

vRealize Operations Management Pack for NSX for vSphere 3.0.2

Release Notes

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vRealize Operations Management Pack for NSX for vSphere is designed for high level and drilled-down operations visibility, within highly virtualized networks where NSX technologies have been deployed.

Before You Install the Management Pack

This management pack requires that you install the vRealize Operations Manager 6.1 patch. See the VMware knowledge base article at <http://kb.vmware.com/kb/2139886>.

Upgrading from the Management Pack for NSX-vSphere 2.0

Before you upgrade from the Management Pack for NSX for vSphere 2.0 to the Management Pack for NSX for vSphere 3.0.2, perform the following:

1. Stop all NSX-vSphere and Physical Discovery adapter instances.
 - a. Click **Administration** and then click **Management Pack for NSX-vSphere** on the **Solutions** page.
 - b. Select each adapter instance and click **Stop Collecting**.
2. Delete all the Switch and Router objects.
 - a. Click **Administration** on the **Inventory Explorer** page.
 - b. Select all Switch and Router objects and delete them.
3. Install the PAK file that you downloaded with the solution, and configure adapter instances.
4. Start all the NSX-vSphere and Network Devices (formerly named Physical Discovery) adapter instances.
 - a. Click **Administration** and then click **Management Pack for NSX-vSphere** on the **Solutions** page.
 - b. Select each adapter instance and click **Start Collecting**.

Content Pack for Log Insight

The Management Pack for NSX for vSphere 3.0.2 is packaged with version 3.3 of the content pack for Log Insight. If you have configured Log Insight with vRealize Operations Manager, the content pack is installed when you install the management pack, enabling integrated workflows between Log Insight and the management pack dashboards. For more information, see *NSX for vSphere Log Insight Content Pack 3.3 Release Notes*.

What's New

Management Pack for NSX for vSphere 3.0.2 introduces the following new features:

- Alerts that report instances when a controller is down will now also inform about the power state of the controller, thus indicating if the controller is powered off.
- The performance of action-based troubleshooting has been improved and will now report results quicker.
- The *Get Distributed Firewall Statistics* action will now show statistics for all virtual NICs on a virtual machine.

Scalability

The Management Pack for NSX for vSphere collects data on NSX objects through NSX APIs. The scale of the management pack depends on the number of objects and metrics collected per object. Depending on the number of virtual machines in the environment and associated network topology requirements, the number of NSX objects varies in each environment. For the NSX-object related scale numbers, refer to the NSX documentation.

The Management Pack for NSX for vSphere has been tested up to a scale of 2000 NSX objects, however the management pack will continue to work if the object counts exceeds 2000. A vRealize Operations Manager cluster with three nodes was used for scalability testing. The cluster consisted of the master node, a single data node, and a remote collector.

Compatibility

vRealize Operations Management Pack for NSX for vSphere is compatible with the following products:

- vRealize Operations Manager 6.1 patch. See <http://kb.vmware.com/kb/2139886>.
- vRealize Operations Manager 6.1 or later
- vRealize Log Insight 3.0 or later (optional)
- NSX Manager 6.1.x or later
- vCenter Server 5.5 or later
- ESX Server 5.5 or later

Resolved Issues

- When the **Network I/O Usage Rate** container is not enabled for workload calculation in the active policy for hosts, the **Transport Node Network Workload** configuration on the NSX-vSphere main dashboard now shows suitable values for all hosts.
- The **Top Universal Networks** widget will now correctly show only universal logical switches.
- The **Transport Zone Network Workload** configuration for the Transport Layer widget on the NSX-vSphere main dashboard has been changed to show network utilization instead of workload.
- An issue that caused controllers and edges to report low capacity due to disk space consumption has been resolved.
- The alert `Virtual Machine's IP address is not in the same subnet as the Logical Router` is no longer triggered for edge and logical router controlled virtual machines.
- `Get Distributed Firewall Statistics` action will no longer show rules that have been disabled.
- An issue that caused the `Duplicate IP address` alert to be triggered falsely when guest introspection is enabled, has been resolved.
Note: If an alert is already open, manually clear the fault after upgrading the management pack.
- An issue that caused Management Pack for NSX to trigger false **Warning Problem** alerts related to IP addresses has been resolved.
Note: If an alert is already open, manually clear the fault after upgrading the management pack.

Known Issues

- The traceflow action is not currently supported between two virtual machines that reside in different vCenters.
- If Log Insight is configured after the Management Pack for NSX for vSphere has been installed, the content pack for NSX for vSphere may not be installed automatically. To force installation of the content pack, edit the configuration of the Management for NSX for vSphere adapter instance in vRealize Operations Manager and click the **Test** button. The content pack will then be deployed to Log Insight.
- In some environments, the Management Pack for NSX for vSphere may impact the performance of NSX edges due to the volume of API calls that are made. It is possible to lower the number of API calls by disabling the collection of all metrics and properties on the following object types:
 - DHCP Edge Service
 - IPSec VPN Edge Service
 - Load Balancer Edge Service
 - SSL VPN Edge Service
- The 'Check for synchronization issues' and the 'Check host configuration' actions cannot be run on universal logical switches that span multiple vCenter servers.
- When using the Management Pack for NSX for vSphere in a multi-vCenter setup of NSX, the NSX-vSphere Universe dashboard does not automatically show new NSX for vSphere Managers that are added to the environment.

Workaround:

1. Verify that the NSX-vSphere Universe dashboard is displayed on the Home page. If not, to display the dashboard:
 - a. Click the **Content** icon, and select **NSX-vSphere Universe**.
 - b. Click the **Configure** icon and select **Add Dashboard(s) to Home**.
 2. Select **Environment** -> **Custom Groups**, and expand **Environment**.
 3. Select **NSX-vSphere Primary Environments**, and from the **Actions** menu, select click **Edit Group**.
 4. Select the **Keep group membership up to date** check box.
- When you run the 'Show runtime state for host' action for a Universal Logical Router, you may not see all the hosts from each vCenter. Currently only hosts from a single vCenter server are shown.
 - Automatic installation of the content pack for Log Insight only occurs with Log Insight 3.0 or above.
 - Do not manually uninstall any instances of the content pack for Log Insight before installing the Management Pack for NSX for vSphere. This may create multiple definitions of the same alert, and specific alerts may not be triggered. The Management Pack for NSX for vSphere installs the content pack for Log Insight that is optimal for the NSX environment, and overwrites any other version.
 - After upgrading from the Management Pack for NSX for vSphere 2.0, you must reconfigure the Network Device adapter (previously named the Physical Discovery adapter), and add a new credential.
 - When configuring the adapter instance, testing the connection to the NSX Manager may fail if the NSX Manager's certificate uses the RSASSA-PSS encryption algorithm. This algorithm isn't supported by vRealize Operations Manager, so a different certificate must be used instead.
 - When using Log Insight with vRealize Operations Manager, alerts from the Management Pack for NSX for vSphere do not appear as enabled in the Log Insight Admin console. Alerts are still forwarded to vRealize Operations Manager.
 - The Management Address property of hosts is only available if the host is running ESX 5 or above.
 - Collection of network statistics on Edge firewalls is disabled by default in order to reduce the load on NSX and optimize the collection time of the management pack in large environments. To enable these statistics for collection in the active policy, perform the following:
 1. Click the **Administration** tab, and then click **Policies**.
 2. On the **Policy Library** tab, edit the current active policy, **Default Policy** is selected by default, and click **Edit Selected Policy**.
 3. In Override Attributes, select **NSX-vSphere Edge Firewall Service** as the Object Type.
 4. Enable the "Network|Connections" metric.
 5. In Override Analysis Settings, select **NSX-vSphere Edge Firewall Service** as the Object Type.
 6. Enable the Workload section and check the Network entry under Resource Container.
 7. Enable the Capacity Remaining section and check the Network entry under Resource Container.
 8. Enable the Stress section and check the Network entry under Resource Container.
 9. Click **Save**.
 - If one or more hosts or virtual machines stops collecting data from vCenter, the Management Pack for NSX for vSphere will continue to show those objects as collecting data.

- When you run a VXLAN Tunnel Endpoint Connectivity test on a logical switch, the test will fail if the NSX for vSphere adapter instance name is identical to the name of any object that has been collected by vRealize Operations Manager, for example, 'NSX Manager', or 'Controller Cluster'. When you configure the NSX for vSphere adapter, make sure that you give the adapter a unique name.

In case there is no traffic flowing through the virtual servers of the NSX Edge Load balancer services, the traffic statistics of the Load balancer Pool Members will not be collected and pool members will not be shown in the metric picker. Workaround: Enable traffic on the NSX Edge Load balancer virtual servers.