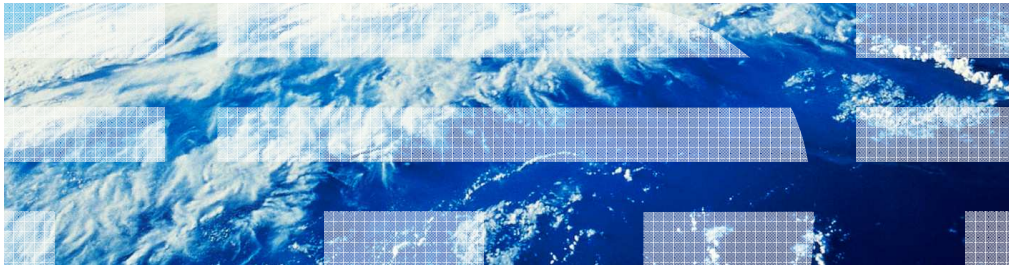


IBM Tivoli Network Manager V3.9

Installation of DB2 for use with IBM Tivoli Monitoring V7.1 and Tivoli Data Warehouse



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IBM Tivoli® Network Manager V3.9, installation of DB2® for use with IBM Tivoli Monitoring V7.1 and Tivoli Data Warehouse.

Objectives

When you complete this module, you can perform these tasks:

- Install DB2 for use with IBM Tivoli Monitoring
- Describe how IBM Tivoli Network Manager V3.9 can use an IBM Tivoli Monitoring agent to send data to Tivoli Data Warehouse

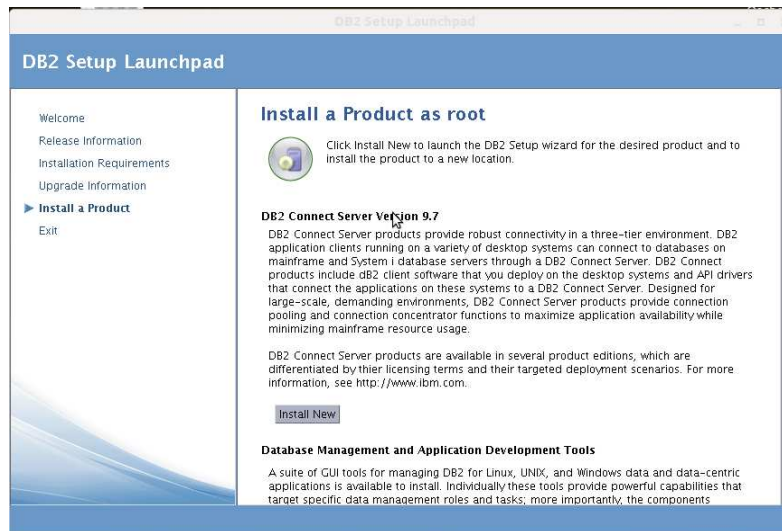
When you complete this module, you can install DB2 version 9.7 for use as a Tivoli Data Warehouse. IBM Tivoli Monitoring can be configured to connect to and use this database.

Assumptions

You can download DB2 V9.7 and are familiar with IBM Tivoli Monitoring

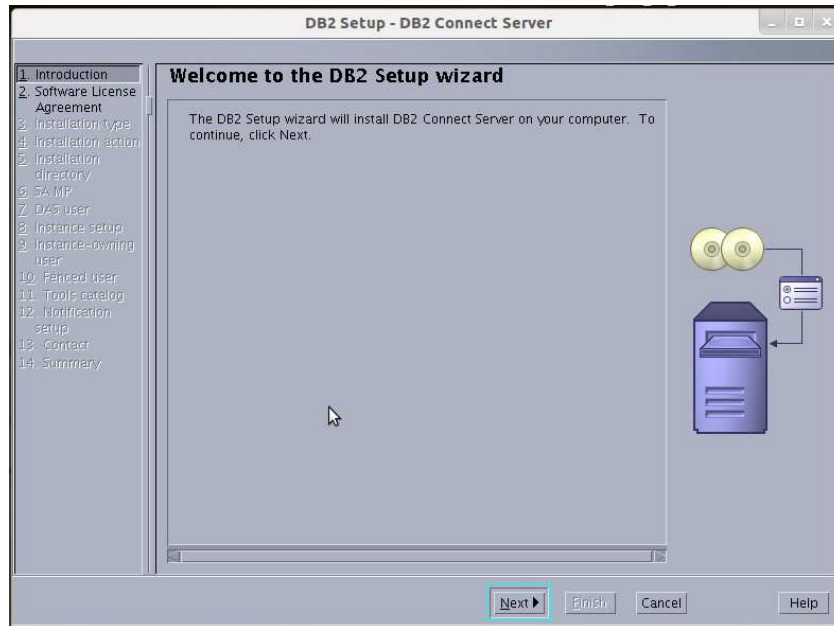
It is assumed that you are able to download this version of DB2.

DB2 Setup Launchpad



After the download of DB2 is uncompressed, run the DB2 setup. When the DB2 Setup Launchpad starts, choose a product to install.

DB2 Setup wizard



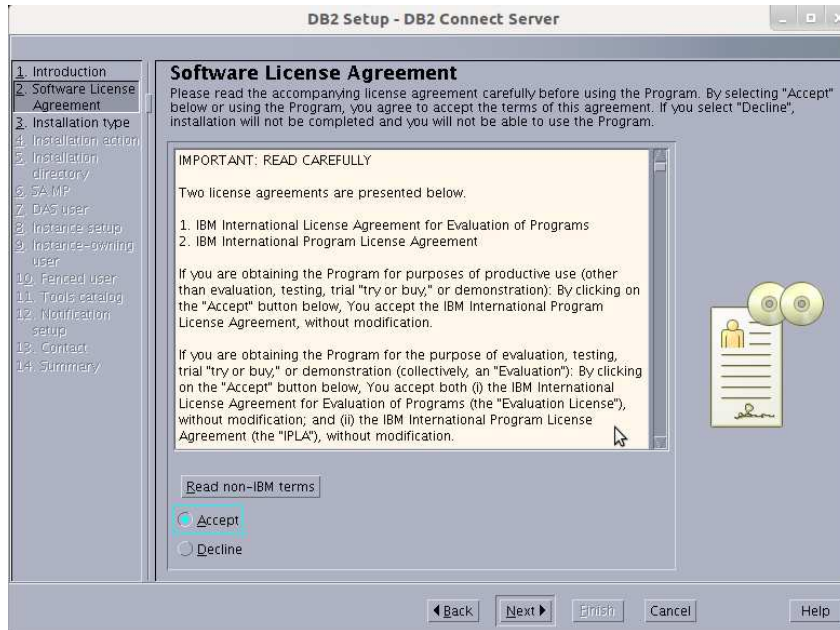
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Click **Next** to continue.

Software license agreement



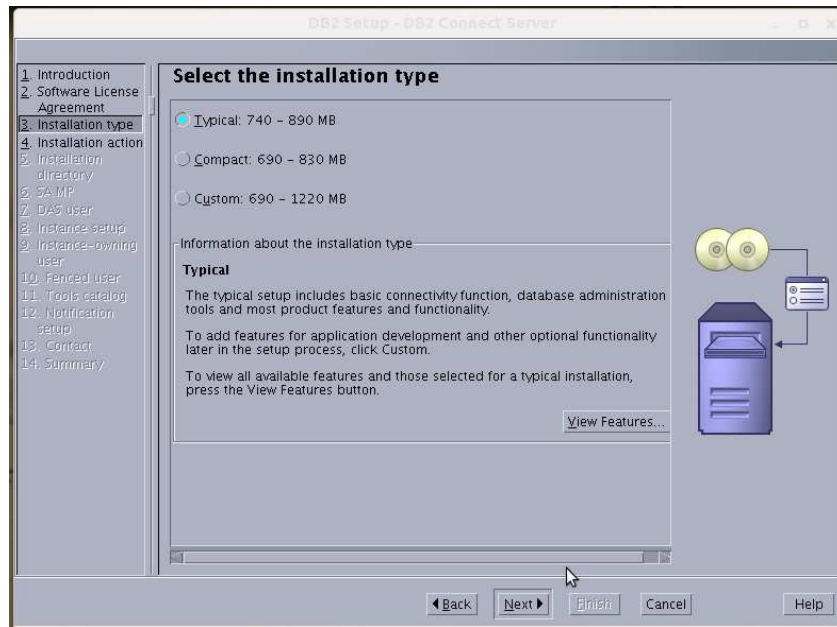
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Select **Accept** and click **Next**.

Installation type



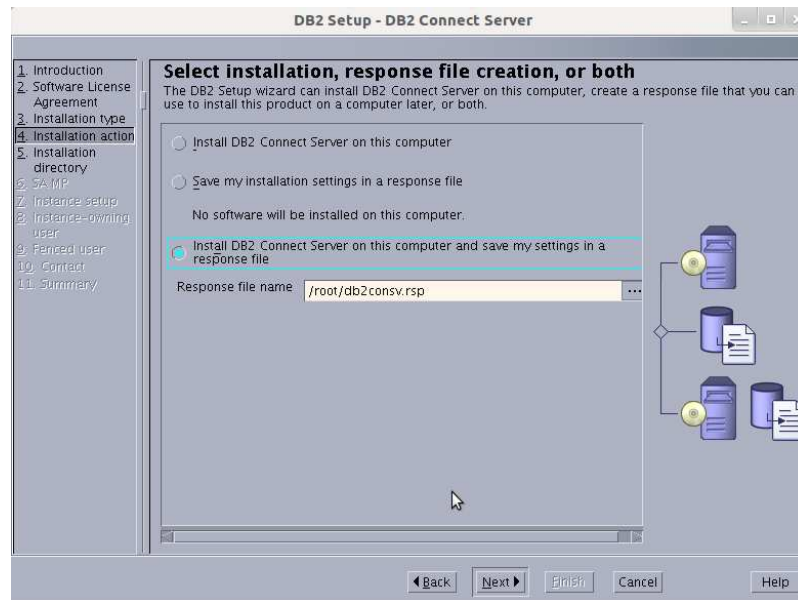
7

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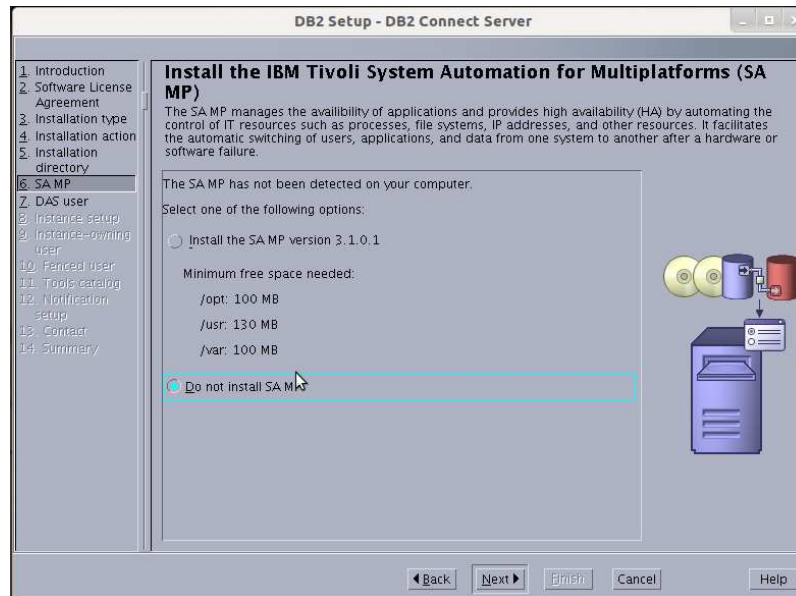
Select the **Typical** installation type. If you select Compact or Custom, then additional installation choices are provided. Click the **View Features** button to review information about optional features.

Response file



When you save the settings in a response file, this configuration can be replicated for an installation on another server, or be installed on this server again.

System Automation for Multiplatforms



System Automation for Multiplatforms, or SAMP, is used for a high-availability failover setup. It is not used for this installation.

DB2 Administration Server

DB2 Setup - DB2 Connect Server

Set user information for the DB2 Administration Server

The DB2 Administration Server (DAS) runs on your computer to provide support required by the DB2 tools. A user with a minimal set of privileges is required to run the DAS. Specify the required user information for the DAS.

New user

User name:

UID: Use default UID

Group name:

GID: Use default GID

Password:

Confirm password:

Home directory: ...

Existing user

User name:

Navigation:

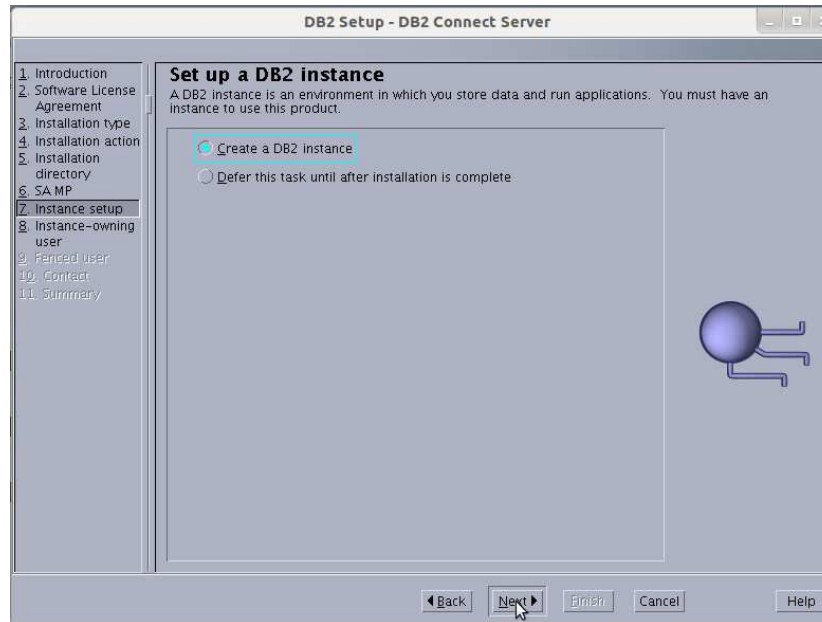
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The DB2 administration server (DAS) runs on the server to provide support that is required by the DB2 tools. A user with a minimal set of privileges is required to run the DB2 administration server. At this point of the installation, you enter the information for the DB2 administration server. It is good to let the installer assign the User ID (UID) and Group ID (GID). You can enter the required user name, group name, and password, or you can assign this role to an existing user.

DB2 instance



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Installation of DB2 for use with IBM Tivoli Monitoring V7.1 and Tivoli Data Warehouse

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Create the DB2 instance during the installation or defer this step until after the installation is complete.

DB2 instance owner

DB2 Setup - DB2 Connect Server

Set user information for the DB2 instance owner
Specify the instance-owning user information for the DB2 instance. DB2 will use this user to perform instance functions, and will store instance information in the user's home directory. The name of the instance will be the same as the user name.

New user

User name:

UID: Use default UID

Group name:

GID: Use default GID

Password:

Confirm password:

Home directory: ...

Existing user

User name:

Navigation buttons: Back, Next, Finish, Cancel, Help

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At this point, the installer can enter the DB2 instance owner. Again, the User ID and the Group ID can be assigned by the installer. Create the user name and password. In this example, the instance is created in the **/home** directory. Make sure there is enough space in the **/home** directory to create this instance.

Fenced user

DB2 Setup - DB2 Connect Server

Set user information for the fenced user
Specify the required information for the fenced user. Fenced user defined functions (UDFs) and stored procedures will execute under this user and group.

New user

User name:

UID: Use default UID

Group name:

CID: Use default CID

Password:

Confirm password:

Home directory:

Existing user

User name:

Password
• You must specify a value. ▶

Back Next Finish Cancel Help

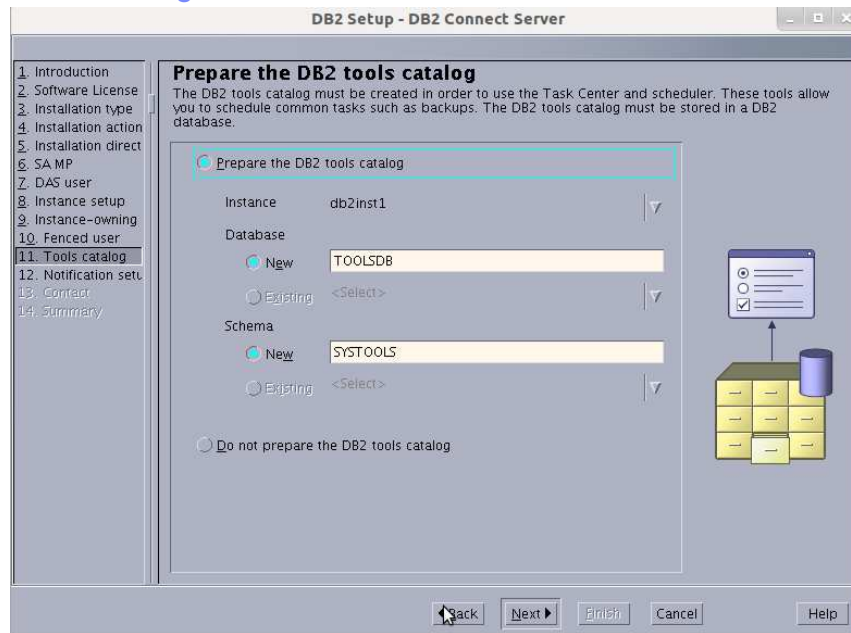
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The fenced user is used to run user-defined functions (UDFs) and stored procedures outside of the address space that is used by the DB2 database.

DB2 tools catalog



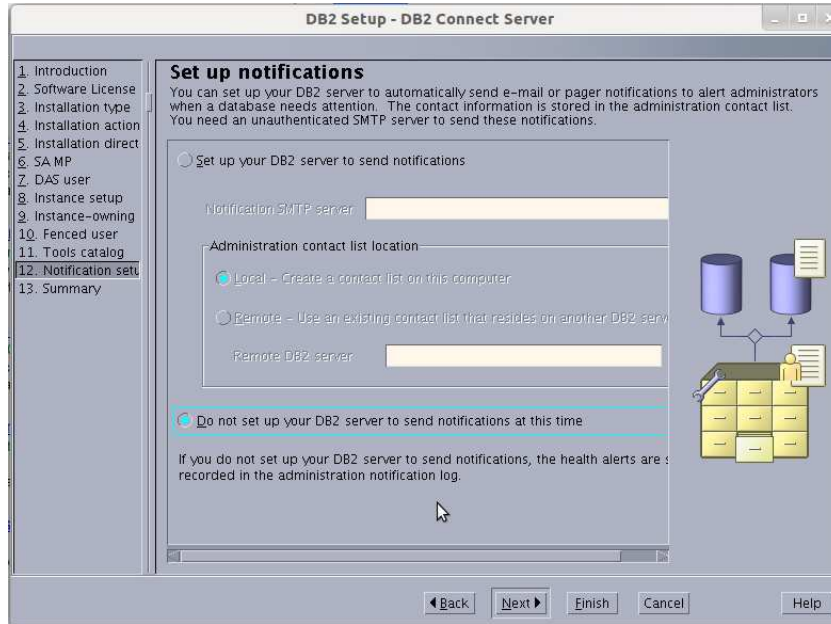
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Installation of DB2 for use with IBM Tivoli Monitoring V7.1 and Tivoli Data Warehouse

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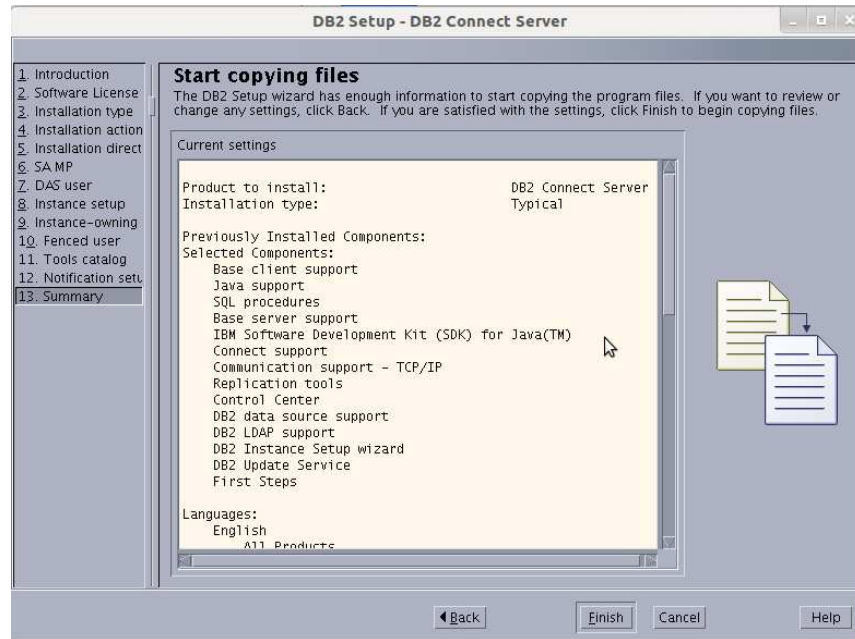
The DB2 tools catalog is optional, but suggested. It is necessary to run database tools such as DB Control Center.

Notifications



DB2 notifications are optional and not set up for this installation.

Summary



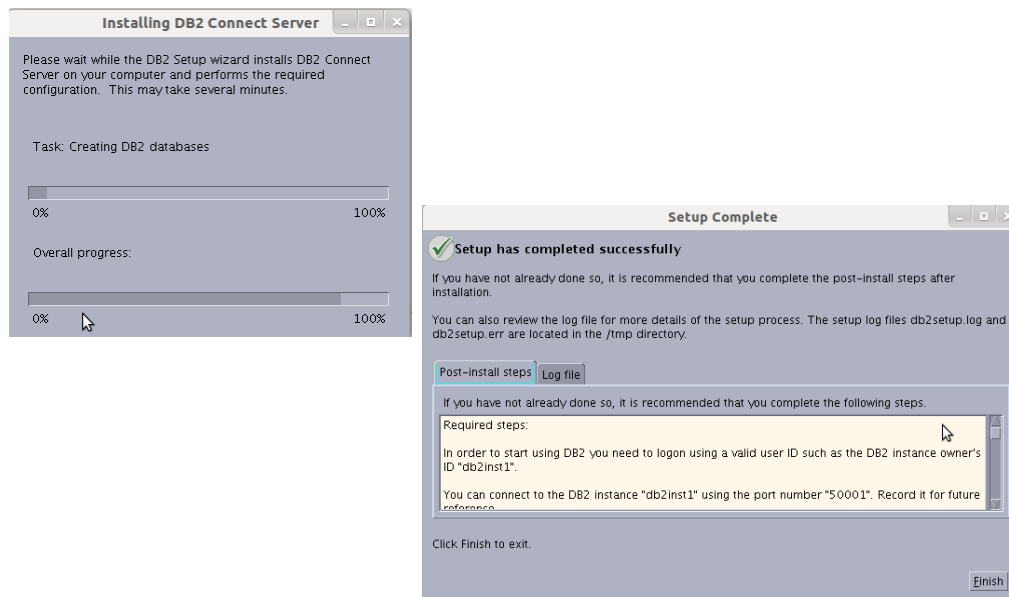
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A summary of the options chosen are displayed here. Verify that this is correct and then click **Finish**.

Setup complete



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A progress panel is displayed with the status of the installation. When complete, a Setup Complete window opens. Click **Finish**.

Logging in as the instance owner

After installation is complete, log in as the instance owner to create the Warehouse database

- db2 create database WAREHOUS with codeset utf-8 territory US
- db2 connect to WAREHOUS

After the installation is complete, log in as the instance owner for these post installation steps. The database is now created.

Creating the table_update.sql file

Create a table_update.sql file that contains the following information:

- CREATE a Bufferpool of page size 8K
CREATE BUFFERPOOL ITMBUF8K IMMEDIATE SIZE 2501 PAGESIZE 8 K;
- CREATE a Regular Tablespace with the 8K Bufferpool
CREATE REGULAR TABLESPACE ITMREG8K PAGESIZE 8 K
MANAGED BY SYSTEM
USING ('itmreg8k') BUFFERPOOL ITMBUF8k;
- CREATE a System tablespace with the 8K Bufferpool
CREATE SYSTEM TEMPORARY TABLESPACE ITMSYS8K PAGESIZE 8 K
MANAGED BY SYSTEM
USING ('itmsys8k') BUFFERPOOL ITMBUF8k;
- CREATE a User tablespace with the 8K Bufferpool
CREATE USER TEMPORARY TABLESPACE ITMUSER8K PAGESIZE 8 K
MANAGED BY SYSTEM
USING ('itmuser8k') BUFFERPOOL ITMBUF8k;

Create a file called **table_update.sql**. Copy the four create statements into this file.

Run the file

```
db2inst1@server> db2 -stvf table_update.sql
CREATE BUFFERPOOL ITMBUF8K IMMEDIATE SIZE 2501 PAGESIZE 8 K
DB20000I The SQL command completed successfully.
CREATE REGULAR TABLESPACE ITMREG8K PAGESIZE 8 K MANAGED BY SYSTEM
USING ('itmreg8k') BUFFERPOOL ITMBUF8k
DB20000I The SQL command completed successfully.
CREATE SYSTEM TEMPORARY TABLESPACE ITMSYS8K PAGESIZE 8 K MANAGED
BY SYSTEM USING ('itmsys8k') BUFFERPOOL ITMBUF8k
DB20000I The SQL command completed successfully.
CREATE USER TEMPORARY TABLESPACE ITMUSER8K PAGESIZE 8 K MANAGED BY
SYSTEM USING ('itmuser8k') BUFFERPOOL ITMBUF8k
DB20000I The SQL command completed successfully.
```

Run the file as shown here to assign some buffer pool and page size parameters to the database.

Cataloging DB2 from IBM Tivoli Network Monitoring and IBM Tivoli Monitoring servers for Tivoli Data Warehouse

1. Add or remove a TCP/IP node entry to the system node directory:
db2 catalog tcpip node <node_name> remote <remote_hostname> server <port>
db2 uncatalog node <node_name>
2. Add or remove remote database location information in the system database directory:
db2 catalog db <db_name> as <db_name> at node <node_name>
db2 uncatalog db <db_name>

```
bash-3.2$ db2 get instance

The current database manager instance is: db2inst1

bash-3.2$ db2 get dbm cfg | grep SVCE
TCP/IP Service name                (SVCENAME) = 50000
SSL service name                    (SSL_SVCENAME) =

bash-3.2$ grep 50000 /etc/services
db2c_db2inst1 50000/tcp
bash-3.2$
```

Add or remove catalog connections to this new data warehouse. The database name is **WAREHOUS** and the node is **TDW**.



Installation complete

- Subsequent installations of IBM Tivoli Monitoring can now use this installation as a data warehouse
- Documentation for installing DB2 V9.7 is available at
DB2 Version 9.7 for Linux®, UNIX®, and Windows® English manuals:
<http://www-01.ibm.com/support/docview.wss?uid=swg27015148>

The installation is now complete. This DB2 installation can be used as a Tivoli Data Warehouse database to collect data from the IBM Tivoli Monitoring Agent.

Summary

Now that you completed this module, you can perform these tasks:

- Install DB2 for use with IBM Tivoli Monitoring
- Describe how IBM Tivoli Network Manager V3.9 can use an IBM Tivoli Monitoring agent to send data to Tivoli Data Warehouse

Now that you completed this module, you can install DB2 version 9.7 for use as a Tivoli Data Warehouse. IBM Tivoli Monitoring can be configured for connection to and use of this database.

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This module is also available in PDF format at: [./install_db2_for_use_itm_and_tdw.pdf](http://install_db2_for_use_itm_and_tdw.pdf)

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