

NetIQ Cloud Manager 2.3 Patch 2 Release Notes

November 19, 2014



Cloud Manager 2.3 Patch 2 (NCM_2.3.0_Patch2.zip) is a cumulative patch: all of the files needed to update the Cloud Manager Application Server 2.3 and the Cloud Manager Orchestration Server 3.3 (including Patch 1 and Patch 2) are included.

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1 Issues Fixed in Patch 1

The following bugs are fixed when you apply the files included Cloud Manager 2.3 Patch 1:

- ♦ Bug 876774: *cmMobile: Unable to create workload template - error: Missing Selection.*
- ♦ Adjustments for null pointer exception in IdentityContextManager.
- ♦ Adjustments to ForceWorkflowCompletionCommand command to attempt to clean up Business Service Requests and Change Requests that have no workflow.
- ♦ Enhanced workflow-related logging.
- ♦ Bug 861085 - *[FTF] NCM 2.2.0/2.2.2 Imported machine adding new NIC fails - Error No root disk found.*
- ♦ Fixed an issue with datastore search: Searching from the root directory rather than the subdirectory, which caused provisioning jobs to take a long time to complete.
- ♦ Fixed an issue with detecting a virtual machine's (VM's) VNC port configuration: Occasionally, vSphere reflected an empty string "" as the value, causing a failure when casting an empty string to an integer. The fix added a check to make sure there is a value in the extra configuration port setting for a VM before trying to cast it to an integer.
- ♦ Formerly, the contents of the `.../config`, `.../console`, and `.../plugins` directories located on the Cloud Manager Application Server were accessible with a web browser, making those folder listings visible to users. This potential security issue was resolved by making those folders forbidden to browsing.

2 Issues Fixed in Patch 2

The following bugs are fixed when you apply the files included Cloud Manager 2.3 Patch 2:

- ♦ SR10907978361 - In some configured vSphere environments, customers would change a workload on the ESX server and that change would not be replicated in the vSphere Updater job in the Cloud Manager Orchestration Server. This could be manifest with errors such as `VM Tools Not Running`. The updater has been modified to function correctly after applying the Orchestration Server Patch.
- ♦ SR10919554851 - Formerly, email notifications were being sent only to the business service requester. With this patch, a Cloud Administrator can add a specific property to the `/opt/netiq/cloudmanager/etc/system.properties` file, any user with specified permission(s) on the business service receives an email notification.

For further implementation details, see [Enabling Email Notifications for Users with Specific Permissions](#) in this document.

- ♦ SR10920711341 - A user (such as a Business Group Owner or Business Group Viewer) can now search for values in the Hostname field on the deployed workloads list.
- ♦ SR10918270071 - If you have multiple blocks in your IPAM with the same `NCMNetworkID` and then import a VM using that network into Cloud Manager, the VM could end up in a state where it has no association to its IPAM address, which would cause it to fetch a new IP address on a change request. The product now detects duplicate `NCMNetworkID` values and cleans them up.
- ♦ SR10918026811 - Formerly, running the **Business Service Cost Details** report without a start date parameter (the default) could stall the report builder. The report can now be generated without a start date.
- ♦ Bug 901327 - Formerly, if you were to select a deployed business service and then select **Change**, the Hostname field was not included in the list of workloads. The hostname field has now been added on the workload list for the Change operation.

3 Applying the Orchestration Server Patch

- ♦ [Section 3.1, "Patch Installation Prerequisites," on page 2](#)
- ♦ [Section 3.2, "Installing the Orchestration Server Patch Files," on page 3](#)

3.1 Patch Installation Prerequisites

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

- ♦ Cloud Manager Orchestration Server 3.3 is installed, and is up and running.
- ♦ Extract the `cmos.zip` file from Cloud Manager 2.3 Patch 2 (`NCM_2.3.0_Patch2.zip`) and copy the following files to an accessible directory on the Cloud Manager Orchestration Server:
 - ♦ `libvsphere.pylib` (fixes made in Patch 1)
 - ♦ `vmprep.sar` (fixes made in Patch 1)
 - ♦ `vi-client.jar` (fixes made in Patch 2)
 - ♦ `vsphere.sar` (fixes made in Patch 2)

NOTE: If you have never applied a patch to the Cloud Manager Orchestration Server 3.3, you must apply all of the files listed above. If you previously applied Patch 1, you must apply only the files for Patch 2.

3.2 Installing the Orchestration Server Patch Files

- [Section 3.2.1, “Applying the libvsphere.pylib Patch File,” on page 3](#)
- [Section 3.2.2, “Applying the vmprep.sar Patch File,” on page 3](#)
- [Section 3.2.3, “Applying the vi-client.jar Patch File,” on page 3](#)
- [Section 3.2.4, “Applying the vsphere.sar Patch File,” on page 4](#)

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

3.2.1 Applying the libvsphere.pylib Patch File

To apply the libvsphere.pylib patch file to the Orchestration Server:

- 1 Copy libvsphere.pylib to the following location:
`/opt/novell/zenworks/zos/server/components/pylib/libvsphere.pylib`
- 2 In the Explorer Tree of the Orchestration Server console, expand the **Public JDL Libraries** container, right-click the **libvsphere** object, then select **Undeploy**.
- 3 Right-click the **Public JDL Libraries** container, select **Deploy**, then browse to the location of the new library (see [Step 1](#) above):
`/opt/novell/zenworks/zos/server/components/pylib/libvsphere.pylib`
This redeploys the libvsphere library.

3.2.2 Applying the vmprep.sar Patch File

To apply the vmprep.sar patch file to the Orchestration Server:

- 1 Copy vmprep.sar to the following location:
`/opt/novell/zenworks/zos/server/components/jobs/vmprep.sar`
- 2 In the Explorer Tree of the Orchestration Server console, expand the **Jobs** container and then the **all** container, right-click the **vmprep** object, then select **Undeploy**.
- 3 Right-click the **all** container, select **Deploy**, then browse to the location of the new library (see [Step 1](#) above):
`/opt/novell/zenworks/zos/server/components/jobs/vmprep.sar`
This redeploys the vmprep job.

3.2.3 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/vi-client.jar`
- 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, ensure that the accompanying **Lock** check box is deselected, and type `stop` in the field.

- 2c** In the console toolbar, click the **Save** icon, in the Scheduler view click **Run Now**, then 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.

3.2.4 Applying the `vsphere.sar` Patch File

To apply the `vsphere.sar` patch file to the Orchestration Server:

- 1 Copy `vsphere.sar` to the following location:

```
/opt/novell/zenworks/zos/server/components/jobs/vsphere.sar
```

Copying the file ensures that the patched `vi-client.jar` is included in the `vsphere` job if it is ever re-deployed.

4 Running the Patch RPM on the Application Server

The `netiq-cloudmanager-2.3.0-183.noarch.rpm` file found in `NCM_2.3.0_Patch2.zip` is specifically for the Cloud Manager Application Server 2.3. The RPM is an installer program that applies cumulative patch files (that is, *all* of the updated `.jar` files for *every* patch that has been released to date) to the Cloud Manager Application Server 2.3.

For your information, the files included in the RPM include the following:

- ♦ `common-79.*.jar`
 - ♦ Fixes a Cloud Manager Mobile bug.
- ♦ `cm-core-79.*.jar`
 - ♦ Includes adjustments for null pointer exception in `IdentityContextManager`, for `forceworkflow`, and increased logging capabilities for `workflow`.
 - ♦ Includes adjustments to allow sending email notifications to users with specified permissions.
 - ♦ Detects and fixes a missing IPAM configuration when a workload is synchronized.
 - ♦ Includes a Karaf command that attempts to recover IPAM configuration data for all workloads whose IPAM configuration information has been cleared because more than one entry existed in IPAM for one network.

Run the following command from the Karaf shell:

```
cm:recover-ipam-releasedata
```

You can add the `-b business service ID` option to the command if you want to recover IPAM configuration data for all workloads in a business service. For more options for this command, use the `--help` option.

- ♦ `external-79.*.jar`
 - ♦ Fixes a Cloud Manager Mobile bug.
 - ♦ Allows filter/search in the workloads list to identify workloads based on the computer name.

- ♦ persistence-79.*.jar
 - ♦ Fixes a Cloud Manager Mobile bug.
 - ♦ Allows filter/search in the workloads list to identify workloads based on the computer name.
- ♦ cm-task-core-79.*.jar
 - ♦ Includes adjustments for null pointer exception in IdentityContextManager, for forceworkflow, and increased logging capabilities for workflow.
- ♦ cloudmanager-2.3.*.war
 - ♦ Allows filter/search in the workloads list to identify workloads based on the computer name.
- ♦ pso-service-79.0.*.jar
 - ♦ Includes a Karaf command that surfaces the timings of calls to the REST interface of the Cloud Manager Orchestration Server.

The following command turns on a log trace for the elapsed time of all REST calls to the server:

```
karaf> log:set TRACE com.novell.cm.pso.service.impl
```

The following command resets the log level to default so these timing messages no longer appear in the log:

```
karaf> log:set INFO com.novell.cm.pso.service.impl
```

This section includes the following information:

- ♦ [Section 4.1, “Patch Installation Prerequisites,” on page 5](#)
- ♦ [Section 4.2, “Running the Patch RPM,” on page 5](#)
- ♦ [Section 4.3, “Enabling Email Notifications for Users with Specific Permissions,” on page 6](#)

4.1 Patch Installation Prerequisites

Ensure that the following prerequisites are met before you run the RPM:

- ♦ Cloud Manager Application Server 2.3 is installed, and is up and running.
- ♦ Extract the netiq-cloudmanager-2.3.0-183.noarch.rpm file from the patch (NCM_2.3.0_Patch2.zip) and copy it to an accessible directory on the Cloud Manager Application Server.

For example: /tmp/ncm2.3_patch/netiq-cloudmanager-2.3.0-183.noarch.rpm

4.2 Running the Patch RPM

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-2.3.0-183.noarch.rpm, run the following command:


```
rpm -Uvh --nodeps netiq-cloudmanager-2.3.0-183.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-2.3.0-183.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 2.3.0 and build number is 79.0.181
- ♦ Web UI version is 2.3.0 dated 11/17/14

4.3 Enabling Email Notifications for Users with Specific Permissions

You can control the individuals who can receive email notification when a business service is deployed or a change request has completed if you add the `ncm.bs.deploy.perms` property to the `/opt/netiq/cloudmanager/etc/system.properties` file.

As you add this new property, you also need to add the permissions to be honored on the business service. Any user with those permissions will receive the email notifications. For example, if you wanted a user with `SYSTEM_SUPPORT` permission or `MODIFY_BS` or `VIEW_BS` permission to receive emails when the business service is being deployed or changed, you would modify the `/opt/netiq/cloudmanager/etc/system.properties` file like this:

```
...
...
ncm.bs.deploy.perms=SYSTEM_SUPPORT,MODIFY_BS,VIEW_BS
...
...
```

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