



Management of Virtual Machine Hosting an SD-WAN Control Component

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Upgrade memory and vCPU resources on a virtual machine hosting Cisco Catalyst SD-WAN Manager

Only memory or vCPU increase is allowed. After the memory or vCPU is upgraded, you cannot downgrade.

Procedure

Step 1 Check the current configuration on Cisco SD-WAN Manager using the **show system status** command.

```
vManage# show system status
Viptela (tm) vmanage Operating System Software
Copyright (c) 2013-2021 by Viptela, Inc.
Controller Compatibility:
Version: 20.7.0-185
Build: 185
System logging to host is disabled
System logging to disk is enabled
System state: GREEN. All daemons up
System FIPS state: Enabled
Testbed mode: Enabled
Engineering Signed: True
Last reboot: Initiated by user.
CPU-reported reboot: Not Applicable
Boot loader version: Not applicable
System uptime: 1 days 02 hrs 44 min 52 sec
Current time: Sat Oct 23 22:12:10 UTC 2021
Load average: 1 minute: 14.58, 5 minutes: 12.31, 15 minutes: 10.73
Processes: 5775 total
CPU allocation: 32 total
CPU states: 31.58% user, 4.36% system, 64.06% idle
Memory usage: 65741448K total, 38096172K used, 490324K free
```

```

4606444K buffers, 22548508K cache
Disk usage:      Filesystem      Size  Used Avail  Use % Mounted on
                 /dev/root        15230M 3496M 10898M 24%  /
vManage storage usage: Filesystem      Size  Used Avail  Use% Mounted on
                 /dev/sdb        502942M 206906M 270435M 41%  /opt/data
Personality:    vmanage
Model name:    vmanage
Services:      None
vManaged:     false
Commit pending: false
Configuration template: None
Chassis serial number: None

```

Step 2 Power the device down to upgrade the memory.

Step 3 Upgrade the CPU and memory for the VM using the guidelines of the hosting platform. You can make the following upgrades:

Resources	Current	Upgrade
vCPU	16	32
Memory	32 G	64 G or 128 G
Memory	64 G	128 G

Step 4 Power on the device and verify the memory and CPU.

```

vManage1# show system status
Viptela (tm) vmanage Operating System Software
Copyright (c) 2013-2021 by Viptela, Inc.
Controller Compatibility:
Version: 20.7.0-139
Build: 139
System logging to host is disabled
System logging to disk is enabled
System state:      GREEN. All daemons up
System FIPS state: Enabled
Testbed mode:     Enabled
Engineering Signed: True
Last reboot:      Initiated by user - activate 20.7.0-139.
CPU-reported reboot: Not Applicable
Boot loader version: Not applicable
System uptime:    16 days 17 hrs 43 min 28 sec
Current time:     Sat Oct 23 22:22:16 UTC 2021
Load average:     1 minute: 15.86, 5 minutes: 13.02, 15 minutes: 11.45
Processes:        6067 total
CPU allocation:   32 total
CPU states:       32.13% user, 4.34% system, 63.53% idle
Memory usage:    131703148K total, 88221488K used, 19285636K free
                 7022488K buffers, 17173536K cache
Disk usage:      Filesystem      Size  Used Avail  Use % Mounted on
                 /dev/root        15998M 10702M 4461M 71%  /
vManage storage usage: Filesystem      Size  Used Avail  Use% Mounted on
                 /dev/sdb        10402115M 702212M 9175615M 6%  /opt/data
Personality:    vmanage
Model name:    vmanage
Services:      None
vManaged:     false
Commit pending: false

```

Configuration template: None
Chassis serial number: None

Expand the secondary disk size, Cisco Catalyst SD-WAN Manager Release 20.12.x and earlier

Before you begin

Ensure that you are on Cisco Catalyst SD-WAN Manager Release 20.12.x or earlier.

Due to a known limitation, this procedure is not effective for Cisco Catalyst SD-WAN Manager Release 20.13.x, 20.14.x, or 20.15.x.

Perform these steps to increase the size of the secondary disk on the virtual machine hosting a Cisco SD-WAN Manager instance.

Procedure

- Step 1** Shut down the virtual machine hosting Cisco SD-WAN Manager .
- Step 2** Using the hypervisor (for example, ESXi, Azure, or AWS), provision additional space for the secondary disk of the virtual machine hosting Cisco SD-WAN Manager .
- Step 3** Restart the VM that is hosting Cisco SD-WAN Manager .
- Step 4** In Cisco SD-WAN Manager, enter the following to enable Cisco SD-WAN Manager to detect the additional disk space and extend the file system to use the space.

```
vm# request nms application-server resize-data-partition
```

- Step 5** Enter the following commands to confirm that the /opt/data disk has been resized.

```
vm# vshell  
vm:~$ df -hk | grep data
```

The output shows the new disk size.
