IBM

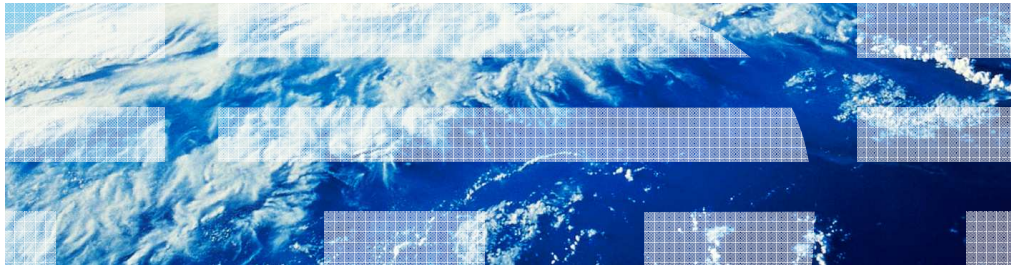# IBM Tivoli Network Manager V3.9

Install Fix Pack 3 in an Informix NCIM environment

This module covers installation of IBM Tivoli® Network Manager Fix Pack 3 for V3.9. This installation is applied to servers running IBM Tivoli Network Manager V3.9 where Informix® is used as the Netcool® Common Information Model (NCIM).

Objectives

When you complete this module, you can upgrade an existing IBM Tivoli Network Manager V3.9 to Fix Pack 3

Install Fix Pack 3 in an Informix NCIM environment

When you complete this module, you can install IBM Tivoli Network Manager V3.9 Fix Pack 3 onto an existing IBM Tivoli Network Manager V3.9 environment. The correct format for the pre-installation schema is created for the Informix NCIM database.

Prerequisites

- IBM Tivoli Network Manager V3.9 GA or Refresh
- IBM Tivoli Network Manager V3.9 Fix Pack 1 or Fix Pack 2

You can apply IBM Tivoli Network Manager V3.9 Fix Pack 3 to IBM Tivoli Network Manager V3.9 GA version 3.9.0.32 or refresh version 3.9.0.71. You can also apply the fix pack to V3.9 Fix Pack 1 version 3.9.0.49 or Fix Pack 2 version 3.9.0.68. Although Fix Pack 3 can be applied in any NCIM environment, this module will show Informix-specific information.

Download

IBM Tivoli Network Manager V3.9 Fix Pack 3 download link

- IBM Tivoli Network Manager IP 3.9.0 Fix Pack 3, 3.9.0-TIV-ITNMIP-FP0003
    - http://www-01.ibm.com/support/docview.wss?uid=swg24033501
    - 3.9.0_INSTALL_FP0003
    - 3.9.0_README_FP0003

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You can download IBM Tivoli Network Manager V3.9 Fix Pack 3 from this link. Additional downloads are the installation and the readme text files. These are not part of the Fix Pack 3 download when it is uncompressed and untarred, but rather separate downloads from the same link.
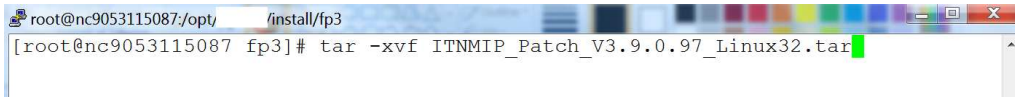
Preparation

- From $PRECISION_HOME/bin, stop IBM Tivoli Network Manager with **itnm_stop -domain DOMAINNAME ncp**
- From $PRECISION_HOME/bin, stop Tivoli Integrated Portal with **itnm_stop tip**

Install Fix Pack 3 in an Informix NCIM environment

If the upgrade is for a server that is running both IBM Tivoli Network Manager and Tivoli Integrated Portal, you must stop both processes. If the server is running only the core, it is only necessary to stop IBM Tivoli Network Manager. If the server is running Tivoli Integrated Portal and this Fix Pack upgrade is a GUI-only installation of Tivoli Network Manager, then you must stop Tivoli Integrated Portal.

Uncompress

- Download the **.gz** file, uncompress, and extract
- Follow the readme file with the **.tar** file, and the readme file that you downloaded separately for Fix Pack 3
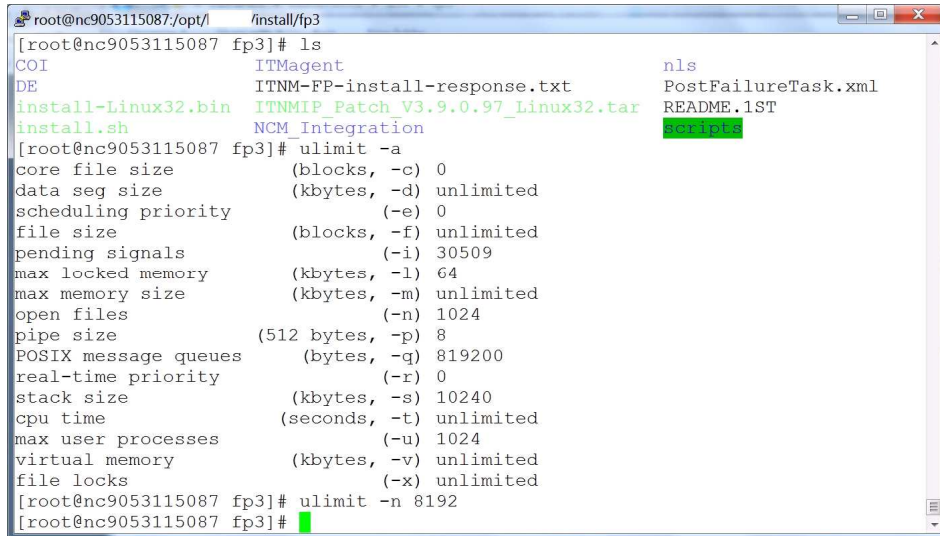
```
root@nc9053115087:/opt/          /install/fp3
[root@nc9053115087 fp3]# tar -xvf ITNMIP_Patch_V3.9.0.97_Linux32.tar
```

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Download Fix Pack 3 into an installation directory on the server. Run **gunzip**, and extract the file. Follow the readme file that you downloaded separately from the Fix Pack 3 file.

Ulimit

- Ulimit should be correct from the initial IBM Tivoli Network Manager V3.9 installation

```
root@nc9053115087:/opt/        /install/fp3
[root@nc9053115087 fp3]# ls
COI                    ITMagent                        nls
DE                     ITNM-FP-install-response.txt    PostFailureTask.xml
install-Linux32.bin    ITNMIP_Patch_V3.9.0.97_Linux32.tar  README.1ST
install.sh             NCM_Integration                 scripts
[root@nc9053115087 fp3]# ulimit -a
core file size          (blocks, -c) 0
data seg size           (kbytes, -d) unlimited
scheduling priority             (-e) 0
file size               (blocks, -f) unlimited
pending signals                 (-i) 30509
max locked memory       (kbytes, -l) 64
max memory size         (kbytes, -m) unlimited
open files                      (-n) 1024
pipe size            (512 bytes, -p) 8
POSIX message queues     (bytes, -q) 819200
real-time priority              (-r) 0
stack size              (kbytes, -s) 10240
cpu time               (seconds, -t) unlimited
max user processes              (-u) 1024
virtual memory          (kbytes, -v) unlimited
file locks                      (-x) unlimited
[root@nc9053115087 fp3]# ulimit -n 8192
[root@nc9053115087 fp3]#
```

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The readme recommends a check of the ulimit value for open files. Query **ulimit** for all its values, and correct open files with the **ulimit –n** command.

Change schema before installation (1 of 2)

- Fix Pack 3 ncpgui database schema changes must occur before the installation of the fix pack
- Find the updatePrecisionGUIDb.sql file in the new install/scripts/informix directory

  cp updatePrecisionGUIDb.sql to myupdatePrecisionGUIDb.sql

- Edit myupdatePrecisionGUIDb.sql and insert the following line before the first CREATE

  Connect to 'itnm' user '**ncim'** using '**ncim'**

- Save the file

  Example
  connect to 'itnm' user 'ncim' using 'ncim';
  CREATE TABLE ncpgui.networkViewSumr

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New schema changes for Fix Pack 3 must occur before the installation. There are numerous ways to do this for Informix, but the simplest is to make a copy of the **updatePrecisionGUIDb.sql** file under a different name. Edit that file, inserting the Informix login information in the sql file. The user prompt is the created user name for the Informix database. The password is the password created for the Informix database.
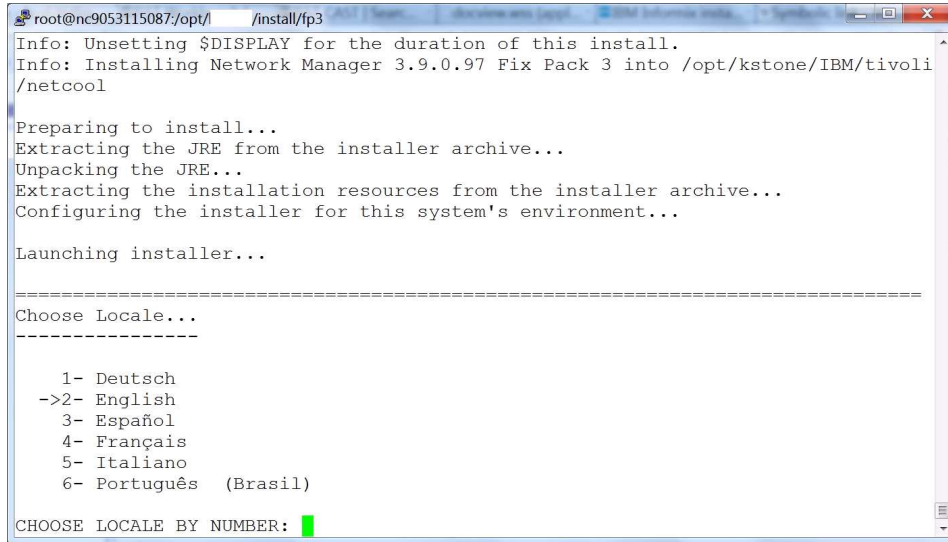
With the **myupdatePrecisionGUIDb.sql** file now updated with Informix login information, the file is run with db access and the schema updates are now complete.

Use a console option to upgrade to Tivoli Network Manager V3.9 Fix Pack 3. The display shows version 3.9.0.97. Choose **English** if that is your locale.

Installation (2 of 6)

▪ This installation includes Tivoli Integrated Portal and Tivoli Network Manager on the same server

```
root@nc9053115087:/opt/      install/fp3
--------------------------------

Please wait...........................
Completed.



================================================================================
Tivoli Integrated Portal Access
--------------------------------



TIP administrator account name (DEFAULT: tipadmin):




================================================================================
Tivoli Integrated Portal Access
--------------------------------


TIP administrator account password:
```
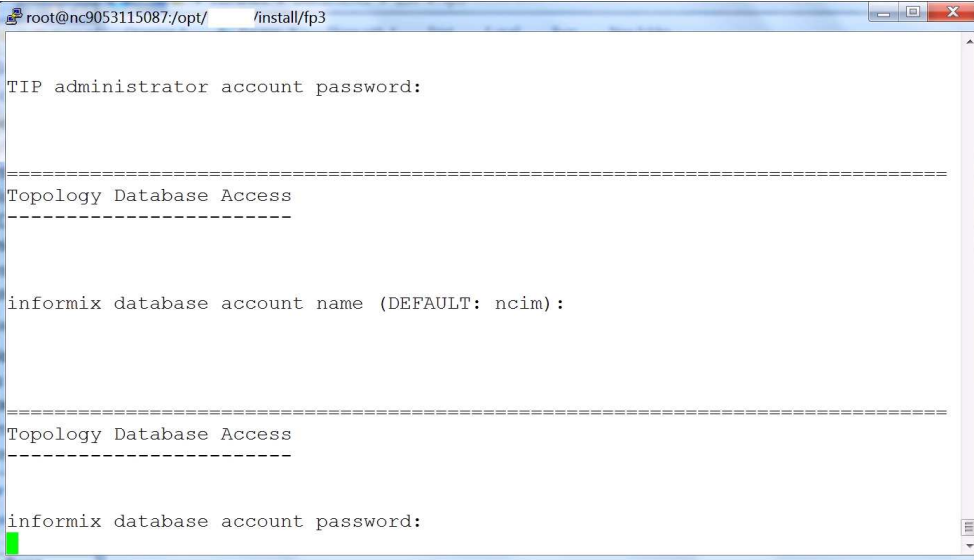
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Provide the login information for Tivoli Integrated Portal so that the GUI portion of the Tivoli Network Manager upgrade can complete. Use the tipadmin user name and password for that administrative user name.

Installation (3 of 6)

- Also, enter the Informix database user name and password

```
root@nc9053115087:/opt/        /install/fp3

TIP administrator account password:



================================================================================
Topology Database Access
-----------------------



informix database account name (DEFAULT: ncim):



================================================================================
Topology Database Access
-----------------------


informix database account password:
```
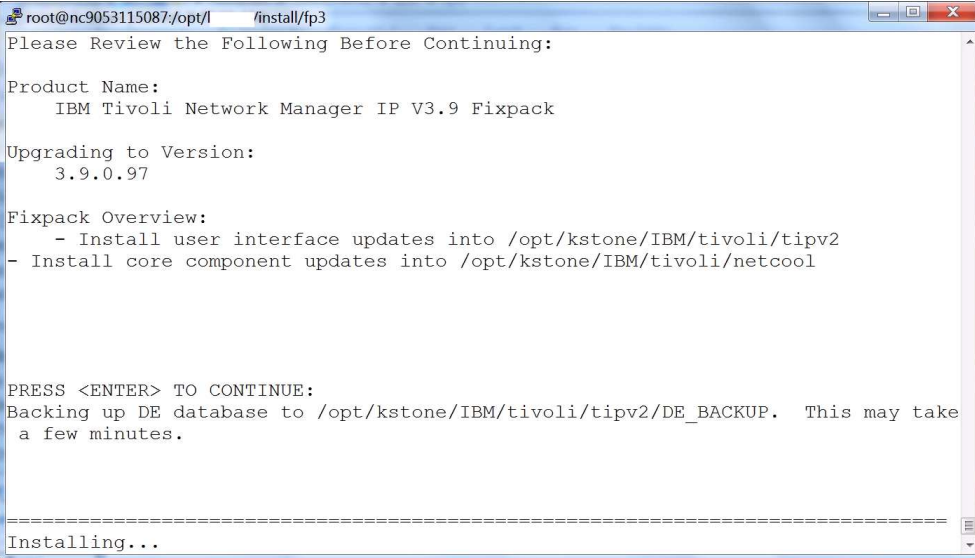
Enter the informix user name and password.

Installation (4 of 6)

- The upgrade to Fix Pack 3 begins now for both components in this server

```
root@nc9053115087:/opt/l        /install/fp3
Please Review the Following Before Continuing:

Product Name:
    IBM Tivoli Network Manager IP V3.9 Fixpack

Upgrading to Version:
    3.9.0.97

Fixpack Overview:
    - Install user interface updates into /opt/kstone/IBM/tivoli/tipv2
- Install core component updates into /opt/kstone/IBM/tivoli/netcool




PRESS <ENTER> TO CONTINUE:
Backing up DE database to /opt/kstone/IBM/tivoli/tipv2/DE_BACKUP.  This may take
 a few minutes.



================================================================================
Installing...
```

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Both Tivoli Integrated Portal and IBM Tivoli Network Manager are now upgraded to Fix Pack 3.

Installation (5 of 6)

- When installation is complete, review the $NCHOME/log/install/manuallyUpdate.txt file

Only files in these directories are included:

NCHOME/etc/precision

NCHOME/precision/disco/stitchers/

NCHOME/precision/disco/agents

NCHOME/precision/profiles/TIPProfile/etc/tnm

NCHOME/precision/profiles/TIPProfile/etc/menus

NCHOME/precision/profiles/TIPProfile/etc/tools
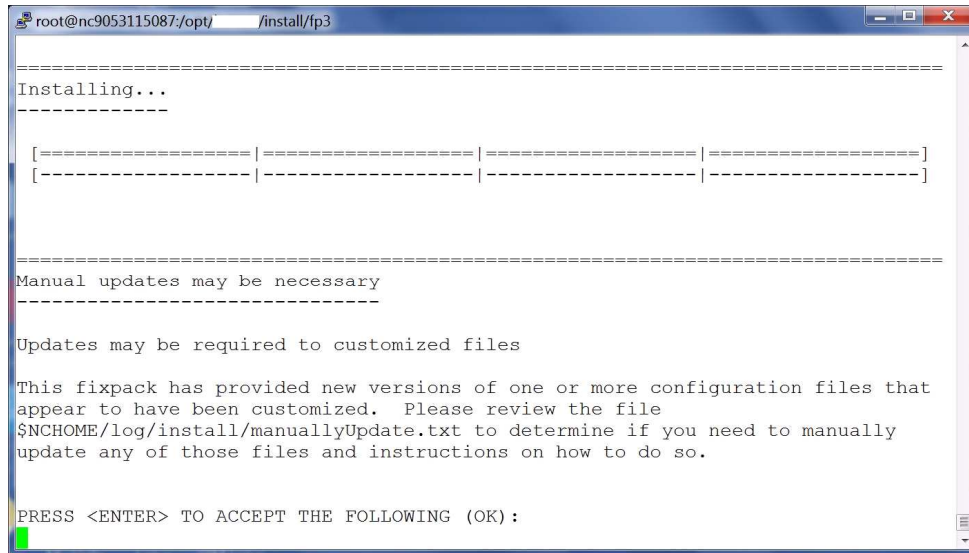
NCHOME/precision/profiles/TIPProfile/etc/dynamictemplates

NCHOME/precision/aoc

NCHOME/precision/eventGateway/stitchers

Review the manuallyUpdate.txt file in $NCHOME/log/install directory. This file shows files that have changed in the Fix Pack, but which might already be customized in the system and need review and modification.

Installation (6 of 6)

- The installation is complete

```
root@nc9053115087:/opt/        /install/fp3                              _ □ X
===============================================================================
Installing...
-------------

  [==================|==================|==================|==================]
  [------------------|------------------|------------------|------------------]




===============================================================================
Manual updates may be necessary
-------------------------------

Updates may be required to customized files

This fixpack has provided new versions of one or more configuration files that
appear to have been customized.  Please review the file
$NCHOME/log/install/manuallyUpdate.txt to determine if you need to manually
update any of those files and instructions on how to do so.


PRESS <ENTER> TO ACCEPT THE FOLLOWING (OK):
```

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Press the **Enter** key for OK to complete the installation.

Review the documentation

Documentation is now updated with new details about this Fix Pack

- Network Manager IP Edition 3.9:

http://publib.boulder.ibm.com/infocenter/tivihelp/v8r1/topic/com.ibm.networkmanagerip.doc_3.9/itnm/ip/wip/common/welcome.htm

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Review the online documentation for IBM Tivoli Network Manager V3.9 for any questions.

Summary

- After completing this module, you can install IBM Tivoli Network Manager V3.9 Fix Pack 3
- Specific schema changes are required before installing this Fix Pack and details are provided for a simple completion of these changes for Informix

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After completing this module, you can install IBM Tivoli Network Manager V3.9 Fix Pack 3 on a server where Tivoli Network Manager V3.9 GA, Refresh, Fix Pack 1 or Fix Pack 2 is running. Schema changes are required for this Fix Pack. A simple procedure is available for upgrading Informix with these changes.

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