

Configure vEdge Device Parameters by the Use of SDWAN Template

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Introduction

This document describes how to push new configurations via Templates from vManage.

Prerequisites

Requirements

Cisco recommends that you have knowledge of these topics:

- Basic Knowledge of SDWAN architecture
- Basic Knowledge of vManage dashboard

Components Used

This document is not restricted to specific software and hardware versions.

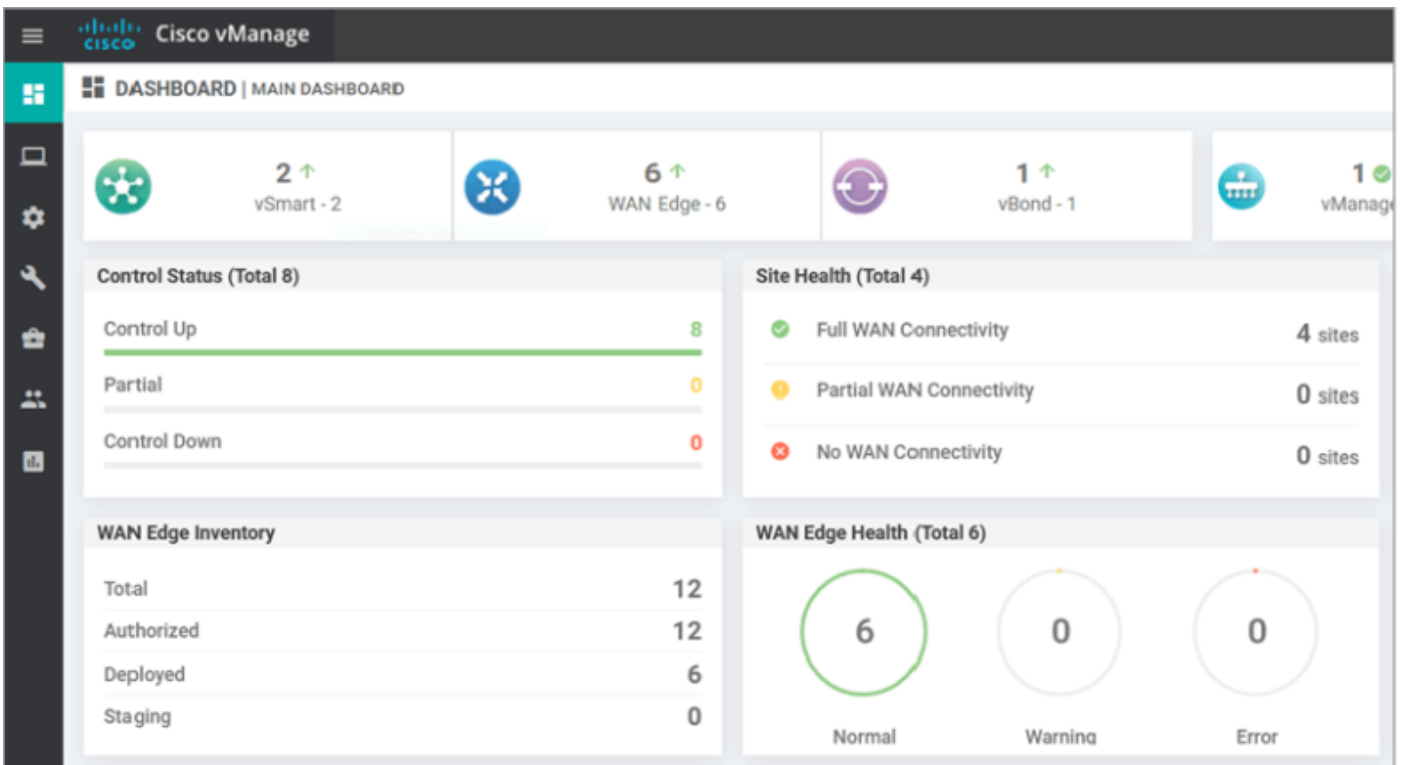
The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

Configure

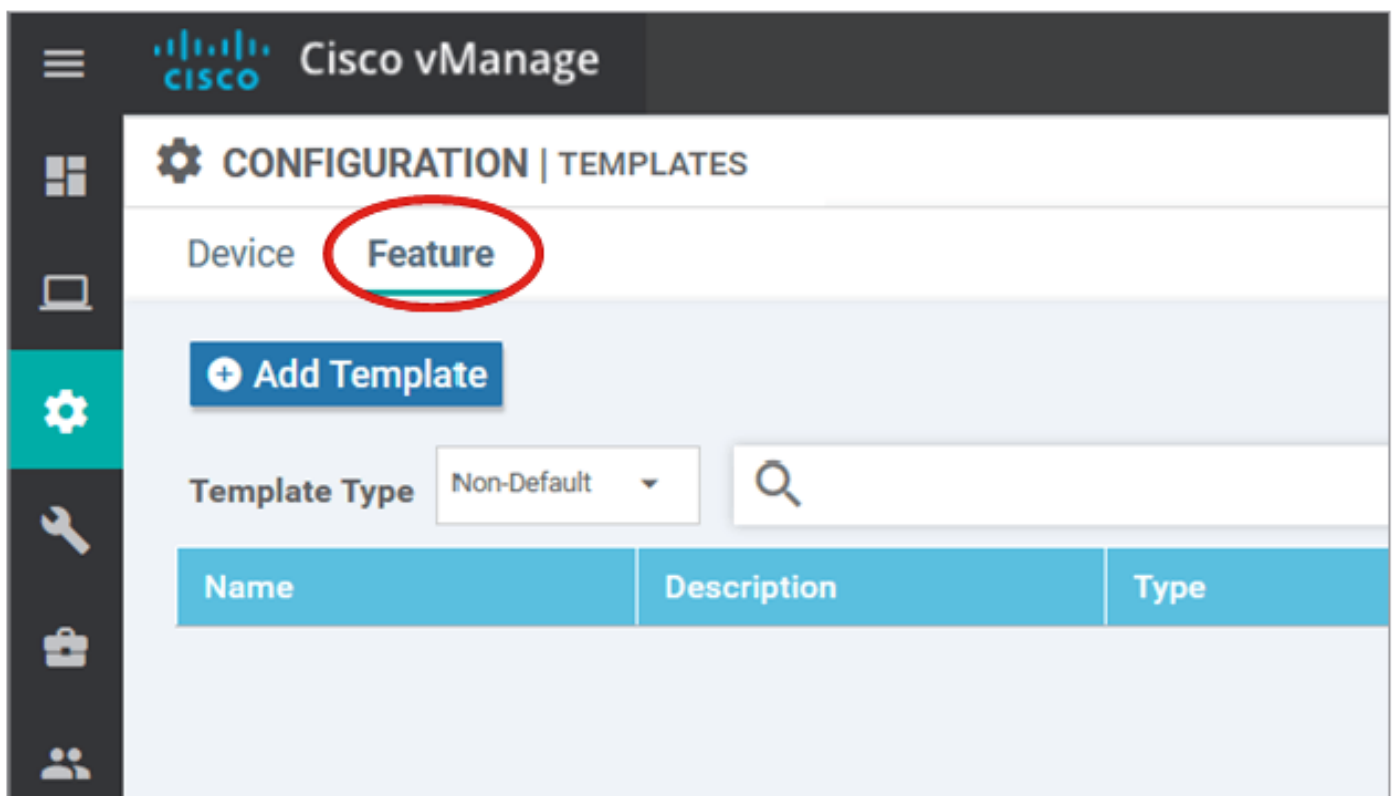
To configure common parameters of **vEdge** devices from **vManage** controller, you can use Templates.

The example in the image shows you how to use the feature template to configure a new VPN 20 and loopback interface and push it to **vEdge** devices.

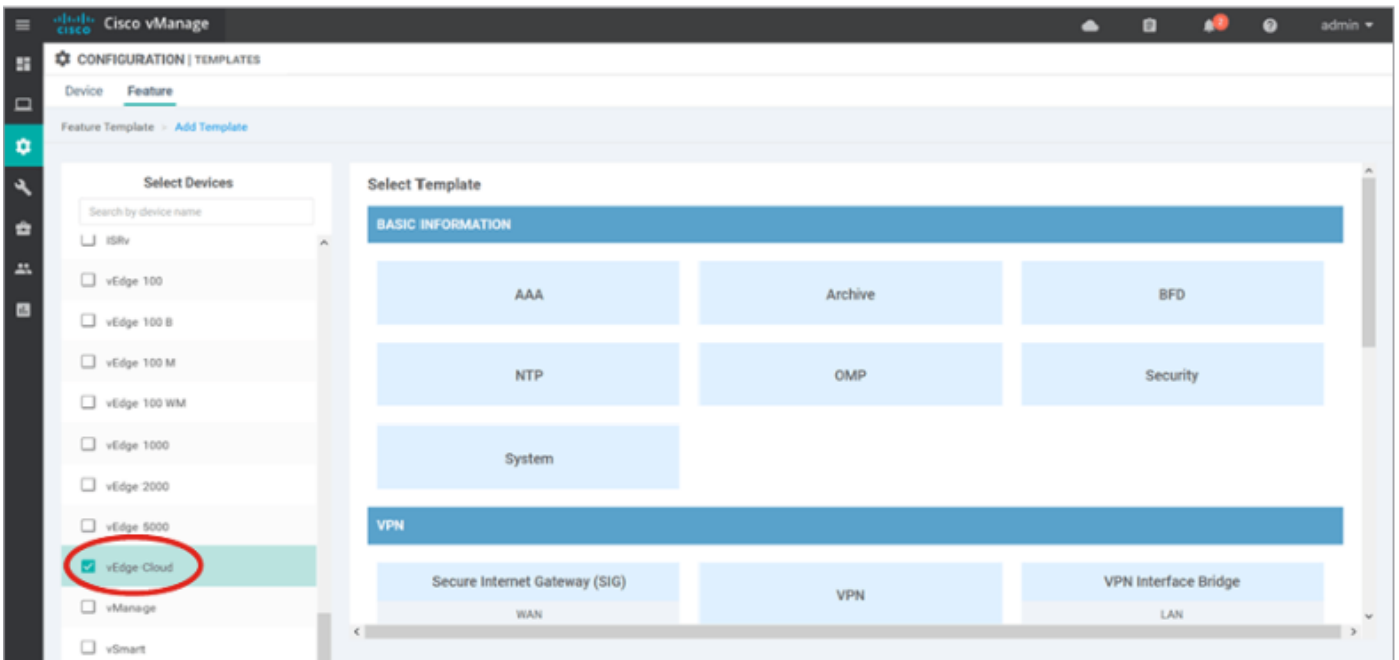
Log in to **vManage**. You can see that the SD-WAN fabric includes vSmart controllers, WAN Edge routers, vBond orchestrator, and one vManage Network Management Systems (NMS).



Click the **Gear icon (Configuration)** in the left menu bar and choose **Templates**. Click the **Feature** tab.



Click **Add Template** and choose **vEdge Cloud** from the list of possible devices under the **Select Devices** option and click the **VPN** template.

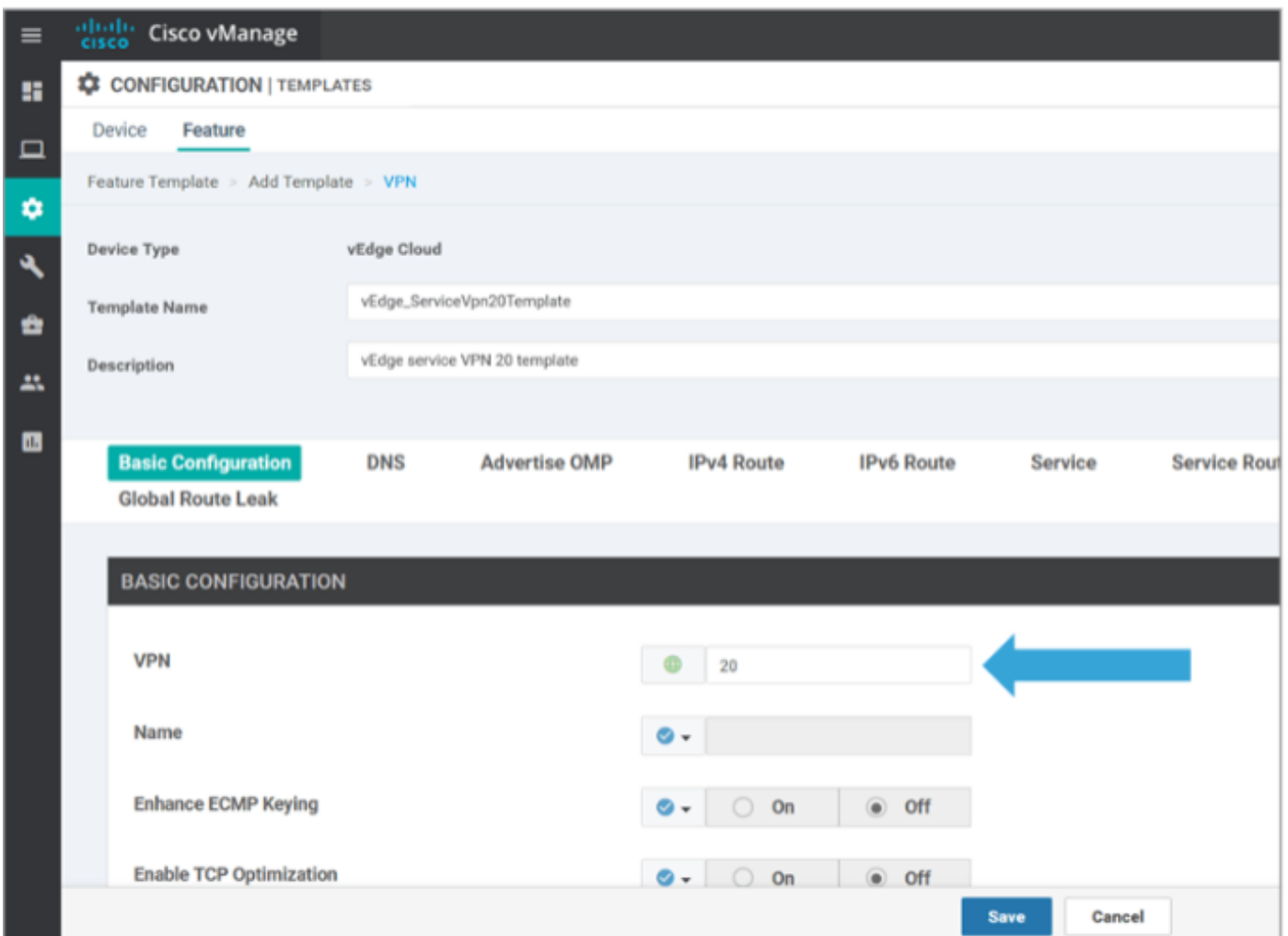


Type these template details:

Template Name: vEdge_ServiceVpn20Template

Description: vEdge service VPN 20 Template

In the **Basic Configuration** section, enter **20** in the VPN field and click **Save**.



Click **Add Template** again and choose **vEdge Cloud**. Click **VPN Interface Ethernet** and enter these parameters:

Template Name: vEdge_ServiceVpn20InterfaceTemplate

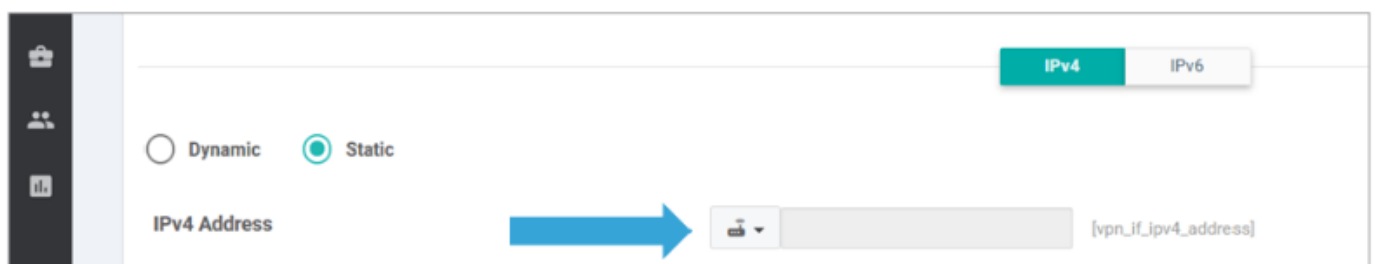
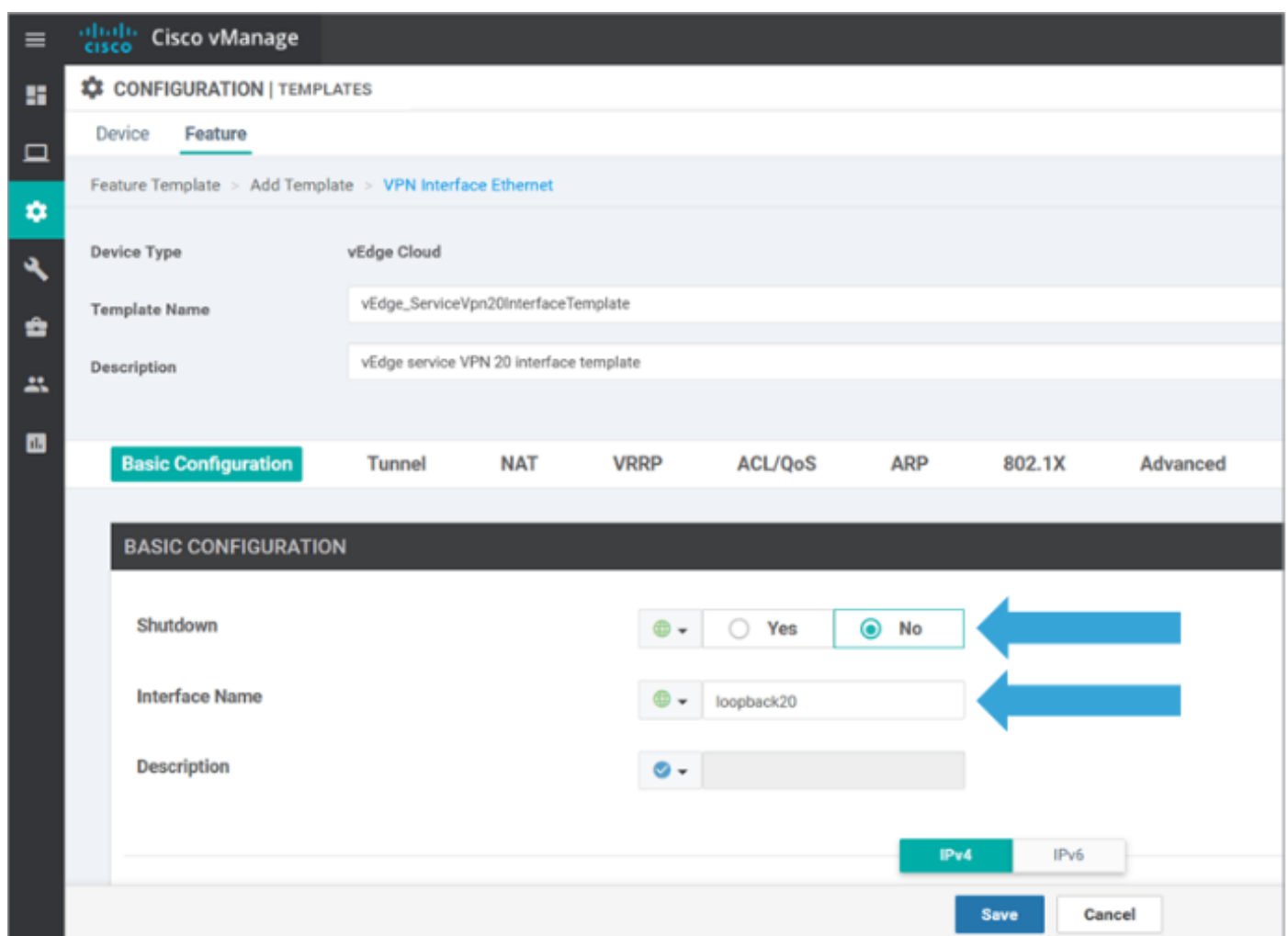
Description: vEdge service VPN20 interface template

In the Basic Configuration section, enter these parameters:

Shutdown (Global): No

Interface Name (Global): loopback20

Scroll down to the **IPv4 Configuration** section and choose **Device Specific** as the IPv4 Address, and then click **Save**.

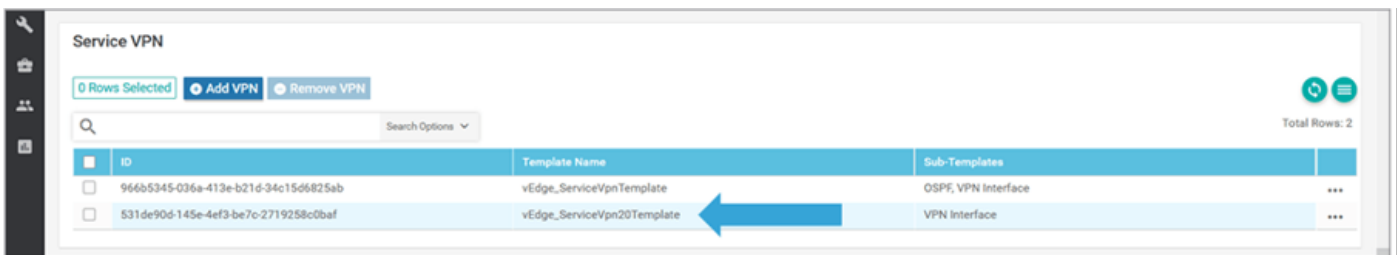


Click the **Device** tab and apply the new feature templates to **vEdgeSite1_DeviceTemplate** in this

way:

- Click the **More Options (...)** icon for **vEdgeSite1_DeviceTemplate** and choose **Edit**.
- Click **Service VPN > + Add VPN** to add a service VPN.
- Choose the new VPN 20 template and move it to the right pane. Click **Next**.
- Click **VPN Interface** under the **Additional VPN Templates** section in the right pane. This process must add a new VPN Interface field in the left pane.
- Click the new VPN interface drop-down arrow and choose **vEdge_ServiceVpn20Interface** Template. Click **Add**.
This process returns you to the **Service VPN** option inside the service VPN 20 template.
- Click **Update**.

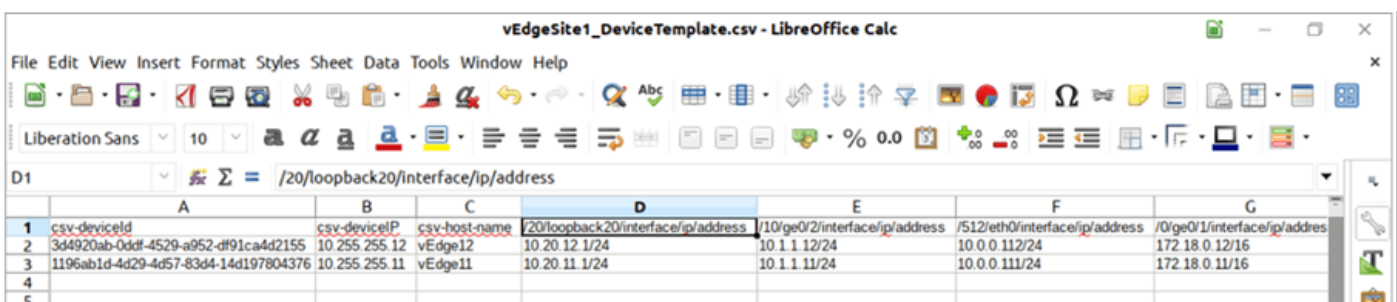
Before you click **Update**, you can see that the new service VPN has been added to the list:



Click the **Download** arrow icon to download and save the template **vEdgeSite1_DeviceTemplate.csv** file. The file is saved automatically to the SD-WAN folder on the **Jump Host**.

On the **Jump Host**, browse to the SD-WAN folder and open the **vEdgeSite1_DeviceTemplate.csv** file. Add the **IP address** for loopback 20 for the template's devices as:

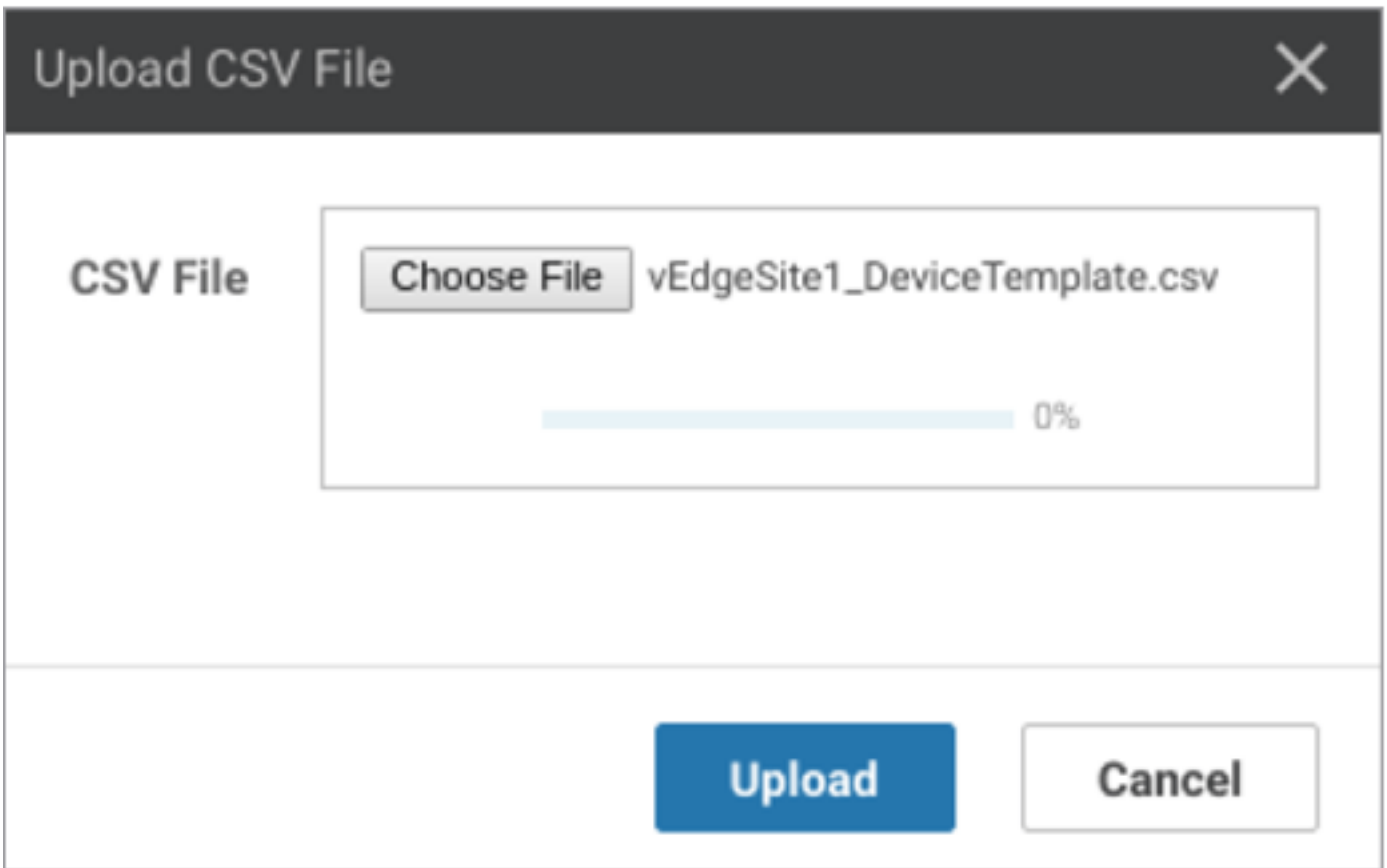
- vEdge11: 10.20.11.1/24
- vEdge12: 10.20.12.1/24



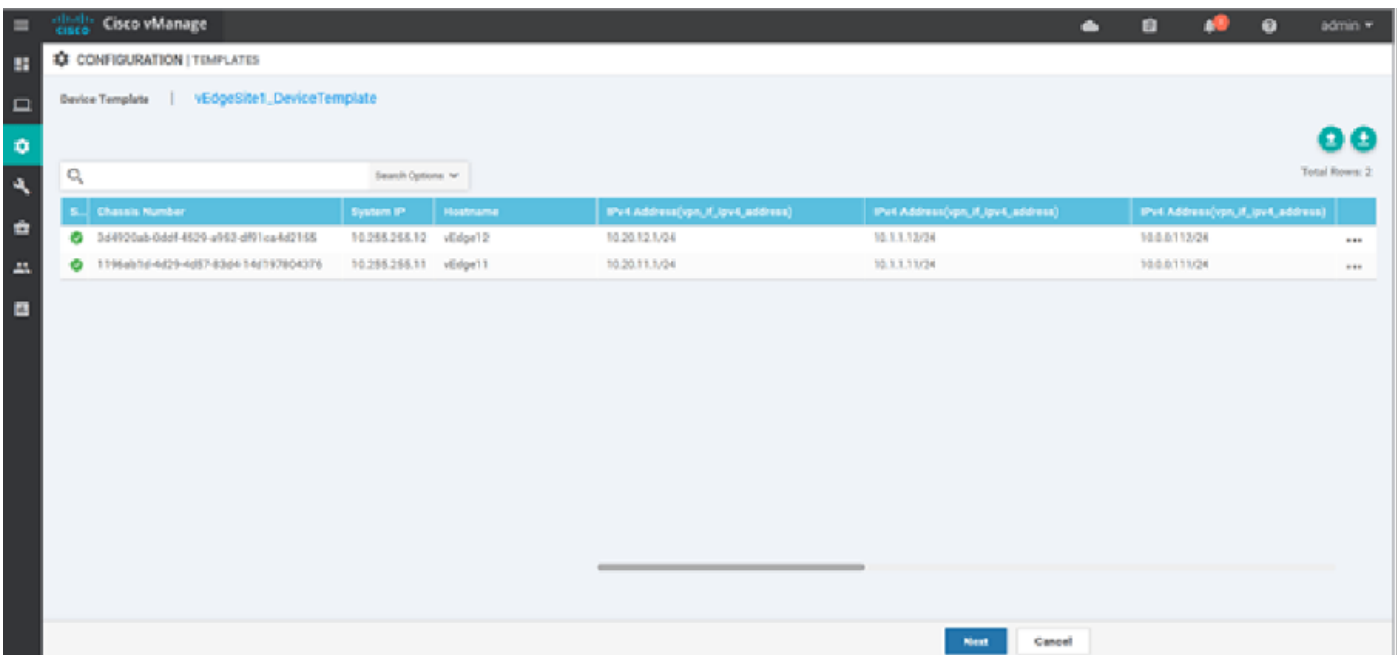
Save the updated **.csv** file.

Click the **Upload** arrow icon on vManage and upload the **vEdgeSite1_DeviceTemplate.csv** file.

If vManage times out while you edit the **CSV** file, repeat the previous step to re-enable the new service VPN and VPN interface.

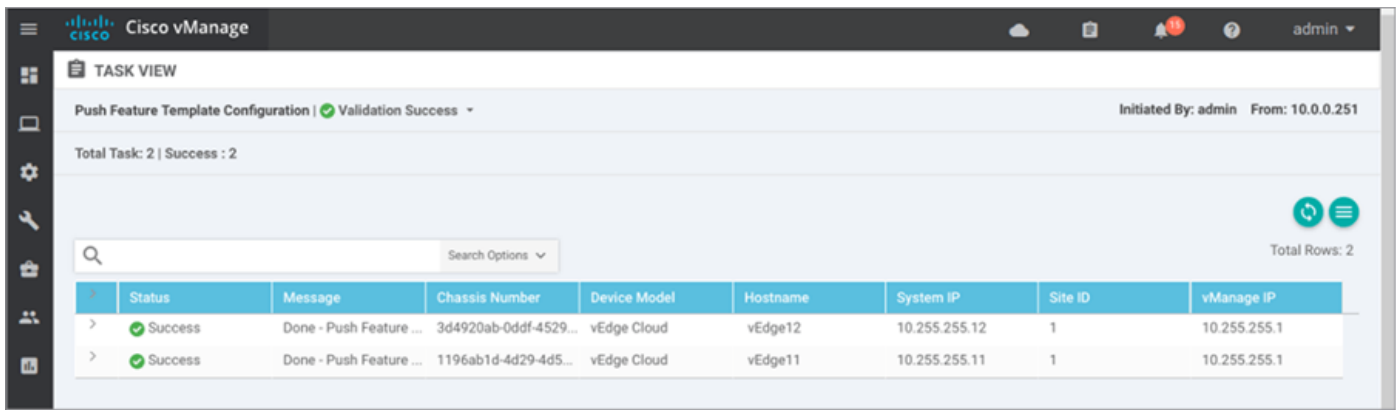


Click **Next** to deploy the configuration changes.



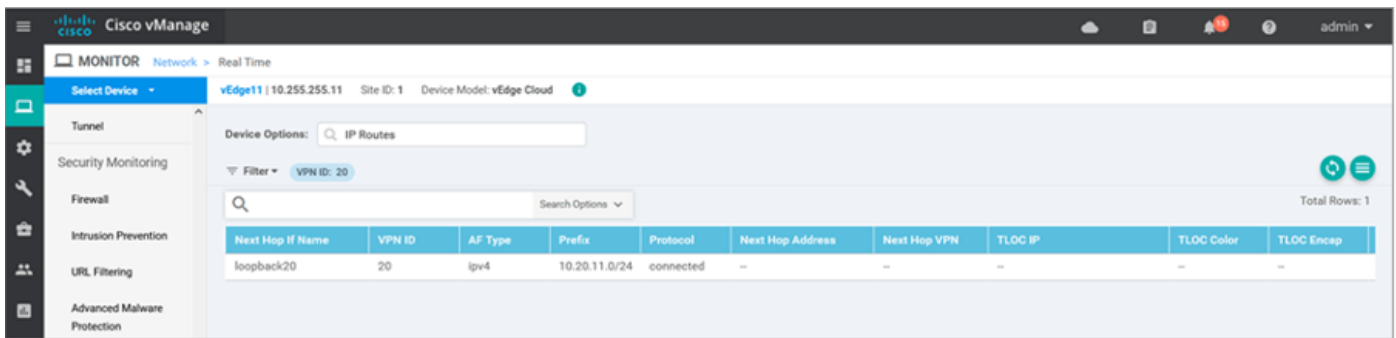
Click **Configure Devices** and confirm the configuration changes. Monitor the deployment status. The configuration is pushed to vEdge11 and vEdge12.

Proceed to the next step once vManage displays a **Success** status for both devices.



Verify

Click the **Monitor icon** and choose **Network**. Click **vEdge11** from the list of devices and click **Real-Time** at the bottom of the left pane. In the **Device Options** field, choose **IP Routes** and choose **Show Filters**. Choose **20** from the VPN drop-down list and click **Search**. Verify the state of the VPN 20 routing table on vEdge11. Now, you can only see the VPN 20 Loopback 20 interface on the local router.



Troubleshoot

There is currently no specific troubleshoot information available for this configuration.