



# Monitoring Cisco Nexus 1000V Using Cisco Virtual Switch Update Manager

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## Information about Monitoring

Cisco Virtual Switch Update Manager provides the server administrators with a view of the virtual network and visibility into the networking aspects of the Cisco Nexus 1000V.

It allows the administrators to view the configuration aspects of the VSM, export networking details from vCenter server, investigate the root cause of and prevent networking issues, and deploy the virtual machines with policies. The administrators can monitor and manage the resources effectively with the network details that are provided in the Cisco Virtual Switch Update Manager.

Cisco Virtual Switch Update Manager displays the following switch information:

- **Dashboard tab**—Displays the summary of the system, network statistics, and license information.
- **Switch tab**—Displays hosts, VMs, port groups, and VNIC and PNIC information at the switch level.
- **Hosts/VEM tab**—Displays hosts, VMs, port groups, and VNIC and PNIC information at the host level.



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**Note**

TACACS users cannot monitor the Cisco Nexus 1000V switch on the Cisco Virtual Switch Update Manager.

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# Monitoring the Cisco Nexus 1000V Using Cisco Virtual Switch Update Manager

You can view the Virtual Supervisor module (VSM) and Virtual Ethernet module (VEM) details of the Cisco Nexus 1000V switch.

- Step 1** Log in to VMware vSphere Web Client.
- Step 2** In the vSphere Client, choose **Home > Cisco Virtual Switch Update Manager > Nexus1000V > Configure**.
- Step 3** Choose a data center and a distributed virtual switch, and then click **Monitor**.
- Note** You are prompted to enter your credentials if the switch is not managed by Cisco Virtual Switch Update Manager. For more information, see the chapter [Managing an Existing Cisco Nexus 1000V Switch](#).
- Note** If you register Cisco Virtual Switch Update Manager with vCenter when the vCenter plug-in is already installed, you might not see the **Cisco Nexus 1000V** tab under Monitor. If you do not see this tab, reboot VMware vSphere Web Client.
- Step 4** (Optional) You can also access the **Cisco Nexus 1000V Monitor** pane in the vSphere Client by choosing **vCenter > Distributed Switches**.
- Step 5** (Optional) In the switch pane, choose **Monitor > Cisco Nexus 1000V**.
- Step 6** Click **Dashboard**.  
The **Dashboard** pane displays following non configurable summary of the Cisco Nexus 1000V:

Name	Description
<b>System</b>	
Switch Name field	The name of the switch
NX-OS Version field	The Cisco NX-OS version and the build that the switch is using
VSM IP field	The IP address of the Virtual Supervisor Module (VSM)
DC Name field	The name of the data center
Connectivity Mode field	The mode of connectivity between the VSMS and the VEMs
VC Connectivity field	The status of vCenter connectivity
VSM HA field	The Virtual Supervisor Module (VSM) high availability mode
<b>Network Statistics</b>	
VNICs vs Max field	The maximum number of virtual network interface cards (VNICs) that are supported and their current usage

Name	Description
<b>Hosts vs Max</b> field	The maximum number of server hosts that are supported and their current usage
<b>Port-Groups vs Max</b> field	The maximum number of port groups that are supported and their current usage
<b>Veths/Host Max</b> field	The maximum number of vEthernet ports per host that are supported and their current usage
<b>VLAN vs Max</b> field	The maximum number of VLANs that are supported and their current usage
<b>VXLAN vs Max</b> field	The maximum number of VXLANs that are supported and their current usage
<b>Licenses</b>	The information of the license installed
<b>License Type</b> field	The type of the license
<b>Licenses Available</b> field	The licenses that are available to use
<b>Licenses Used</b> field	The licenses that are actually used
<b>Earliest Expiration</b> field	The earliest expiration time of the license
<b>Status</b> field	The status of the license

**Step 7** Click **Switch**.

**Step 8** Click **Host/VEM**.

The **Host/VEM** pane displays the following non configurable details of the host.

Name	Description
<b>Host Name</b> field	The name of the host
<b>NX-OS Version</b> field	The Cisco NX-OS version and the build that the host is using
<b>Host IP</b> field	The IP address of the host
<b>License</b> field	The license details of the host
<b>Host/Module</b> field	The number of modules per host
<b>VMs/Host</b> field	The number of VMs per host

Name	Description
VNICs / Host field.	The number of VNICs per host

**Step 9**

Click **VM Info**.

The **VM Info** pane displays the following non configurable details.

Name	Description
VMs field	The name of the VM
vNICs field	The name of the vNIC associated to the VM
Adapter field	The name of the adapter
Status field	The status of the VM
Port Group field	The port group associated with the VM
VLANs field	The VLAN associated with the VM
Host ID field	The module number of the host at VSM

**Step 10**

Click **Port Groups**.

The **Port Groups** pane displays the following non configurable details.

Name	Description
Port Group field	The name of the port profile
Type field	The type of port profile
VLANs field	The VLANs associated with the port profile
System VLANs field	The system VLANs associated with the port profile
Port Max field	The maximum number of ports available
Port Min field	The minimum number of ports available
Port Used field	The total number of the ports used

**Step 11**

Click **vNICs**.

The **vNICs** pane displays the following non configurable details.

Name	Description
vNICs field	The name of the vNIC
VM field	The name of the VM
Adapter field	The name of the adapter
Status field	The status of the vNIC
Port Group field	The port group associated with the vNICs
VLANs field	The VLANs associated with the vNICs
Host ID field	The module number of the host at the VSM

**Step 12** Click **Uplinks**.

The Uplinks pane displays the details of the Uplinks as described in the table below:

Name	Description
Switch Interface field	The name of the port
Status field	The status of the uplink
Port Channel field	The port channel associated with the uplink
Host ID field	The module number of the host at the VSM
Port Group field	The port group associated with the uplink
VLANs field	The VLANs associated with the uplink
CDP Uplinks field	The CDP uplink information

**Step 13** Click **Hosts/VEM**.

The Systems area in the Host/VEM pane displays the details of the host as described in the table below:

Name	Description
Host Name field	The name of the host
NX-OS Version field	The Cisco NX-OS version and the build that the host is using
Host IP field	The IP address of the host

Name	Description
License field	The license details of the host
Host/Module field	The number of modules per host
VMs/Host field	The number of VMs per host
VNIC/Host field	The number of VNICs per host

**Step 14**

Click **VM Info**.

The **VM Info** area provides the following host details:

Name	Description
VMs field	The name of VMs per host
VNICs field	The name of the vNICs per host
Adapter field	The name of the adapter
Status field	The status of the host
Port Group field	The port group associated with the VM of the host
VLANs field	The VLANs associated with the VMs of the host
Host ID field	The module number of the host at the VSM

**Step 15**

Click **Port Groups**.

The **Port Groups** area provides the following host details:

Name	Description
Port Group field	The name of the port group
Type field	The type of the port group
VLAN field	The VLANs associated with the host
System VLAN field	The system VLAN associated with the host
Ports Max field	The maximum number of port per host
Ports Min field	The minimum number of ports per host
Ports Used field	The total number of ports used

**Step 16** Click **vNICs**.

The **vNICs** area provides the following host details:

<b>Name</b>	<b>Description</b>
<b>VNICs</b> field	The name of the VNICs associated to the host
<b>VMs</b> field	The name of the VM associated to the host
<b>Adapter</b> field	The name of the adapter
<b>Status</b> field	The status of the vNIC associated to the host
<b>Ports Group</b> field	The name of the port group associated to the host
<b>VLANs</b> field	The VLANs associated with the host
<b>Host ID</b> field	The module number of the host at the VSM

**Step 17** Click **Uplinks**.

The **Uplinks** area provides the following host details:

<b>Name</b>	<b>Description</b>
<b>Switch Interface</b> field	The name of the port
<b>Status</b> field	The status of the uplink interface
<b>Port Channel</b> field	The port channel associated with the uplink
<b>Host ID</b> field	The module number of the host at the VSM
<b>Ports Group</b> field	The name of the port group per host
<b>VLANs</b> field	The VLANs associated with per host
<b>CDP Uplink</b> field	The CDP Uplink information

## Feature History for Cisco Virtual Switch Update Manager Monitoring Feature

This table includes only the updates for those releases that have resulted in additions or changes to the feature.

Feature Name	Releases	Feature Information
Cisco Virtual Switch Update Manager Monitoring Feature	Release 1.0	This feature was introduced.