



VMware vRealize® Operations Management Pack™ for Container Monitoring 1.1 Release Notes

vRealize® Operations Management Pack™ for Container Monitoring Release Notes | Build 7999190
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Introduction

With VMware vRealize® Operations Management Pack™ for Container Monitoring, Virtual Infrastructure Administrators can get complete Kubernetes topology of Namespaces, Clusters, Replica Sets, Nodes, Pods, and Containers for monitoring Kubernetes clusters. The OOTB dashboard not only provides an overview of the Kubernetes eco-system, but also helps in troubleshooting by highlighting the Key Performance Index and alerts for various objects pertaining to Kubernetes clusters that are monitored. The management pack extends the monitoring capability of vRealize Operations Manager to provide insights to the Kubernetes clusters to the Virtual Infrastructure administrator.

What's New

- Support for token and client certificate based authentication.
- Ability to connect to cAdvisor service on Kubelet or deployed as a DaemonSet.
- Mapping of Kubernetes nodes to vSphere VM objects.
- Support for Kubernetes 1.5.x to 1.9.3.

Product Interoperability

The following section lists the product interoperability of VMware vRealize® Operations Management Pack™ for Container Monitoring 1.1.

- VMware vRealize Operations Manager 6.6.1 and above.
- Kubernetes 1.5.x to 1.9.3.

Limitations

- Discovery of the Replication Controller has been disabled.



- API versions are limited to:
 - extensions/v1beta1 on Kubernetes v1.5.x – 1.7.x
 - apps/v1beta2 on Kubernetes v1.8.x
 - apps/v1 on Kubernetes 1.9.x

Known Issues

- If you upgrade from VMware vRealize® Operations Management Pack™ for Container Monitoring 1.0 to 1.1, the collection state displays a status called **Not Collecting** for all the adapter instances. This occurs because of the addition of new settings and credential types in the 1.1 version of VMware vRealize® Operations Management Pack™ for Container Monitoring.

Workaround: All the adapter instances must be deleted and recreated. This will lead to creation of new objects. However, you can retain the old objects to keep historical data intact.

- 1) From the main menu of vRealize Operations Manager, click **Administration**, and then in the left pane click **Solutions**.
 - 2) From the **Solutions** page, select VMware vRealize Operations Management Pack for Container Monitoring.
 - 3) Click the **Configure** icon. The **Manage Solution** dialog box appears.
 - a. Select an adapter instance.
 - b. Click the **Delete** icon.
 - c. When the Confirmation dialog box appears and if you want to retain historical data, deselect the option **Remove related objects**.
 - 4) Recreate the adapter instance by following steps provided in User Guide.
 - 5) Repeat the above steps for all adapter instances.
- During configuration, VMware vRealize® Operations Management Pack™ for Container Monitoring verifies if the cAdvisor service is accessible on every node. An error message similar to the following may appear: Unable to establish a valid connection to the target system. cAdvisor service on following nodes is either not reachable OR of a lower version than v2.1. The error occurs if the cAdvisor service is inaccessible or if the API version is lesser than 2.1. You may sometimes receive this error if the cAdvisor service temporarily throws a gateway error at the time of verification.

Workaround:

1. Verify if the cAdvisor service is up and running on the affected nodes and responds to API calls.
 2. Verify if the API version of the cAdvisor service is later than 2.1. If not, deploy the latest version of the cAdvisor service.
If you have completed the above two steps, you can ignore the error message and continue to save the adapter instance.
- Under recommendations, the **Defined by** column is displayed as KubernetesAdapter3.



General Information

- For a Pod object to collect metrics, enable Super Metric **Memory Usage(MB)** and **CPU Usage (Cores)**. To enable super metric, perform the following:
 - Click **Administration**.
 - In the left pane click **Configuration > Super Metrics**.
 - Select active policy from the **Policy** library and click **Edit**.
 - Select the **Collect metrics and properties** tab.
 - Set **Attribute Type** to Super Metric and **Object type** to Kubernetes pod and enable the **Memory Usage (MB)** and **CPU Usage (Cores)** metrics.
- The Disk IO metric for node might be missing in some clusters due to the variations in Kubelet configuration.

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