TBSM 6.2 Installation Guide

A step by step example

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4. IBM WebSphere Application Server Version 8.5.5 Fix Pack 12
5. Jazz for Service Management 1.1.3.0 and Cumulative Patch 5 (1.1.3.0-TIV-JazzSM-DASH-Cumulative-Patch-0005)
6. IBM JAVA 7.0.9.30
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8. IBM Tivoli Netcool/Impact 7.1 Fix Pack 13

Software prerequisite configurations that need attention

1. TBSM installation requires each component to be configured with FQDN, therefore this should be used during each product installation and also /etc/hosts file should be configured accordingly.

   Entry example:

   ip-adress FQDN Hostname-shortname

   172.26.7.11 Dooku.gpsg.ro Dooku

2. The user installing TBSM should be the user who installed all the prerequisite software. In this material the installation is done with user root.

3. The Netcool/Impact server that is required by TBSM must have server name TBSM for primary, or TBSM_B for secondary and cluster name TBSMCLUSTER.

4. Impact, JazzSM and TBSM should be configured to use the same user repository.

5. Before proceeding with TBSM installation, TBSM schema must be added within the ObjectServer.

6. Waapi should be setup for webgui prior to TBSM installation and also a datasource should be defined within it.

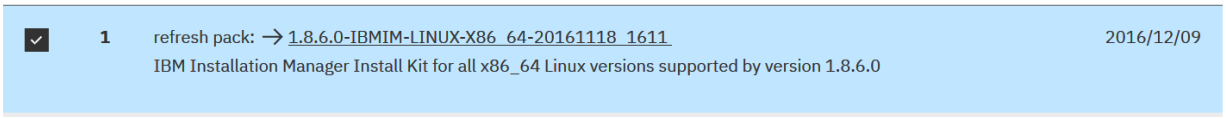
Complete documentation guide:

https://www.ibm.com/support/knowledgecenter/SSSPFK_6.2.0/com.ibm.tivoli.itbsm.doc/installation_guide.pdf

Install Installation Manager 1.8.6

Download link:

https://www-945.ibm.com/support/fixcentral/swg/selectFixes?parent=ibm%7ERational&product=ibm/Rational/IBM+Installation+Manager&release=1.8.6.0&platform=Linux&function=all&useReleaseAsTarget=true



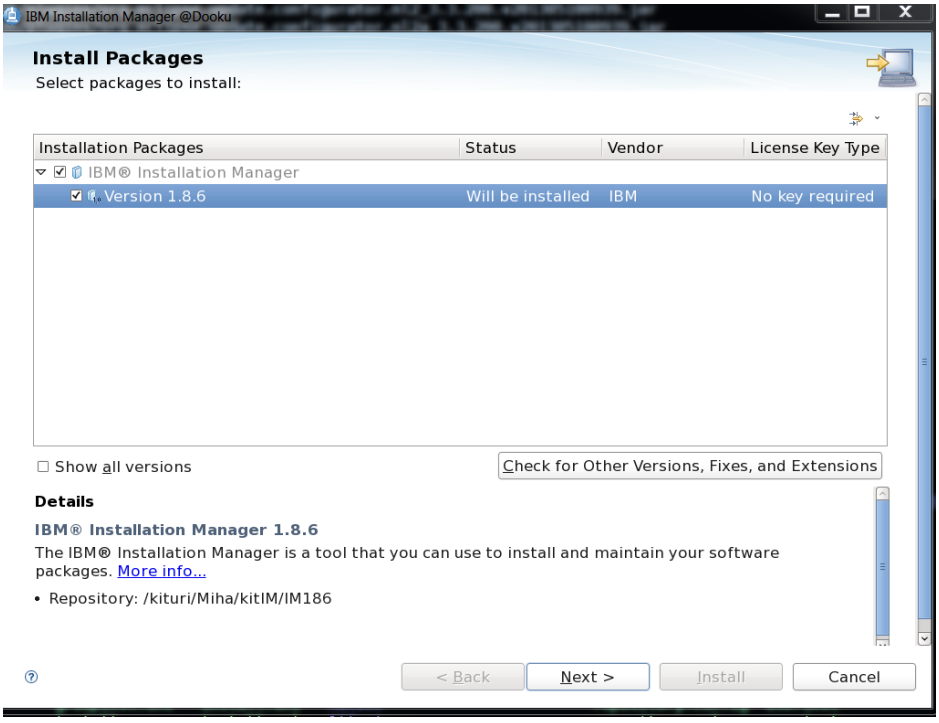
- download and unzip:

```
[root@Dooku kitIM]#
[root@Dooku kitIM]# unzip agent.installer.linux.gtk.x86_64_1.8.6000.20161118_1611.zip -d IM186
```

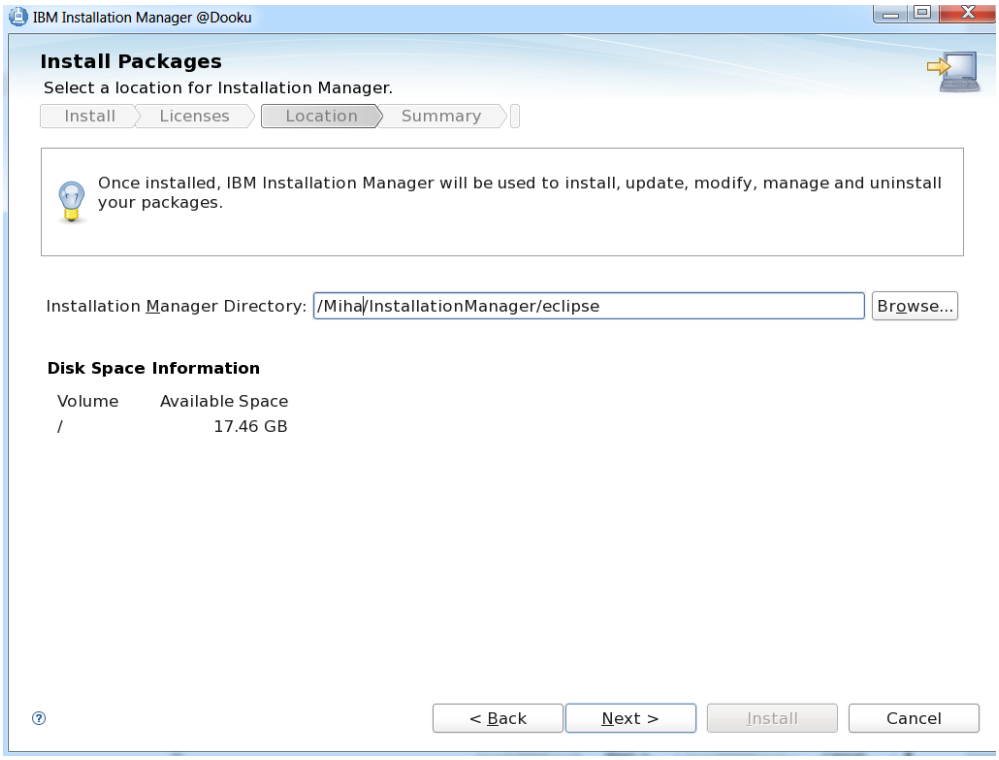
- launch install script:

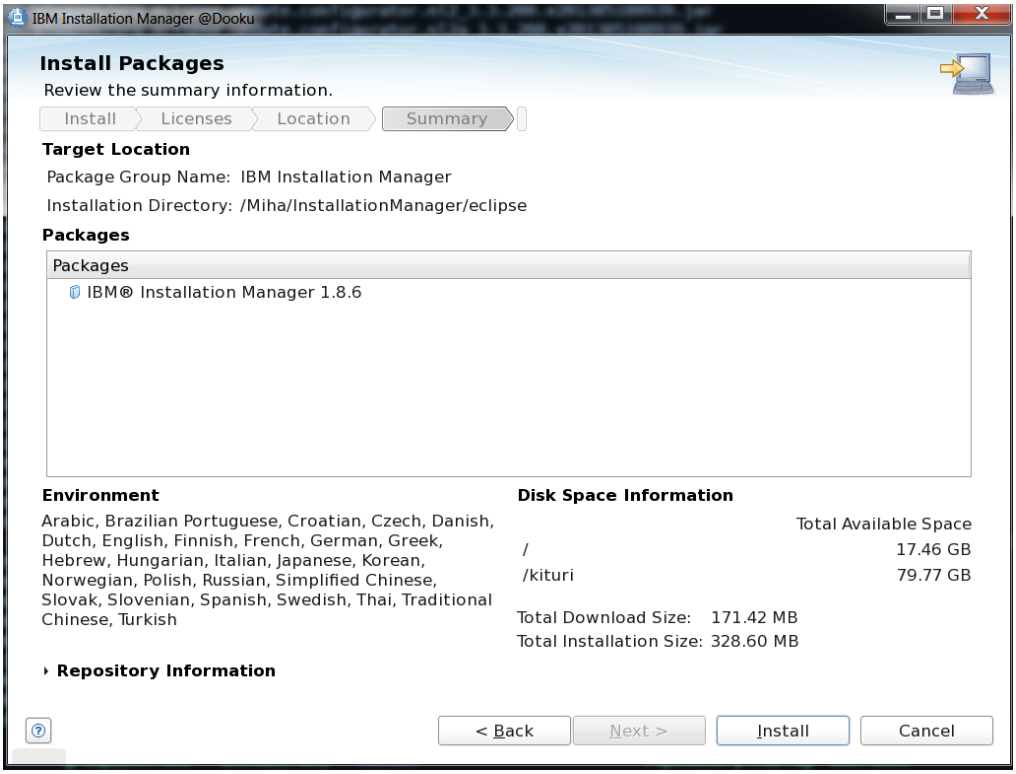
```
[root@Dooku IM186]# pwd
/kituri/Miha/kitIM/IM186
[root@Dooku IM186]#
[root@Dooku IM186]# ls
con-disk-set-inst.sh  groupinstc      installc      jre_7.0.90060.20161108_1344  plugins
configuration         groupinstc.ini  installc.ini  license                      readme.ht
documentation         groupinst.ini   install.ini   native                       repositor
groupinst             install         install.xml   Offerings                    repositor
[root@Dooku IM186]# ./install
```

- select product to be installed and click next:



- enter installation path directory and install





Install IBM DB2 Workgroup Server Edition 11.1.2.2

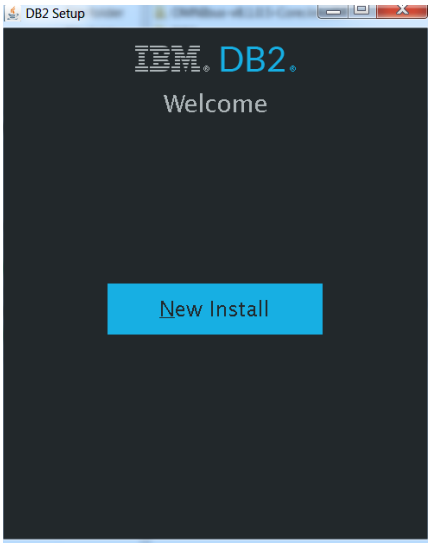
- unzip DB2 package:

```
[root@Dooku KitDB2]# mkdir DB2Base
[root@Dooku KitDB2]# tar -xzf DB2_AWSE_REST_Svr_11.1_Lnx_86-64.tar.gz -C DB2Base
```

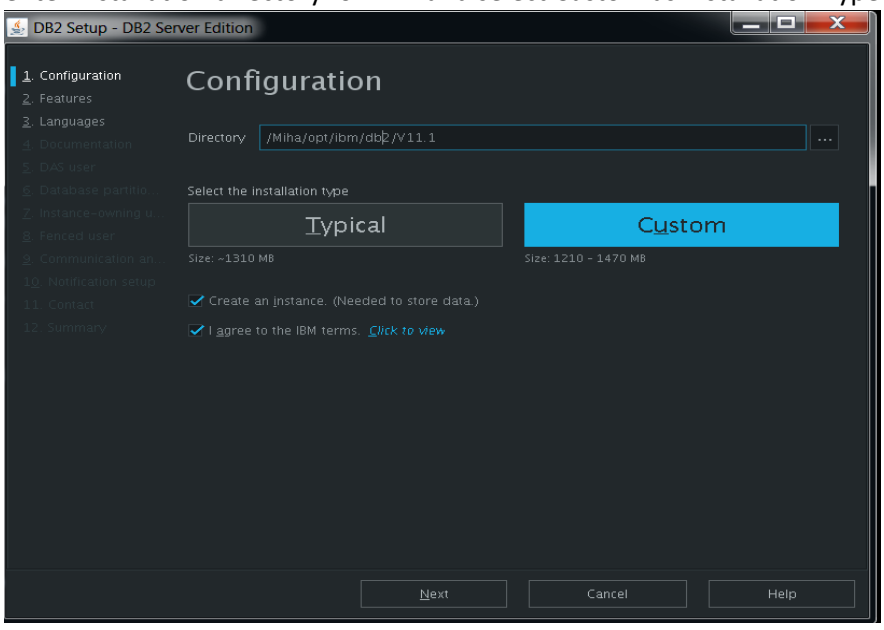
- go to server_awse_o directory and run ./db2setup script:

```
[root@Dooku server_awse_o]# pwd
/kituri/Miha/KitDB2/DB2Base/server_awse_o
```

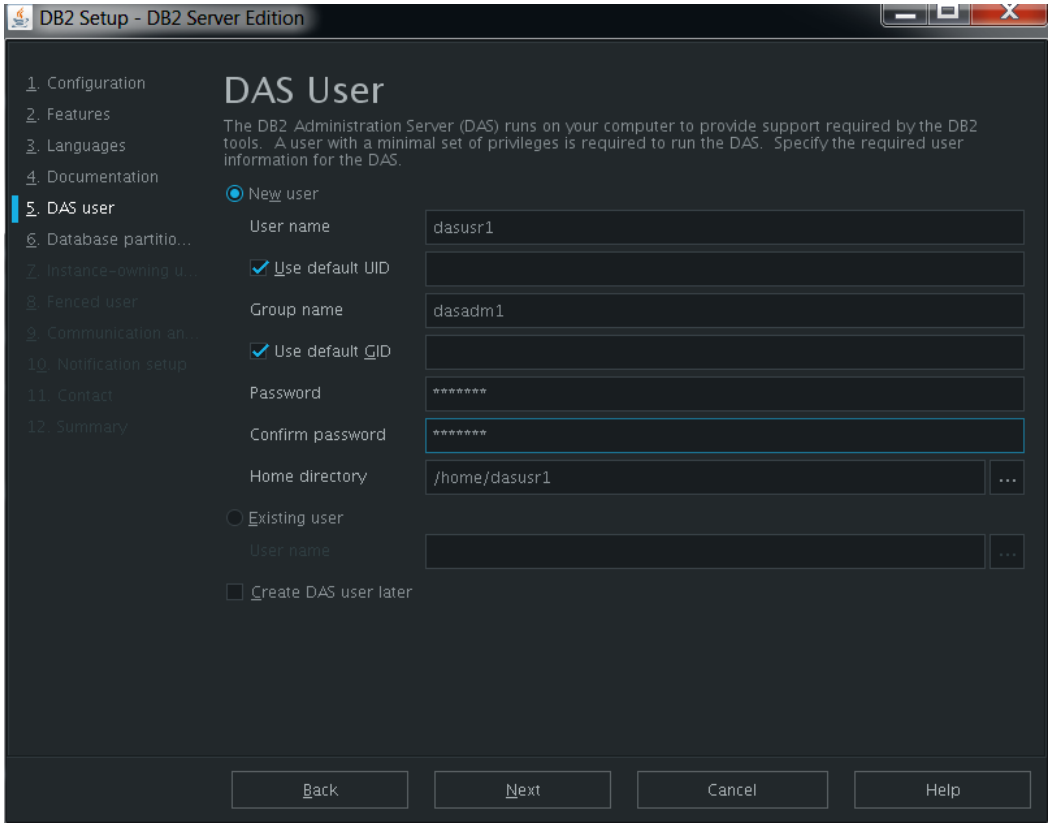
- select New Install and DB2 Version 11.1.0.0. Workgroup, Enterprise and Advanced Editions



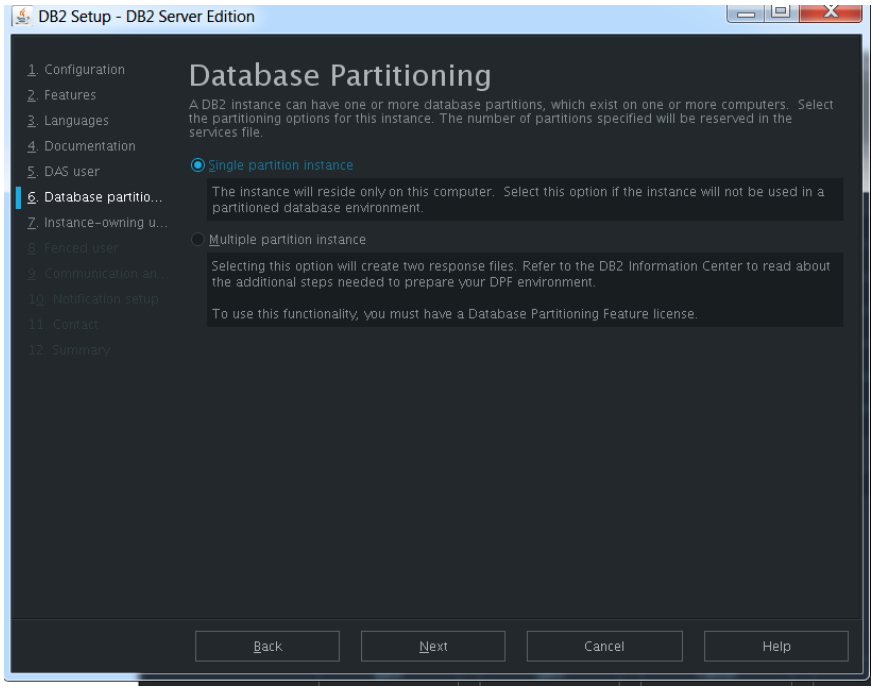
- enter installation directory for DB2 and select Custom as installation Type



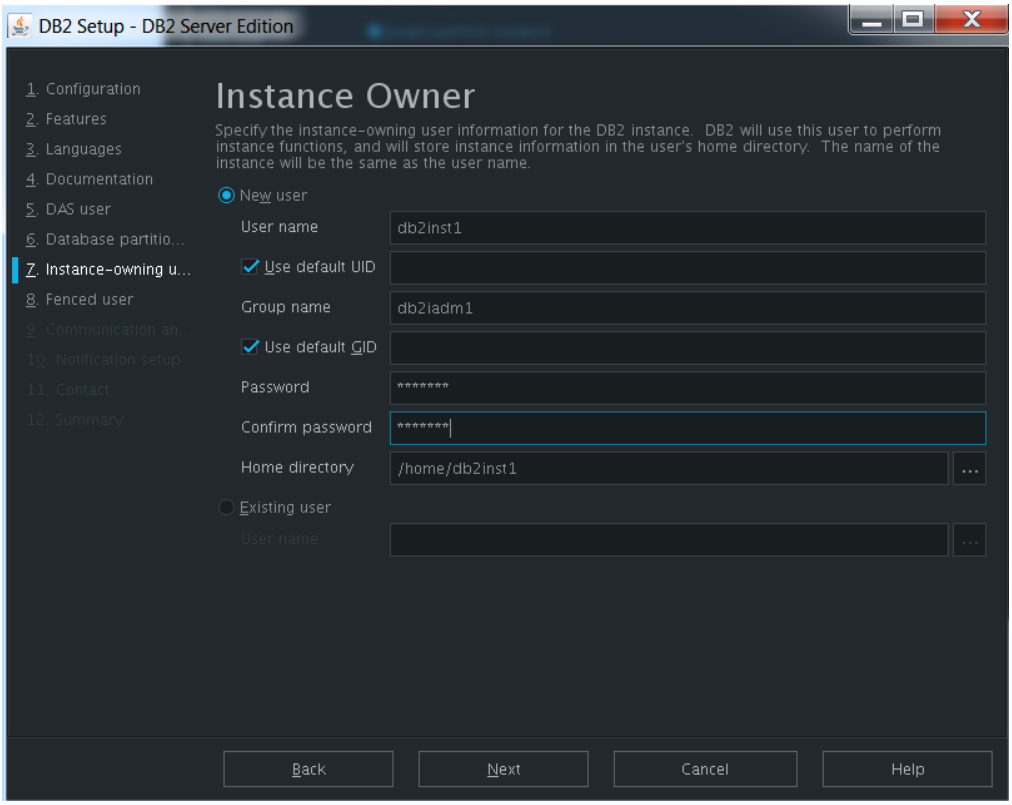
- Configure DAS User (in this example – password user: netcool) and default username dasusr1



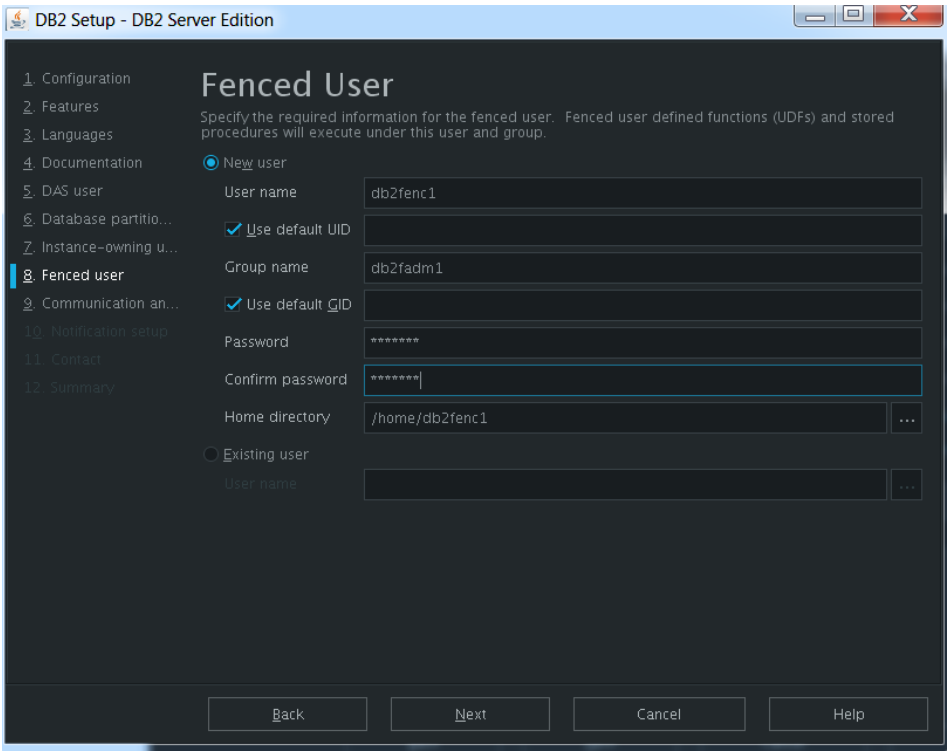
- Select Single Partition Instance and Next



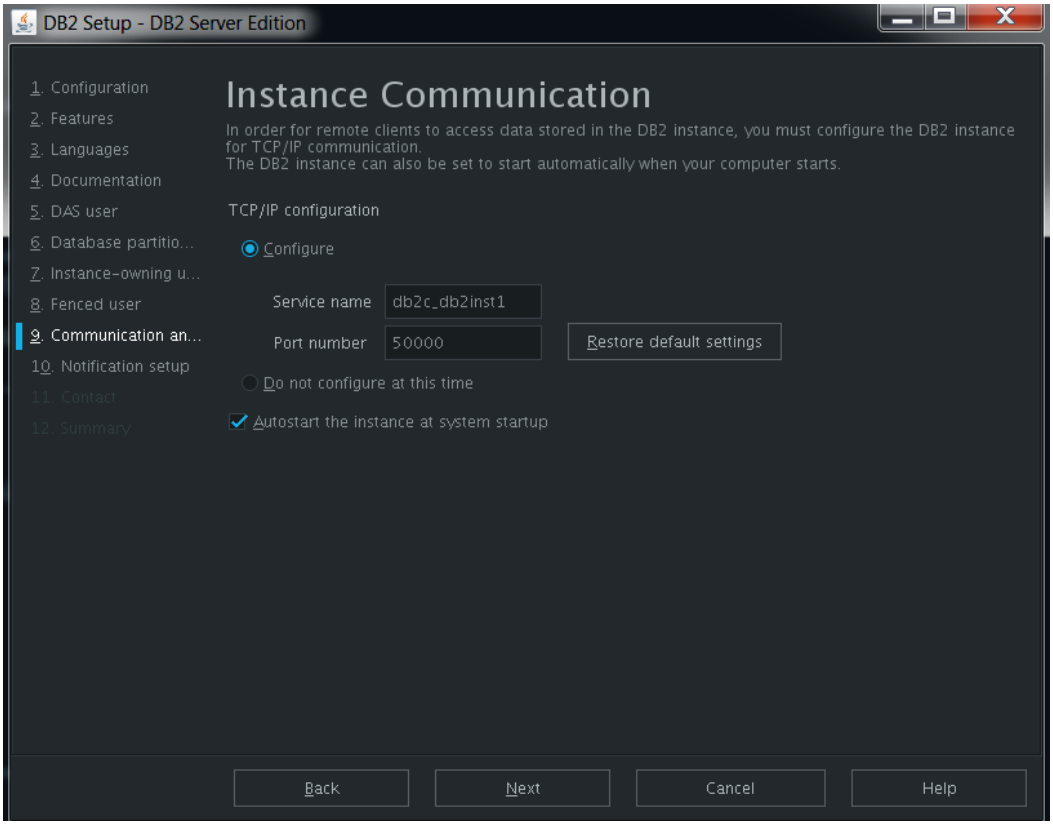
- Configure Instance Owner user (in this example–default user db2inst1 with netcool as password)



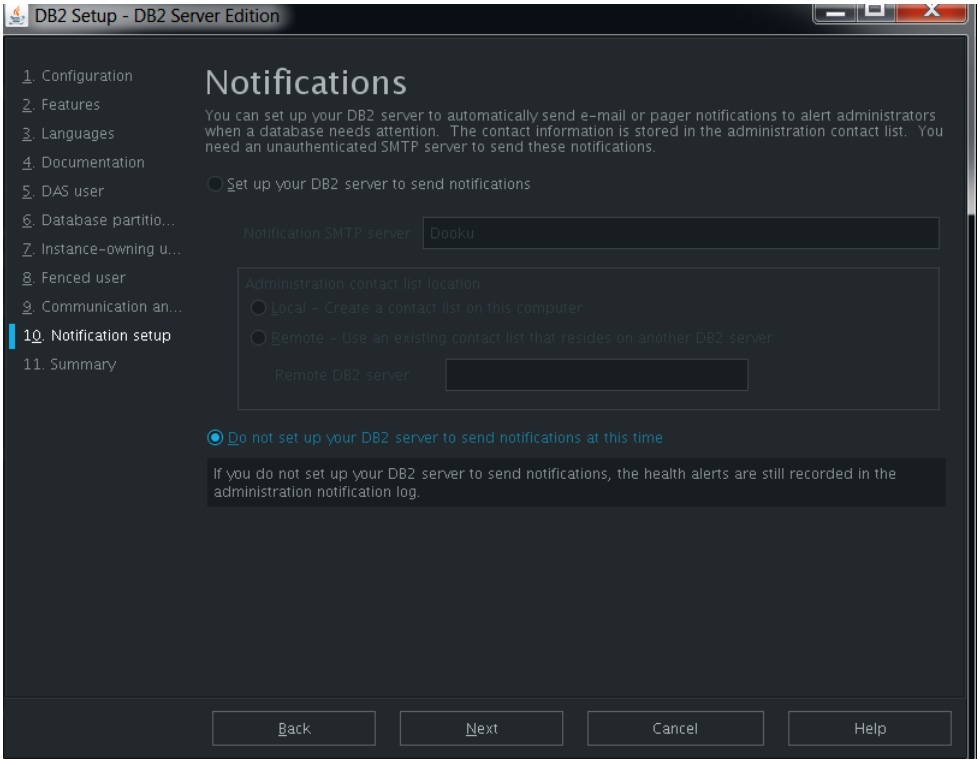
- Configure Fenced user (in this example–default user db2fenc1 with netcool as password)



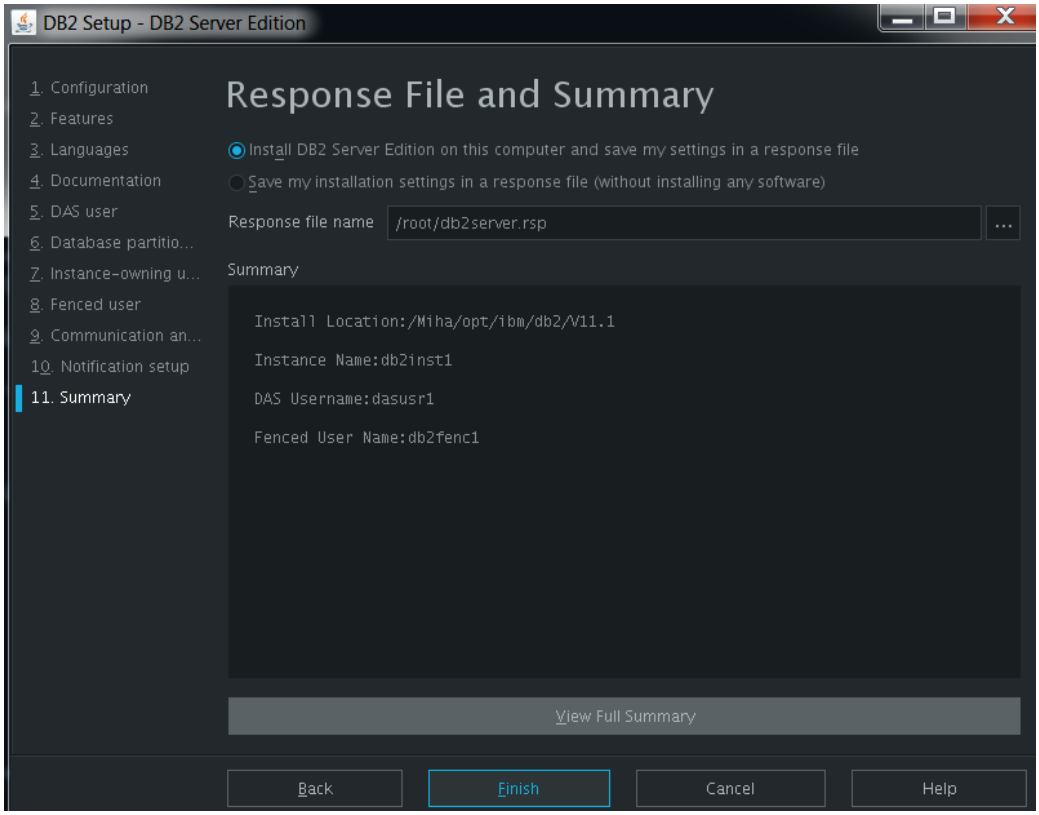
- configure service name and port number



- select “do not set up your DB2 server to send notification”



- select Install DB2 Server Edition.. option and Finish:



Login on the server with db2inst1 user and go to DB2 installation Directory -> bin

```
[db2inst1@Dooku root]$ cd /Miha/opt/ibm/db2/V11.1/
[db2inst1@Dooku V11.1]$ cd bin
```

- run db2val script and make sure the validation is successful:

```
[db2inst1@Dooku bin]$ ./db2val
DBI1379I  The db2val command is running. This can take several minutes.

DBI1335I  Installation file validation for the DB2 copy installed at
      /Miha/opt/ibm/db2/V11.1 was successful.

DBI1339I  The instance validation for the instance db2inst1 was
      successful.

DBI1343I  The db2val command completed successfully. For details, see
      the log file /tmp/db2val-180907_160334.log.
```

- add licence for DB2 – unzip downloaded licence and go to /wse_o/db2/licence directory:

```
[db2inst1@Dooku license]$ pwd
/kituri/Miha/KitDB2/DB2_WSE_Restricted_Activation_11.1/wse_o/db2/license
[db2inst1@Dooku license]$
```

- run **db2licm -a db2wse_o.lic**

```
[db2inst1@Dooku license]$ db2licm -a db2wse_o.lic

LIC1402I  License added successfully.


LIC1426I  This product is now licensed for use as outlined in your License Agreement.  USE OF THE PRODUCT CONSTITUTES ACCEPTANCE OF T
 TERMS OF THE IBM LICENSE AGREEMENT, LOCATED IN THE FOLLOWING DIRECTORY: "/Miha/opt/ibm/db2/V11.1/license/en_US.iso88591"
[db2inst1@Dooku license]$
```

- run **db2licm -l** to make sure everything is ok:

```
[db2inst1@Dooku license]$ db2licm -l
Product name:                     "DB2 Workgroup Server Edition"
License type:                     "Restricted"
Expiry date:                      "Permanent"
Product identifier:               "db2wse"
Version information:              "11.1"
Max amount of memory (GB):        "128"
Features:
IBM DB2 Performance Management Offering:            "Not licensed"
```

Upgrade to 11.1.2.2

- unzip mod 2 fix pack 2 for db2 11.1:

```
[root@Dooku universal]# tar xvzf v11.1.2fp2_linuxx64_universal_fixpack.tar.gz -C /DBKIT/
```

- stop DB2 and go to /universal directory and run **./installFixPack** script

```
[root@Dooku KitDB2]# cd /DBKIT/universal/
```

```
[root@Dooku universal]# ls
db2  db2ckupgrade  db2_deinstall  db2_install  db2ls  db2prereqcheck  db2setup  installFixPack  nlpack
[root@Dooku universal]# ./installFixPack
```

- enter DB2 installation directory and continue with the installation:

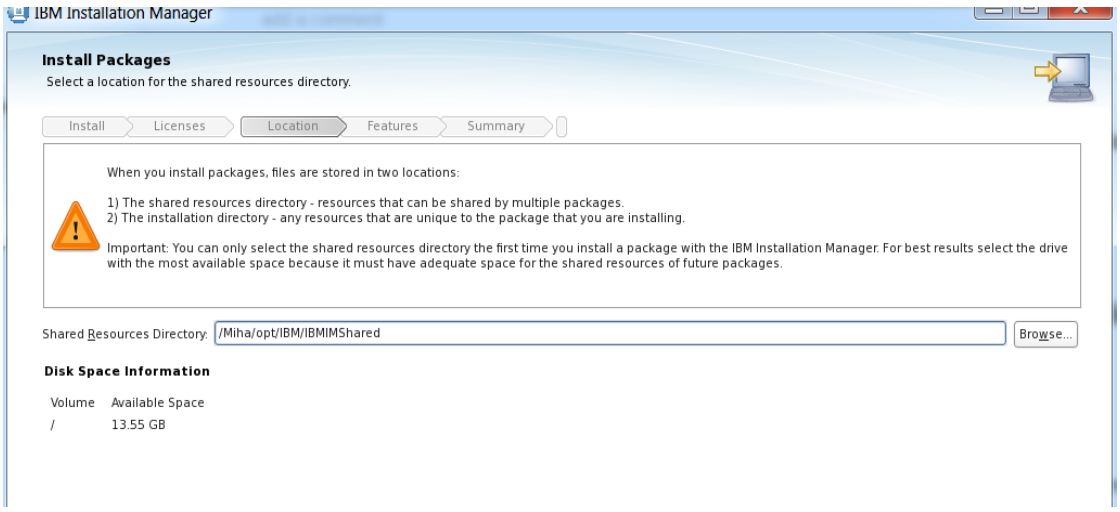
```
[root@Dooku universal]# ./installFixPack
Enter the full path of the base installation directory:

-----------------------------------------------------
/Miha/opt/ibm/db2/V11.1/

Do you want to choose a different installation directory for the fix pack? [yes/no]

-------------------------------------------------------------------------------
no

DBI1017I  installFixPack is updating the database products installed in
      location /Miha/opt/ibm/db2/V11.1/.
```

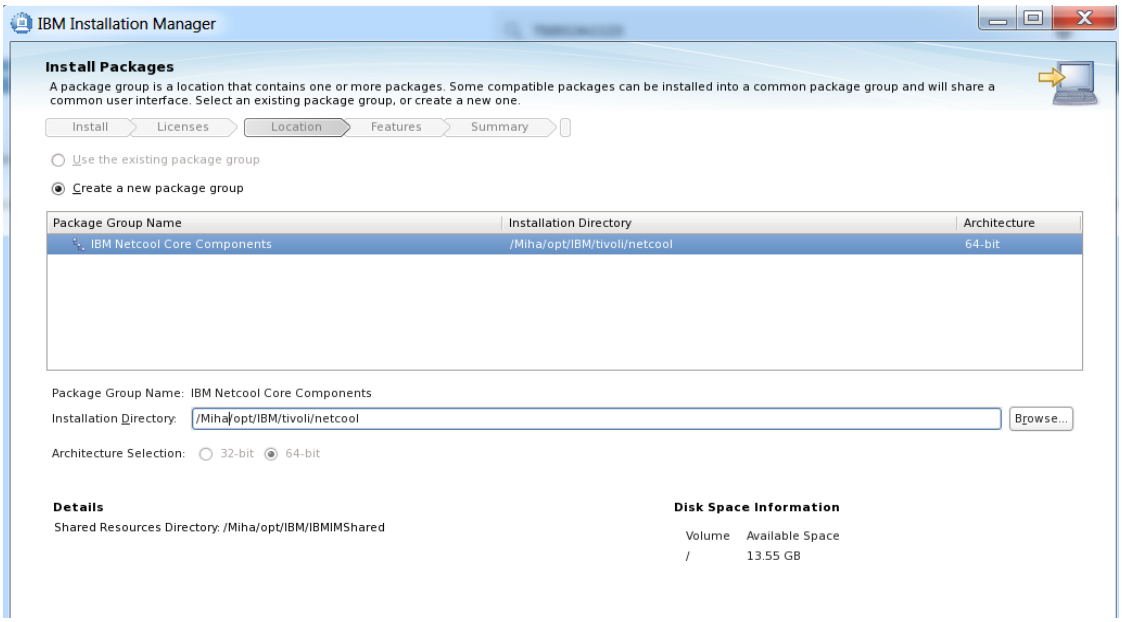
```
The execution completed successfully.

For more information see the DB2 installation log at
"/tmp/installFixPack.log.43472".
```

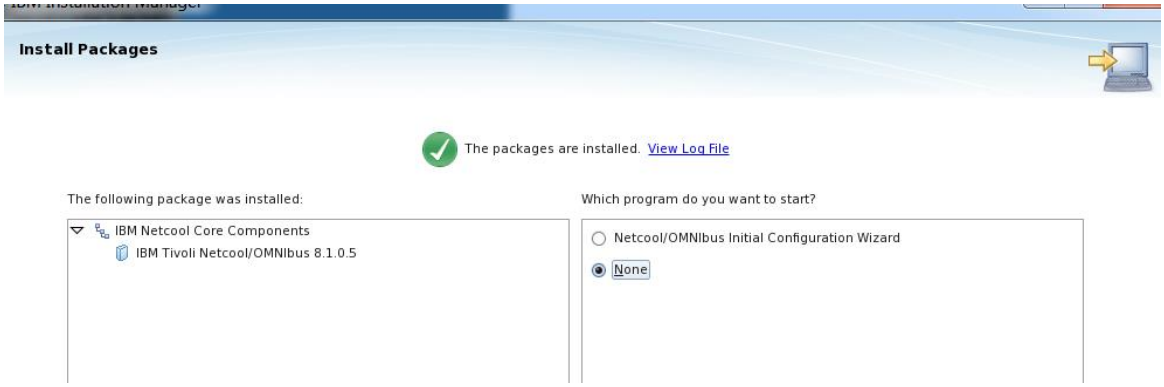
Install Omnibus core 8.1.0.5

- add repository within Installation Manager 1.8.6 and select Install option

- enter Shared Resources Directory and Installation path for Omni 8.1



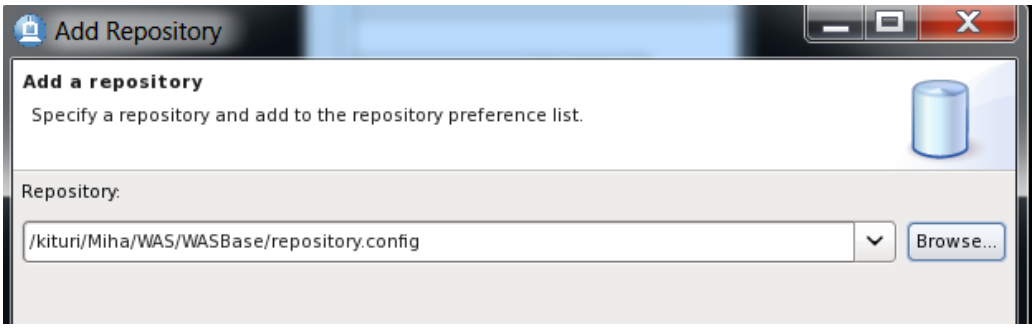




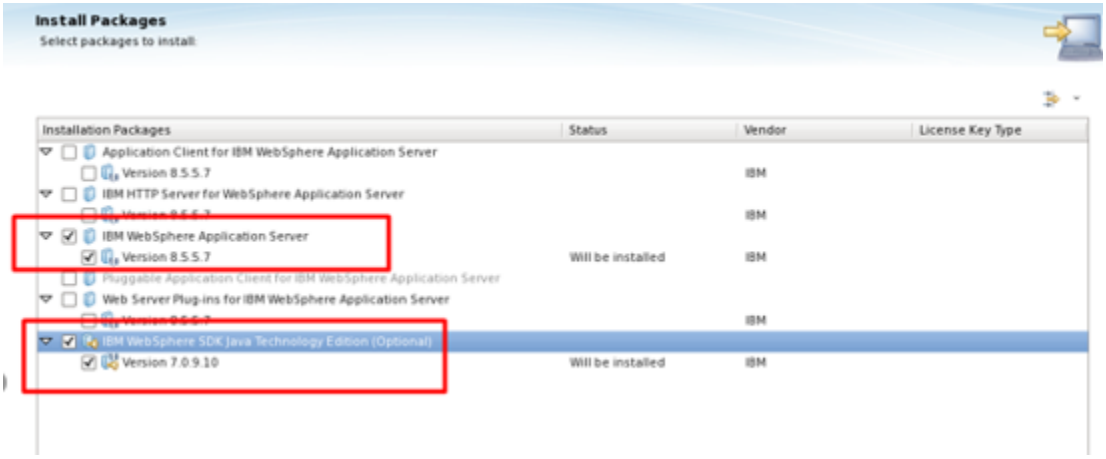
Install WAS 8.5.5.7 and upgrade to WAS 8.5.5.12

- unzip downloaded WAS package and add repository within IM:

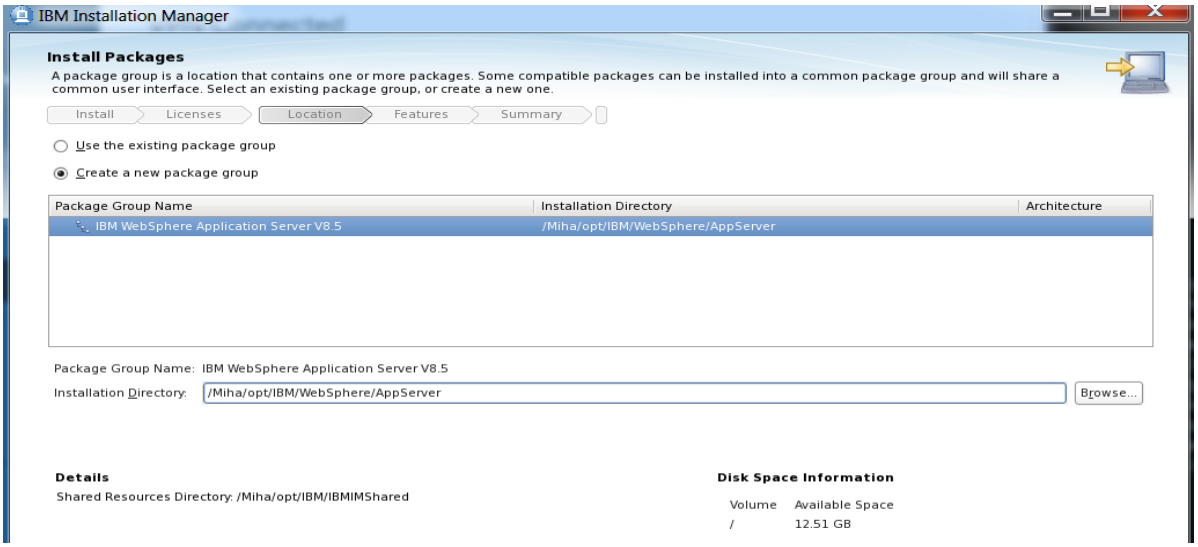
```
[root@Dooku WAS]#
[root@Dooku WAS]# unzip WAS_FOR_LINUX.zip -d WASBase
```

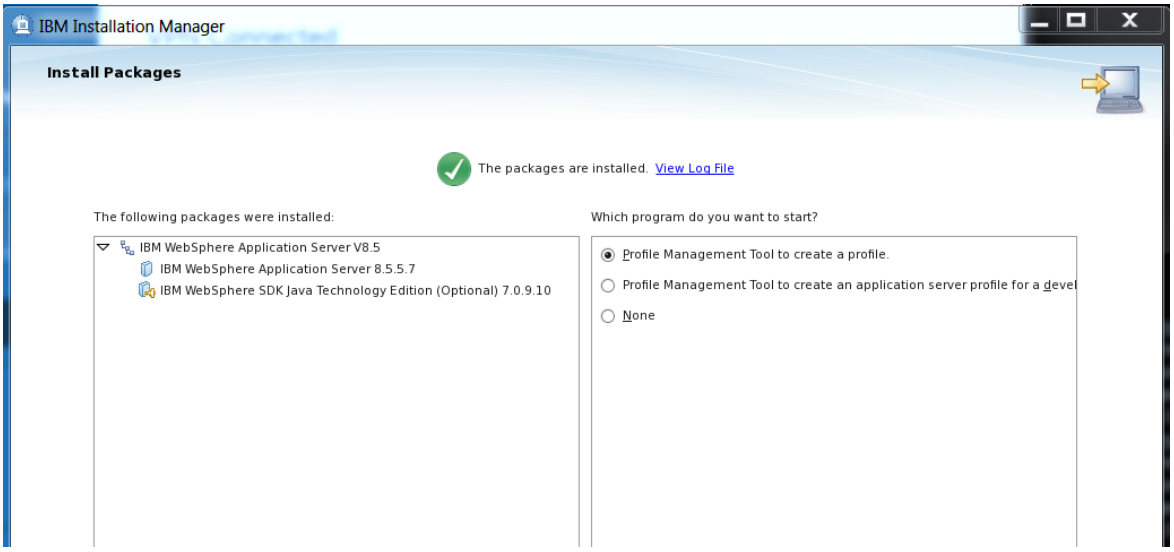


- select WAS 8.5.5.7 and Java SDK to install:

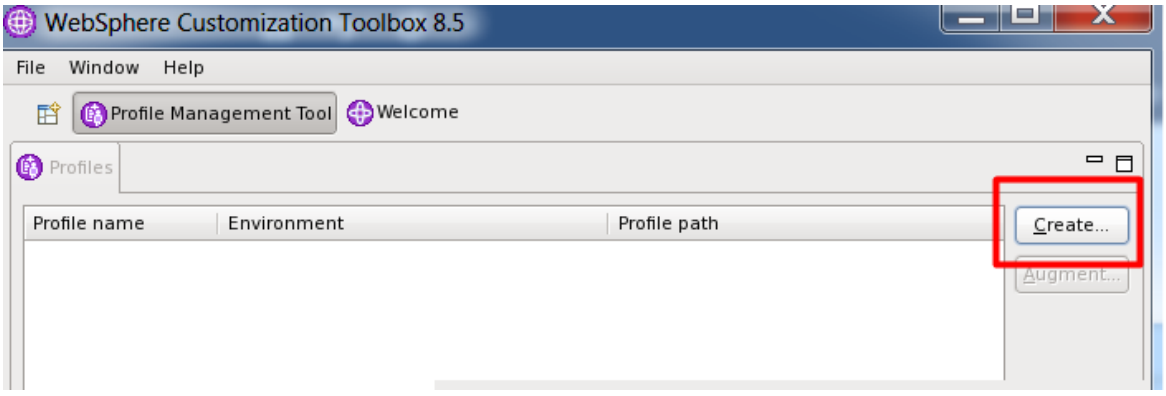


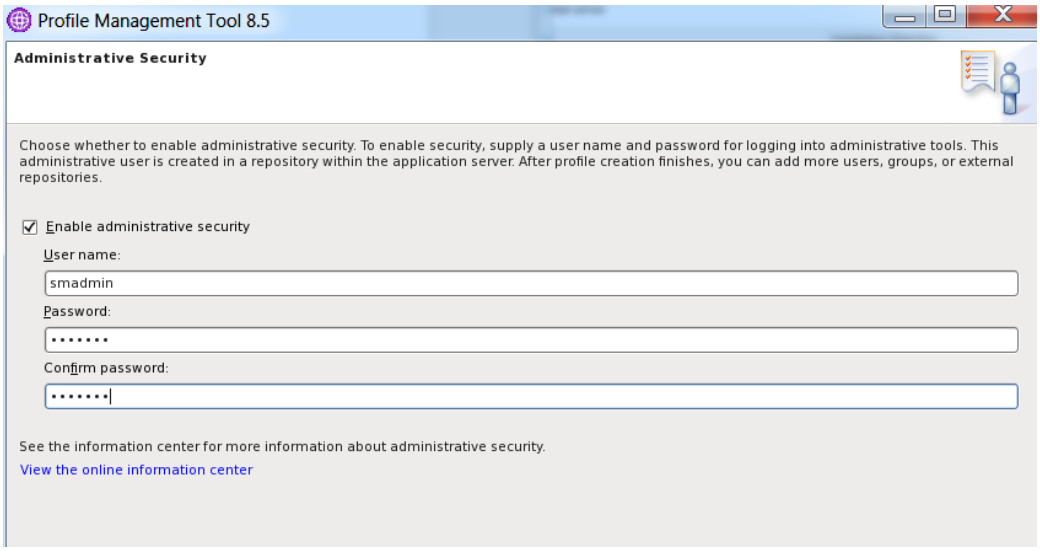
- enter installation path and at the end create a WAS profile:

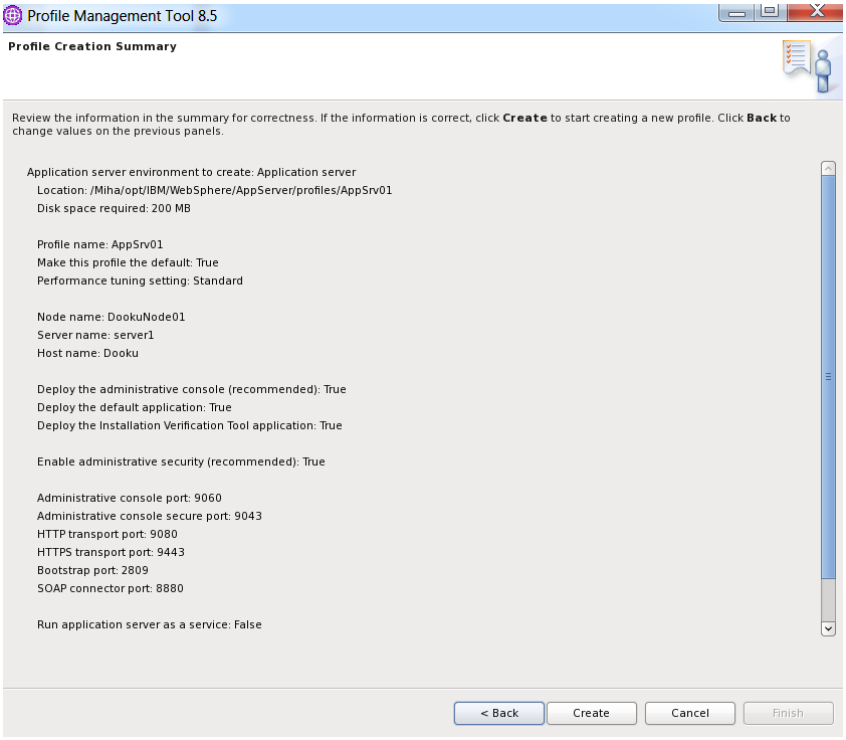




- select *create* option and to enable administrative security add a username and password for this user (default smadmin with netcool)





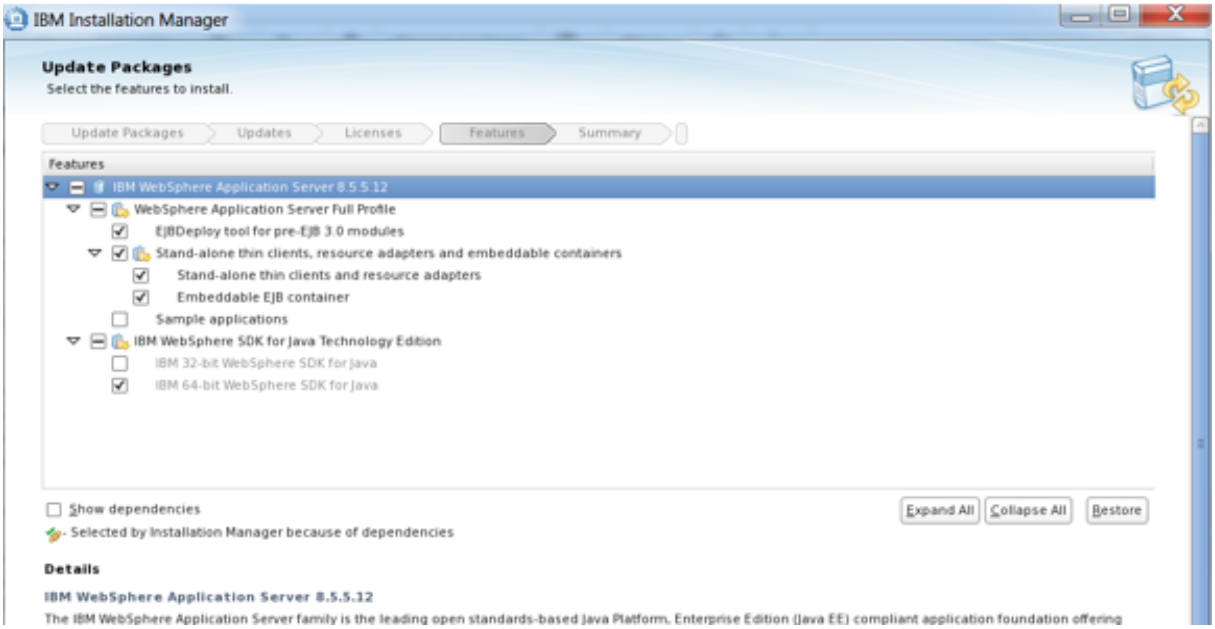


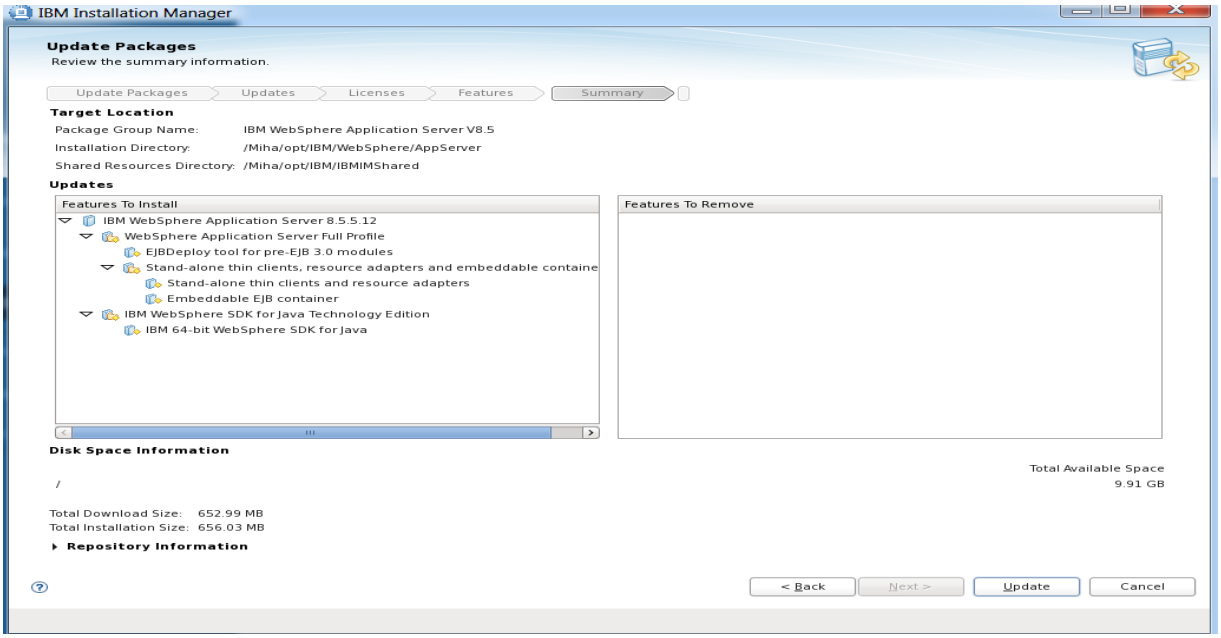
Upgrade to WAS 8.5.5 FP12

- extract all 3 parts into the same directory, add repository within IM and select Update from IM main menu:

```
unzip 8.5.5-WS-WAS-FP012-part1.zip -d WASFP
unzip 8.5.5-WS-WAS-FP012-part2.zip -d WASFP
unzip 8.5.5-WS-WAS-FP012-part3.zip -d WASFP
```

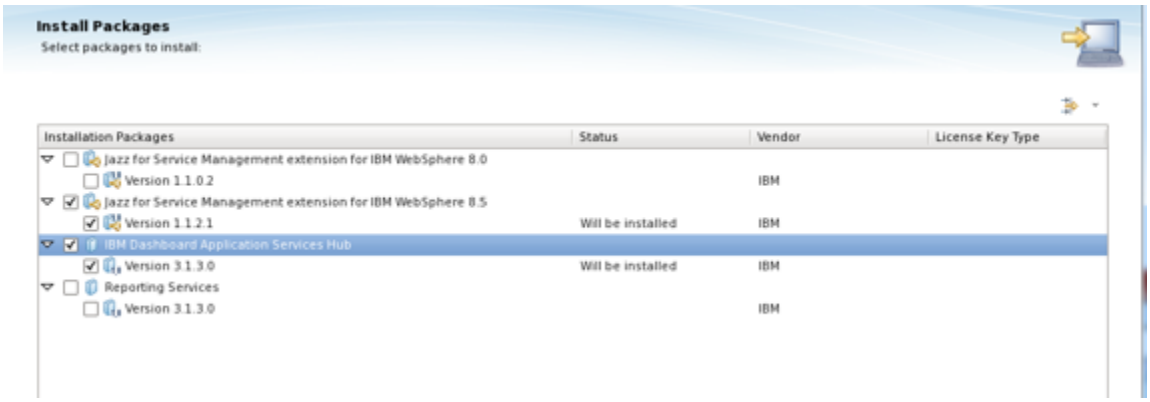
- make sure the correct options are selected then “Next” and “Update”



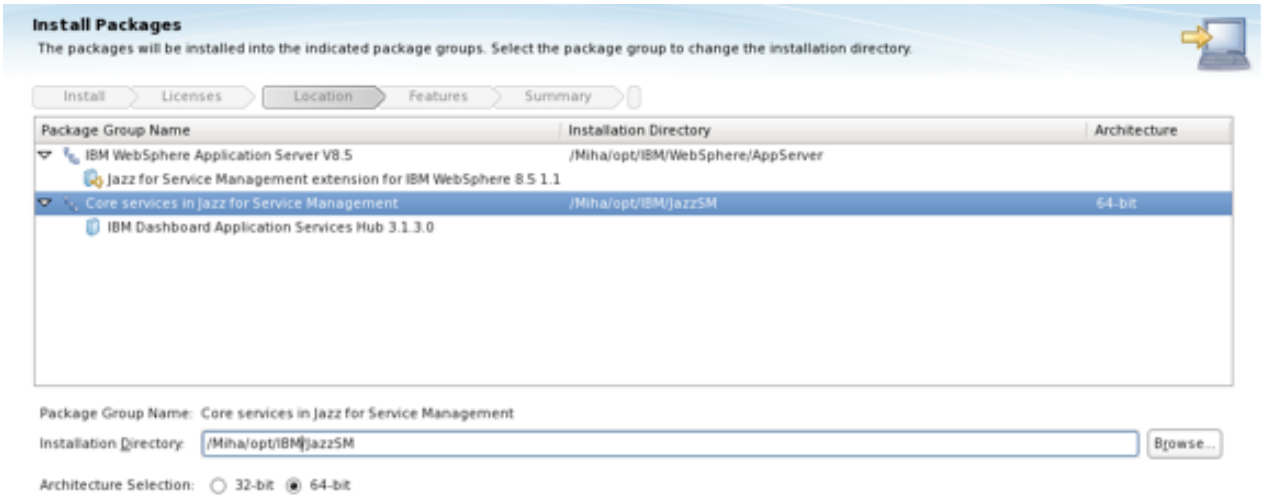


Install JazzSM 1.1.3/ DASH 3.1.3

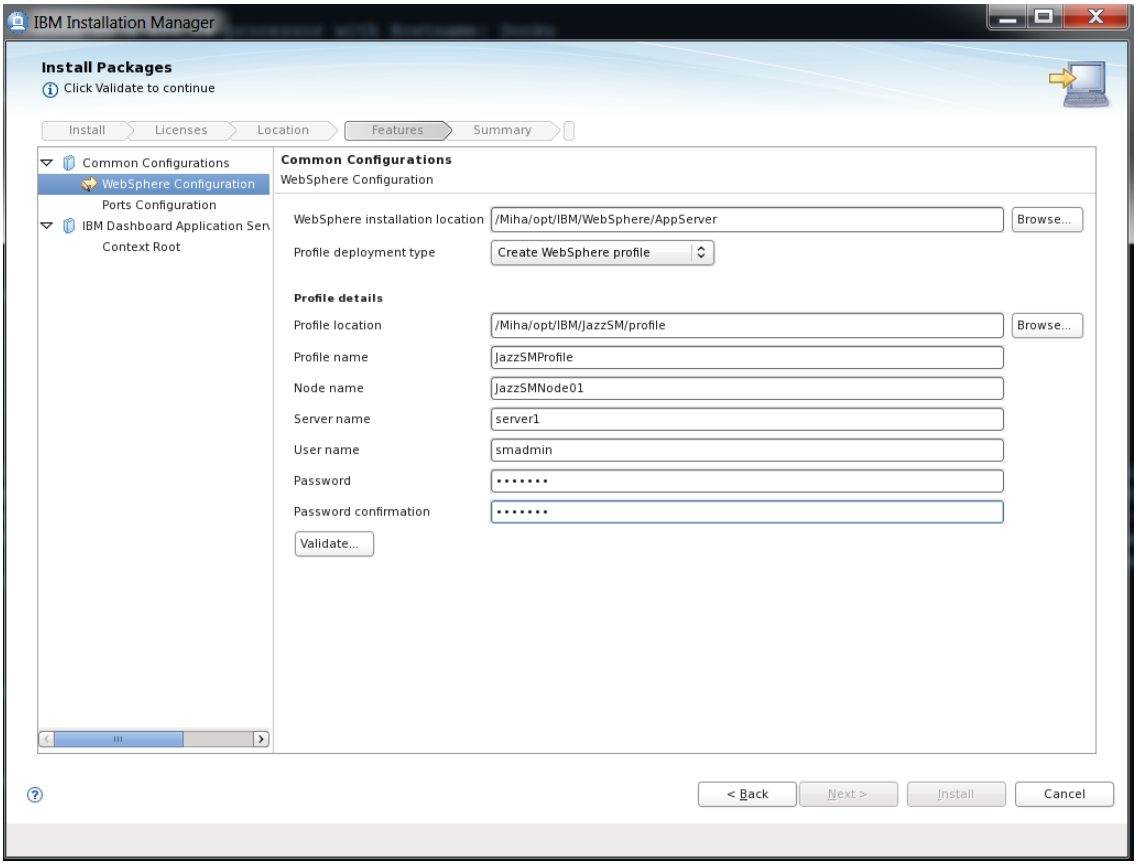
- add repository, select as minimum requirements: Jazz for IBM WebSphere 8.5 and IBM Dash options



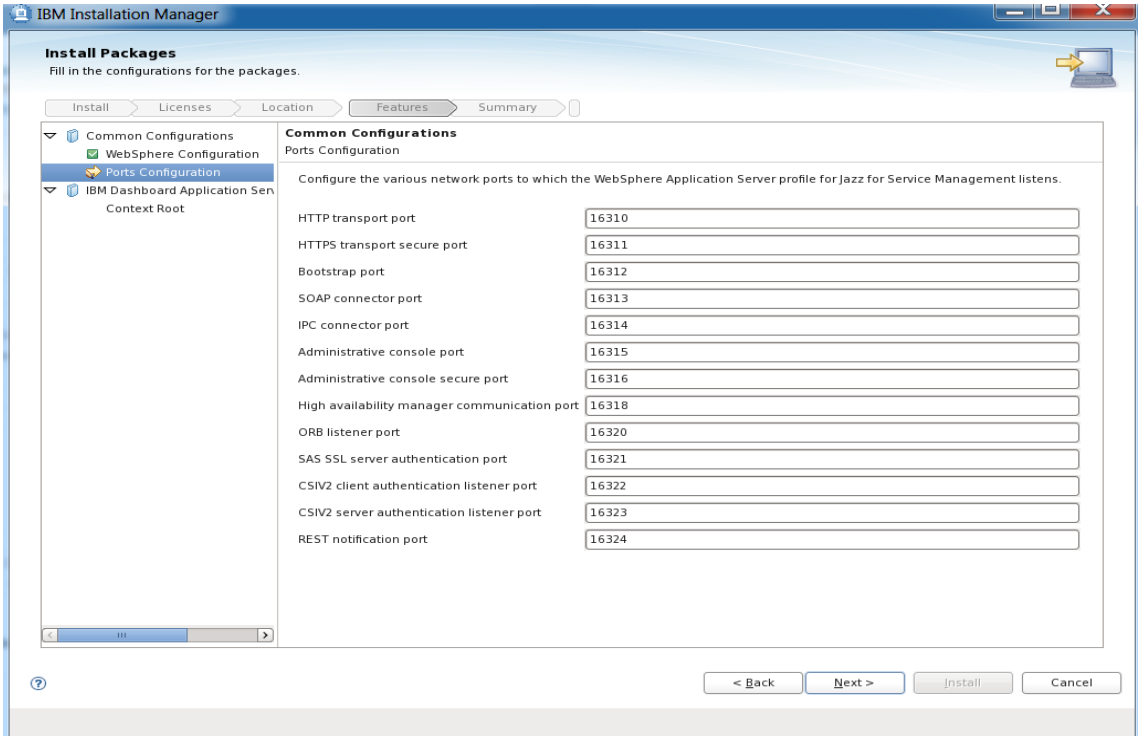
- enter installation path for both options by selecting each of them:



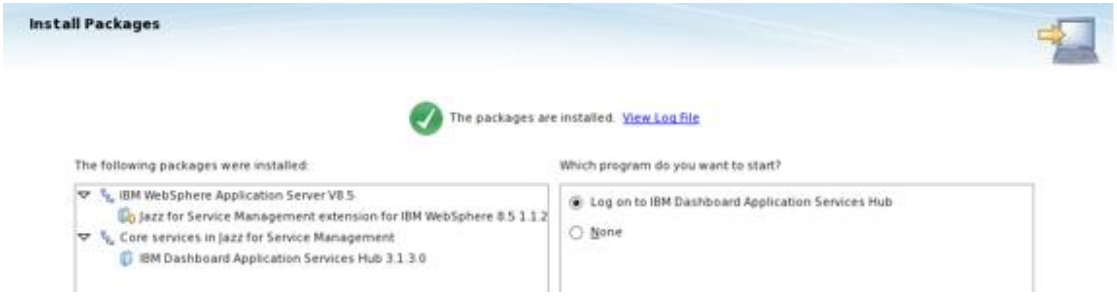
- select Next, enter WebSphere installation location and smadmin password; afterwards click on “Validate” option:



- change installation ports if needed and continue with the installation:

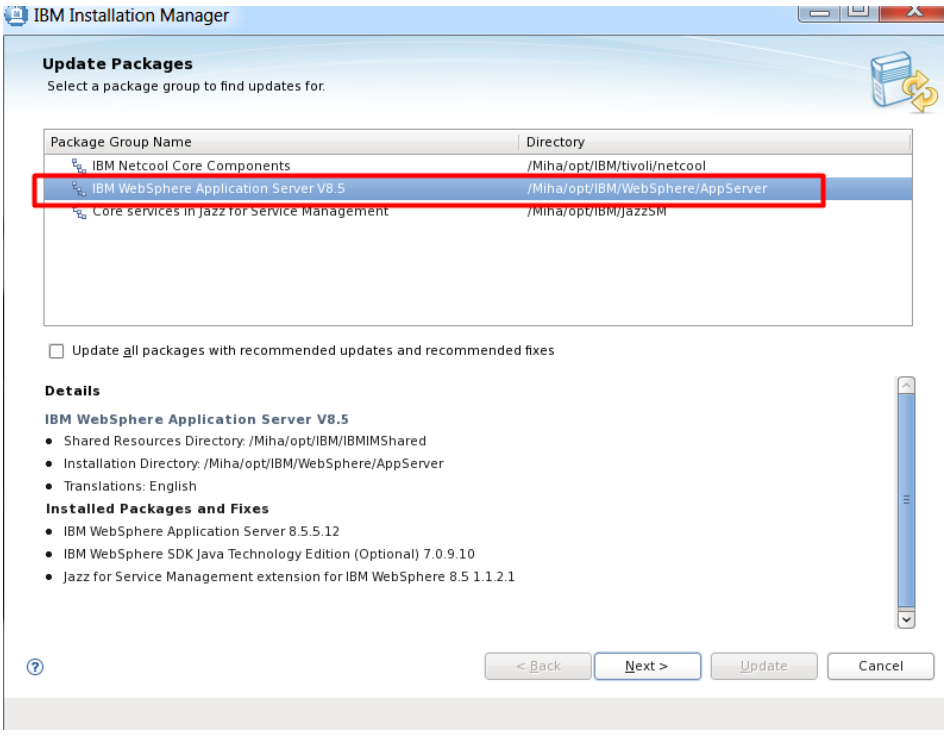


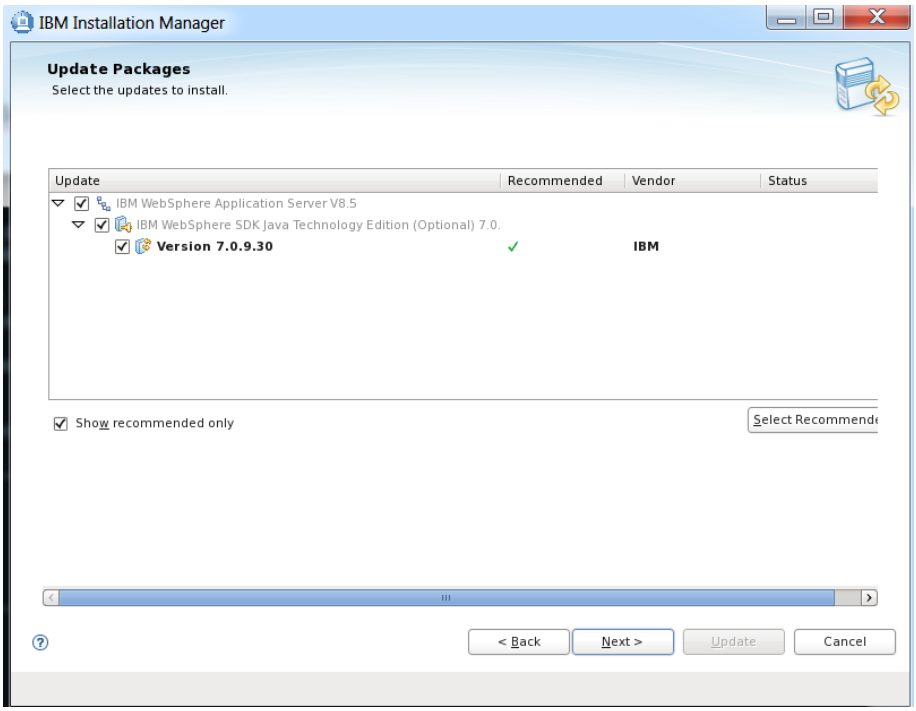
- by default, context root is /ibm/console; continue with the installation:

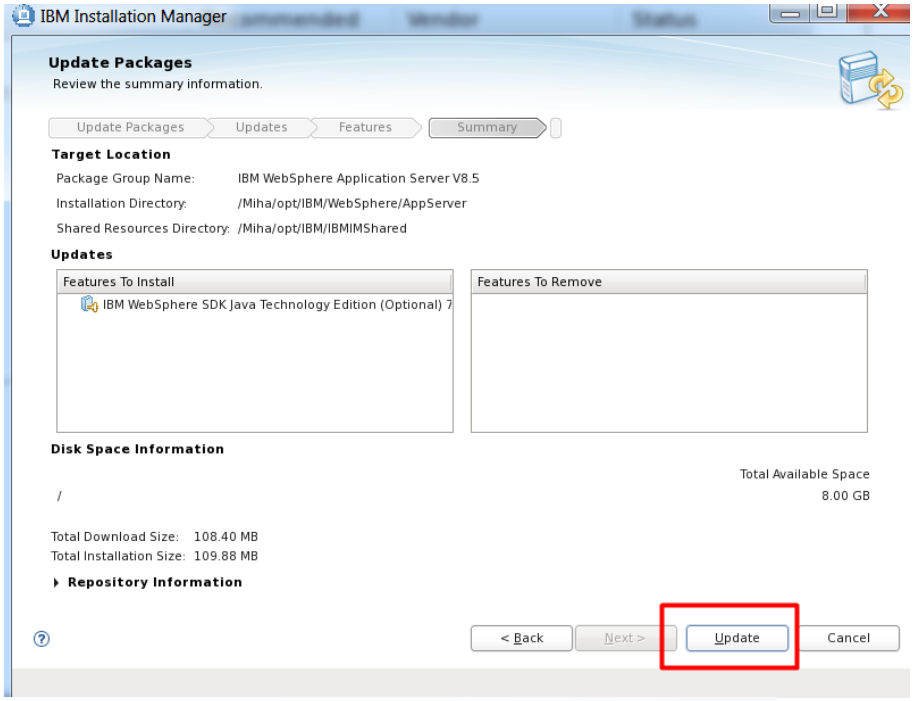


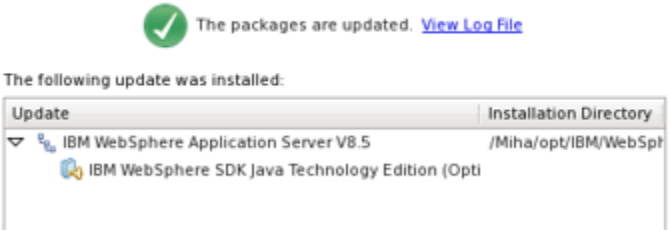
Upgrade Java to 7.0.9.30

- unzip Java package, add repository, select Update option and IBM WebSpehere from the list. Afterwards select “Next” and “Update”:



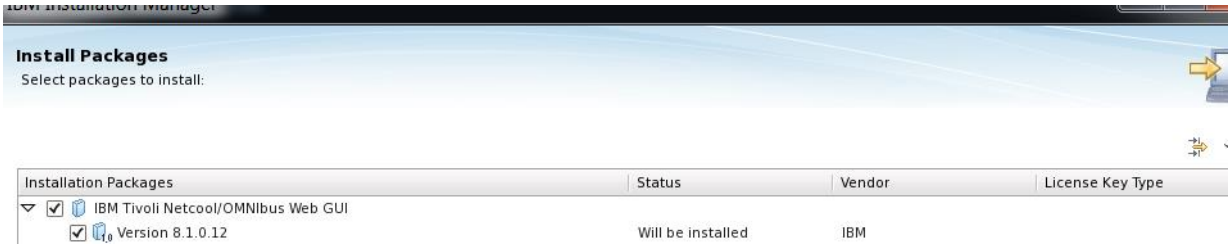

IBM Installation Manager
Update Packages
Select the updates to install.
Update
Recommended
Vendor
Status
IBM WebSphere Application Server V8.5
IBM WebSphere SDK Java Technology Edition (Optional) 7.0.
Version 7.0.9.30
IBM
Show recommended only
Select Recommende
< Back
Next >
Update
Cancel


IBM Installation Manager
Update Packages
Review the summary information.
Update Packages
Updates
Features
Summary
Target Location
Package Group Name: IBM WebSphere Application Server V8.5
Installation Directory: /Miha/opt/IBM/WebSphere/AppServer
Shared Resources Directory: /Miha/opt/IBM/IBMIMShared
Updates
Features To Install
IBM WebSphere SDK Java Technology Edition (Optional) 7
Features To Remove
Disk Space Information
Total Available Space
/
8.00 GB
Total Download Size: 108.40 MB
Total Installation Size: 109.88 MB
Repository Information
< Back
Next >
Update
Cancel

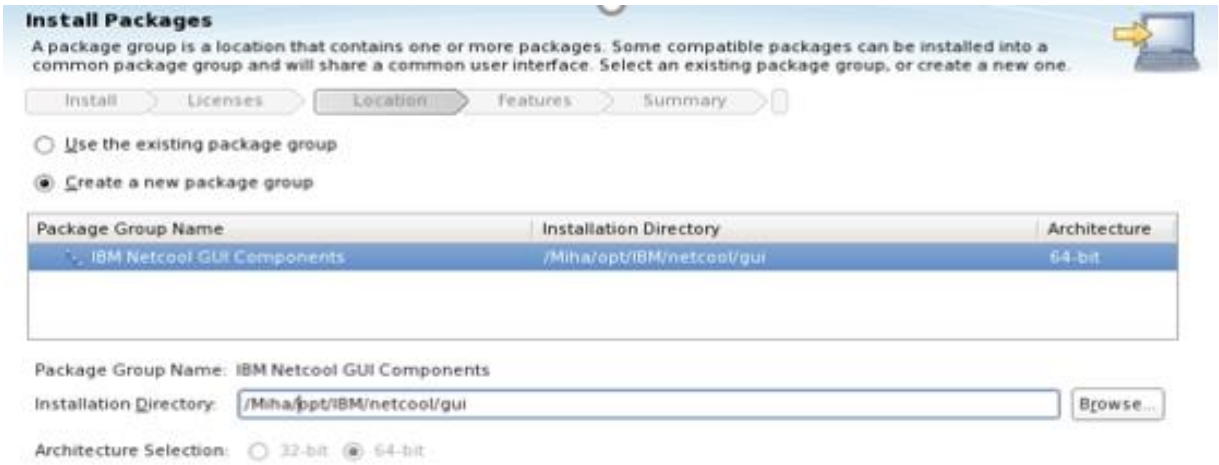

The packages are updated. View Log File
The following update was installed:
Update
Installation Directory
IBM WebSphere Application Server V8.5
/Miha/opt/IBM/WebSpl
IBM WebSphere SDK Java Technology Edition (Opti

Install WebGUI 8.1.0.4 and upgrade to Fix Pack 12

- add repository, select Install from IM, check Web GUI option to be installed:

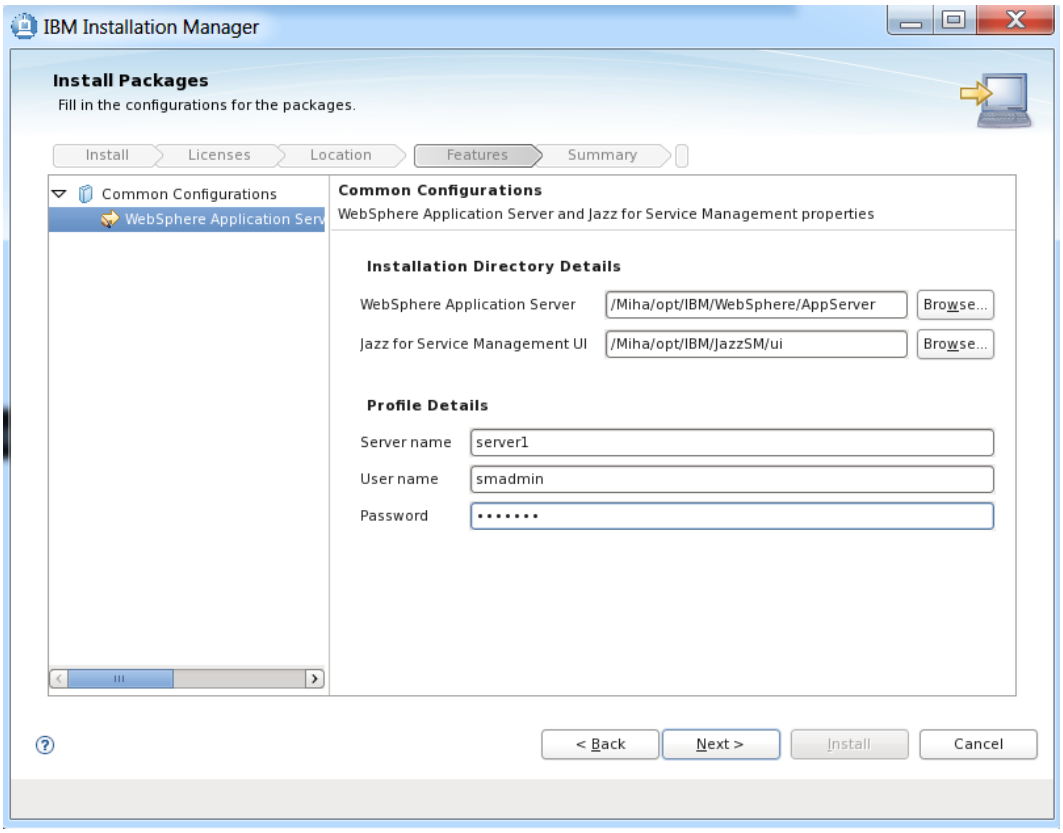


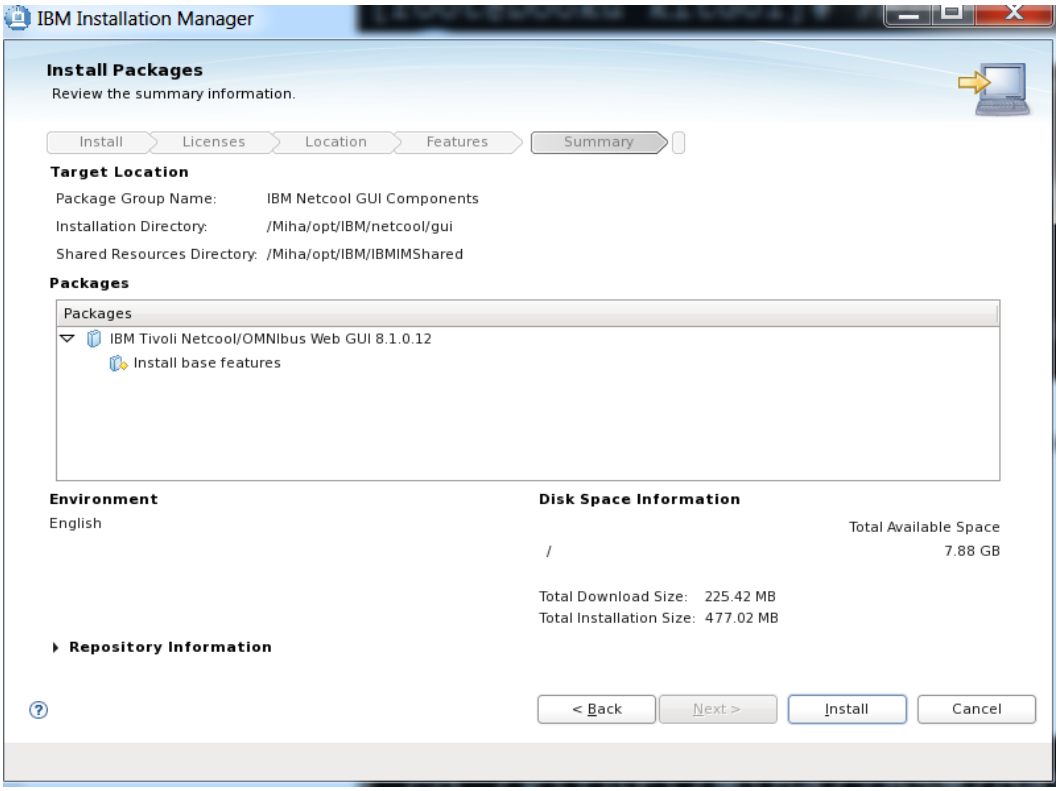
- enter installation directory for webgui:



- select as least “Install base feature” option:

- enter WebSphere and JazzSM installation directories as well as the profile details for webgui (username and password – by default, smadmin with netcool). Afterwards continue with the installation:


IBM Installation Manager
Install Packages
Fill in the configurations for the packages.
Install
Licenses
Location
Features
Summary
Common Configurations
WebSphere Application Serv
Common Configurations
WebSphere Application Server and Jazz for Service Management properties
Installation Directory Details
WebSphere Application Server
/Miha/opt/IBM/WebSphere/AppServer
Browse...
Jazz for Service Management UI
/Miha/opt/IBM/JazzSM/ui
Browse...
Profile Details
Server name
server1
User name
smadmin
Password
< Back
Next >
Install
Cancel


IBM Installation Manager
Install Packages
Review the summary information.
Install
Licenses
Location
Features
Summary
Target Location
Package Group Name: IBM Netcool GUI Components
Installation Directory: /Miha/opt/IBM/netcool/gui
Shared Resources Directory: /Miha/opt/IBM/IBMIMShared
Packages
Packages
IBM Tivoli Netcool/OMNIbus Web GUI 8.1.0.12
Install base features
Environment
English
Disk Space Information
Total Available Space
/
7.88 GB
Total Download Size: 225.42 MB
Total Installation Size: 477.02 MB
Repository Information
< Back
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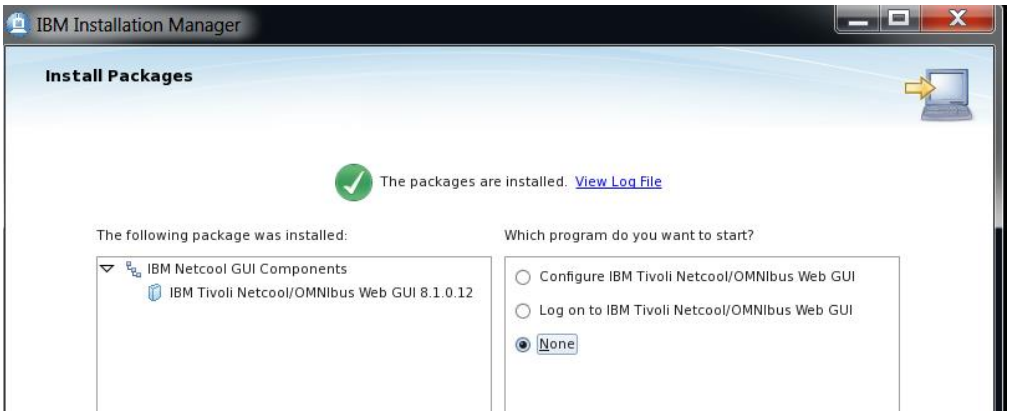
Cancel



OMNIbus configuration

- create new object server (in this example, object server name will be TBSM):

cd /Miha/opt/IBM/tivoli/netcool/omnibus/bin
run: nco_dbinit -server <server_name>

```
/Miha/opt/IBM/tivoli/netcool/omnibus/bin/nco_dbinit -server TBSM
```

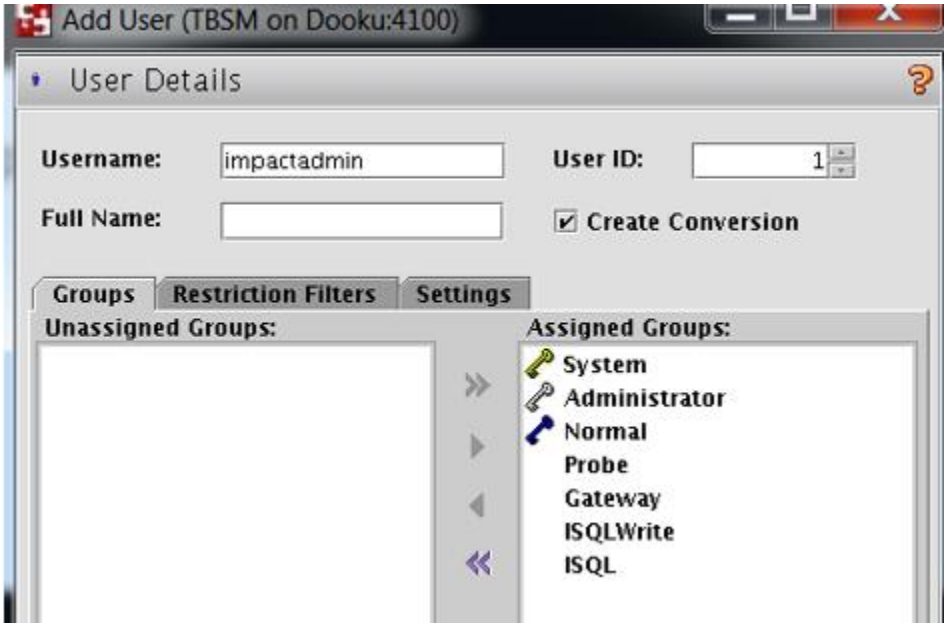
- edit omni.dat file and add the required details – port, hostname, object server name:

```
root@Dooku:/kituri/Miha/kitGUI
#
# omni.dat file as prototype for interfaces file
#
# Ident: $Id: omni.dat 1.5 1999/07/13 09:34:20 chris Development $
#
[TBSM]
{
        Primary: Dooku 4100
}
[NCO_GATE]
{
        Primary: Dooku 4300
}
[NCO_PA]
{
        Primary: Dooku 4200
}
[NCO_PROXY]
{
        Primary: Dooku 4400
}
```

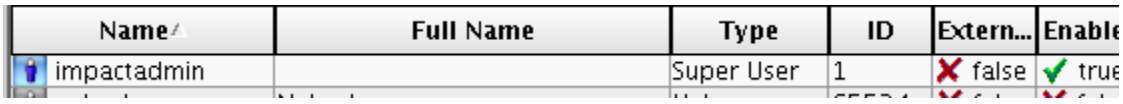
- run nco_igen for the changes to be saved and start the object server:

```
[root@Dooku kitGUI]# /Miha/opt/IBM/tivoli/netcool/bin/nco_igen
[root@Dooku kitGUI]# /Miha/opt/IBM/tivoli/netcool/omnibus/bin/nco_objserv -name TBSM &
[1] 15509
[root@Dooku kitGUI]#
Netcool/OMNIbus Object Server - Version 8.1.0 64-bit

(C) Copyright IBM Corp. 1994, 2012

Server 'TBSM' initialised - entering RUN state.
```

- to prepare for Impact 7.1 installation, add **impactadmin** user within object, add its password and assign groups to this user:



add password as well in “settings” tab



- **add TBSM schema to object server**

go to unzipped directory for TBSM and from here to data_linux/omnibus/schema_files directory:

```
# cd /kituri/Miha/TBSM/data_linux/omnibus/schema_files
```

run: ./import_schema.sh $NCHOME tbsm_db_update.sql RAD <OBJServer_Name> root <root-password>

example:

```
./import_schema.sh /Miha/opt/IBM/tivoli/netcool/ tbsm_db_update.sql RAD TBSM root
```

in this material object server has root as administrative user with no password;

```
[root@Dooku schema_files]# ./import_schema.sh /Miha/opt/IBM/tivoli/netcool/ tbsm_db_update.sql RAD TBSM root
Param 1:  InstallDir:  /Miha/opt/IBM/tivoli/netcool/
Param 2:  Name/Location of RAD Schema file to use:  tbsm_db_update.sql
Param 3:  Pass in the schema validation string to use:  RAD
Param 4:  The ObjectServer name to use (NCOMS):  TBSM
Param 5:  The ObjectServer user name to use (root):  root
Param 6:  The ObjectServer password to use ():  nusr-defined
Running:  export NCHOME=/Miha/opt/IBM/tivoli/netcool/
Running:  export OMNIHOME=/Miha/opt/IBM/tivoli/netcool//omnibus
Determine if Object Server is running
ObjectServer is running, continue...
Running: cat tbsm_db_update.sql | /Miha/opt/IBM/tivoli/netcool//omnibus/bin/nco_sql -s TBSM -u root -p --hidden--
ERROR=Object exists on line 83 of statement
'-----------------------------------------------------------------...', at or
near 'BSM_Identity'
(0 rows affected)
(0 rows affected)
(0 rows affected)
ERROR=Object not found on line 15 of statement
'-----------------------------------------------------------------...', at
or near 'service_deps'
(0 rows affected)
(0 rows affected)
(0 rows affected)
(0 rows affected)
(0 rows affected)
(0 rows affected)
(0 rows affected)
Verifying schema
Running:  describe=/Miha/opt/IBM/tivoli/netcool//omnibus/bin/nco_sql -s TBSM -u root -p --hidden-- << EOF
describe alerts.status;
go
EOF
echo $describe | grep -o RAD | wc -l

Schema import has been completed successfully. 33 rows found.
[root@Dooku schema_files]#
```

run: ./import_schema.sh $NCHOME ClearServiceDeps.auto RAD <OBJServer_Name> root <root-password>

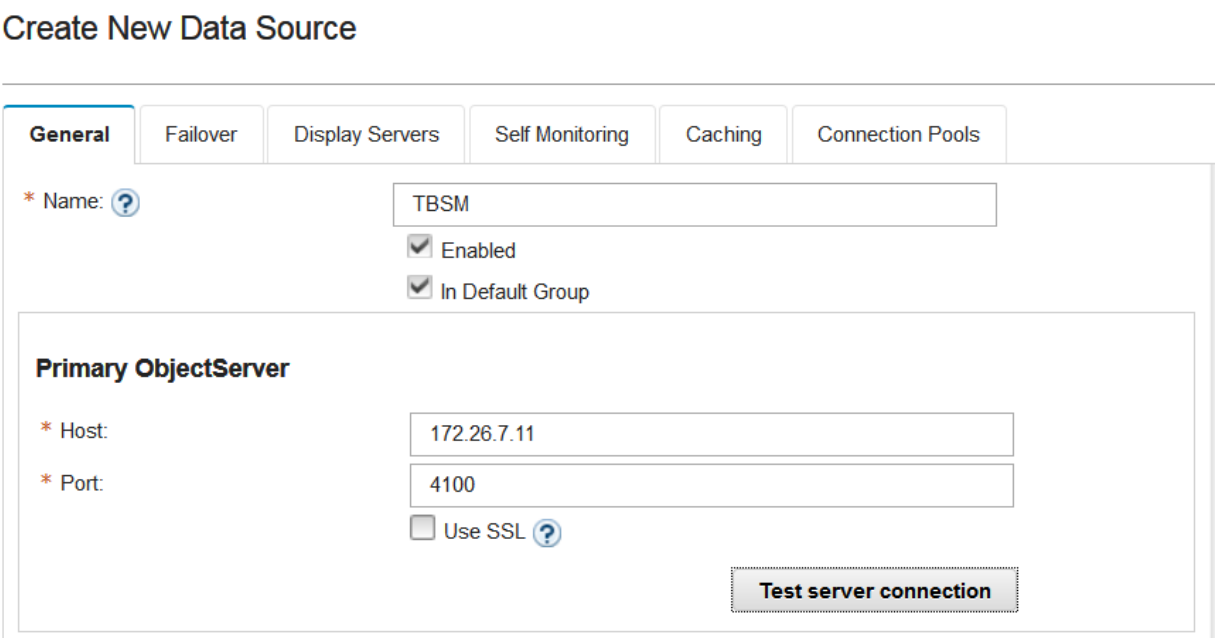
example:

```
./import_schema.sh /Miha/opt/IBM/tivoli/netcool/ ClearServiceDeps.auto RAD TBSM root
```

```
[root@Dooku schema_files]# ./import_schema.sh /Miha/opt/IBM/tivoli/netcool/ ClearServiceDeps.auto RAD TBSM root
Param 1:  InstallDir:  /Miha/opt/IBM/tivoli/netcool/
Param 2:  Name/Location of RAD Schema file to use:  ClearServiceDeps.auto
Param 3:  Pass in the schema validation string to use:  RAD
Param 4:  The ObjectServer name to use (NCOMS):  TBSM
Param 5:  The ObjectServer user name to use (root):  root
Param 6:  The ObjectServer password to use ():  nusr-defined
Running:  export NCHOME=/Miha/opt/IBM/tivoli/netcool/
Running:  export OMNIHOME=/Miha/opt/IBM/tivoli/netcool//omnibus
Determine if Object Server is running
ObjectServer is running, continue...
Running: cat ClearServiceDeps.auto | /Miha/opt/IBM/tivoli/netcool//omnibus/bin/nco_sql -s TBSM -u root -p --hidden--
(0 rows affected)
Verifying schema
Running:  describe=/Miha/opt/IBM/tivoli/netcool//omnibus/bin/nco_sql -s TBSM -u root -p --hidden-- << EOF
describe alerts.status;
go
EOF
echo $describe | grep -o RAD | wc -l

Schema import has been completed successfully. 33 rows found.
```

- add object server as repository for webgui and create datasource in webgui console

```
[root@Dooku bin]# ./confvmm4ncos.sh /Miha/opt/IBM/JazzSM/profile root '' Dooku 4100
configfile=/Miha/opt/IBM/JazzSM/profile/config/cells/JazzSMNode01Cell/wim/config/wimconfig.xml
Warning : 0
Result - Success : 0
Please restart the server for these changes to take effect.
```



Apply Cumulative Patch 5 for JazzSM

- make sure that JazzSM is stopped
- go to extracted CP5 directory
- add 777 permission to applyPatch.sh script

```
[root@Dooku CP5]# cd 3.1.3.0CumulativePatch005/
[root@Dooku 3.1.3.0CumulativePatch005]# ls
applyPatch_aix.sh  applyPatch.bat  applyPatch.sh  FILES
[root@Dooku 3.1.3.0CumulativePatch005]# chmod 777 applyPatch.sh
[root@Dooku 3.1.3.0CumulativePatch005]#
[root@Dooku 3.1.3.0CumulativePatch005]# ls -altr
total 68
-rwxr-xr-x 1 root root 18748 Dec 12  2017 applyPatch.sh
-rwxr-xr-x 1 root root 24196 Dec 12  2017 applyPatch.bat
-rwxr-xr-x 1 root root 18803 Dec 20  2017 applyPatch_aix.sh
drwxr-xr-x 1 root root     0 Dec 20  2017 FILES
drwxr-xr-x 1 root root  4096 Dec 22  2017 .
drwxr-xr-x 1 root root     0 Aug 29 08:38 ..
```

- run the following script with the correct parameters:

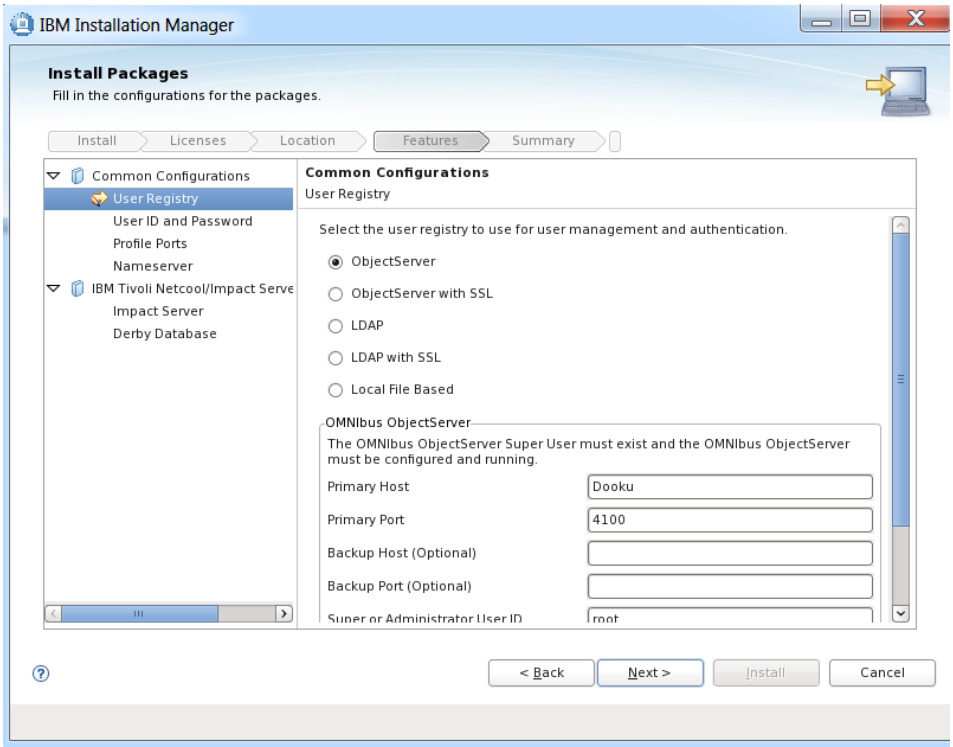
./applyPatch.sh -username *smadmin* -password *netcool* -dashHome */Miha/opt/IBM/JazzSM/ui* -servername *server1*


```
[root@Dooku 3.1.3.0CumulativePatch005]# ./applyPatch.sh -username smadmin -password netcool -dashHome /Miha/opt/IBM/JazzSM/ui -servername server1
    Installing DASH version 3.1.3.0 cumulative patch 201712110242
    Checking DASH version...
    Checking DASH patch level...
    Checking server status...
    Preparing patch...
    Backing up original files from profileinstalledApps...
    Backing up original files from profile/config/cells/...
    Backing up original files from /Miha/opt/IBM/JazzSM/ui ...
    Backing up original files from /Miha/opt/IBM/JazzSM/ui ...
    Backing up original files specific to ActiveMQ fix ...
    Creating rollback script...
    Installing patch files to profile/installedApps...
    Installing patch files to profile/config/cells...
    Installing patch files to /Miha/opt/IBM/JazzSM/ui/...
    Installing patch files to /Miha/opt/IBM/JazzSM/ui/../profile/...
    Executing patch deploy commands...
    Setting patch level...
    Patch 201712110242 successfully installed.
```

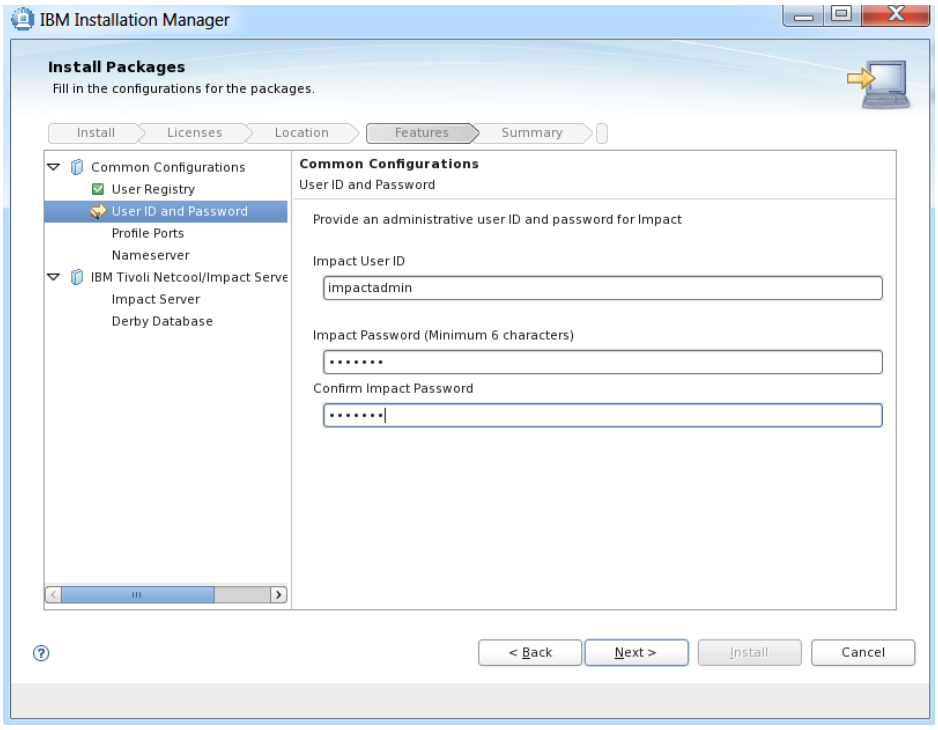
Install Impact 7.1.0.4 and upgrade to Fix pack 13

- Impact server name should be **TBSM** and cluster name should be **TBSMCLUSTER**
- add repository for both Impact base product and for fix pack 13 as well in order to install directly 7.1.0.13
- enter installation path directory:

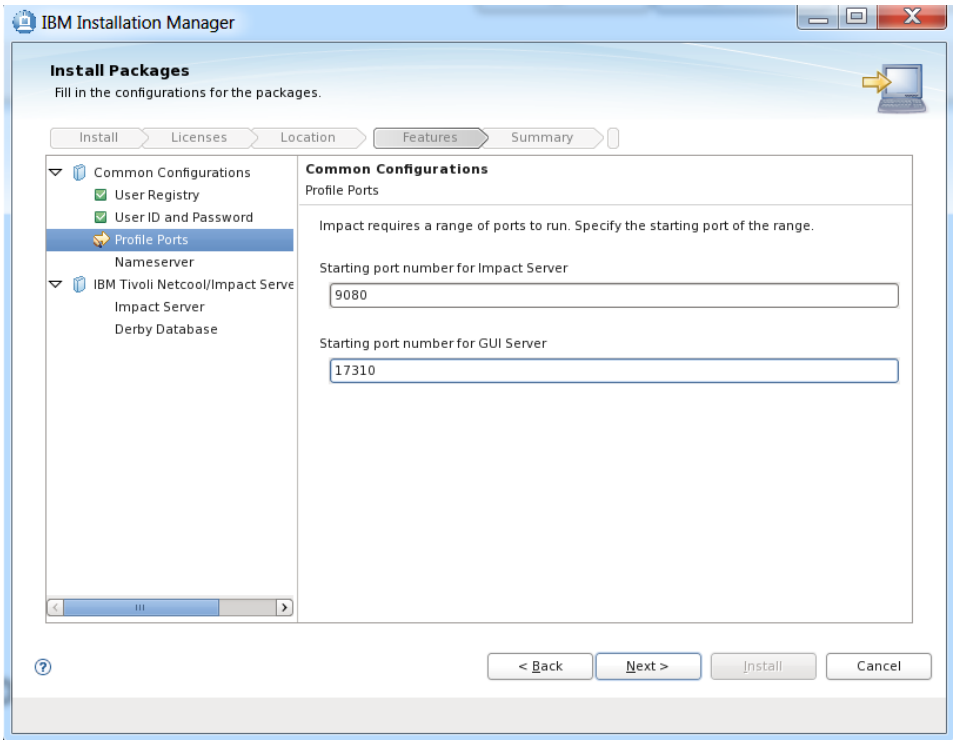
- configure user registry – this should be the same as for webgui and tbsm; in this example object server is being used for user registry, hence configure the required details for omnibus: host, port and credentials details:



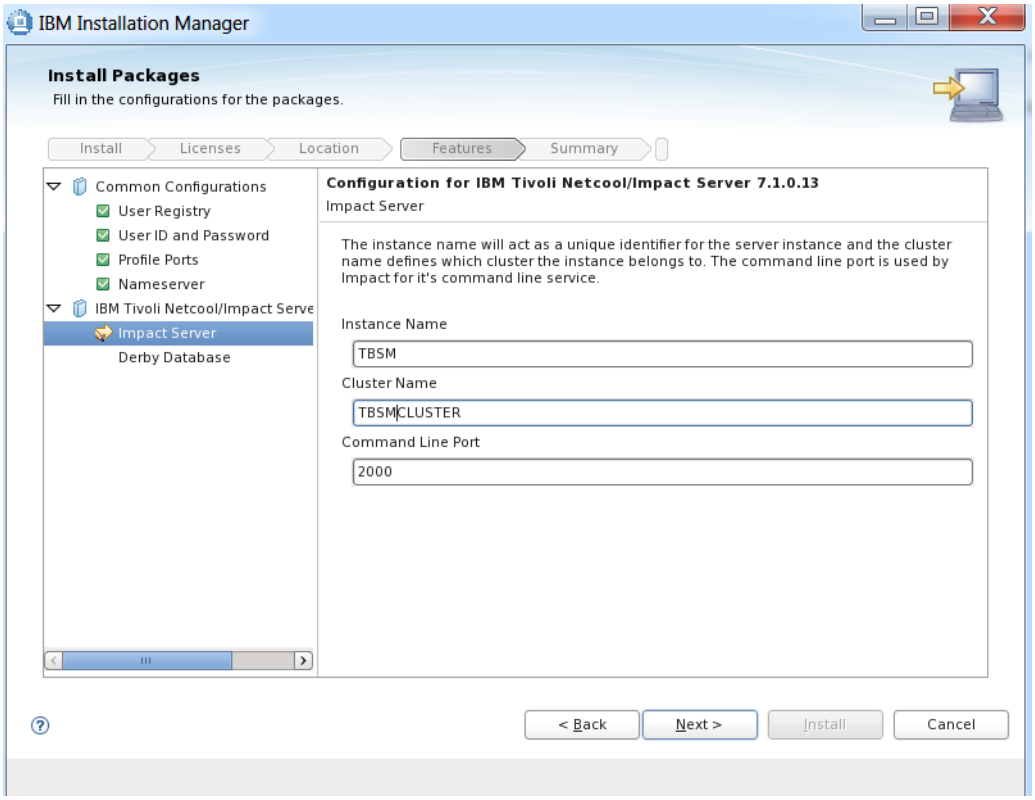
- enter impactadmin passsword – should be the same as the one configured in object server:



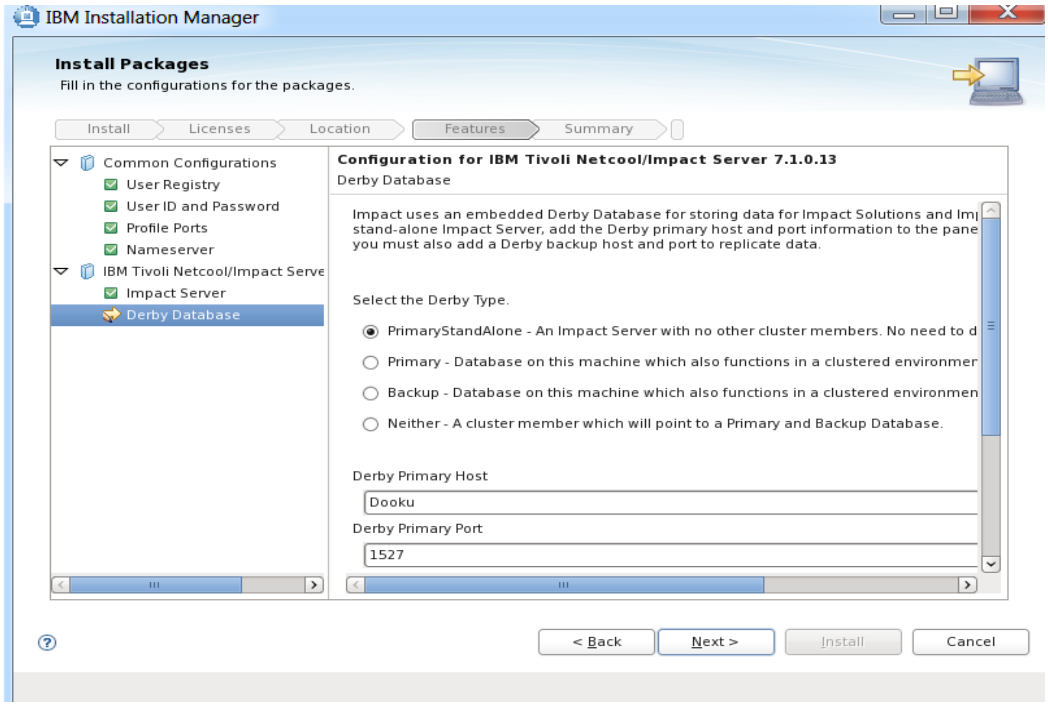
- enter port numbers for Impact Server and GUI Server (this is recommended to be different to the one configured for webgui if they are on the same server)



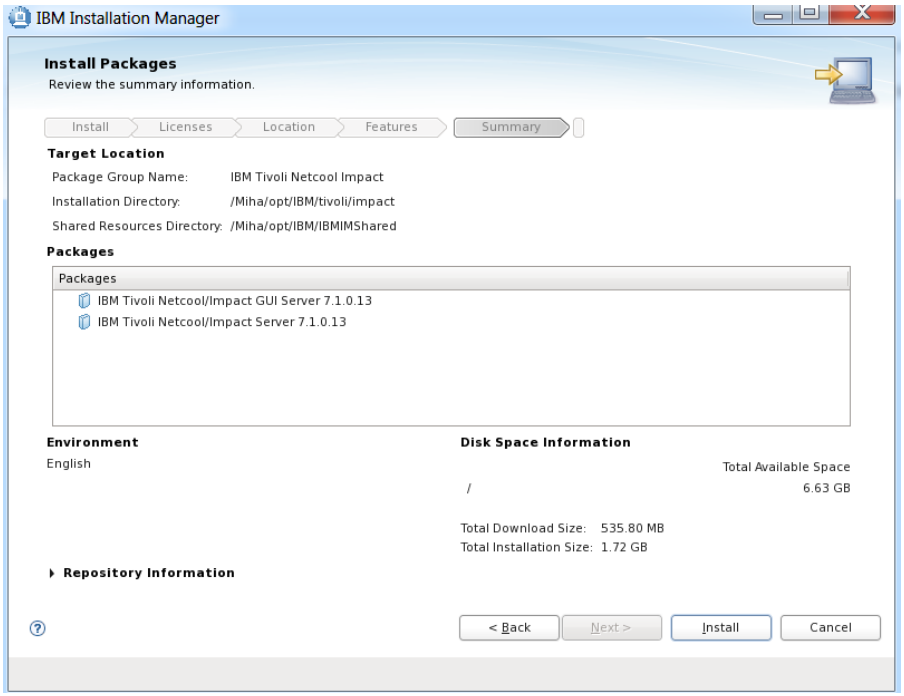
- enter Impact Instance Name and Cluster Name – this should be TBSM and TBSMCLUSTER (mandatory)

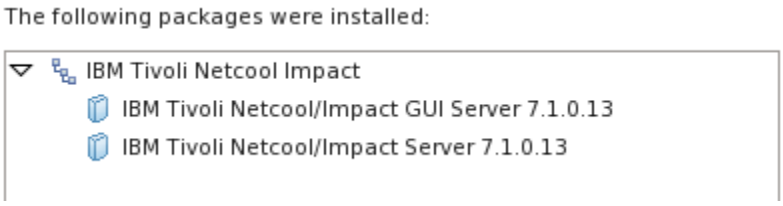


- select derby type – primarystandalone is used in this case and enter host name details:



- continue with the Installation:

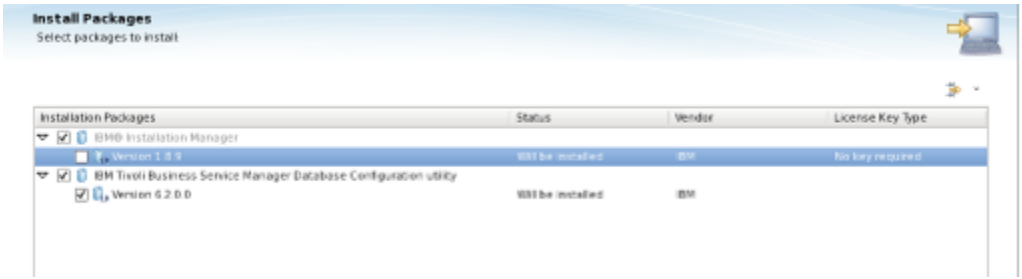




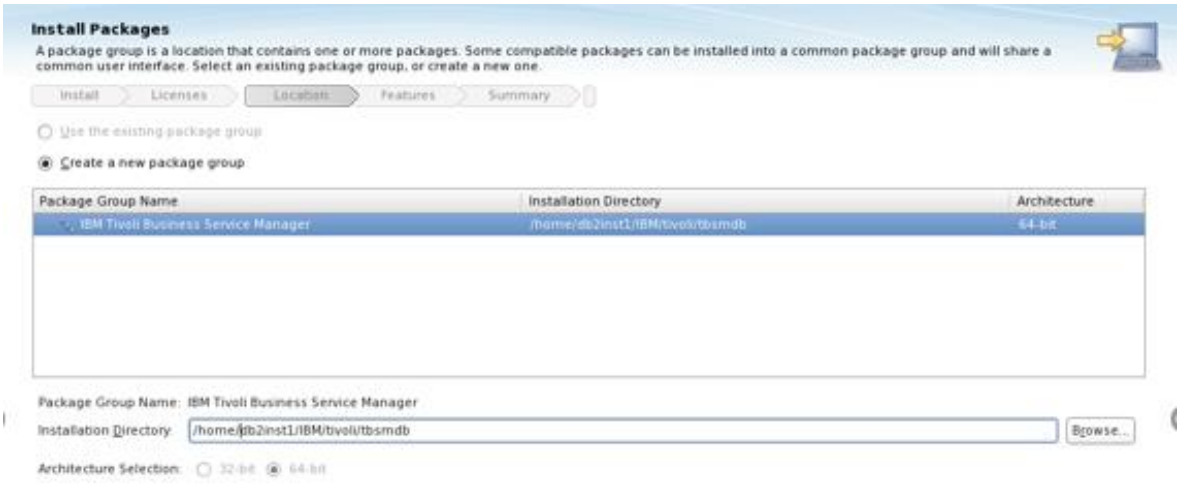
Install TBSM Database Configuration Utility

- login as db2inst1 user:
- go to the directory were TBSM package was extracted and from here go to dbconf_linux directory:
- run ./install_gui_dbconf.sh script:

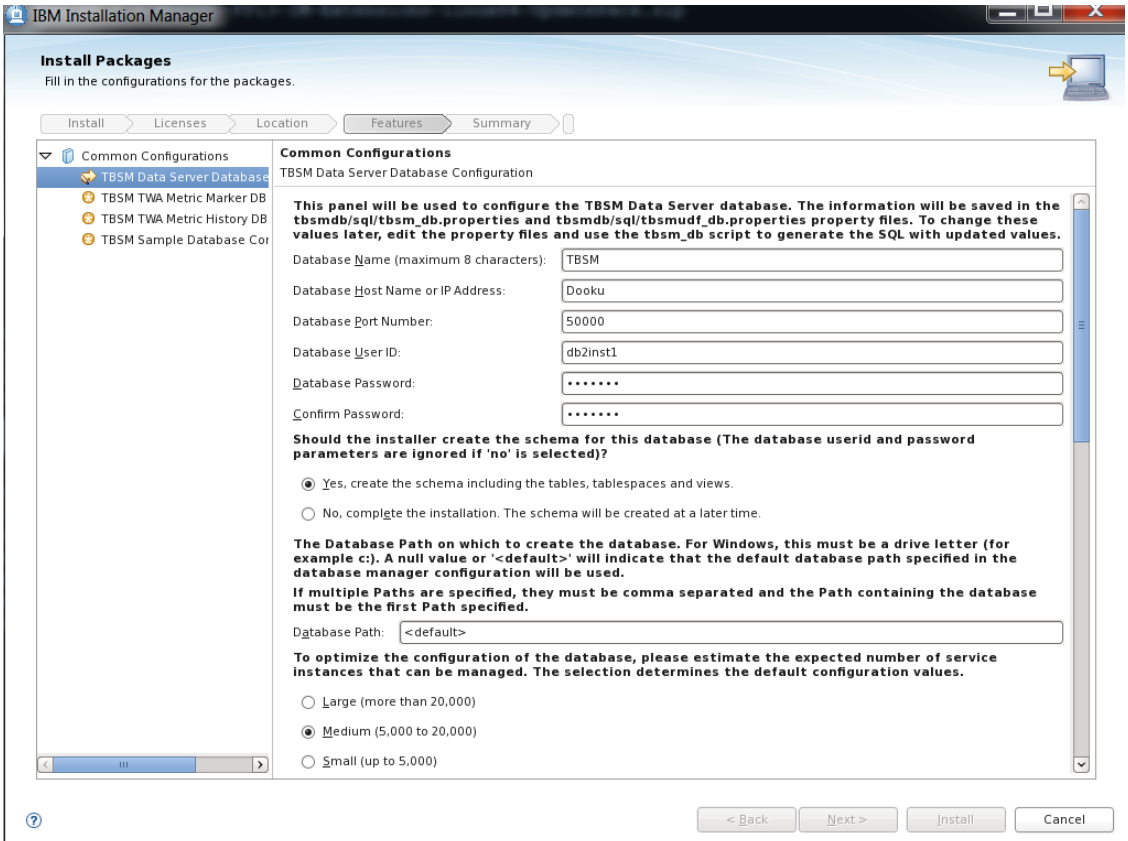
```
[db2inst1@Dooku ~]$ cd /kituri/Miha/TBSM/dbconf_linux/
[db2inst1@Dooku dbconf_linux]$ ./install_gui_dbconf.sh
```

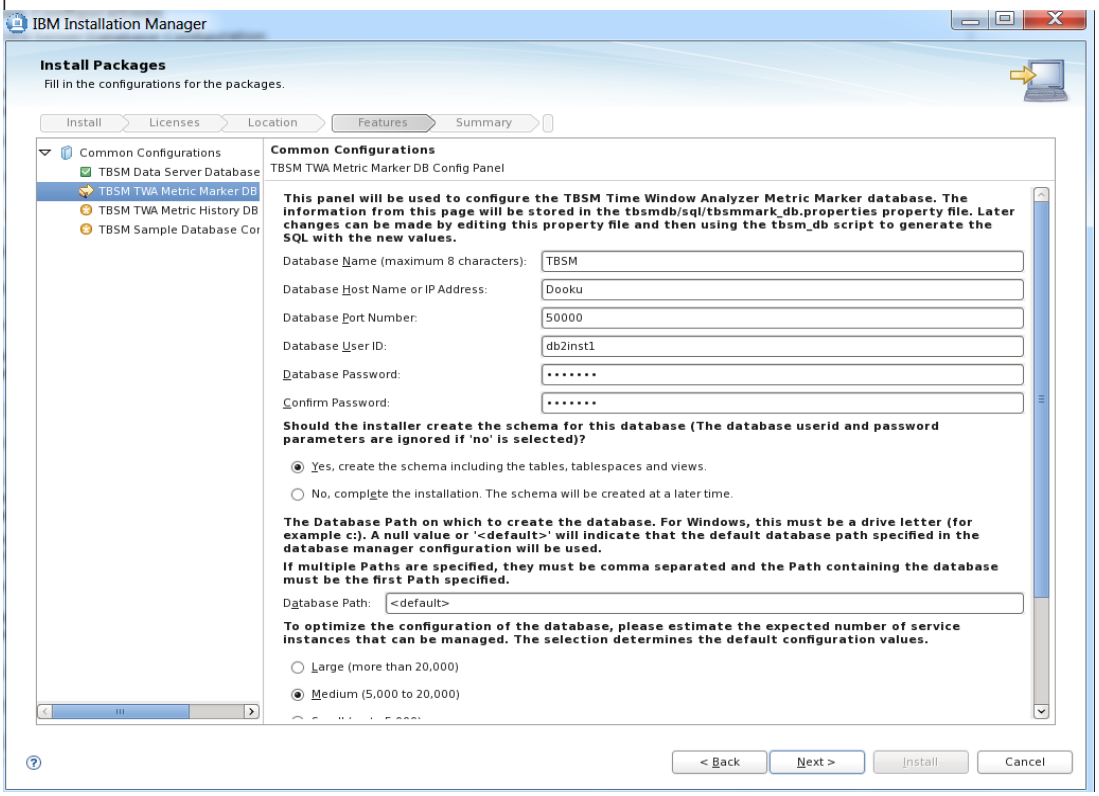


- enter installation directory for TBSM database configuration utility; db2inst1 user needs to have write permission to this directory:



- enter details for TBSM database name, host, port, user id and password; select yes to create the schema; as database path this could be left as default; same configuration details is required for the next 3 common configuration panels:


IBM Installation Manager
Install Packages
Fill in the configurations for the packages.
Install
Licenses
Location
Features
Summary
Common Configurations
TBSM Data Server Database
TBSM TWA Metric Marker DB
TBSM TWA Metric History DB
TBSM Sample Database Cor
Common Configurations
TBSM Data Server Database Configuration
This panel will be used to configure the TBSM Data Server database. The information will be saved in the tbsmdb/sql/tbsm_db.properties and tbsmdb/sql/tbsmudf_db.properties property files. To change these values later, edit the property files and use the tbsm_db script to generate the SQL with updated values.
Database Name (maximum 8 characters):
TBSM
Database Host Name or IP Address:
Dooku
Database Port Number:
50000
Database User ID:
db2inst1
Database Password:
Confirm Password:
Should the installer create the schema for this database (The database userid and password parameters are ignored if 'no' is selected)?
Yes, create the schema including the tables, tablespaces and views.
No, complete the installation. The schema will be created at a later time.
The Database Path on which to create the database. For Windows, this must be a drive letter (for example c:). A null value or '<default>' will indicate that the default database path specified in the database manager configuration will be used.
If multiple Paths are specified, they must be comma separated and the Path containing the database must be the first Path specified.
Database Path:
<default>
To optimize the configuration of the database, please estimate the expected number of service instances that can be managed. The selection determines the default configuration values.
Large (more than 20,000)
Medium (5,000 to 20,000)
Small (up to 5,000)
< Back
Next >
Install
Cancel


IBM Installation Manager
Install Packages
Fill in the configurations for the packages.
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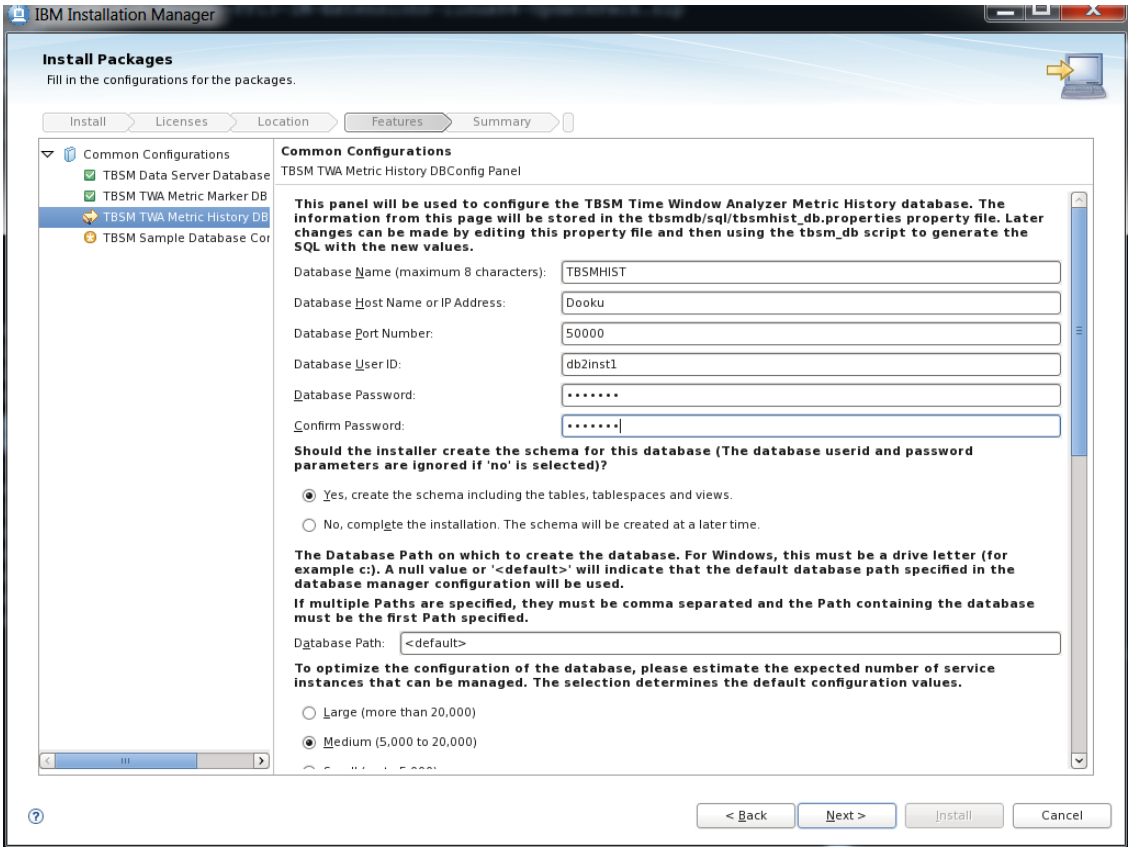
Summary
Common Configurations
TBSM Data Server Database
TBSM TWA Metric Marker DB
TBSM TWA Metric History DB
TBSM Sample Database Cor
Common Configurations
TBSM TWA Metric Marker DB Config Panel
This panel will be used to configure the TBSM Time Window Analyzer Metric Marker database. The information from this page will be stored in the tbsmdb/sql/tbsmmark_db.properties property file. Later changes can be made by editing this property file and then using the tbsm_db script to generate the SQL with the new values.
Database Name (maximum 8 characters):
TBSM
Database Host Name or IP Address:
Dooku
Database Port Number:
50000
Database User ID:
db2inst1
Database Password:
Confirm Password:
Should the installer create the schema for this database (The database userid and password parameters are ignored if 'no' is selected)?
Yes, create the schema including the tables, tablespaces and views.
No, complete the installation. The schema will be created at a later time.
The Database Path on which to create the database. For Windows, this must be a drive letter (for example c:). A null value or '<default>' will indicate that the default database path specified in the database manager configuration will be used.
If multiple Paths are specified, they must be comma separated and the Path containing the database must be the first Path specified.
Database Path:
<default>
To optimize the configuration of the database, please estimate the expected number of service instances that can be managed. The selection determines the default configuration values.
Large (more than 20,000)
Medium (5,000 to 20,000)
< Back
Next >
Install
Cancel


IBM Installation Manager
Install Packages
Fill in the configurations for the packages.
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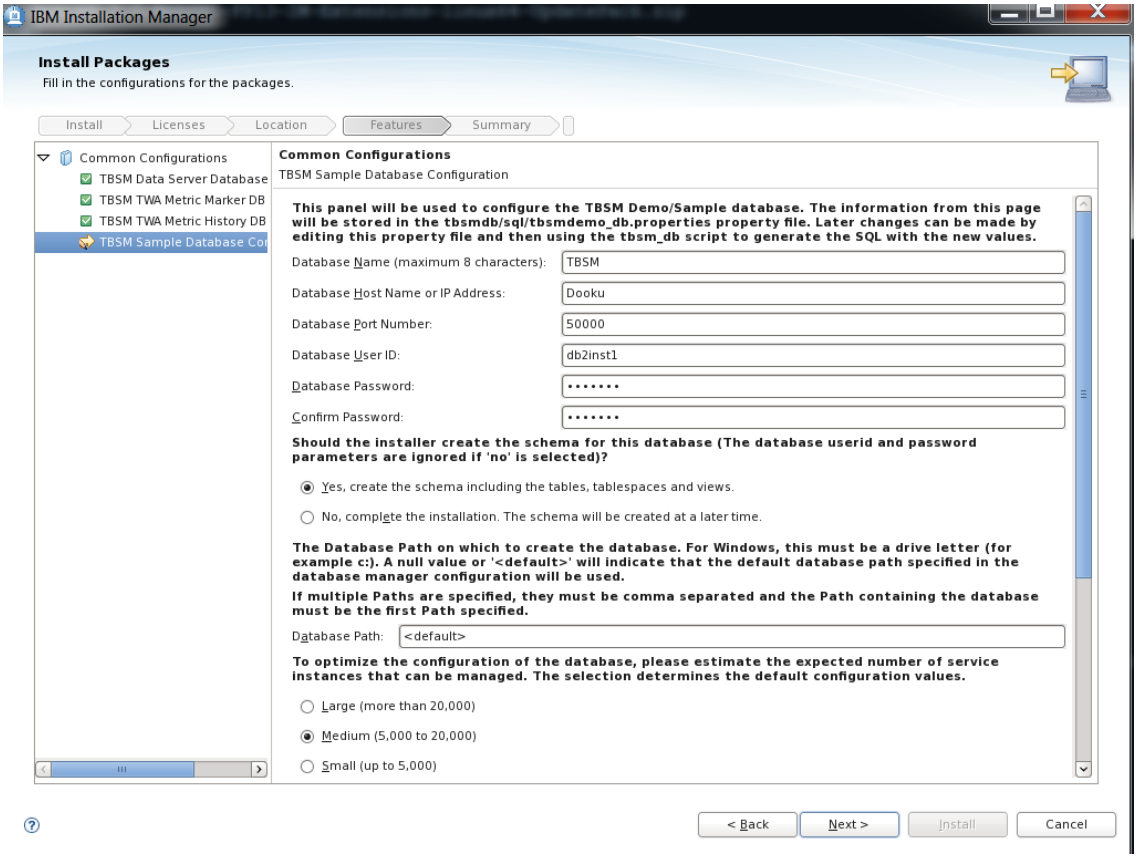
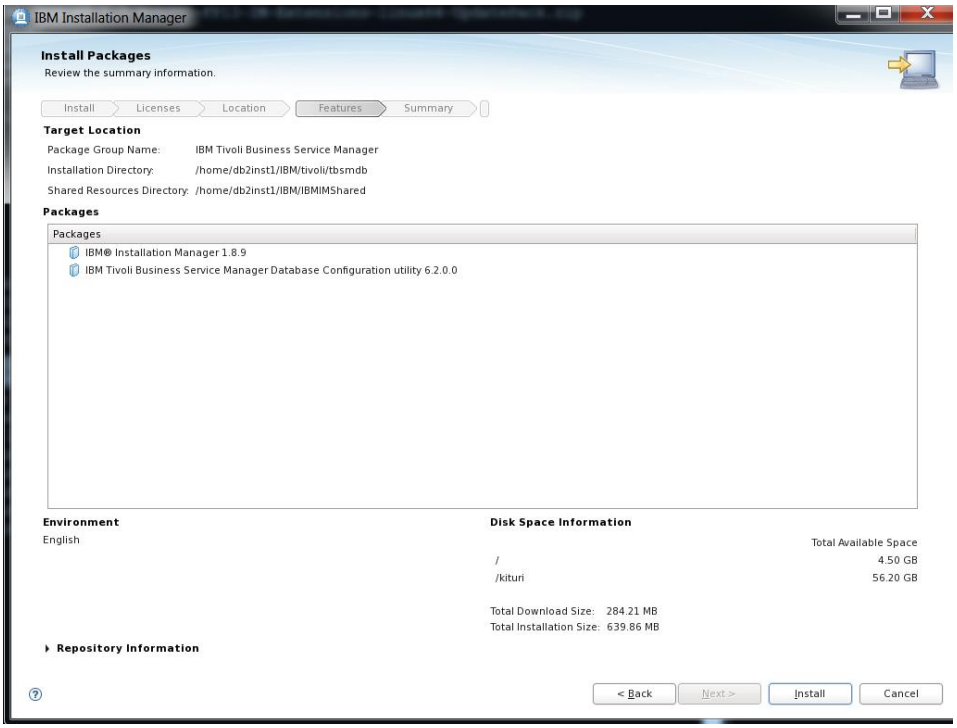
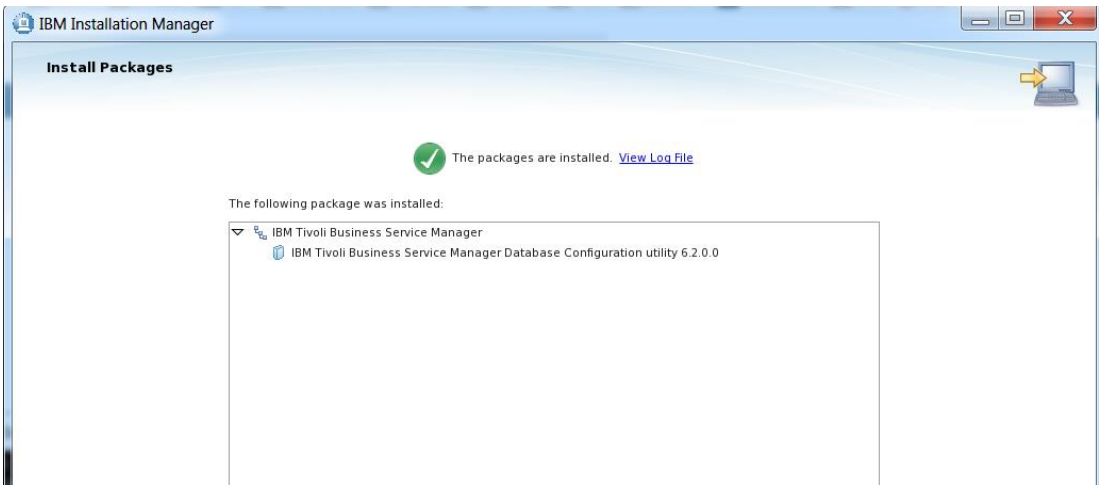
Summary
Common Configurations
TBSM Data Server Database
TBSM TWA Metric Marker DB
TBSM TWA Metric History DB
TBSM Sample Database Cor
Common Configurations
TBSM TWA Metric History DBConfig Panel
This panel will be used to configure the TBSM Time Window Analyzer Metric History database. The information from this page will be stored in the tbsmdb/sql/tbsmhist_db.properties property file. Later changes can be made by editing this property file and then using the tbsm_db script to generate the SQL with the new values.
Database Name (maximum 8 characters):
TBSMHIST
Database Host Name or IP Address:
Dooku
Database Port Number:
50000
Database User ID:
db2inst1
Database Password:
Confirm Password:
Should the installer create the schema for this database (The database userid and password parameters are ignored if 'no' is selected)?
Yes, create the schema including the tables, tablespaces and views.
No, complete the installation. The schema will be created at a later time.
The Database Path on which to create the database. For Windows, this must be a drive letter (for example c:). A null value or '<default>' will indicate that the default database path specified in the database manager configuration will be used.
If multiple Paths are specified, they must be comma separated and the Path containing the database must be the first Path specified.
Database Path:
<default>
To optimize the configuration of the database, please estimate the expected number of service instances that can be managed. The selection determines the default configuration values.
Large (more than 20,000)
Medium (5,000 to 20,000)
< Back
Next >
Install
Cancel


IBM Installation Manager
Install Packages
Fill in the configurations for the packages.
Install
Licenses
Location
Features
Summary
Common Configurations
TBSM Data Server Database
TBSM TWA Metric Marker DB
TBSM TWA Metric History DB
TBSM Sample Database Cor
Common Configurations
TBSM Sample Database Configuration
This panel will be used to configure the TBSM Demo/Sample database. The information from this page will be stored in the tbsmdb/sql/tbsmdemo_db.properties property file. Later changes can be made by editing this property file and then using the tbsm_db script to generate the SQL with the new values.
Database Name (maximum 8 characters):
TBSM
Database Host Name or IP Address:
Dooku
Database Port Number:
50000
Database User ID:
db2inst1
Database Password:
Confirm Password:
Should the installer create the schema for this database (The database userid and password parameters are ignored if 'no' is selected)?
Yes, create the schema including the tables, tablespaces and views.
No, complete the installation. The schema will be created at a later time.
The Database Path on which to create the database. For Windows, this must be a drive letter (for example c:). A null value or '<default>' will indicate that the default database path specified in the database manager configuration will be used.
If multiple Paths are specified, they must be comma separated and the Path containing the database must be the first Path specified.
Database Path:
<default>
To optimize the configuration of the database, please estimate the expected number of service instances that can be managed. The selection determines the default configuration values.
Large (more than 20,000)
Medium (5,000 to 20,000)
Small (up to 5,000)
< Back
Next >
Install
Cancel

- continue with the installation:





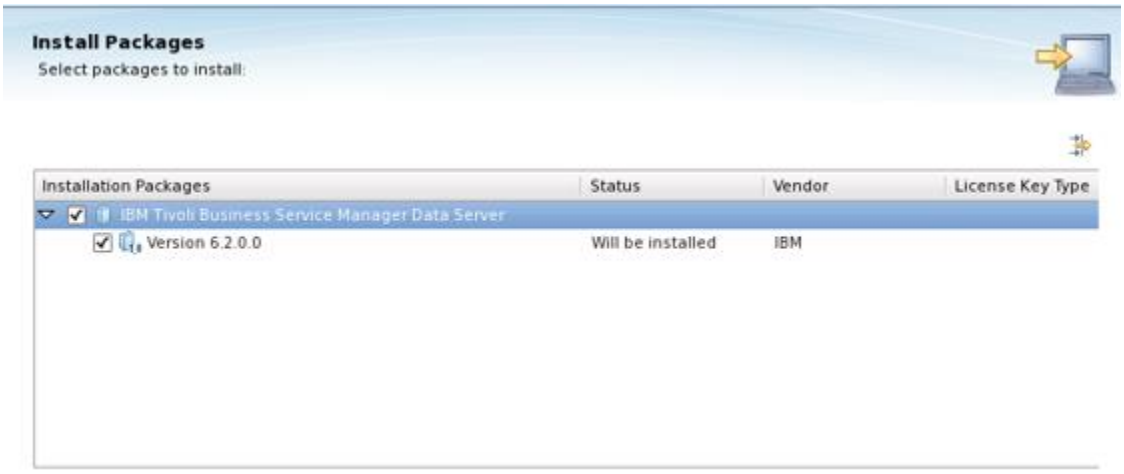
Install TBSM Data Server

- go to the directory where TBSM was extracted and from here to data_linux directory:

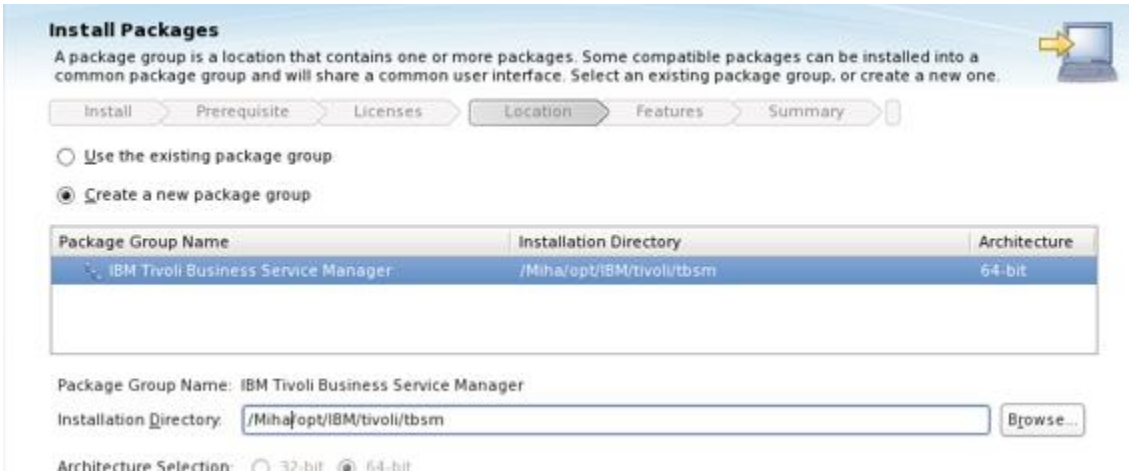
  cd /kituri/Miha/TBSM/data_linux

- run ./install_gui_data.sh script:

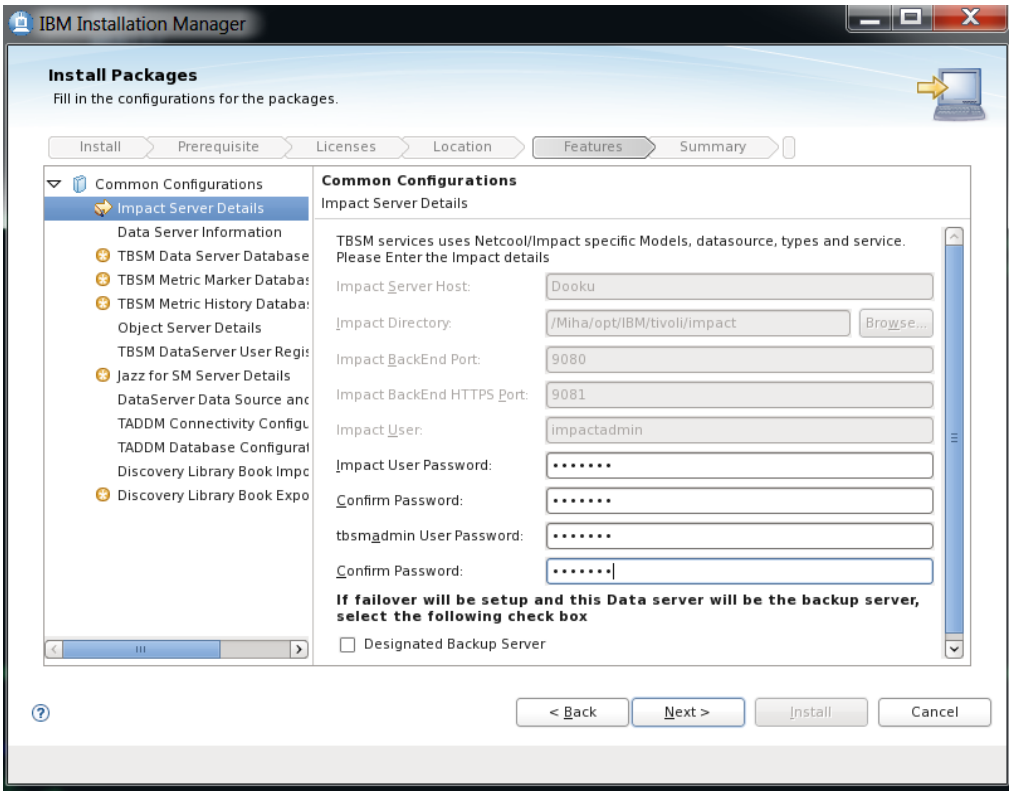
```
[root@Dooku data_linux]# ./install_gui_data.sh
```



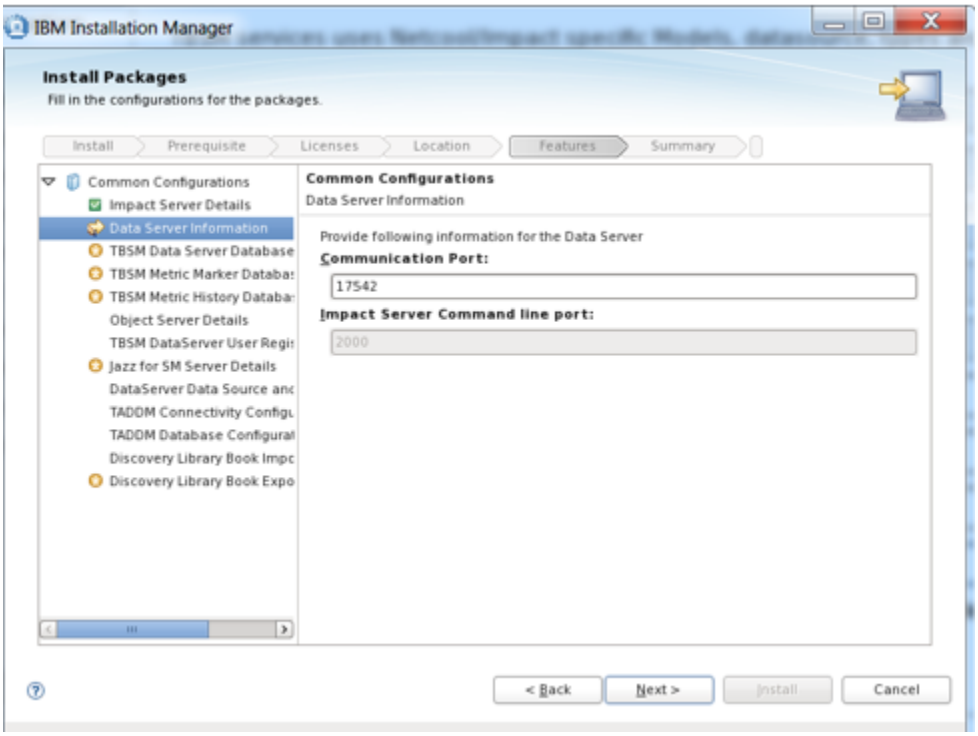
- enter installation directory for TBSM Data Server component



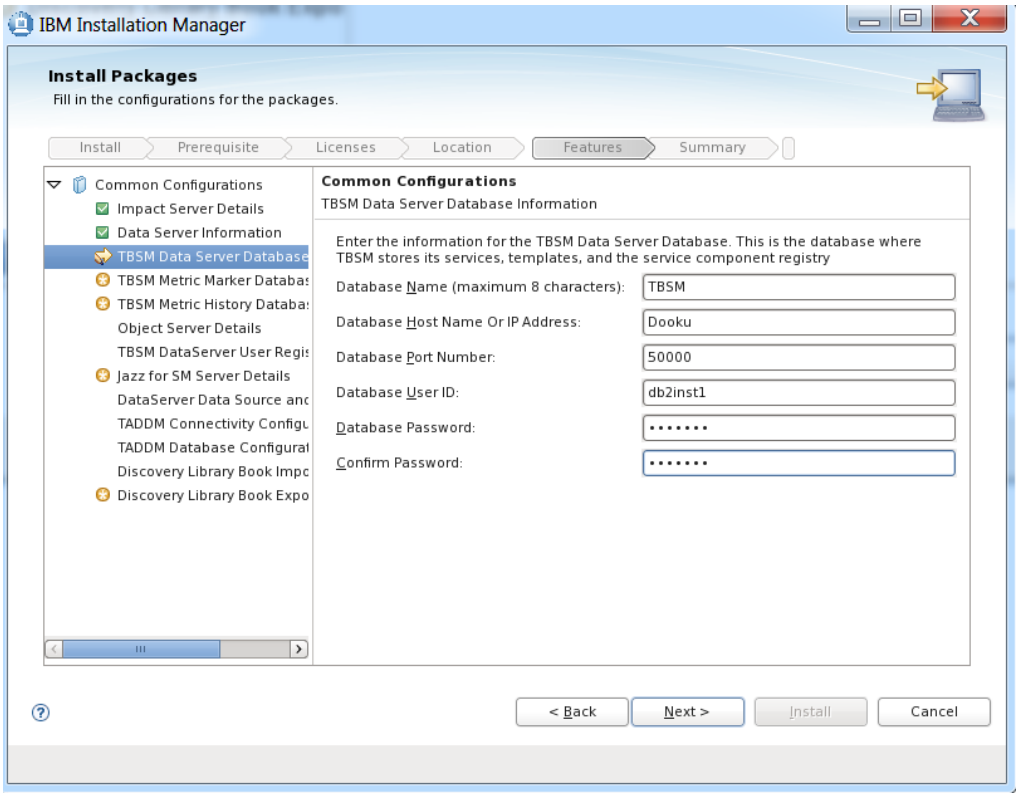
- enter Impact server details (for host details FQDN is required, make sure /etc/hosts is properly configured)

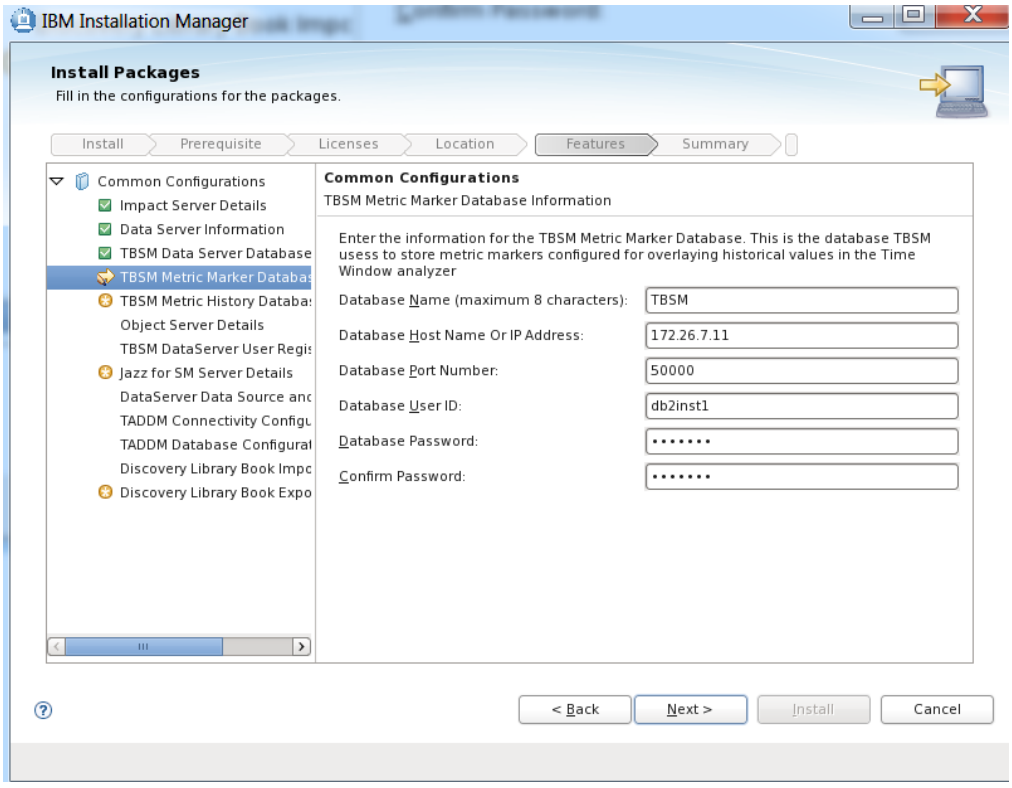


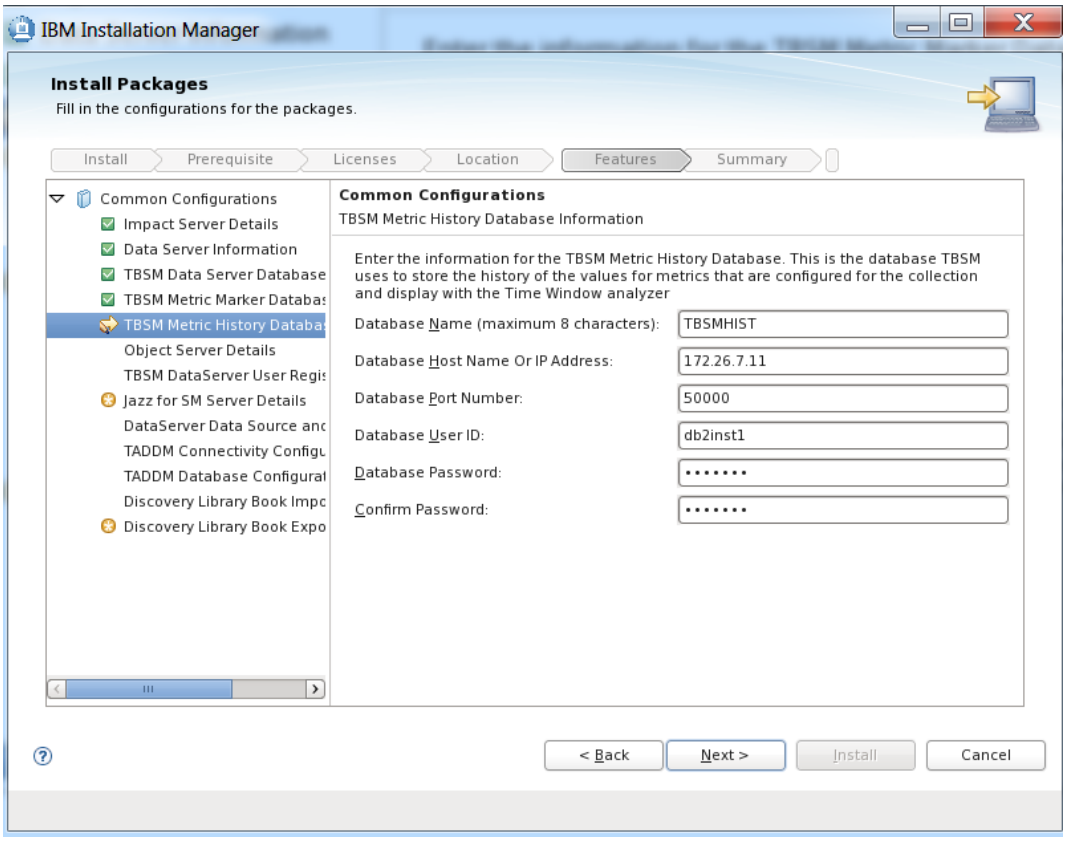
- enter data server communication port, by default this is 17542:



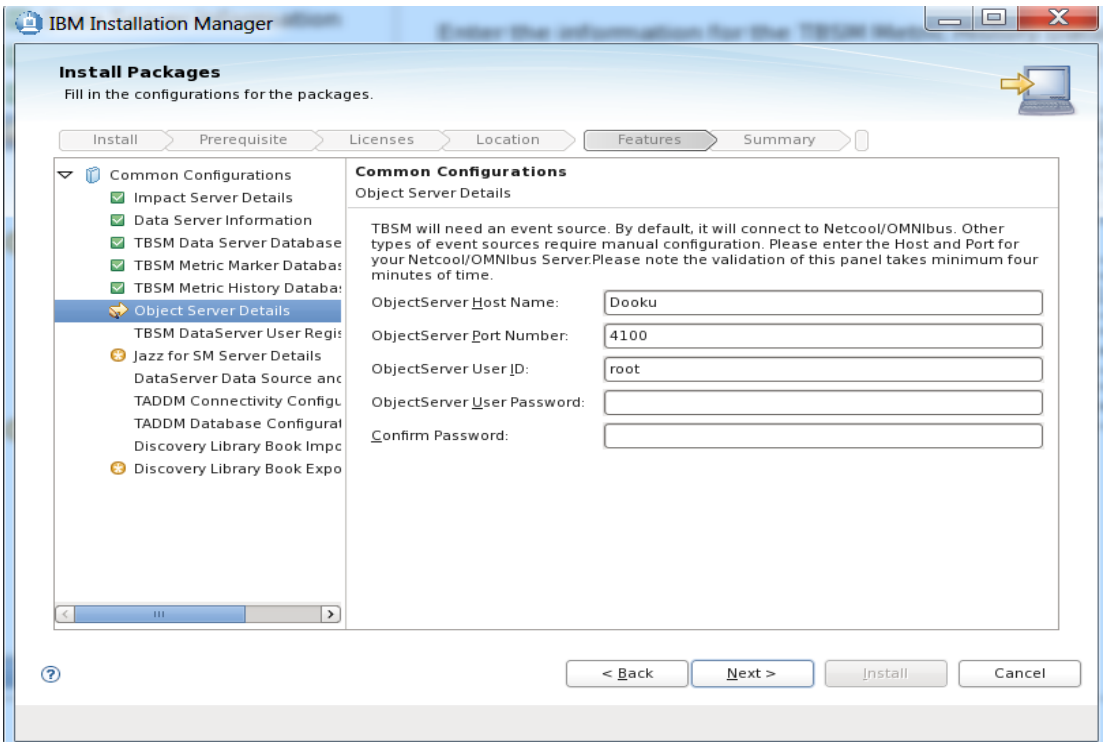
- enter TBSM Data Server Database information as configured previously:

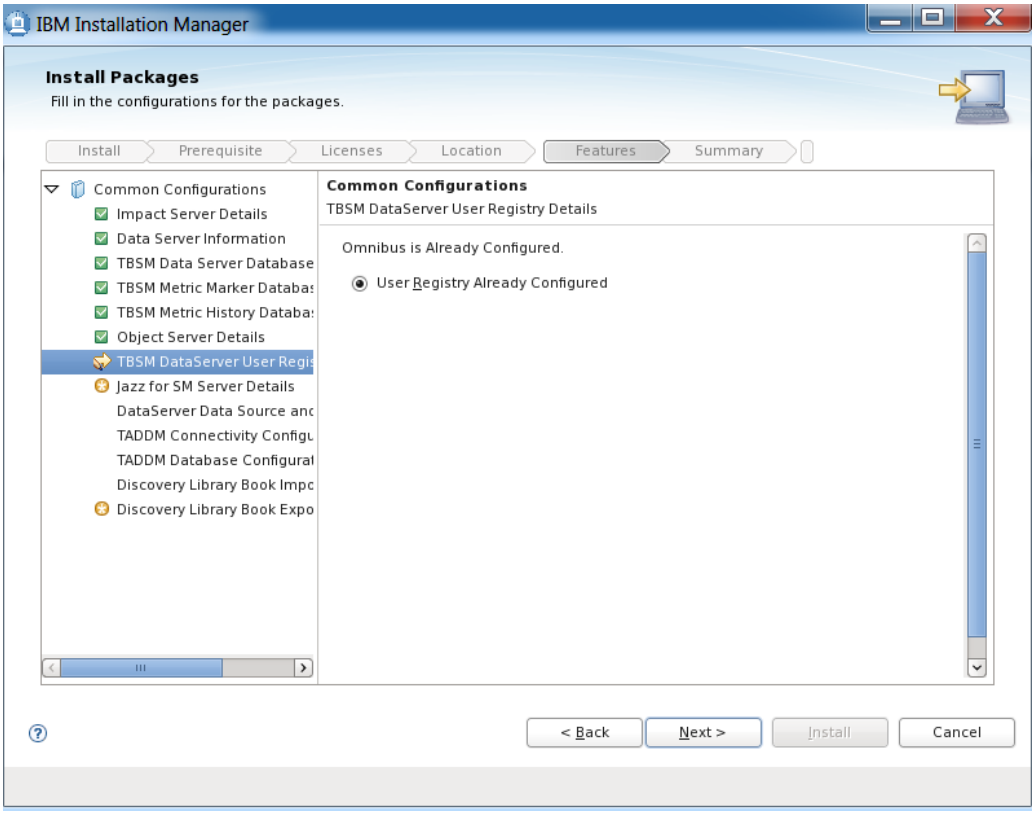




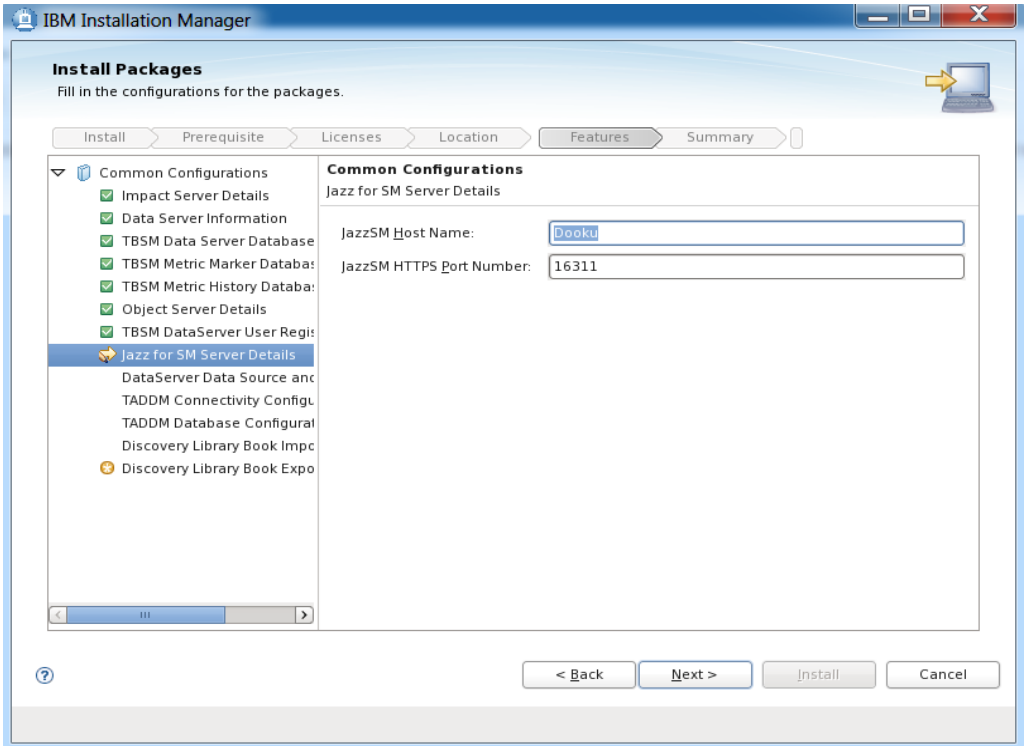


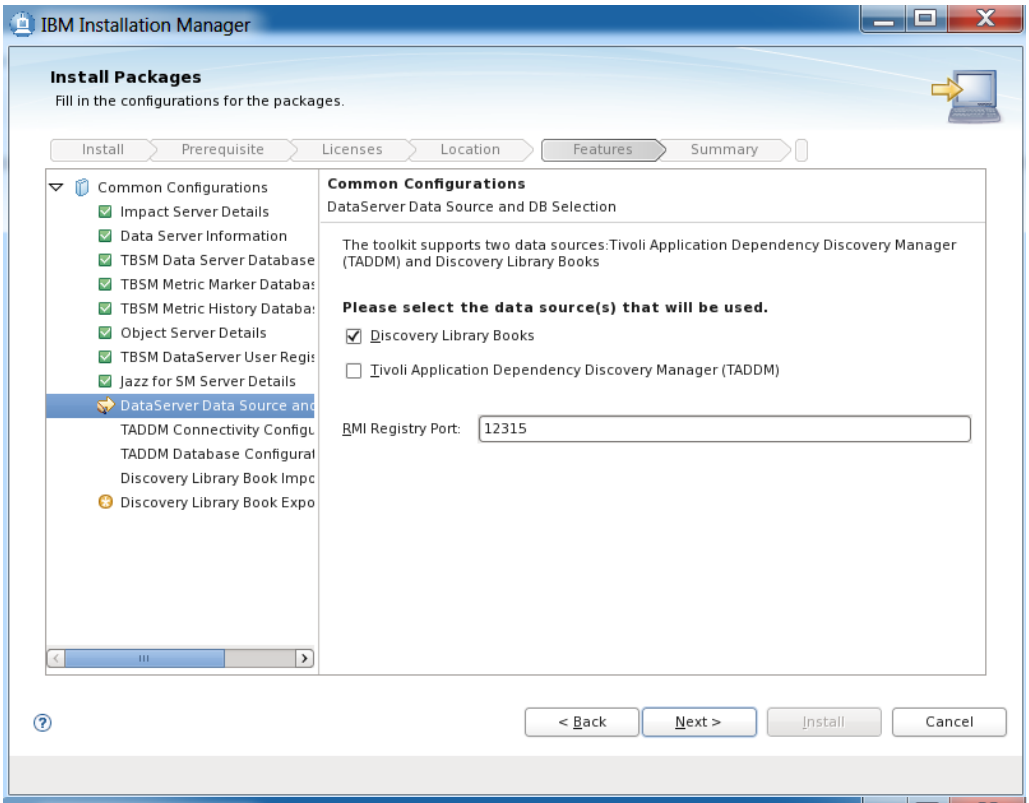
- enter object server details:

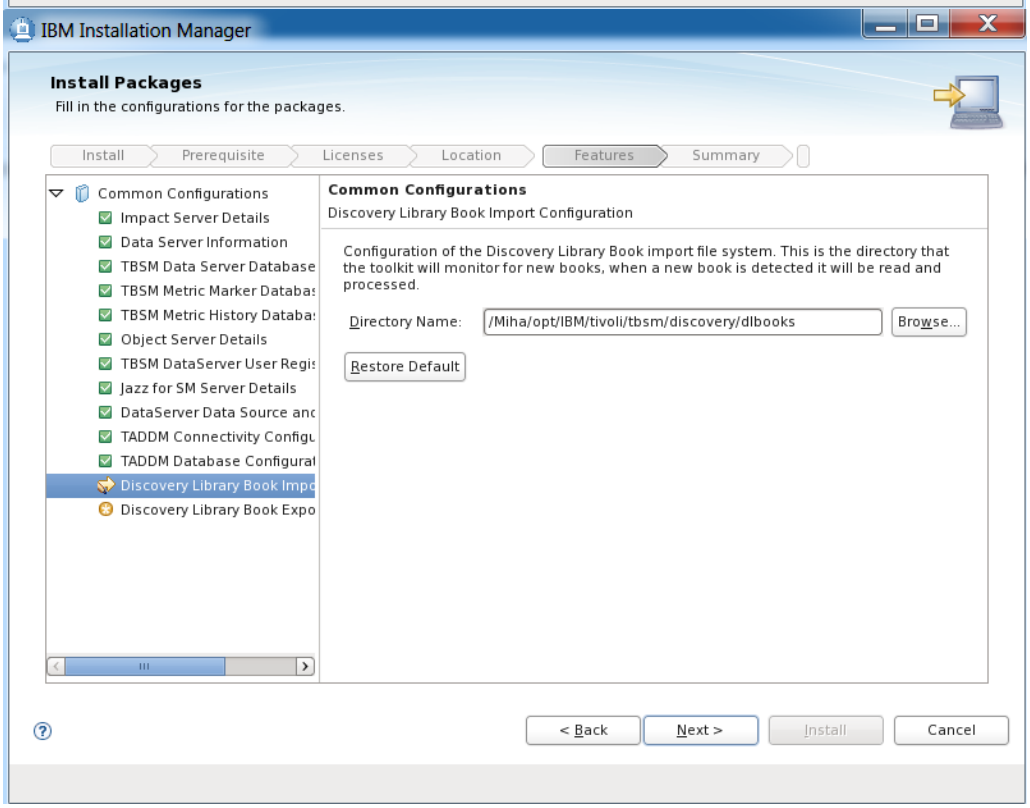


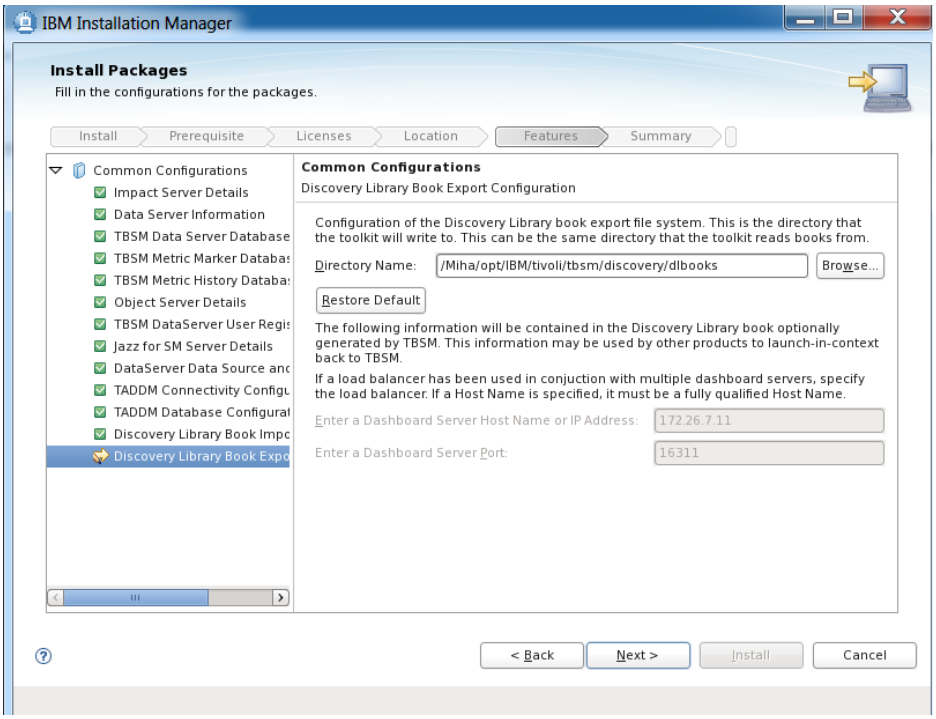


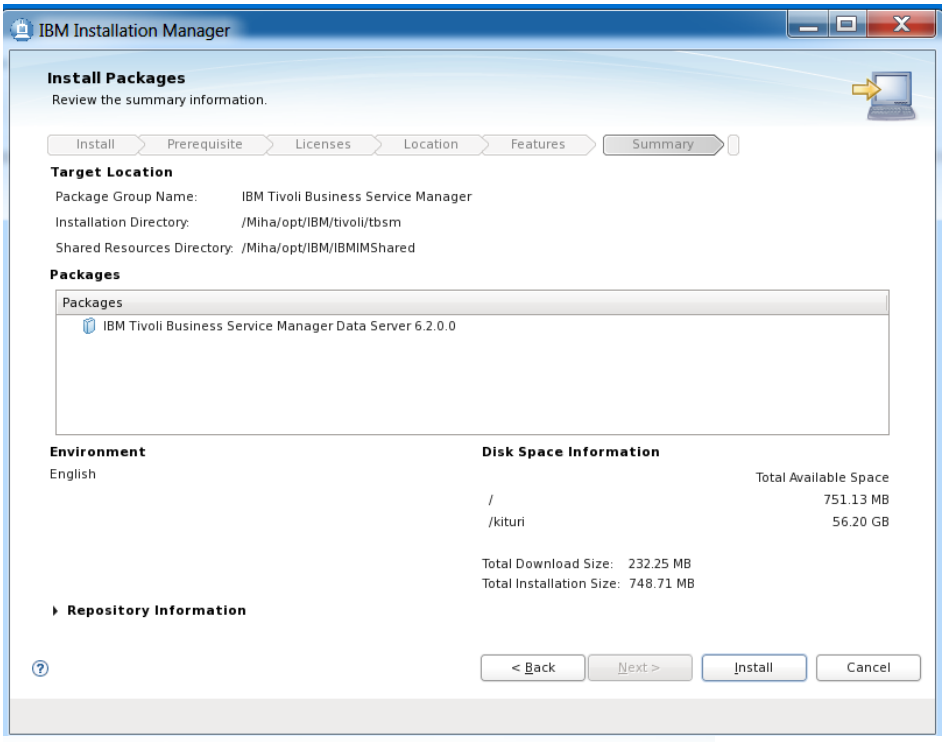
- enter Jazz SM details:

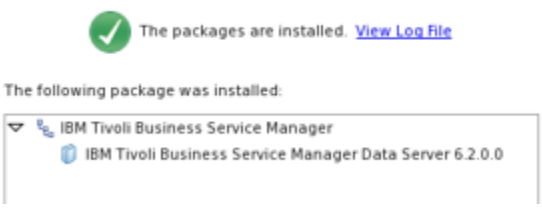



IBM Installation Manager
Install Packages
Fill in the configurations for the packages.
Install
Prerequisite
Licenses
Location
Features
Summary
Common Configurations
Impact Server Details
Data Server Information
TBSM Data Server Database
TBSM Metric Marker Databas
TBSM Metric History Databa:
Object Server Details
TBSM DataServer User Regis
Jazz for SM Server Details
DataServer Data Source and
TADDM Connectivity Configu
TADDM Database Configurat
Discovery Library Book Impc
Discovery Library Book Expo
Common Configurations
DataServer Data Source and DB Selection
The toolkit supports two data sources:Tivoli Application Dependency Discovery Manager (TADDM) and Discovery Library Books
Please select the data source(s) that will be used.
Discovery Library Books
Tivoli Application Dependency Discovery Manager (TADDM)
RMI Registry Port:
12315
< Back
Next >
Install
Cancel


IBM Installation Manager
Install Packages
Fill in the configurations for the packages.
Install
Prerequisite
Licenses
Location
Features
Summary
Common Configurations
Impact Server Details
Data Server Information
TBSM Data Server Database
TBSM Metric Marker Databas
TBSM Metric History Databa:
Object Server Details
TBSM DataServer User Regis
Jazz for SM Server Details
DataServer Data Source and
TADDM Connectivity Configu
TADDM Database Configurat
Discovery Library Book Impc
Discovery Library Book Expo
Common Configurations
Discovery Library Book Import Configuration
Configuration of the Discovery Library Book import file system. This is the directory that the toolkit will monitor for new books, when a new book is detected it will be read and processed.
Directory Name:
/Miha/opt/IBM/tivoli/tbsm/discovery/dlbooks
Browse...
Restore Default
< Back
Next >
Install
Cancel


IBM Installation Manager
Install Packages
Fill in the configurations for the packages.
Install
Prerequisite
Licenses
Location
Features
Summary
Common Configurations
Impact Server Details
Data Server Information
TBSM Data Server Database
TBSM Metric Marker Databas
TBSM Metric History Databas
Object Server Details
TBSM DataServer User Regis
Jazz for SM Server Details
DataServer Data Source anc
TADDM Connectivity Configu
TADDM Database Configurat
Discovery Library Book Impc
Discovery Library Book Expo
Common Configurations
Discovery Library Book Export Configuration
Configuration of the Discovery Library book export file system. This is the directory that the toolkit will write to. This can be the same directory that the toolkit reads books from.
Directory Name:
/Miha/opt/IBM/tivoli/tbsm/discovery/dlbooks
Browse...
Restore Default
The following information will be contained in the Discovery Library book optionally generated by TBSM. This information may be used by other products to launch-in-context back to TBSM.
If a load balancer has been used in conjuction with multiple dashboard servers, specify the load balancer. If a Host Name is specified, it must be a fully qualified Host Name.
Enter a Dashboard Server Host Name or IP Address:
172.26.7.11
Enter a Dashboard Server Port:
16311
< Back
Next >
Install
Cancel


IBM Installation Manager
Install Packages
Review the summary information.
Install
Prerequisite
Licenses
Location
Features
Summary
Target Location
Package Group Name: IBM Tivoli Business Service Manager
Installation Directory: /Miha/opt/IBM/tivoli/tbsm
Shared Resources Directory: /Miha/opt/IBM/IBMIMShared
Packages
Packages
IBM Tivoli Business Service Manager Data Server 6.2.0.0
Environment
English
Disk Space Information
Total Available Space
/ 751.13 MB
/kituri 56.20 GB
Total Download Size: 232.25 MB
Total Installation Size: 748.71 MB
Repository Information
< Back
Next >
Install
Cancel


The packages are installed. View Log File
The following package was installed:
IBM Tivoli Business Service Manager
IBM Tivoli Business Service Manager Data Server 6.2.0.0

Install TBSM Dashboard Server

- Impact,WebGUI and Omnibus should be running
- make sure waapi.init is properly configured and runwaapi can run without problems, test example below:

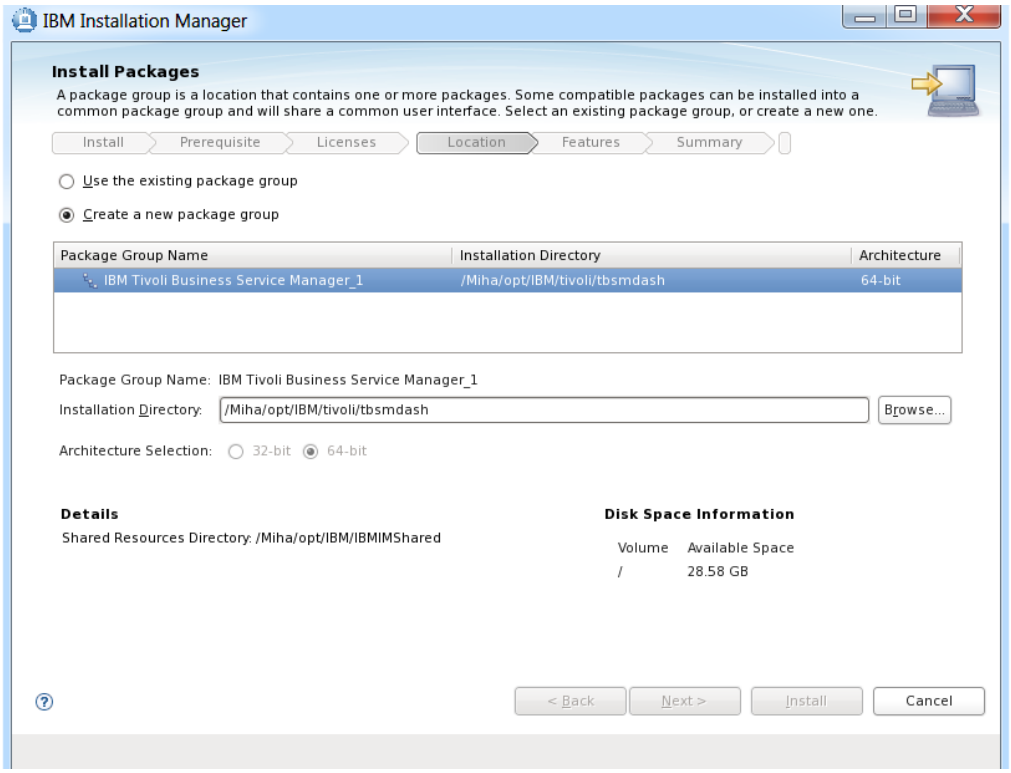
```
#################################################################

waapi.host:172.26.7.11
waapi.port:16310
waapi.secureport:16311
waapi.contextpath:/ibm/console/webtop
waapi.user:smadmin
waapi.password:netcool
waapi.password.encryption:none
waapi.file:
waapi.timeoutsecs: 600

#################################################################
#
```

```
[root@Dooku bin]# ./runwaapi -file ../etc/samples/list_map.xml

********************************************************************
WAAPIClient: Request sent to server on http://172.26.7.11:16310/ibm/console/webtop/...
Mon Sep 17 12:57:11 EEST 2018

Maps hosted on the server
********************************************************************
Example_E-Commerce
Example_Europe
Example_Geographic
********************************************************************
WAAPIClient: 1 method was fully executed.
```

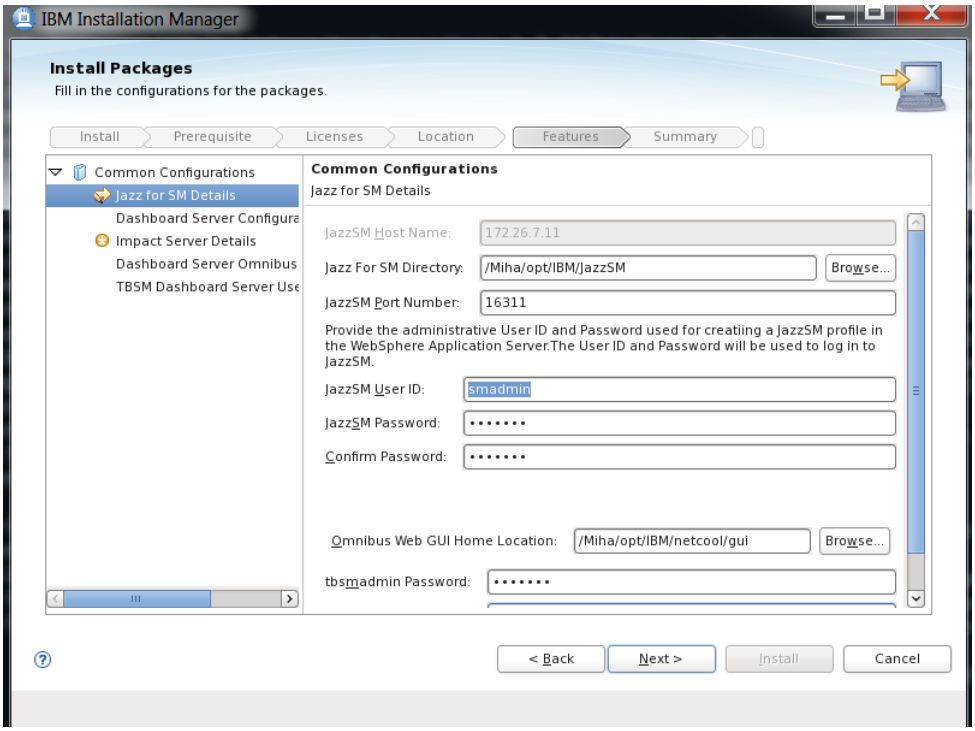
- go to the directory where TBSM was extracted and from here to dash_linux directory
- run ./install_gui_dash.sh script:

```
[root@Dooku dash_linux]# pwd
/kituri/Miha/TBSM/dash_linux
[root@Dooku dash_linux]#
[root@Dooku dash_linux]# ./install_gui_dash.sh
```

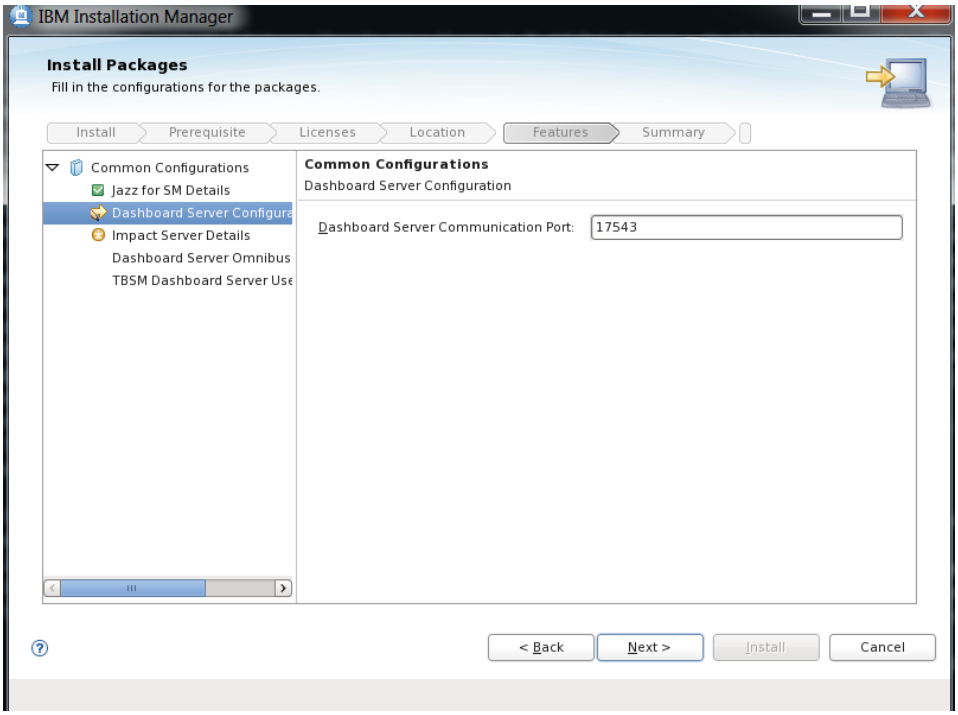
- enter installation directory for TBSM Dashboard server:



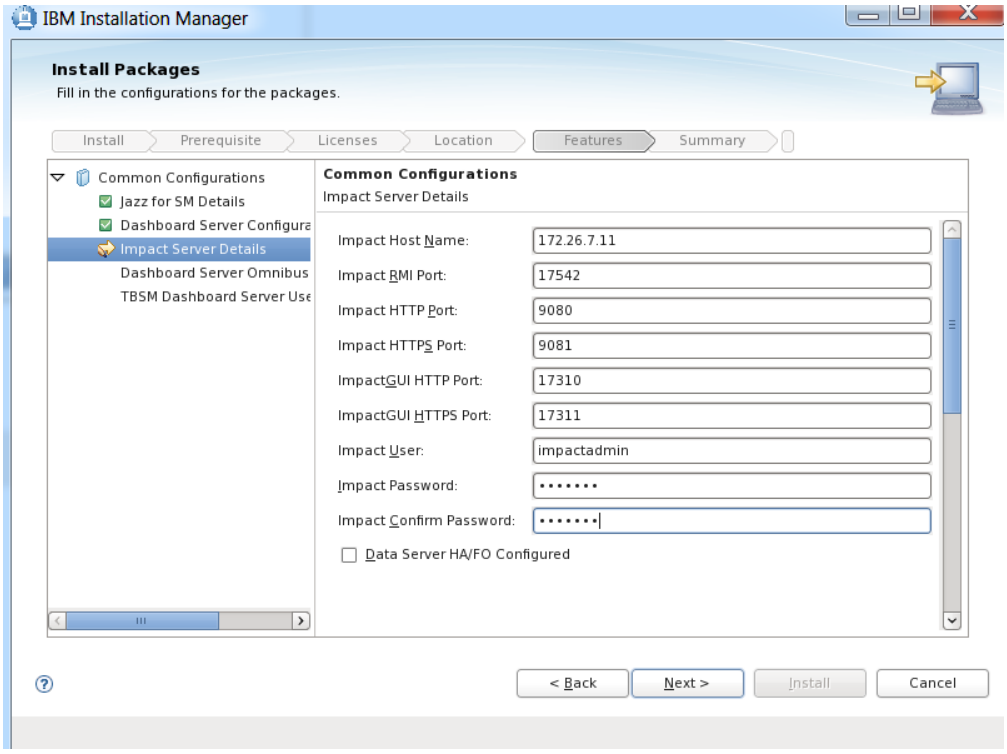
- enter Jazz SM and WebGUI details:



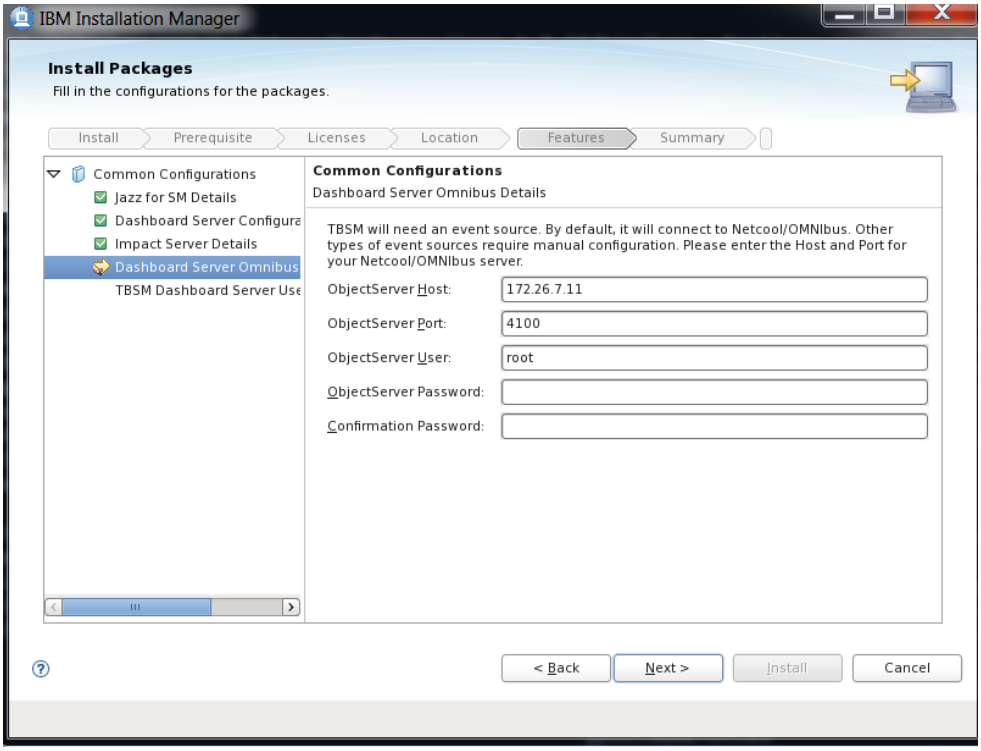
- enter dashboard communication port, by default this is 17543:



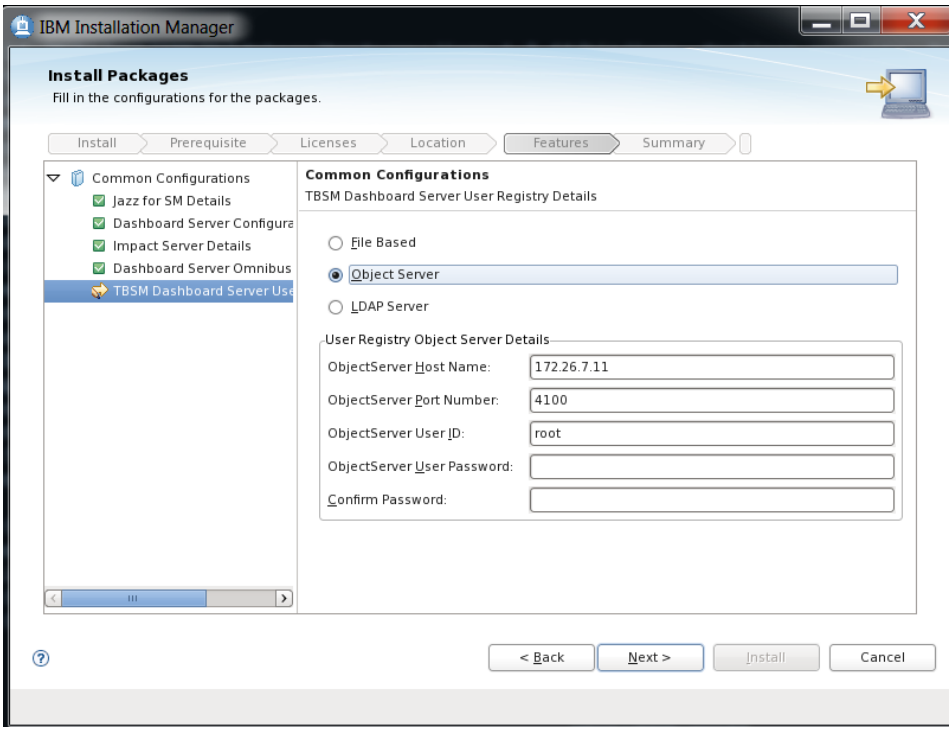
- enter impact server details:



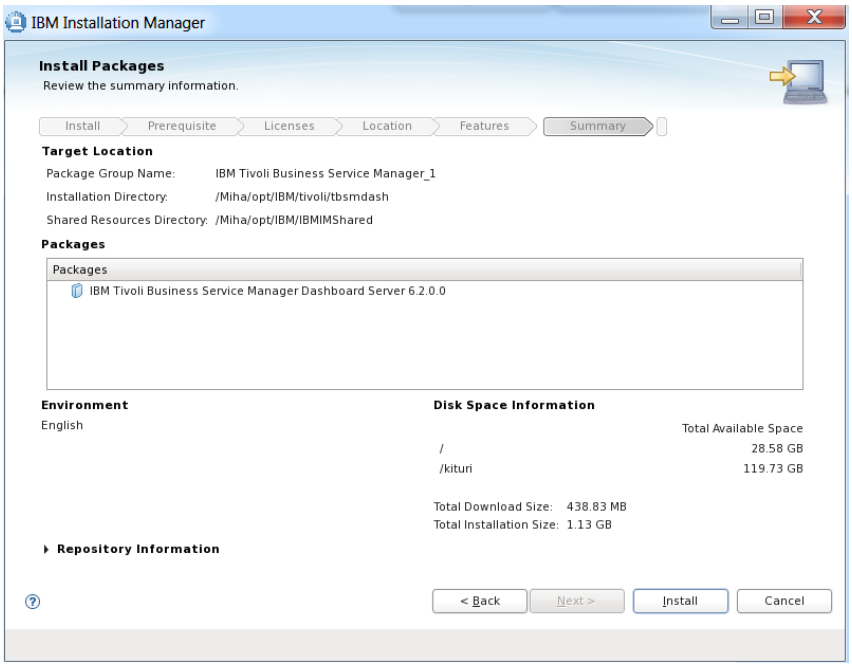
- enter object server details – these should be the same as the ones configured for impact and webgui:

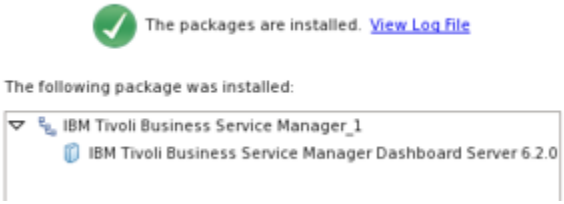


- enter user registry details – these should be the same as the ones configured for impact and webgui, in this example omnibus was user as user repository:



- continue with the installation:





- screenshot example from gui console: