Cloud Manager 2.5.1 Patch 2 Release Notes

February 2018

Cloud Manager 2.5 Support Pack 1 Patch Update 2 (2.5.1 Patch 2) resolves several issues for Cloud Manager 2.5.1. This patch is cumulative. It includes hotfixes and patches that have been provided since the Cloud Manager 2.5.1 release.

The documentation for this product is available in HTML and PDF formats at the Cloud Manager 2.5 Documentation website (https://www.netiq.com/documentation/cloud-manager-2-5).

- Section 1, “Version,” on page 1
- Section 2, “Resolved Issues for Patch 2,” on page 1
- Section 3, “Resolved Issues for Patch 1 and Patch 2,” on page 2
- Section 4, “Requirements,” on page 2
- Section 5, “Files Included in This Patch,” on page 3
- Section 6, “Applying the Orchestration Server Patch,” on page 3
- Section 7, “Applying the Application Server Patch,” on page 5
- Section 8, “Known Issues,” on page 6
- Section 9, “Supplemental Documentation,” on page 6
- Section 10, “Previous Releases,” on page 7
- Section 11, “Contacting Micro Focus,” on page 7
- Section 12, “Legal Notice,” on page 8

1 Version

This patch includes all of the files you need to update the Application Server 2.5.1 component of Cloud Manager to Application Server 2.5.1 Patch 2, and to update the Orchestration Server 3.5.1 component of Cloud Manager to Orchestration Server 3.5.1 Patch 2.

2 Resolved Issues for Patch 2

Cloud Manager 2.5.1 Patch 2 provides fixes for the following issues:

- **SR 101054777911:** Timed out waiting for Customizer VM to shut down. (High)
- **SR 101113012241:** Limit maximum number of VMs per Business Service. You can configure a system-level limit for the number of VMs allowed per Business Service. For more information, see “Configuring Maximum Number of VMs for a Business Service” in the Supplemental Documentation section in this document.

3 Resolved Issues for Patch 1 and Patch 2

Cloud Manager 2.5.1 Patch 2 provides fixes for the following issues that were previously provided as Cloud Manager 2.5.1 Patch 1.

- Section 3.1, “Deployed Server Has Different Values of CPU and RAM,” on page 2
- Section 3.2, “Timed Out Waiting for Customizer VM to Shut Down,” on page 2
- Section 3.3, “CMOS Is Busy After vSphere Boot and Every 24 Hours Later,” on page 2
- Section 3.4, “Reports Are Not Working If Clusters Use Windows Server 2016,” on page 2

3.1 Deployed Server Has Different Values of CPU and RAM

Issue: A timing issue results in CPU and RAM values being overwritten before the Save Configuration job runs during provisioning. (SR 101030383971)

Fix: In this release, Cloud Manager does not attempt to set CPU and RAM values if there is an ongoing action in CMOS. This approach should honor the intended settings in the Save Configuration job and avoid the previous timing issues.

3.2 Timed Out Waiting for Customizer VM to Shut Down

Issue: A provisioning job fails if the job times out while waiting for the customizer VM to shut down gracefully. (SR 101054777911)

Fix: If a provisioning job times out, Cloud Manager first attempts to force a shutdown of the customizer VM. The provisioning job fails only if the forced shutdown task fails.

3.3 CMOS Is Busy After vSphere Boot and Every 24 Hours Later

Issue: Disks were not properly discovered from VMware because the classes for `VirtualDeviceRemoteDeviceBackingInfo` were not included in the discovery. When vSphereUpdater compared disks against the information in CMOS, it incorrectly identified the disks as having changes and triggered resynchronization operations for them. The number of concurrent resynchronizations can overwhelm the server, such that CMOS was busy after a vSphere boot and every 24 hours later. (SR 101099332941)

Fix: This release correctly identifies the disks that have changed and triggers resynchronization only for the ones that have actually changed.

3.4 Reports Are Not Working If Clusters Use Windows Server 2016

Issue: Reports did not include information for Windows Server 2016 Clusters. (SR 101076042841)

Fix: This release adds support for Windows Server 2016 Clusters in reports.

4 Requirements

Apply the Cloud Manager 2.5.1 Patch 2 files to your existing Cloud Manager 2.5.1 Application Server and Cloud Manager 3.5.1 Orchestration Server.

5 Files Included in This Patch

Cloud Manager 2.5.1 Patch 2 is available on the Micro Focus Patch Finder website (https://download.microfocus.com/patch/finder/). Specify `Cloud Manager` as the product, then search for patches for Cloud Manager 2.5.

Cloud Manager 2.5.1 Patch 2 provides the `NCM_2.5.1_PatchUpdate2.zip` file that contains the updates. The patch update consists of a ZIP file with the Cloud Manager Orchestration Server update files, and an RPM file for the Cloud Manager Application Server updates.

- `cmos.zip` (for the Orchestration Server), which includes these files:

  ```
  customizeconstants.py
  customizer.jdl
  customizer.job
  libcustomize.pylib
  vi-client.jar
  vsphere_interface.py
  ```

- `CMOS_Customizer_LiveCD.i686-2.1.0.iso`
- `netiq-cloudmanager-2.5.1-`*`xx`*`.noarch.rpm` (for the Application Server), where *xx* is the build number.

6 Applying the Orchestration Server Patch

To apply the Orchestration Server patch to your Orchestration Server, you must install the files in the `cmos.zip` file.

- Section 6.1, “CMOS Patch Installation Prerequisites,” on page 3
- Section 6.2, “Installing the Orchestration Server Patch Files,” on page 3

6.1 CMOS Patch Installation Prerequisites

Ensure that the following prerequisites are met before you install the patch files:

- Cloud Manager Orchestration Server 3.5.1 is installed, and is up and running.
- Extract the files from `cmos.zip` and copy them to an accessible directory on the Cloud Manager Orchestration Server.
- Copy the `CMOS_Customizer_LiveCD.i686-2.1.0.iso` file to an accessible directory on the Cloud Manager Orchestration Server.

6.2 Installing the Orchestration Server Patch Files

Use the following instructions to install the patch files on your Orchestration Server 3.5.1 Server and update it to version 3.5.1 Patch 2.

NOTE: A restart is required after you apply the files to your existing Orchestration Server.

- Section 6.2.1, “Applying the `CMOS_Customizer_LiveCD.i686-2.1.0.iso` Patch File,” on page 4
- Section 6.2.2, “Applying the `customizeconstants.py` Patch File,” on page 4
- Section 6.2.3, “Applying the `vsphere_interface.py` Patch File,” on page 4

- Section 6.2.4, “Applying the `libcustomize.pylib` Patch File,” on page 4
- Section 6.2.5, “Applying the `customizer.job` Patch File,” on page 5
- Section 6.2.6, “Applying the `customizer.jdl` Patch File,” on page 5
- Section 6.2.7, “Applying the `vi-client.jar` Patch File,” on page 5
- Section 6.2.8, “Restart the CMOS Server,” on page 5

NOTE: If you see an incorrect FQDN on a workload after applying the files in this patch, you might need to rediscover the VMs.

6.2.1 Applying the `CMOS_Customizer_LiveCD.i686-2.1.0.iso` Patch File

To apply the `CMOS_Customizer_LiveCD.i686-2.1.0.iso` patch file to the Orchestration Server:

1 Copy the `CMOS_Customizer_LiveCD.i686-2.1.0.iso` file to the following location:

```
/opt/novell/zenworks/zos/server/doc/install/
```

In a console, enter

```
cp CMOS_Customizer_LiveCD.i686-2.1.0.iso /opt/novell/zenworks/zos/server/doc/
install/
```

6.2.2 Applying the `customizeconstants.py` Patch File

To apply the `customizeconstants.py` patch file to the Orchestration Server:

1 Replace the old `customizeconstants.py` file in the following location with the new `customizeconstants.py` file from the patch:

```
/var/opt/novell/zenworks/zos/server/store/deployed/libcustomize.pylib-64/
libcustomize.pylib/libcustomize/
```

In a console, enter

```
cp customizeconstants.py /var/opt/novell/zenworks/zos/server/store/deployed/
libcustomize.pylib-64/libcustomize.pylib/libcustomize/
```

6.2.3 Applying the `vsphere_interface.py` Patch File

To apply the `vsphere_interface.py` patch file to the Orchestration Server:

1 Replace the old `vsphere_interface.py` file in the following location with the new `vsphere_interface.py` file from the patch:

```
/var/opt/novell/zenworks/zos/server/store/deployed/libcustomize.pylib-<jobid>/
libcustomize.pylib/libcustomize/
```

6.2.4 Applying the `libcustomize.pylib` Patch File

To apply the `libcustomize.pylib` patch file to the Orchestration Server:

1 Replace the old `libcustomize.pylib` file in the following location with the new `libcustomize.pylib` file from the patch:

```
/var/opt/novell/zenworks/zos/server/snapshot/deployment/core/
```

6.2.5 Applying the `customizer.job` Patch File

To apply the `customizer.job` patch file to the Orchestration Server:

1. Replace the old `customizer.job` file in the following location with the new `customizer.job` file from the patch:

   `/var/opt/novell/zenworks/zos/server/snapshot/deployment/core/`

6.2.6 Applying the `customizer.jdl` Patch File

To apply the `customizer.jdl` patch file to the Orchestration Server:

1. Replace the old `customizer.jdl` file in following location with the new `customizer.jdl` file from the patch:

   `/var/opt/novell/zenworks/zos/server/store/deployed/customizer.job-<jobid>/customizer.job/`

6.2.7 Applying the `vi-client.jar` Patch File

To apply the `vi-client.jar` patch file to the Orchestration Server:

1. Copy `vi-client.jar` to the following location:

   `/var/opt/novell/zenworks/zos/server/store/deployed/vsphere.sar-<jobid>/vSphereUpdate.job/`

2. Restart the `vSphereUpdate` scheduled job.

   2a In the Scheduler view of the Orchestration Server console, locate and select the `vSphereUpdate` scheduled job.

   2b On the **Job Arguments** page of the Job details section of the view, locate the **mode** field, deselect its **Lock** check box, and type `stop` in the field.

   2c In the console toolbar, click **Save**, then in the Scheduler view, click **Run Now**. Monitor the job progress.

   2d When the Job status shows **success**, delete the `stop` argument you previously entered in the **mode** field at Step 2b, then repeat Step 2c.

   This step ensures that the new `vi-client.jar` library you applied to the Orchestration Server is transferred to the Orchestration Agent running the `vSphereUpdate` job. The new library fixes the vSphere updater on the agent.

6.2.8 Restart the CMOS Server

To restart the Orchestration Server from the command line, enter the following command:

```
/etc/init.d/novell-zosserver restart
```

7 Applying the Application Server Patch

To apply the Application Server patch to your Application Server, you must install the files in the `netiq-cloudmanager-2.5.1-xx.noarch.rpm` file.

- Section 7.1, “CMAS Patch Installation Prerequisites,” on page 6
- Section 7.2, “Installing the Application Server Patch,” on page 6

7.1 CMAS Patch Installation Prerequisites

Ensure that the following prerequisites are met before you install this patch:

- Cloud Manager Application Server 2.5.1 is installed, and is up and running.
- Extract the `netiq-cloudmanager-2.5.1-xx.noarch.rpm` file from the patch and copy it to an accessible directory on the Cloud Manager Application Server, such as the `/tmp` directory.

7.2 Installing the Application Server Patch

After you have copied the patch file to the server, use the following steps to install the file:

1. From the location where you copied `netiq-cloudmanager-2.5.1-xx.noarch.rpm` file, run the following command:

   ```
   rpm -Uvh --nodeps netiq-cloudmanager-2.5.1-xx.noarch.rpm
   ```

2. Run the Cloud Manager configuration program from the following location:

   `/opt/netiq/cloudmanager/configurator/config`

3. Choose to run an upgrade for the Cloud Manager Server.
4. Verify that the `netiq-cloudmanager-2.5.1-xx.noarch.rpm` file is installed.
   - **4a** Log in to the Cloud Manager Web Console.
   - **4b** In the Web Console, click **Help > About**.
   - **4c** In the About box, verify the following:
     - Server version is `2.5.1` and build number is `81.1.13`
     - Web UI version is `2.5.1` dated `01/31/2018`

8 Known Issues

NetIQ Corporation strives to ensure our products provide quality solutions for your enterprise software needs. There are no known issues for this patch release.

If you need assistance with specific product issues, please contact Customer Care.

9 Supplemental Documentation

Cloud Manager 2.5.1 Patch 2 provides a new option that enables you to configure a global setting for the number of workloads you can assign to a Business Service.

9.1 Configuring Maximum Number of VMs for a Business Service

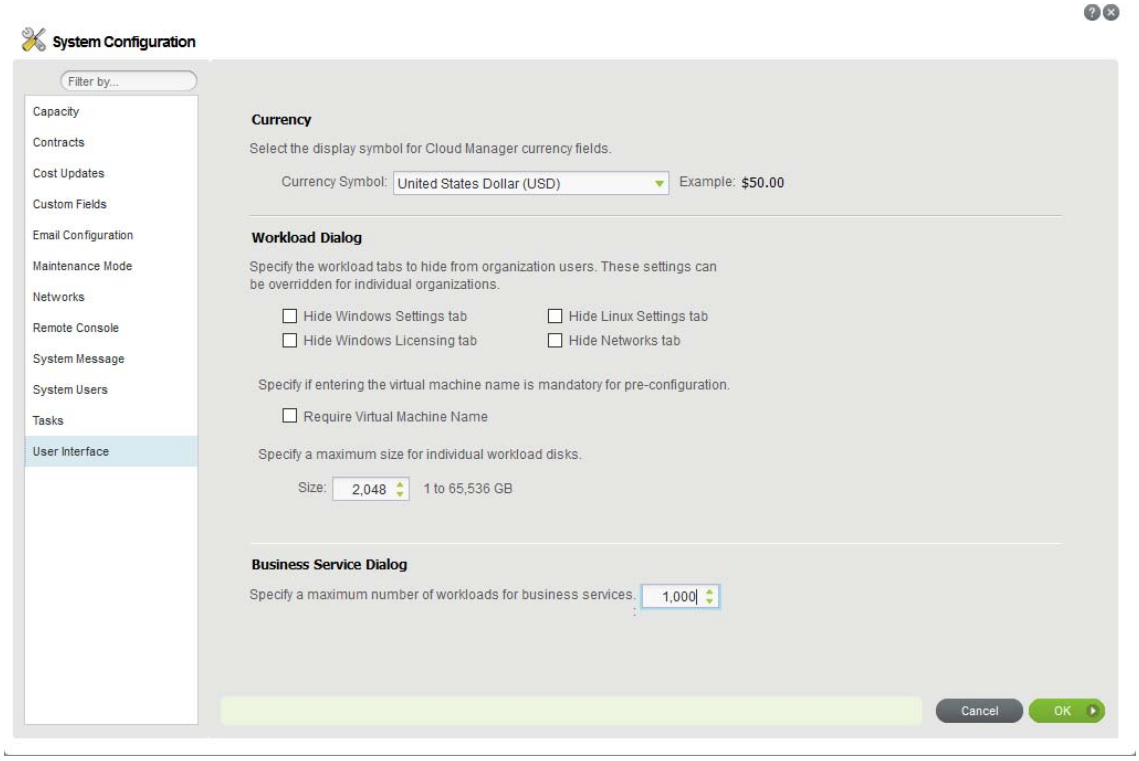
You can limit the number of VMs allowed to be configured for a Business Service by setting a global system setting in the System Configuration dialog. The default value is 1000. This value is intentionally set to a high value to allow any practical number of VMs to be added to a Business Service.

Setting a limit is optional. You can specify a smaller value to enforce consistent maximum values and to improve performance in your environment. Specify a value based on your operational needs and performance characteristics of your deployment.

To specify a maximum number of VMs for a Business Service:

1. In the System Configuration dialog, select **User Interface**.

2 Under Business Service dialog, specify the maximum number of workloads to allow users to configure for each Business Service.



3 Click **OK** to apply the setting.

10 Previous Releases

For documentation that accompanied earlier releases, visit the Cloud Manager Documentation website (https://www.netiq.com/documentation/cloud-manager-2-5) and scroll to *Previous Releases*.

11 Contacting Micro Focus

We want to hear your comments and suggestions about this document and the other documentation included with this product. You can use the **comment on this topic** link at the bottom of any page of the online documentation, or send an email to Documentation-Feedback@microfocus.com.

For specific product issues, contact Micro Focus Support at https://www.microfocus.com/support-and-services/.

Additional technical information or advice is available from several sources:

- Product page: https://www.microfocus.com/products/cloud-manager/
- Knowledge Base articles, and videos: https://www.microfocus.com/support-and-services/
- The Micro Focus Community pages: https://www.microfocus.com/communities/

12 Legal Notice

For information about legal notices, trademarks, disclaimers, warranties, export and other use restrictions, U.S. Government rights, patent policy, and FIPS compliance, see https://www.microfocus.com/about/legal/.

Copyright © 2018 NetIQ Corporation. All Rights Reserved.