

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