



# HOW TO ENABLE SERIAL CONSOLE ACCESS ON CATALYST 8000V ROUTERS IN VMANAGE MODE

- In Cisco SD-WAN, Catalyst 8000v Routers do not accept Console connections by default
- This doc outlines the steps to enable Console access on Cat8Kv Routers in vManage Mode

## Step 1: Edit the Device Template attached to the cEdge Routers

- From the vManage GUI, go to **Configuration > Templates > Device Templates**
- Edit the Device Template attached to the cEdge Routers (C8000v's)

The screenshot shows the Cisco SD-WAN vManage GUI. The breadcrumb navigation is 'Configuration > Templates'. The 'Device Templates' tab is active. A search bar is at the top. Below it, there's a 'Create Template' dropdown and a 'Template Type' filter set to 'Non-Default'. The table below has 10 columns: Name, Description, Type, Device Model, Device Role, Resource Group, Feature Templates, Draft Mode, and Devices Attached. The first row, 'cEdge-Single-WAN-Template', is highlighted. The 'Device Model' column for this row is 'C8000v'. The 'Devices Attached' column shows '2'. To the right of the table, there are icons for refresh and settings. A red box highlights the 'Edit' button in the actions column for the first row.

Name	Description	Type	Device Model	Device Role	Resource Group	Feature Templates	Draft Mode	Devices Attached	
cEdge-Single-WAN-Template	cEdge-Single-WAN-Template	Feature	C8000v	SDWAN Edge	global	15	Disabled	2	...
vEdge-DC-Template	vEdge-DC-Template	Feature	vEdge Cloud	SDWAN Edge	global	18	Disabled	2	Edit
vEdge-Dual-WAN-Template	vEdge-Dual-WAN-Template	Feature	vEdge Cloud	SDWAN Edge	global	14	Disabled	2	View
									Delete

## Step 2: Create a CLI Add-On Template

- Click Additional Templates, then under the **CLI Add-On Template**, click the dropdown and **Create Template**

The screenshot displays the Cisco SD-WAN configuration interface. At the top, the breadcrumb navigation shows 'Configuration · Templates'. Below this, there are tabs for 'Configuration Groups', 'Feature Profiles', 'Device Templates', and 'Feature Templates'. The 'Device Templates' tab is active. The main configuration area shows fields for 'Device Model\*' (C8000v), 'Device Role\*' (SDWAN Edge), 'Template Name\*' (cEdge-Single-WAN-Template), and 'Description\*' (cEdge-Single-WAN-Template). Below these fields are tabs for 'Basic Information', 'Transport & Management VPN', 'Service VPN', 'Cellular', 'Additional Templates', and 'Switchport'. The 'Additional Templates' tab is selected. Under this tab, there is a 'CLI Add-On Template' dropdown menu with a 'Choose...' header and a list containing 'None'. A 'Create Template' button is located at the bottom of the dropdown menu.

### Step 3: Add the "platform console serial" command

- Give the **CLI Add-On Template** a Name and optional Description
- Under **CLI CONFIGURATION** add the command `platform console serial` and save

The screenshot shows the Cisco SD-WAN Configuration - Templates page. The 'Device Type' is set to 'C8000v'. The 'Template Name' is 'Allow-Console-Access-to-cEdge' and the 'Description' is 'Adds required command to enable serial console access'. Below this, a section titled 'CLI CONFIGURATION' contains a single line of configuration: '1 platform console serial'.

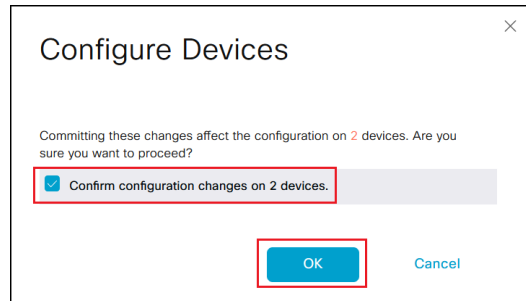
### Step 4: Apply the CLI Add-On Template

- Click the dropdown next to CLI Add-On Template and choose the template you created

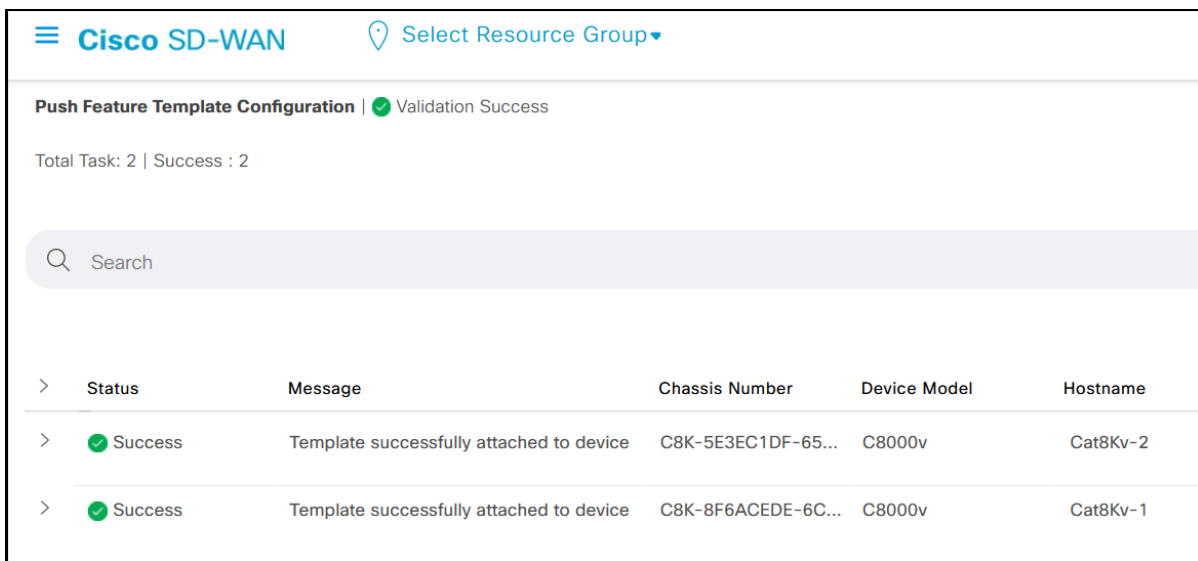
The screenshot shows the Cisco SD-WAN Configuration - Templates page, specifically the 'Additional Templates' tab. The 'Device Model' is 'C8000v' and the 'Device Role' is 'SDWAN Edge'. The 'Template Name' is 'cEdge-Single-WAN-Template'. In the 'CLI Add-On Template' section, a dropdown menu is open, showing 'None' and 'Allow-Console-Access-to-cEdge'. The 'Allow-Console-Access-to-cEdge' option is selected, and a preview of the command 'Adds required command to enable Allow-Console-Access-to-cEdge' is visible.

## Step 5: Push the configuration changes to the cEdge Routers

- Click through the configuration deployment screens and confirm the changes on the devices

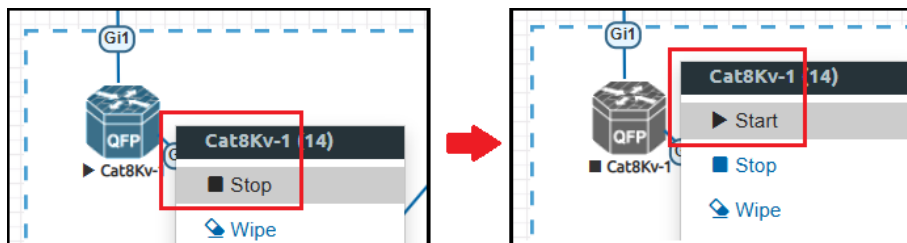


- You should see the **Status** of **Success** once complete



## Step 6: Reboot the cEdge Routers

- In the virtual topology, right-click the **Cat8Kv-1** and **Cat8Kv-2** routers, **Stop** them - wait a few seconds for the operation to complete - then **Start** them again



## Step 7: Log in to the cEdge Routers via the Console

- Double-click the cEdge routers in the virtual topology to open the console window
- Login credentials are listed in the virtual topology

```
Restricted UseUn authorised Logins tracked

User Access Verification

Username: admin
Password: Clsc0123!

Cat8Kv-2>enable
Cat8Kv-2#show ip int brief
```

Interface	IP-Address	OK?	Method	Status	Protocol
GigabitEthernet1	150.101.2.1	YES	other	up	up
GigabitEthernet2	unassigned	YES	unset	up	up
GigabitEthernet2.101	192.168.101.102	YES	other	up	up
GigabitEthernet2.169	169.254.111.2	YES	other	up	up
GigabitEthernet3	unassigned	YES	unset	up	up
GigabitEthernet4	unassigned	YES	unset	up	up
Sdwan-system-intf	172.17.102.1	YES	unset	up	up
vmanage_system	unassigned	YES	unset	up	up
Loopback65528	192.168.1.1	YES	other	up	up
Loopback65529	11.1.102.1	YES	other	up	up
NVI0	unassigned	YES	unset	up	up
Tunnell	150.101.2.1	YES	TFTP	up	up

**Note:** cEdge Routers in vManage mode do not support configuration changes from the CLI:

```
Cat8Kv-2#config t
This command is not supported in Controller mode.
Please use the equivalent command - config-transaction

Cat8Kv-2#config-transaction

admin connected from 127.0.0.1 using console on Cat8Kv-2
Cat8Kv-2(config)# interface Tunnell
Cat8Kv-2(config-if)# shut
Cat8Kv-2(config-if)# commit
Aborted: 'system is-vmanaged': This device is being managed by vManage, configuration through
CLI is not allowed.
Cat8Kv-2(config-if)#
```