Onboarding a New vEdge

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Description

We are onboarding a new office, the vEdge device has already arrived. We need to onboard it so that we can manage it using our SD-WAN network.

Requirements

- Physical access to the new vEdge.
- Remote access to the vManage.
- · Remote access to the vBond
- Remote access to the vSmart

Step-by-Step Instructions

- 1. Plug into the console port.
- 2. Using a terminal emulation program, like PuTTY, access the CLI of the vEdge.
- 3. Log in with the default credentials: admin/admin. If it asks you to set a new password, set it to a new password.
- 4. Paste the following command into the CLI:

```
config
system
system-ip 172.16.1.1
site-id 2
organization-name seaice
vbond 10.1.0.2
exit
vpn 0
ip route 10.1.0.0/24 10.50.0.1
ip route 10.1.0.0/24 10.50.0.5 20
interface ge0/0
ip address 10.50.0.2/30
tunnel-interface
encapsulation ipsec
```

color biz-internet allow-service all no shutdown exit exit interface ge0/1 ip address 10.50.0.6/30 tunnel-interface encapsulation ipsec color public-internet allow-service all no shutdown exit exit commit end

- 5. Download the root CA cert from vManage by pasting the following command: request download scp://admin@10.1.0.3:/home/admin/ROOT-CA.pem
- 6. It will ask you if you want to continue, type yes. It will prompt for the password to vManage, type in the password.
- 7. Install the root certificate by pasting this: request root-cert-chain install /home/admin/ROOT-CA.pem
- 8. Create a CSR for the vEdge by pasting this: request csr upload home/admin/vedge1_csr
- 9. When prompted for the organization name, use: seaice
- 10. Remote into the vManage CLI. Type in the username and password.
- 11. Enter into the Linux CLI of vManage by pasting: vshell
- 12. Download the CSR from the new vEdge by pasting this command including the period at the end: scp admin@10.50.0.2:/home/admin/vedge1 csr.
- 13. When prompted, type in the password for the new vEdge.
- 14. Sign the certificate by pasting this command 1 line at a time:

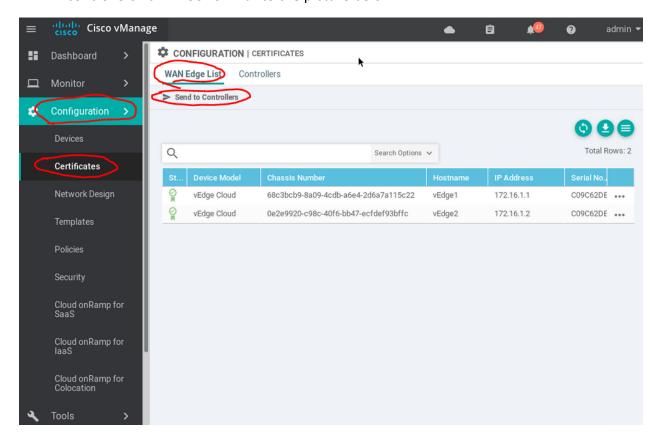
openssl x509 -req -in vedge1_csr \

-CA ROOT-CA.pem -CAkey ROOT-CA.key -CAcreateserial \

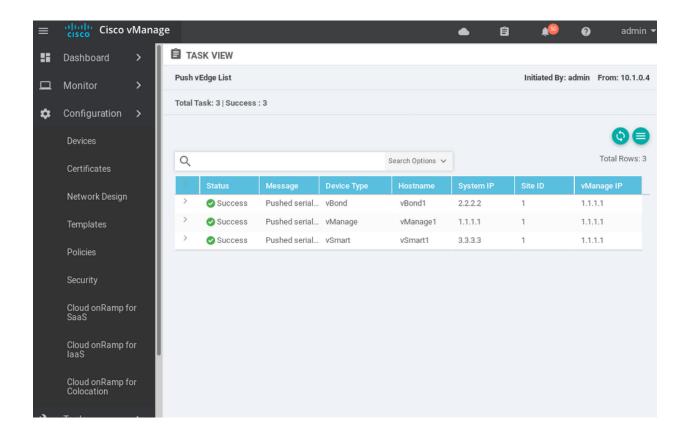
-out vedge1.crt -days 2000 -sha256

- 15. Go back to the vEdge CLI.
- 16. Download the certificate by pasting: request download scp://admin@10.1.0.1:/home/admin/vedge1.crt
- 17. When prompted for the password, type in the password of the vManage.
- 18. Install the certificate by pasting: request certificate install home/admin/vedge1.crt
- 19. Copy the chassis and serial number of the vEdge from pasting in this command: show certificate serial
- 20. Remote into vManage.

- 21. Paste this command, replacing the bracketed info with the chassis and serial number from earlier: request vedge add chassis-num <chassis number> serial-num <serial number>
- 22. Remote into vBond, log in.
- 23. Paste this command, replacing the bracketed info with the chassis and serial number from earlier: request vedge add chassis-num <chassis number> serial-num <serial number>
- 24. Remote into the vManage GUI and log in.
- 25. Navigate to Configuration -> Certificates -> WAN Edge List. Then click on send to controllers. It will look similar to the picture below.



26. Wait for the success messages.



Verification

- 1. Access the CLI of the vEdge and log in.
- 2. Ping the vSmart (10.1.0.1), vBond (10.1.0.2), and vManage (10.1.0.3).
- 3. Access the CLI of vSmart and log in.
- 4. Paste in: show omp peers
- 5. Look for the new peer at 172.16.1.1. It will look similar to the image below.

```
vSmart1# show omp peers
R -> routes received
I -> routes installed
S -> routes sent
                          DOMAIN
                                     OVERLAY
                                               SITE
PEER
                  TYPE
                                     ID
                                               ID
                                                          STATE
                                                                   UPTIME
                                                                                      R/I/S
                                                                    1:01:11:39
                                                                                     2/0/4
                  vedge
```

Backout Plan

- 1. Access the CLI of the vEdge and log in.
- 2. Paste in this command to reset the configurations: request reset configuration
- 3. When prompted to confirm, type yes.