Recupere o vManage autônomo por meio da recuperação de desastres

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Introduction

Este documento descreve as etapas envolvidas para restaurar o vManage pela utilização de um backup de configuração-db.

Informações de Apoio

Este documento pressupõe que um backup do banco de dados de configuração foi feito periodicamente e, por algum motivo, o vManage autônomo é irrecuperável e precisa de uma redefinição de software ou de uma nova instalação.

Este documento ajuda a recuperar todas as políticas, modelos, configurações e certificados de dispositivo Edge.

Configuração de Backup-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 para um servidor externo.

```
vManage_rcdn01# vshell
vManage_rcdn01:~$ scp /opt/data/backup/05_08_20_configdb.tar.gz user@10.2.3.1://home/ftpuser/ftp/amaugust
amaugust@10.2.3.1's password:
05_08_20_configdb.tar.gz
100% 484KB 76.6MB/s 00:
```

Recuperar vManage

Simule um desastre redefinindo o vManage pelo comando:

```
vManage_rcdn01# request software reset
```

Agora que você tem um vManage novo que se parece com o mostrado, é aconselhável aderir ao processo de recuperação na sequência correta antes de restaurar o backup.



Etapa 1. Configuração mínima no 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 0.0.0.0/0 10.1.3.1
!
```

Etapa 2. Copiar Configuração de Backup e Certificado Raiz

<#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
```

Etapa 3. Instalar certificado raiz

```
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
```

Etapa 4. Atualizar informações básicas

Navegue até Administration > Settings e configurar as informações básicas para o IP do vBond, o nome da organização e o certificado.

| ≡ | cisco VN | lanag | ;e | | | | |
|------------|----------------------------|---|---------------------|--|------------------------|--|--|
| | Dashboard | | - | ADMINISTRATION SETTINGS | | | |
| ▫ | Monitor | > | | Organization Name | a st.cisco | | |
| ٠ | Configuration | > | | vBond | vbond t : 12346 | | |
| ٩ | Tools > Email Notification | | Email Notifications | Disabled | | | |
| ÷ | Maintenance | aintenance > 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) | | | |
| | Cluster Management | | | Banner | Disabled | | |
| | | | | Reverse Proxy | Disabled | | |
| | vAnalytics | > | | Statistics Setting | | | |

Etapa 5. Instalar certificado vManage

Use o root.crt que está instalado na Etapa 2.

| = | cisco Cisco vi | Manage | | | | | | | | |
|----|----------------|----------|-------|----------------------|----------|--|--|-----------------------------------|-----------------------------------|------------|
| 55 | | - 1 | 🌣 co | NFIGURATION CERTIF | ICATES | | | | | |
| | | , | WAN | Edge List Controller | 5 | | | | | |
| ٠ | | > | > Ser | nd to vBond | | | | | | |
| | | | | | | | | | | |
| | Certificates | | Q | | | Search Options 🗸 | | | | |
| | Gerundates | _ | 2 | Operation Status | | | | | | |
| | | - 1 | > | CSR Generated | vManage | vManage_rcdn01 | 1.11.11.11 | 100 | No certificate installed | |
| | | - 1 | | | | | | | | |
| | | - 1 | | | | | | | | |
| | | - 1 | | | CSR | | _ | _ | | × |
| | | - 1 | | | | | | | | |
| | | r SaaS | | | IP A | ddress: 1.11.11.11 | | | | |
| | | - 1 | | | | | | | | 1 Download |
| | Network Hub | - 1 | | | M | BEGIN CERTIFICATE REQUES IDTJCCAJYCAQAwgc0xCzAJB | iT gNVBAYTAIVTMRMwl | EQYDVQQIEwpDYV | VxpZm9ybmlh | |
| | | _ | | | M | EwDwYDVQQHEwhTYW4gSr NVBAoTC3ZJUHRIbGEgSW5j | n9zZTEXMBUGA1UEC MUMwQQYDVQQDEz; | adMOYW1hdWd1c 2bWFuYWdlLTkyt | 3QuY2IzY28xFDAS MzAyZTc3LWMw | |
| 3 | | 2 | | | NV | VMtNDYyYS1hNzE3LTVmMD8 cNAQkBFhNzdXBwb3J0QHZp | EzYjMxZDUyZi0wLnZp xcHRIbGEuY29tMIIBIJA | cHRbGEuY29tMS NBgkqhkiG9w0B/ | IwIAYJKoZI AQEFAAOC | |
| ÷ | | > | | | AQ N1 | 8AMIIBCgKCAQEAp4czwUdv LLgATHbyBqYq3/53t02D2I+t | vqaGpfQS0hmcuJw/ls 8CwFzmtWg/qTJ5PYv | aNINMGKKGb6Rfl vZc4V2iy0w1XLxq | 8bKqe6m/8l xScImG2 | |
| | | · - | | | JG Vn | ysSfqad3lg4dl3PqM9L9bHYg g2Y+gAlKfVTPHykg8EigbZvC | CeVkFn9bjpMzuTKo0 YSsk/XvOmfxYFWGpF | XW26zhHW+Pcfs PavTM4DPclvbjqU | BKR4Ae5x 93t3yyY | |
| - | | | | | Fd | wEqJ/nUVj6dd6kOGtDPddlRx wISsWfuChJ76dBDwmlM4k9 | Olqb9Zm9b710Z0JIA kyySq8shXXsJmQIDA(| pJVnQi+dJmd0ttX QABoDswDQYJKo | 2h0M29 ZihveNAQk0 | |
| | | <u>`</u> | | | MS D- | SWWKJAJBGNVHRMEAJAAMB | DGA10dDgQWBBQwKi | MQSR4Q40/9CwO | movbaJoMSaSjAN Ph = 4/ -1 lest | |
| | | - 1 | | | | | | | | |
| | | | | | | | | | | Close |
| | | | | | | | | | | |



| ≡ | cisco Cisco vi | /lanage | | | | | | | | |
|----|------------------|---------|-----------|--|---|---|--|--|--|------------------------|
| | Dashboard | | İ TASI | K VIEW | | | | | | |
| ▫ | Monitor | > | Install C | ertificate | | | | | | |
| \$ | Configuration | > | Total Ta | sk: 1 Success : 1 | | | | | | |
| | 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 | | [[| 8-May-2020 16:15:06 8-May-2020 16:15:06 | 5 UTC] Install Certi: 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 | > | | | | | | | | |



Etapa 6. Restaurar O Banco De Dados

<#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

Essa etapa leva mais tempo e depende do backup.

Você pode verificar o processo ao tailing os logs no vShell.

<#root>

```
vManage_rcdn01:~$
```

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

Passo 7. Verificar serviços

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

Etapa 8. Reautenticar controladores

Atualmente, você pode observar que todas as políticas, modelos e configurações foram carregados no vManage, mas todos os controladores estão inoperantes.

| ≡ | cisco Cisco vi | Manag | e | | | | | | | |
|----|----------------|--------------|----------------|------------|---|--------------|--------------------------|-----------|---------|--------|
| 8 | Dashboard | | DASHBOARD | þ | | | | | | |
| ▫ | Monitor | > | 8 | 2 🔸 | 8 | 3 🔸 | | 2 🗸 | 10 | |
| ۵ | Configuration | > | • | vSmart - 2 | • | WAN Edge - 3 | • | vBond - 2 | vManag | ge - 1 |
| ٩ | Tools | > | Control Status | (Total 5) | | | Site Health (Total 3) | | | Transp |
| ÷ | Maintenance | > | Control Up | | | 5 | Full WAN Connect | tivity | 3 sites | < 10 M |
| * | Administration | > | Destial | | | | - | | | 10 Mb |
| 1. | vAnalytics | > | Partial | | | | Partial WAN Conn | ectivity | 0 sites | 100 M |
| | | Control Down | | | | 0 | O No WAN Connecti | 0 sites | > 500 | |
| | | | | | | | | | | |
| | | | WAN Edge Inve | ntory | | | WAN Edge Health (Total (| 0) | | Transp |
| | | | Total | | | 16 | | | | |
| | | | Authorized | | | 16 | 0 | 0 | 0 | |
| | | | Deployed | | | 3 | | | | |
| | | | Staging | | | 0 | Normal | Warning | Error | |
| | | | | | | | | | | |

Você precisa autenticar novamente todos os controladores.

Navegue até Configuration > Devices. Edite cada controlador e preencha o endereço IP de gerenciamento (o IP de gerenciamento pode ser encontrado na configuração local) nome de usuário e senha.

| = | cisco vManage | e | | | | | | | | | | | |
|---|-----------------------|------------------------------------|----------------------------------|------------------|---------|------|-------------------|---------------|------------------|--|--|--|--|
| | Dashboard | CONFIGURATIO | N DEVICES | | | | | | | | | | |
| | Monitor > | WAN Edge List Controllers | | | | | | | | | | | |
| ٠ | Configuration > | Add Controller | ◆ Add Controller 	 □ Change Mode | | | | | | | | | | |
| | 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 | | | | | | | | | | | | |

Etapa 9. Enviar atualizações para controladores

| = | Cisco vMana | t Cisco vManage | | | | | | | | | | | | |
|---|----------------|-----------------|---------------------------|------------|------------------|----------------------------|---------------|------------------|---------|----|--|--|--|--|
| | Dashboard | \$ 0 | ONFIGURATION CERTIF | ICATES | | | | | | | | | | |
| ▫ | Monitor > | WA | IAN Edge List Controllers | | | | | | | | | | | |
| ۰ | Configuration | <u> </u> | - Selia ra Aboua | | | | | | | | | | | |
| | Devices | | | | | | | | | | | | | |
| | Certificates | Q | 4 | | Search Options 🗸 | | | | | | | | | |
| | Gerdineates | 2 | Controller Type | Hostname | System IP | Expiration Date | uuid | Operation Status | Site ID | Ce | | | | |
| | 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 Cisco vMana | ıge | | | | | | | | | | | |
|----|-------------------|-----|---|---------------------------|-------|---------------------------------|--------------|-------------|--------------------------------------|--|--|--|--|
| 55 | Dashboard | 1 | CONFIGURATION | I CERTIFICATES | | | | | | | | | |
| □ | Monitor > | | WAN Edge List | IAN Edge List Controllers | | | | | | | | | |
| ٠ | Configuration > | | Send to Controllers | | | | | | | | | | |
| | Devices | | 0 | | | | | | | | | | |
| | Cortificator | | Q | | | Search Options 🗸 | | | | | | | |
| | oci diligateo | | State | Device Model | Chase | 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 | | e | C1101-4P | C110 | 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 | | ۲ | CSR1000v | CSR-9 | 53188C0-2D85-5D48-A24A-2CEEE71 | | | Token - 40fcfc5d96bc40fcc39a0d7bfbc7 | | | | |
| | | | (i) | CSR1000v | CSR-9 | 1AA7B9A-C7E7-B8E9-F205-15B7322 | - | | Token - 18bb348fdefc64ef3b5712046cct | | | | |

Agora, todos os dispositivos podem ser gerenciados pelo 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 D | own | | | 0 | No WAN Connect | ivity | | 0 sites | |
| | | | | | | | | | | | | |
| | | | WAN Edge | Inventory | | | WAN E | dge Health (Total | 2) | | | Transp |
| | | | Total | | 15 | | \frown | | 100 % | | | |
| | | | Authorize | d | | 15 | (| 2) | 0 | | | |
| | | | Dealers d | | | | | | | | 50 % | |
| | | | Depioyed | | | 3 | | \smile | | | | |
| | | | Staging | | | 0 | | Normal | Warning | Error | | 0 |
| | | | - | | | | | | | | | |
| | | | тор Аррис | ations | | Ψu | 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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