

# IBM Tivoli Netcool/Proviso 4.4.1

## Applying a DataMart patch



This IBM Education Assistant module describes how to apply a patch to the DataMart product component.

## Objectives

- Upon completion of this module, you should be able to:
  - Apply a patch to the DataMart module
  - View the patch installation log

Upon completion of this module, you should be able to apply a patch to the DataMart module, which is a core component within Netcool/Proviso. You will also be able to confirm that the patch application, or installation, was successful using the patch installation log.

## Assumptions

- Before applying a DataMart patch:
  - Have Netcool/Proviso 4.4.1 installed and running
  - Log in to the DataMart host as root
  - Plan to apply patches during a scheduled maintenance window

Netcool/Proviso 4.4.1 must be installed and running before the patch installation is performed. The patch installation must be performed by a user with root-level permissions. Some patches might require downtime for the Netcool/Proviso environment, so plan to apply DataMart patches during a scheduled maintenance window.

## Save and extract the patch file

- Save the patch to the DataMart host
- Use the gzip and tar utilities to extract the patch files

```
gzip -d <file_name>
tar -xvf <file name>
```

Example:

```
# gzip -d 4.4.1-SP2.tar.gz
# tar -xvf 4.4.1-SP2.tar
x PATCHES, 0 bytes, 0 tape blocks
x PATCHES/DM4.4.1-patches, 0 bytes, 0 tape blocks
x PATCHES/DM4.4.1-patches/DM4.4.1-patch-ora9, 0 bytes, 0 tape blocks
x PATCHES/DM4.4.1-patches/DM4.4.1-patch-ora9/pvm.ar, 5932151 bytes, 11587
  tape blocks
x PATCHES/DM4.4.1-patches/DM4.4.1-patch-ora9/tools.ar, 1412635 bytes,
  2760 tape blocks
x PATCHES/patch441.sh, 9223 bytes, 19 tape blocks
```

If more than one DataMart is present in your environment, you must follow these steps on each DataMart host.

Save the patch to the local DataMart host. The file extension of the patch file is .tar.gz.

Use the gzip -d or the gunzip command to extract the patch file to a tar file.

Use the tar -xvf command to fully extract the patch and all supporting files.

The patch extracts to a directory named PATCHES. This slide illustrates the two-step extraction process.

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## Review patch documentation

- Read the README text file that is included with the patch. The documentation includes the purpose of the patch and the installation instructions

Before applying the patch, review the README text file that accompanies the patch. The fixes and enhancements that are provided with the patch are listed in the README document, along with any specific installation instructions.

## Apply patch

1. Change to the new PATCHES directory
2. Run the patch<version> script with the following command  
`./patch<version> -t datamart -h <DataMart home directory>`

Example:

```
# ./patch441.sh -t datamart -h /opt/datamart
```

When you extract the patch tar file, a directory named **PATCHES** is created. This new directory includes the installation script and all supporting files. Change to the **PATCHES** directory and run the installation script with the options **-t datamart -h** followed by the DataMart home directory. In this example, the patch script is named **patch441.sh**, and the DataMart home directory is **/opt/datamart**. The full command is **./patch441.sh -t datamart -h /opt/datamart**.

The following slide shows an example of this command and typical output messages.



## Patch installation example

```
# ./patch441.sh -t datamart -h /opt/datamart/
Thu Dec 10 12:15:30 CST 2009: *****
Thu Dec 10 12:15:30 CST 2009: datamart patch 4.4.1SP2
Thu Dec 10 12:15:30 CST 2009: *****
Thu Dec 10 12:15:30 CST 2009: START Upgrade datamart in /opt/datamart/ - environment OK
Thu Dec 10 12:15:30 CST 2009: /opt/datamart//lib/libtclOracle.so has support for Oracle 9
installed
Thu Dec 10 12:15:30 CST 2009: Installing from ./DM4.4.1-patches/DM4.4.1-patch-ora9 to
/opt/datamart//arc
Thu Dec 10 12:15:30 CST 2009: Installing files pvm.ar tools.ar
Thu Dec 10 12:15:30 CST 2009: Copying pvm.ar, setting read/write permissions, owner is
pvuser
Thu Dec 10 12:15:30 CST 2009: Copying tools.ar, setting read/write permissions, owner is
pvuser
Thu Dec 10 12:15:30 CST 2009: Installing from ./DM4.4.1-R2E1-RE-patch/DM4.4.1-ora9 to
/opt/datamart//bin
Thu Dec 10 12:15:30 CST 2009: Installing files
Thu Dec 10 12:15:30 CST 2009: Installing from ./DM4.4.1-class-patch/DM4.4.1-ora9 to
/opt/datamart//classes
Thu Dec 10 12:15:30 CST 2009: Installing files
Thu Dec 10 12:15:30 CST 2009: FINISHED Patch 4.4.1SP2 datamart succeeded\n\n
Patch 4.4.1SP2 logged in /opt/datamart//log/patch441SP2.log\n
```

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The output of the patch installation command indicates if the operation was successful.

In this example, the second to last line of the output indicates that the patch installation has finished and was successful. The last line of the output points to the patch installation log.

## Review the patch installation log

- The last line of the patch installation message shows the path to the patch installation log
- The log file contains the same information as the output of the original patch installation

The patch installation log displays the same information as the installation output.

## DataLoad patches

- DataLoad patches are installed using a similar process
  1. Save and extract the DataLoad patch
  2. Run the patch<version> script with the following command

```
./patch<version> -t dataload -h <DataLoad home directory>
```

Example:

```
# ./patch441.sh -t dataload -h /opt/dataload
```

DataLoad patches are packaged and installed using the same process as DataMart patches. DataLoad patches must be copied and applied to every DataLoad host individually.

Run the DataLoad patch installation script with the options **-t dataload -h** followed by the DataLoad home directory. In this example, the patch script is named **patch441.sh**, and the DataLoad home directory is **/opt/dataload**. The full command is **./patch441.sh -t dataload -h /opt/dataload**. The command output and log format are similar to DataMart patches.

## Summary

- You should now be able to:
  - Apply a patch to the DataMart module
  - View the patch installation log

You should now be able to apply a patch to the DataMart module and confirm that the patch installation was successful by using the patch installation log.



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## Training roadmap for Netcool/Proviso

[http://www.ibm.com/software/tivoli/education/edu\\_prd.html](http://www.ibm.com/software/tivoli/education/edu_prd.html)

Use this link to explore the training roadmap for IBM Tivoli® Netcool/Proviso.



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