ディザスタリカバリによるスタンドアロン vManageのリカバリ

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概要

このドキュメントでは、configuration-dbバックアップを使用してvManageを復元する手順につい て説明します。

背景説明

このドキュメントでは、configuration-dbのバックアップが定期的に行われており、何らかの理由 でスタンドアロンのvManageが回復不能であり、ソフトウェアのリセットまたは新規インストー ルが必要であることを前提としています。

このドキュメントは、すべてのポリシー、テンプレート、設定、およびエッジデバイス証明書の 回復に役立ちます。

バックアップ設定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

外部サーバにscpします。

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: 05_08_20_configdb.tar.gz 100% 484KB 76.6MB/s 00

vManageのリカバリ

次のコマンドを使用して、vManageをリセットし、障害をシミュレートします。

vManage_rcdn01# request software reset

ここに示すような新しいvManageが作成されたので、バックアップを復元する前に、正しい順序 でリカバリプロセスを実行することをお勧めします。

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	Monitor		vSmart - 0	WAN Edge - 0	🛞 vBond - 0 🌐	1 © vManage	- 1 Re	boot	1	0	Warning Invalid	0	
\$ ~	Configuration Tools		Control Status (Total 0)		Site Health (Total 0)		Transport Inter	rface Distributi	m				
÷	Maintenance		Control Up	0	Full WAN Connectivity 0 s	sites	< 10 Mbps			0			
**	Administration		Destial				10 Mbps - 100	0 Mbps				0	
8	vAnalytics		Partial		Partial WAN Connectivity 0 s	0 sites			100 Mbps - 500 Mbps				
			Control Down	0	No WAN Connectivity 0 a	sites	> 500 Mbps				0		
			WAN Edge Inventory		WAN Edge Health (Total 0)		Transport Heal	lth			Type: By Loss	$\pmb{a}\equiv \pmb{\Omega}$	
			Total	0									
			Authorized	0	0 0 0								
			Deployed	0									
			Staging	0	Normal Warning Error	Error							

ステップ1:vManageの最小構成

vManage_rcdn01
xx.xx.xx.xx
100
****.cisco

```
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
 1
 ip route 0.0.0.0/0 10.1.3.1
1
vpn 512
 interface eth1
 ip address 10.11.3.8/24
 no shutdown
 1
 ip route 0.0.0.0/0 10.1.3.1
!
```

ステップ2:バックアップ設定とルート証明書のコピー

<#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

ステップ3:ルート証明書のインストール

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

ステップ4:基本情報の更新

移動先 Administration > Settings vBond IP、組織名、および証明書の基本情報を設定します。

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::	Dashboard		-	ADMINISTRATION SETTINGS						
▫	Monitor			Organization Name	a st.cisco				View	Edit
۰	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 Cert	tificate
	Manage Users			Enforce Software Version (ZTP)					View	Edit
	Cluster Managem			Banner	Disabled				View	Edit
	Integration Manag	ement		Reverse Proxy	Disabled				View	Edit
	vAnalytics			Statistics Setting					View	Edit

ステップ 5: vManage証明書のインストール

root.crt ステップ2でインストールします。







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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					
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nalvtics	>	Partial 0					Partial WAN Con	nectivity		0 sites	100 M		0					
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手順6:データベースの復元

<#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

この手順にはより多くの時間がかかり、バックアップによって異なります。

次の手順でプロセスを確認できます。 tailing vShellのログ

<#root>

vManage_rcdn01:~\$

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

手順7:サービスの確認

vManage_rcdn01# request nms all status

ステップ8:コントローラの再認証

現在、すべてのポリシー、テンプレート、および設定がvManageにロードされているが、すべて のコントローラがダウンしていることを確認できます。

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55	Dashboard		III DASHBOARD								
•	Monitor	> 、	2 ↓ Wan vSmart - 2 VSmart - 2	; ↓ Edge - 3	€ 2 ↓ vBond - 2	1 © vManage	- 1 Reboot	1		Warning Invalid	0
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÷	Maintenance		Control Up	5	Full WAN Connectivity	sites	< 10 Mbps		0		
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			Control Down	0	O No WAN Connectivity O	sites	> 500 Mbps				0
								View Pe	ercent Utili	zation	
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			Total	16							
			Authorized	16	0 0 0						
			Deployed	3							
			Staging	0	Normal Warning Error						

すべてのコントローラを再認証する必要があります。

移動先 Configuration > Devicesを参照。各コントローラを編集し、管理IPアドレス(管理IPはローカル 設定で確認可能)のユーザ名とパスワードを入力します。

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55	Dashboard	1	CONFIGURATION	DEVICES											
	Monitor >		WAN Edge List Cor	trollers											
-			Add Controller	🗍 Change Mode 💌										0	AA
	Configuration >		0		Search Options 🗸									Total	Rows: 6
	Devices		Controller Type	Nostorme	Sustan ID	Site ID	Mode	Assigned Template	Davice Status	Cartificate Stat	Policy Name	Dollars Version		1000	
	Certificates		vManage	-	-	-	CLI	-	In Sync	Installed	-	-		acdaf52	
	Network Design		vManage	vManage_rcdn01	1.11.11.11	100	CLI	-	In Sync	Installed	-	-		92302e.	
	Network Dealight		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	
	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	-		Runnin	a Configu	ration
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	Cloud onRamp for SaaS												Templa	ate Log	
	Cloud onRamp												Edit		
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ステップ9:コントローラへのアップデートの送信

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	Dashboard	1	🗘 co	NFIGURATION CERTIF	ICATES								🛓 Install Ce	rtificate
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	Devices												0	00
	Cartificates		Q			Search Options 🐱							Tota	I Rows: 6
	Certificates		>	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	
	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	1	

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	Dashboard	CONFIGURATIO	N CERTIFICATES								
	Monitor >	WAN Edge List	Controllers								
_		Send to Controllers									
٠	Configuration >									•	00
										Q	99
	Certificates	Q		Search Options 🗸						Total	Rows: 15
	oci dilettateo	State	Device Model	Chassis Number	Hostname	IP Address+	Serial No./Token	Validate			
	Network Design	Q	vEdge Cloud	ceaf1eb3-62cf-059d-634a-5649fca28125	Site03_vEdge	1.1.1.6	E80C7777	Invalid Staging	g Valid		
	Templates	e	C1101-4P	C1101-4P-FGL221792P7	Site01_C1101	1.1.1.5	01633D8F	Invalid Stagin	g Valid		
		(All and All a	ISR4451-X	ISR4451-X/K9-F0C16491MWM	Site02_ISR44	1.1.1.4	F42E	Invalid Staging	g Valid		
		۲	CSR1000v	CSR-953188C0-2D85-5D48-A24A-2CEEE71	-	-	Token - 40fcfc5d96bc40fcc39a0d7bfbc7e354	Invalid Stagin	g Valid		
		(1)	CSR1000v	CSR-91AA7B9A-C7E7-B8E9-F205-15B7322		-	Token - 18bb348fdefc64ef3b5712046ccbd774	Invalid Stagin	Valid		

すべてのデバイスをvManageで管理できることがわかります。

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55			DASHBOARD											
	Monitor Configuration	> >	•	2 ↑ vSmart - 2	8	3 ↑ WAN Edge - 3	•	2 ↑ vBond - 2	1 vManag	je - 1	Reboot Last 24 hrs	3	Warning Invalid	0
à	Tools	>	Control Status (Tol	tal 4)			Site Health (Total 2)			Transport	Interface Distrib	oution		
÷	Maintenance	>	Control Up			4	Full WAN Cor	nnectivity	2 sites	< 10 Mbp:	s			9
	Administration	>	Partial			0	Partial WAN	Connectivity	0 sites	10 Mbps -	- 100 Mbps			0
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			Control Down			0	8 No WAN Con	nectivity	0 sites		v	iew Percent Uti	lization	
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			Total			15				100 %				
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							Site02 ISB44	ints 51-default-Site03 vEdne Cloud	Avg. Latency (ms)	Aug. Los	is (%)	A1	vg. Jitter (ms)	_
							Site01_C1101	default-Site02_ISR4451:default	32.167	0.012		0		
				No data to	display		Site02_ISR44	51:default-Site01_C1101:default	32	0		0		
								:default-Site03_vEdge_Cloud:d	25.917	0		41	1.083	
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	Dashboard	CONFIGURATION TEM	PLATES									
	Monitor >	Device Feature										
*	Configuration	Add Template									6	
	Devices	Template Type Non-Default	· Q		Search Options 🐱						Total R/	ows: 10
	ocheco	Name	Description	Туре	Device Model	Device Templates	Devices Attached	Updated By	Last	Jpdated		
		vEdge_VPN_0	Default Transport VPN tem	WAN Edge VPN	C1111-4PLTEEA C1117-4P	0	0	admin	23 Ap	r 2020 9:30:	47 AM C	
	Network Design	Default_AAA	Default AAA template settin	AAA	C1111-4PLTEEA C1117-4P	1	1	admin	23 Ap	r 2020 9:42:	40 AM C	
		cEdge_VPN_0	Default Transport VPN tem	WAN Edge VPN	C1111-4PLTEEA C1117-4P	1	1	admin	23 Ap	r 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 Ap	r 2020 9:33:	40 AM C	
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		vEdge_VPN_512	VPN 512 add default route	WAN Edge VPN	C1111-4PLTEEA C1117-4P	0	0	admin	23 Ap	a 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 Ap	r 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 Ap	r 2020 9:33:	16 AM C	
	Cloud onRamp	cEdge_VPN_512_Interface	VPN 512 interface config	WAN Edge Interface	C1111-4PLTEEA C1117-4P	1	1	admin	23 Ap	r 2020 9:34:	20 AM C	
	Network Hub											

翻訳について

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