

TBSM 6.2 Installation Guide

**A step by step
example**

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Software prerequisite list

1. Installation Manager 1.8.6
2. IBM DB2 Workgroup Server Edition 11.1.2.2
3. IBM Tivoli Netcool/OMNIBus v8.1.0.5
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
7. IBM Tivoli Netcool/OMNIBus 8.1.0.4-webgui Fix Pack 12
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>

| | | | |
|-------------------------------------|---|---|------------|
| <input checked="" type="checkbox"/> | 1 | refresh pack: → 1.8.6.0-IBMIM-LINUX-X86_64-20161118_1611 IBM Installation Manager Install Kit for all x86_64 Linux versions supported by version 1.8.6.0 | 2016/12/09 |
|-------------------------------------|---|---|------------|

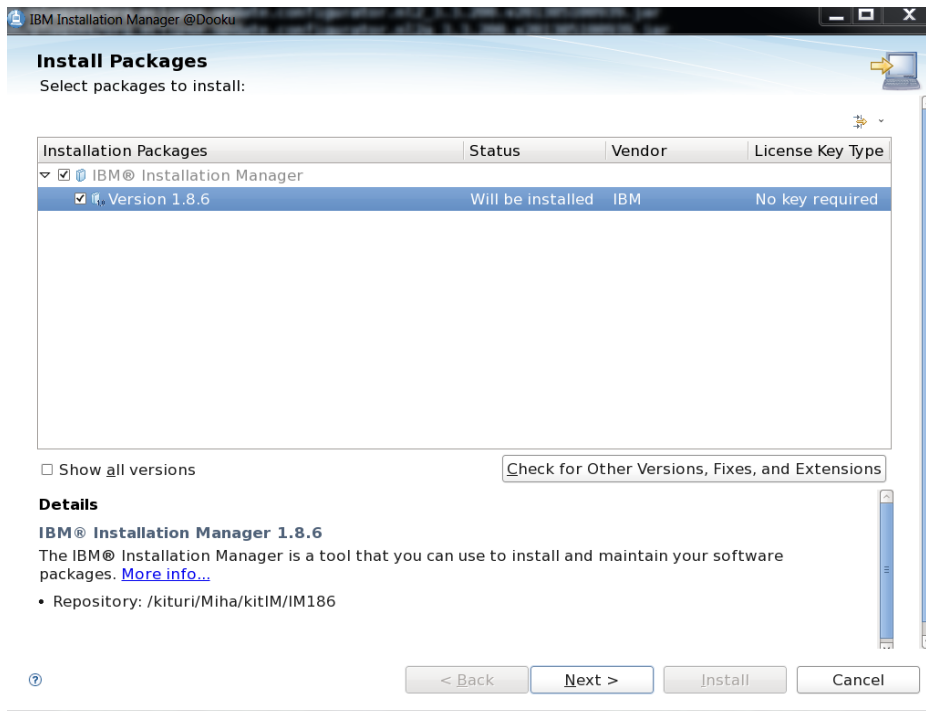
- download and unzip:

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

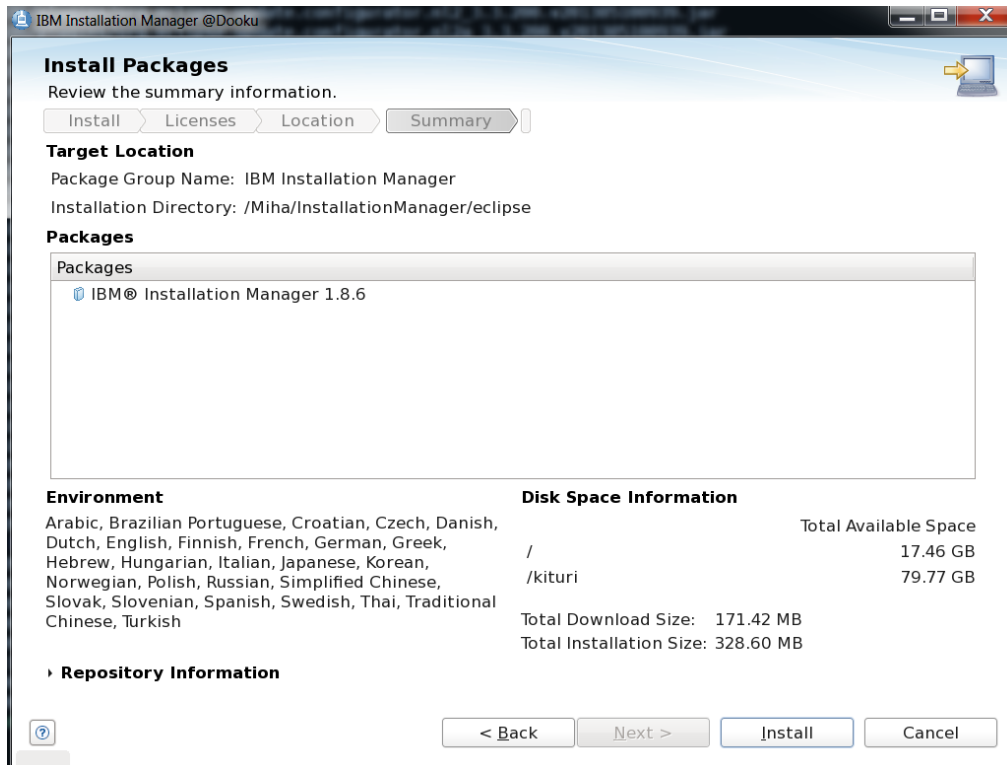
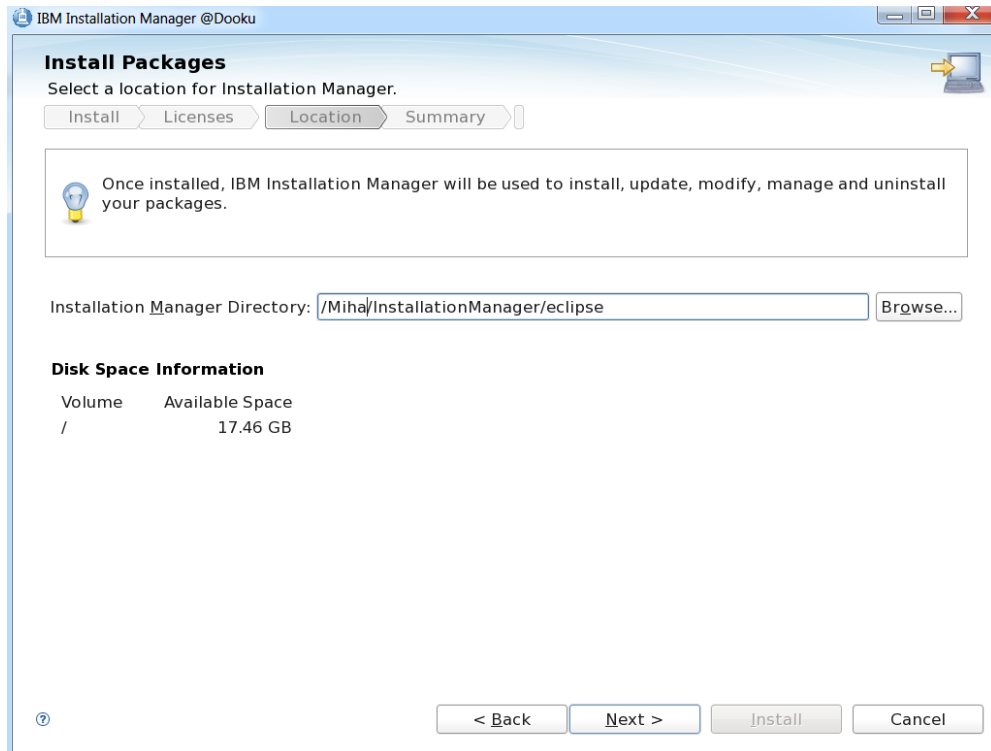
- launch install script:

```
[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

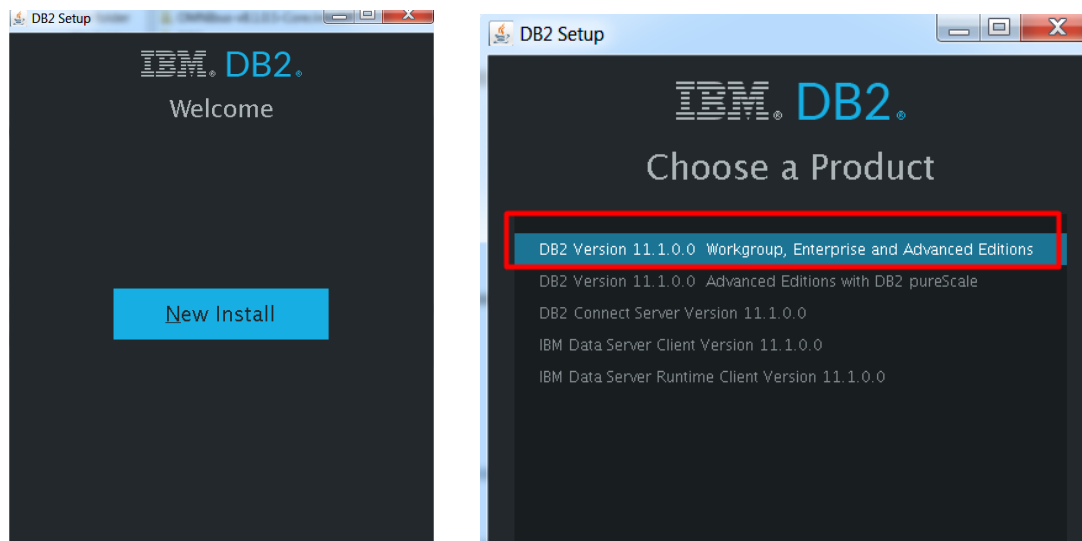
- unzip DB2 package:

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

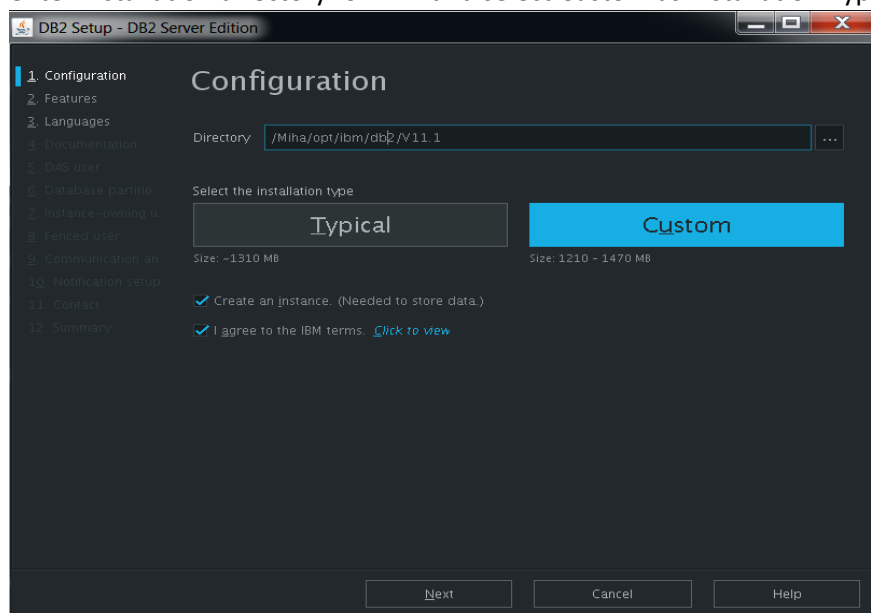
- go to server_awsse_o directory and run ./db2setup script:

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



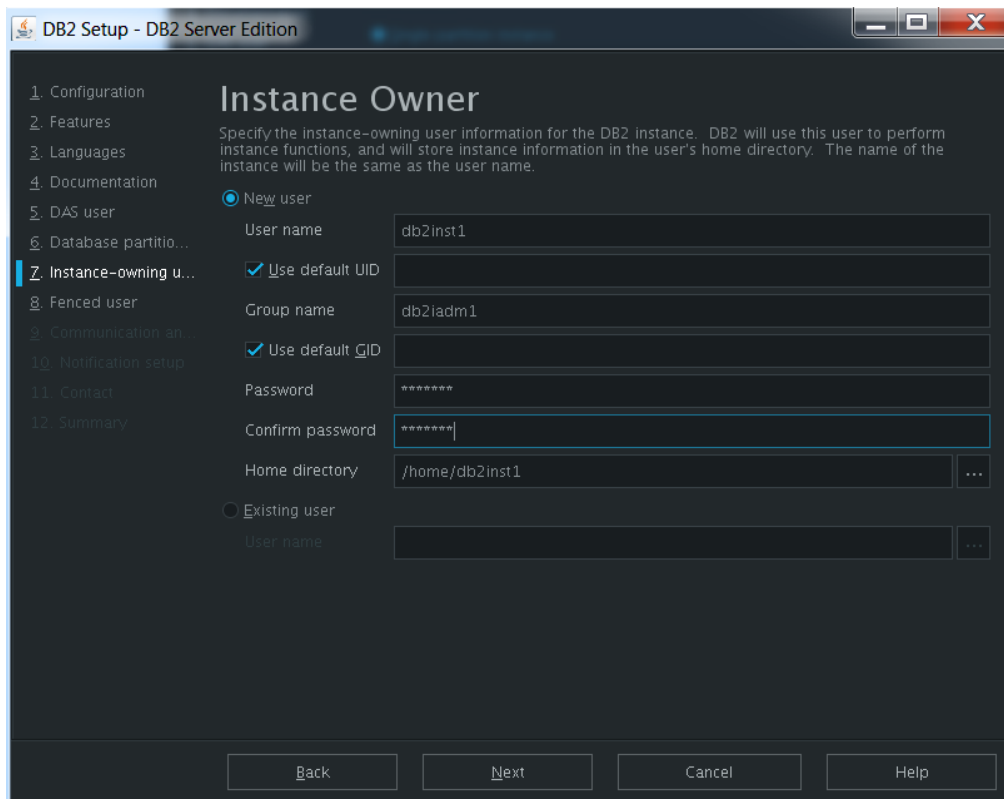
- Configure DAS User (in this example – password user: netcool) and default username dasusr1

The screenshot shows the 'DB2 Setup - DB2 Server Edition' window. On the left is a navigation pane with 12 steps: 1. Configuration, 2. Features, 3. Languages, 4. Documentation, 5. DAS user (highlighted), 6. Database partitioning, 7. Instance-owning user, 8. Fenced user, 9. Communication adapter, 10. Notification setup, 11. Contact, 12. Summary. The main area is titled 'DAS User'. It contains a paragraph: '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.' Below this are two radio buttons: 'New user' (selected) and 'Existing user'. Under 'New user' are fields for 'User name' (dasusr1), 'Group name' (dasadm1), 'Password' (masked with asterisks), 'Confirm password' (masked with asterisks), and 'Home directory' (/home/dasusr1). There are checkboxes for 'Use default UID' and 'Use default GID', both of which are checked. At the bottom of the 'New user' section is a checkbox for 'Create DAS user later', which is unchecked. At the bottom of the window are four buttons: 'Back', 'Next', 'Cancel', and 'Help'.

- Select Single Partition Instance and Next

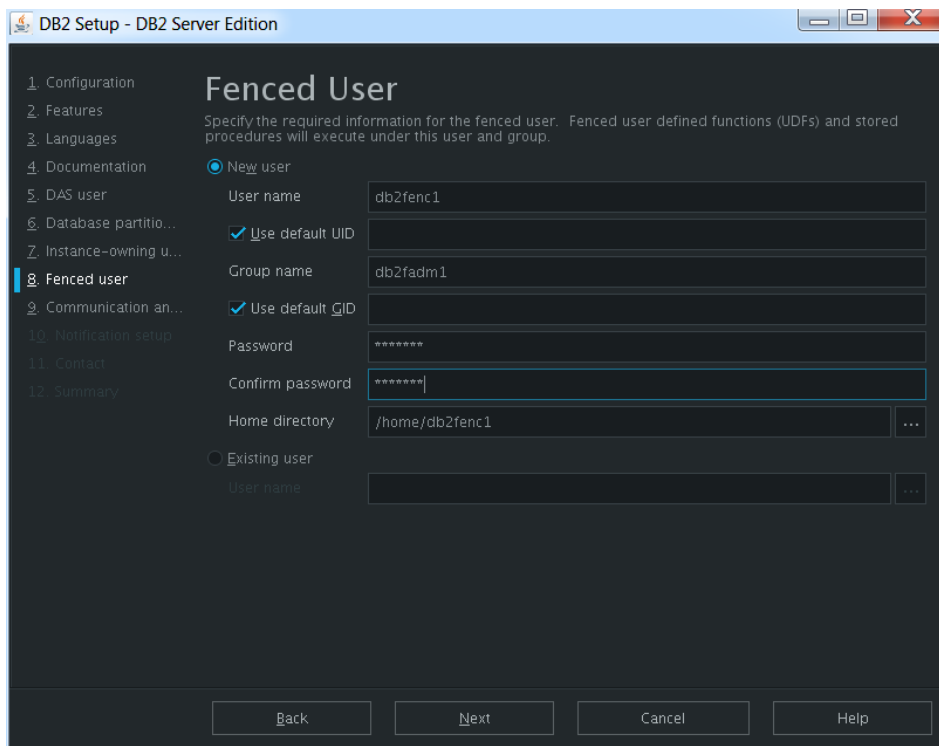
The screenshot shows the 'DB2 Setup - DB2 Server Edition' window. The navigation pane on the left is the same as in the previous screenshot, but step 6, 'Database partitioning', is now highlighted. The main area is titled 'Database Partitioning'. It contains a paragraph: 'A DB2 instance can have one or more database partitions, which exist on one or more computers. Select the partitioning options for this instance. The number of partitions specified will be reserved in the services file.' Below this are two radio buttons: 'Single partition instance' (selected) and 'Multiple partition instance'. Under 'Single partition instance' is a text box: 'The instance will reside only on this computer. Select this option if the instance will not be used in a partitioned database environment.' Under 'Multiple partition instance' is a text box: 'Selecting this option will create two response files. Refer to the DB2 Information Center to read about the additional steps needed to prepare your DPF environment. To use this functionality, you must have a Database Partitioning Feature license.' At the bottom of the window are four buttons: 'Back', 'Next', 'Cancel', and 'Help'.

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



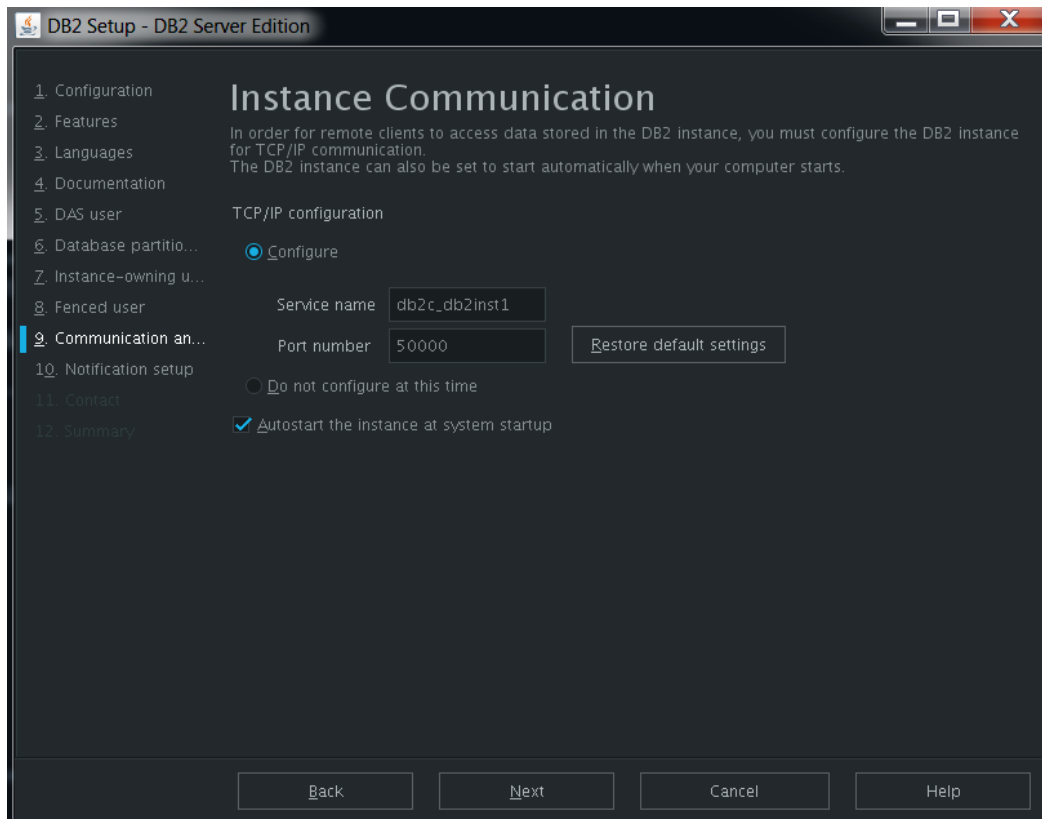
The screenshot shows the 'Instance Owner' configuration window in the DB2 Setup - DB2 Server Edition application. The window has a sidebar on the left with a list of steps: 1. Configuration, 2. Features, 3. Languages, 4. Documentation, 5. DAS user, 6. Database partitioning, 7. Instance-owning user (highlighted), 8. Fenced user, 9. Communication adapter, 10. Notification setup, 11. Contact, and 12. Summary. The main area is titled 'Instance Owner' and contains a description: '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.' Below the description, there are two radio buttons: 'New user' (selected) and 'Existing user'. The 'New user' section includes fields for 'User name' (db2inst1), 'Group name' (db2iadm1), 'Password' (masked with asterisks), 'Confirm password' (masked with asterisks), and 'Home directory' (/home/db2inst1). There are also checkboxes for 'Use default UID' and 'Use default GID', both of which are checked. At the bottom of the window, there are four buttons: 'Back', 'Next', 'Cancel', and 'Help'.

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



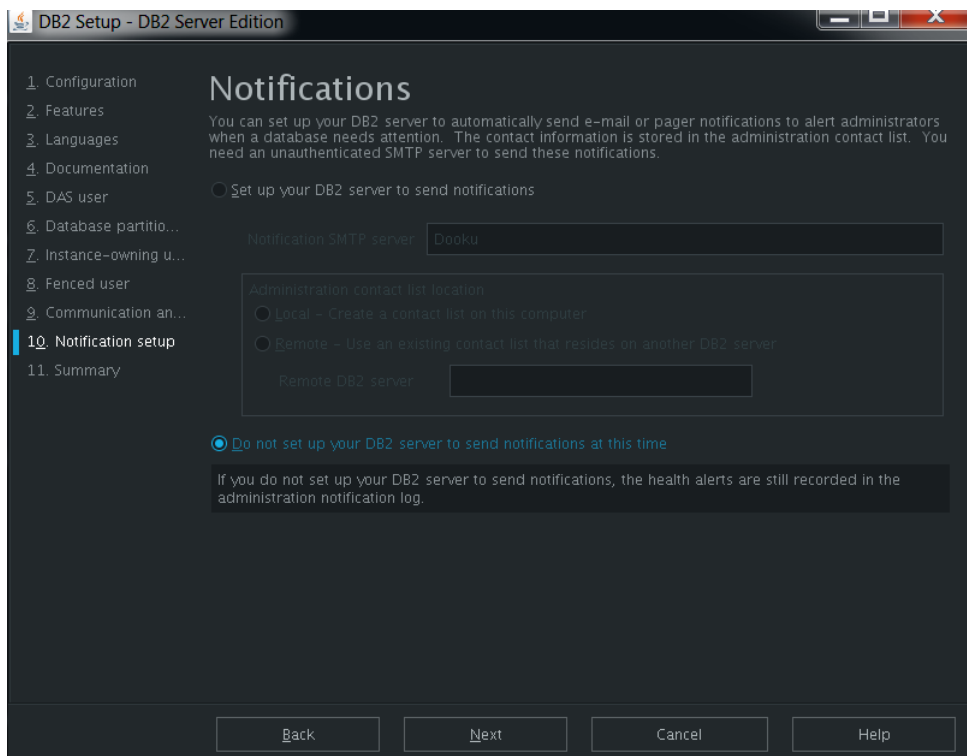
The screenshot shows the 'Fenced User' configuration window in the DB2 Setup - DB2 Server Edition application. The window has a sidebar on the left with a list of steps: 1. Configuration, 2. Features, 3. Languages, 4. Documentation, 5. DAS user, 6. Database partitioning, 7. Instance-owning user, 8. Fenced user (highlighted), 9. Communication adapter, 10. Notification setup, 11. Contact, and 12. Summary. The main area is titled 'Fenced User' and contains a description: 'Specify the required information for the fenced user. Fenced user defined functions (UDFs) and stored procedures will execute under this user and group.' Below the description, there are two radio buttons: 'New user' (selected) and 'Existing user'. The 'New user' section includes fields for 'User name' (db2fenc1), 'Group name' (db2fadm1), 'Password' (masked with asterisks), 'Confirm password' (masked with asterisks), and 'Home directory' (/home/db2fenc1). There are also checkboxes for 'Use default UID' and 'Use default GID', both of which are checked. At the bottom of the window, there are four buttons: 'Back', 'Next', 'Cancel', and 'Help'.

- configure service name and port number



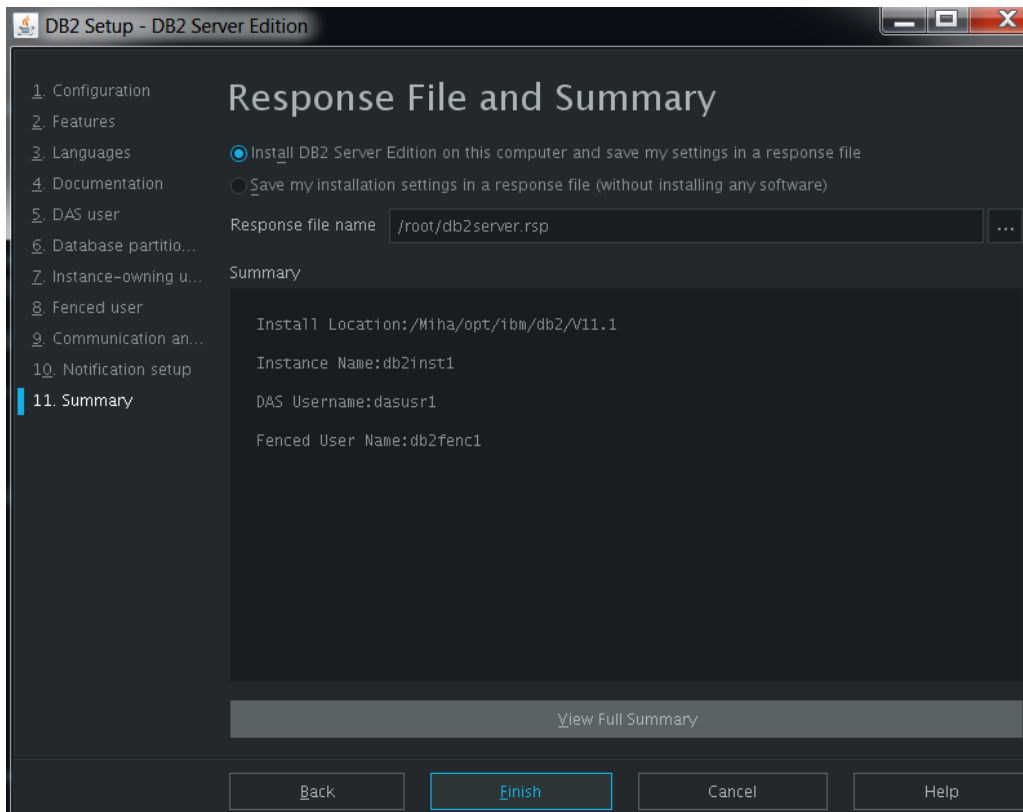
The screenshot shows the 'Instance Communication' window in the DB2 Setup - DB2 Server Edition. The left sidebar lists steps 1 through 12, with step 9, 'Communication and network configuration', highlighted. The main area has a title 'Instance Communication' and a description: 'In order for remote clients to access data stored in the DB2 instance, you must configure the DB2 instance for TCP/IP communication. The DB2 instance can also be set to start automatically when your computer starts.' Below this, under 'TCP/IP configuration', there are two radio buttons: 'Configure' (selected) and 'Do not configure at this time'. The 'Configure' option has two text input fields: 'Service name' with the value 'db2c_db2inst1' and 'Port number' with the value '50000'. A 'Restore default settings' button is next to the port number field. At the bottom, there is a checked checkbox for 'Autostart the instance at system startup'. At the very bottom of the window are four buttons: 'Back', 'Next', 'Cancel', and 'Help'.

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



The screenshot shows the 'Notifications' window in the DB2 Setup - DB2 Server Edition. The left sidebar lists steps 1 through 11, with step 10, 'Notification setup', highlighted. The main area has a title 'Notifications' and a description: 'You can set up your DB2 server to automatically send e-mail or pager notifications to alert administrators when a database needs attention. The contact information is stored in the administration contact list. You need an unauthenticated SMTP server to send these notifications.' Below this, there are two radio buttons: 'Set up your DB2 server to send notifications' and 'Do not set up your DB2 server to send notifications at this time' (selected). The 'Set up...' option has a 'Notification SMTP server' text input field with the value 'Dooku'. Below that is a section for 'Administration contact list location' with two radio buttons: 'Local - Create a contact list on this computer' and 'Remote - Use an existing contact list that resides on another DB2 server'. The 'Remote' option has a 'Remote DB2 server' text input field. At the bottom, there is a text box stating: 'If you do not set up your DB2 server to send notifications, the health alerts are still recorded in the administration notification log.' At the very bottom of the window are four buttons: 'Back', 'Next', 'Cancel', and 'Help'.

- 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 THE
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 xvfz 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 the full path of the base installation directory:
```

- 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

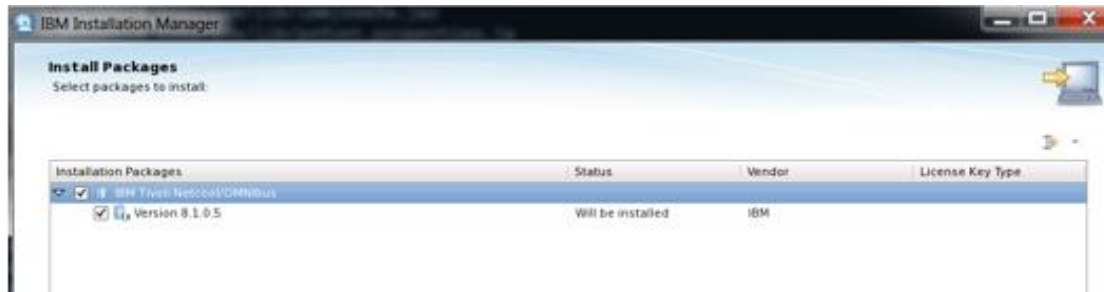
DBI1017I  installFixPack is updating the database products installed in
location /Miha/opt/ibm/db2/V11.1/.

The execution completed successfully.

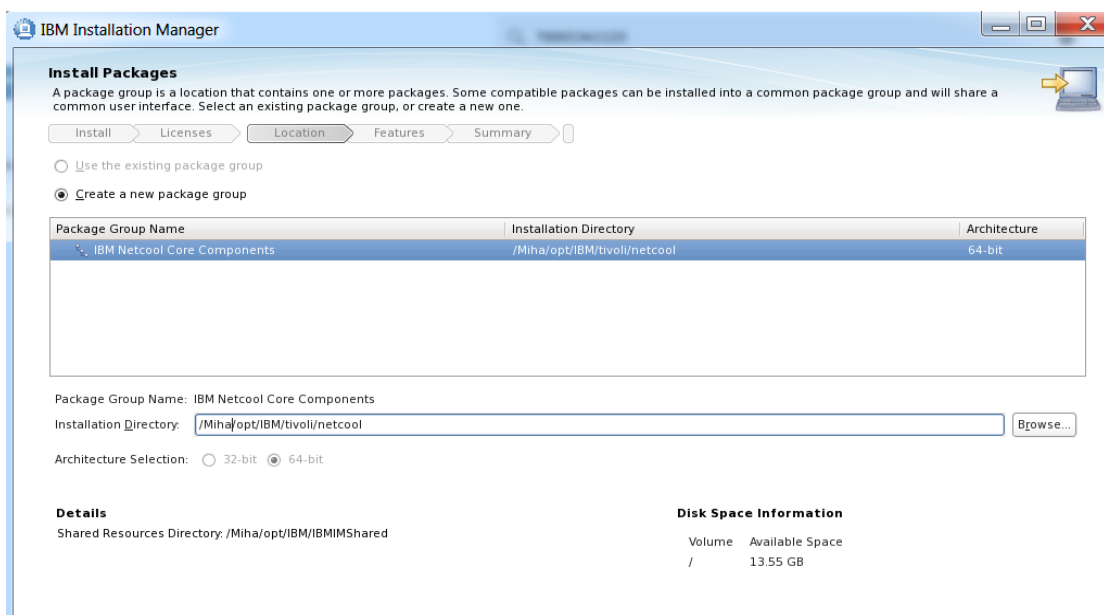
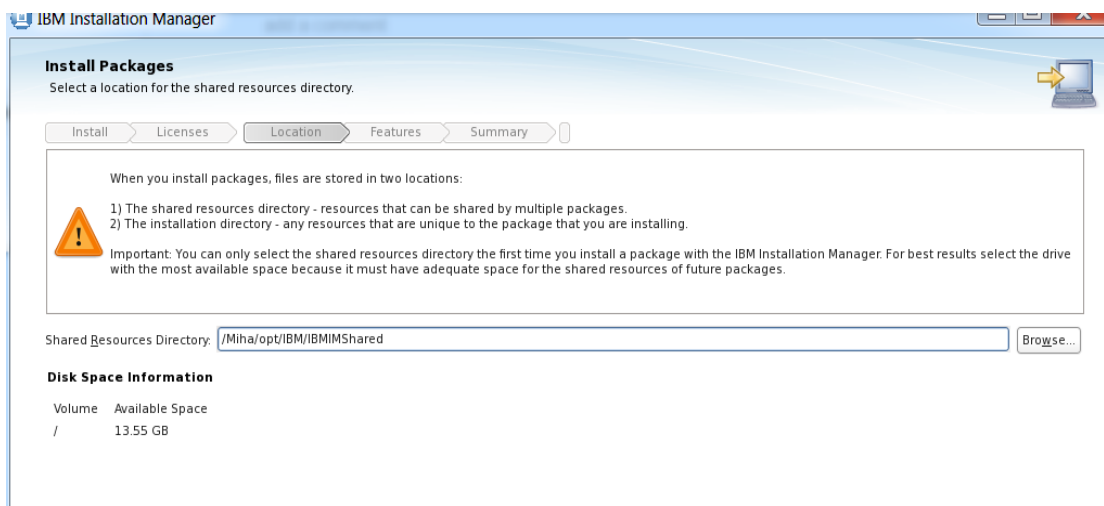
For more information see the DB2 installation log at
"/tmp/installFixPack.log.43472".
```

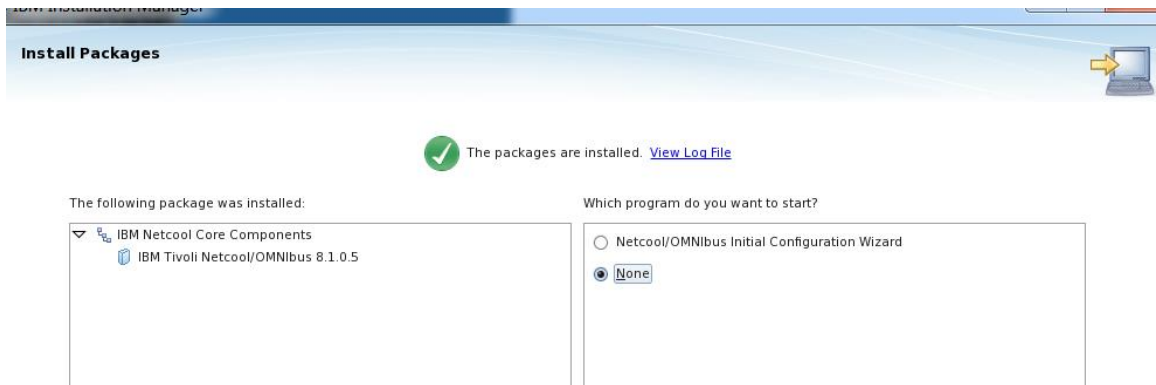
Install Omnibus core 8.1.0.5

- add repository within Installation Manager 1.8.6 and select Install option



- enter Shared Resources Directory and Installation path for Omni 8.1

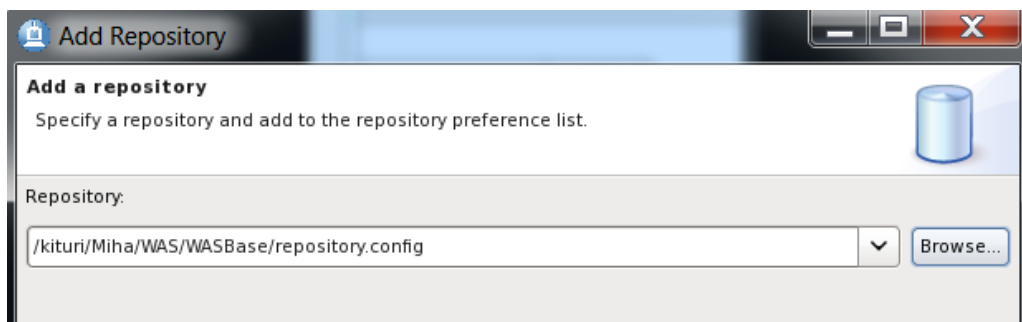




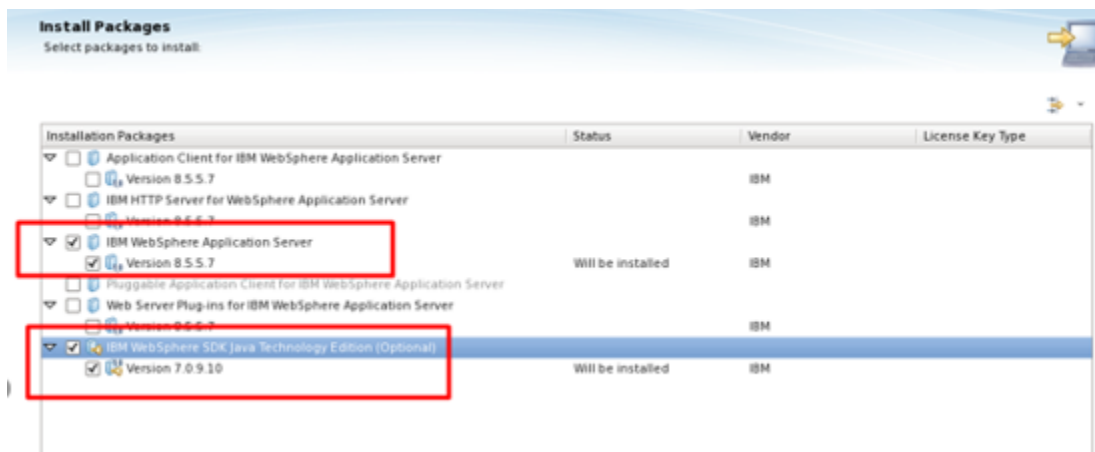
Install WAS 8.5.5.7 and upgrade to WAS 8.5.5.12

- unzip downloaded WAS package and add repository within IM:

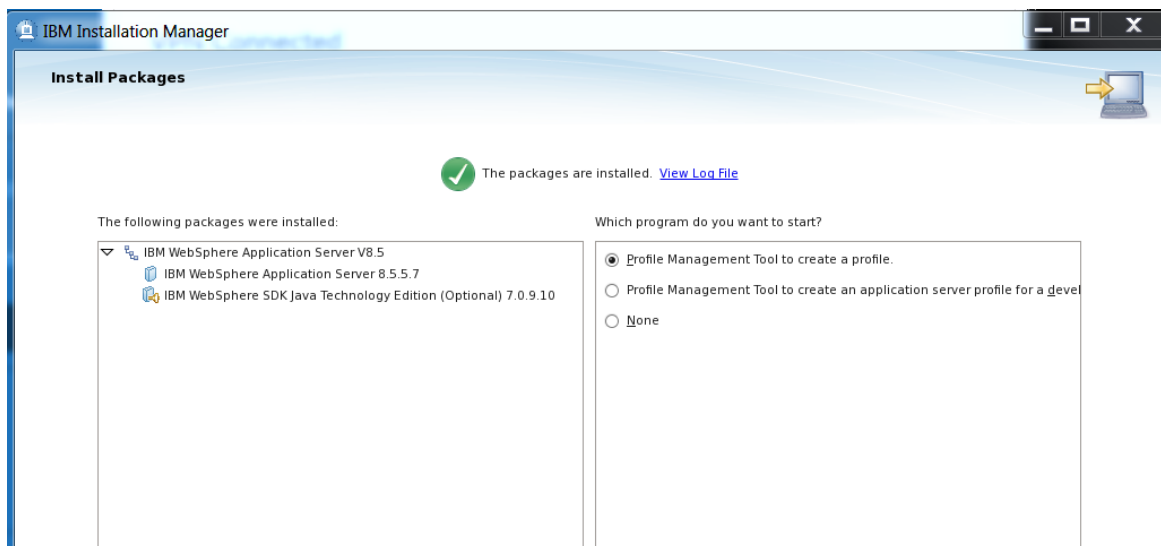
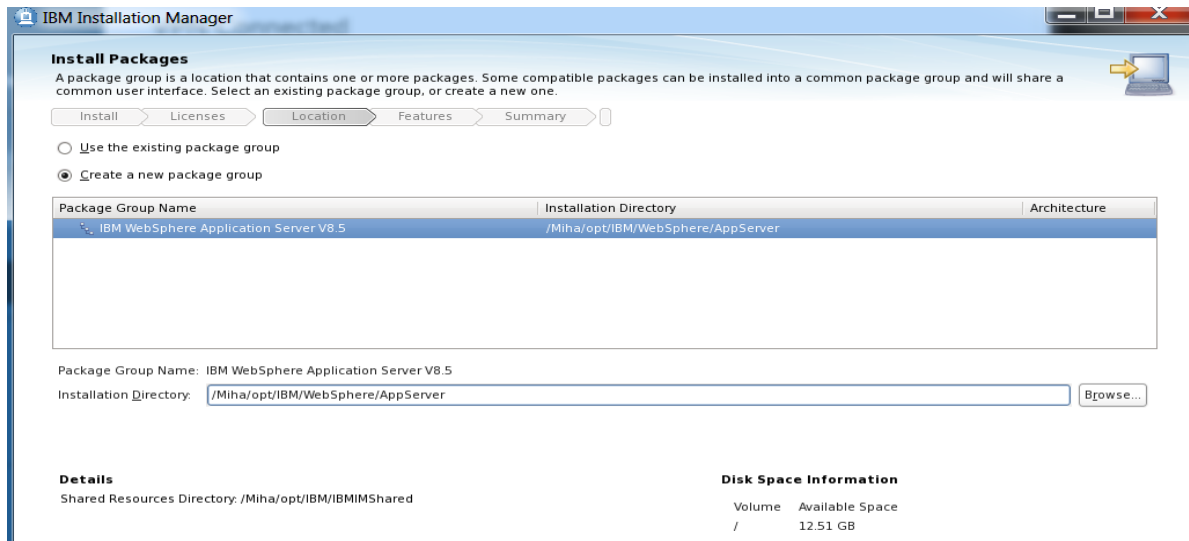
```
[root@Dooku WAS]#
[root@Dooku WAS]# unzip WAS_FOR_LINUX.zip -d WASBase
```



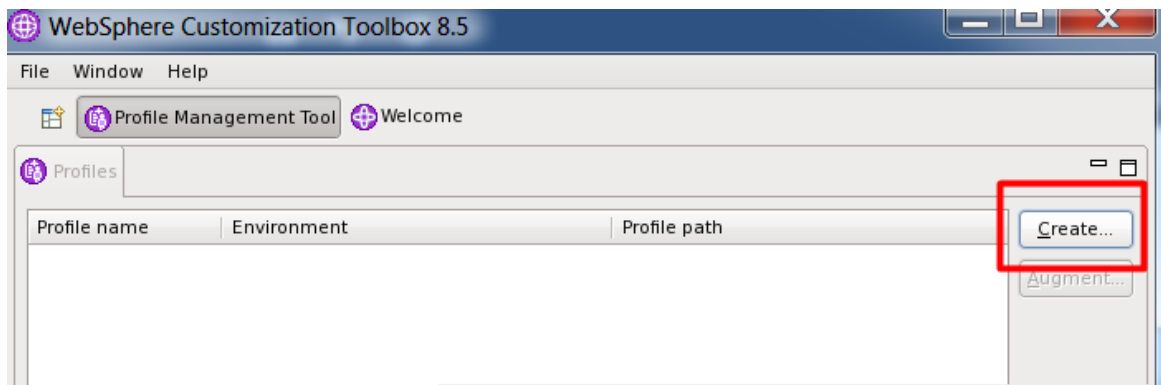
- select WAS 8.5.5.7 and Java SDK to install:



- 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)



Profile Management Tool 8.5

Administrative Security

Choose whether to enable administrative security. To enable security, supply a user name and password for logging into administrative tools. This administrative user is created in a repository within the application server. After profile creation finishes, you can add more users, groups, or external repositories.

☒ **Enable administrative security**

User name:

Password:

Confirm password:

See the information center for more information about administrative security.
[View the online information center](#)

Profile Management Tool 8.5

Profile Creation Summary

Review the information in the summary for correctness. If the information is correct, click **Create** to start creating a new profile. Click **Back** to change values on the previous panels.

Application server environment to create: Application server
 Location: /Miha/opt/IBM/WebSphere/AppServer/profiles/AppSrv01
 Disk space required: 200 MB

Profile name: AppSrv01
 Make this profile the default: True
 Performance tuning setting: Standard

Node name: DookuNode01
 Server name: server1
 Host name: Dooku

Deploy the administrative console (recommended): True
 Deploy the default application: True
 Deploy the Installation Verification Tool application: True

Enable administrative security (recommended): True

Administrative console port: 9060
 Administrative console secure port: 9043
 HTTP transport port: 9080
 HTTPS transport port: 9443
 Bootstrap port: 2809
 SOAP connector port: 8880

Run application server as a service: False

< Back Create Cancel Finish

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
```

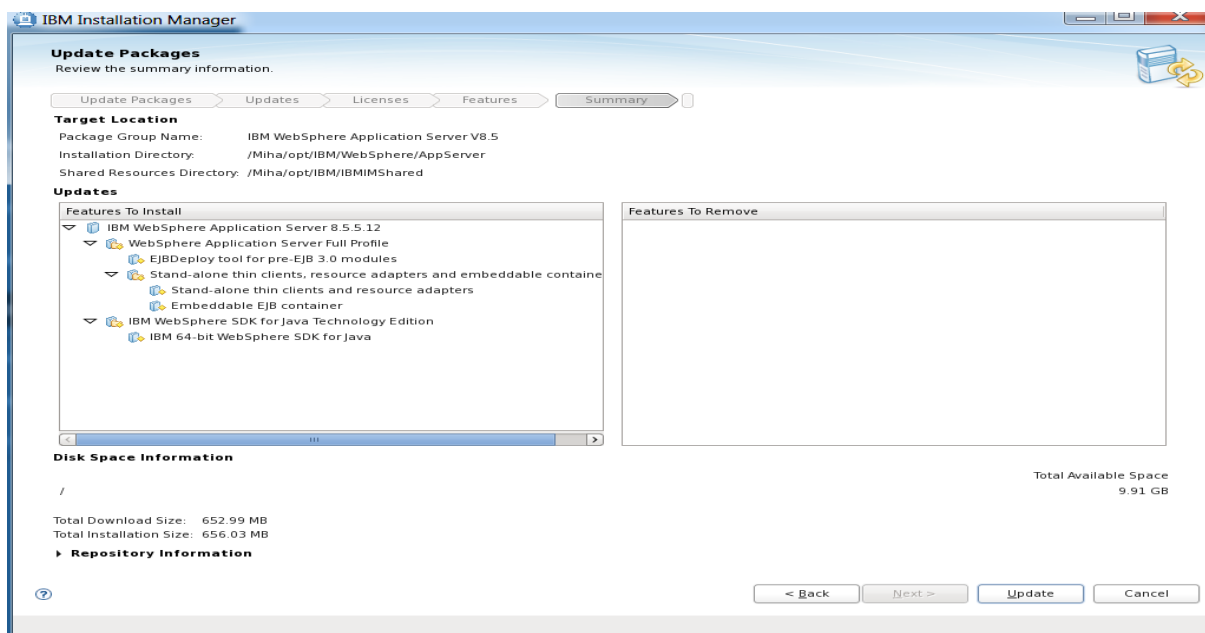
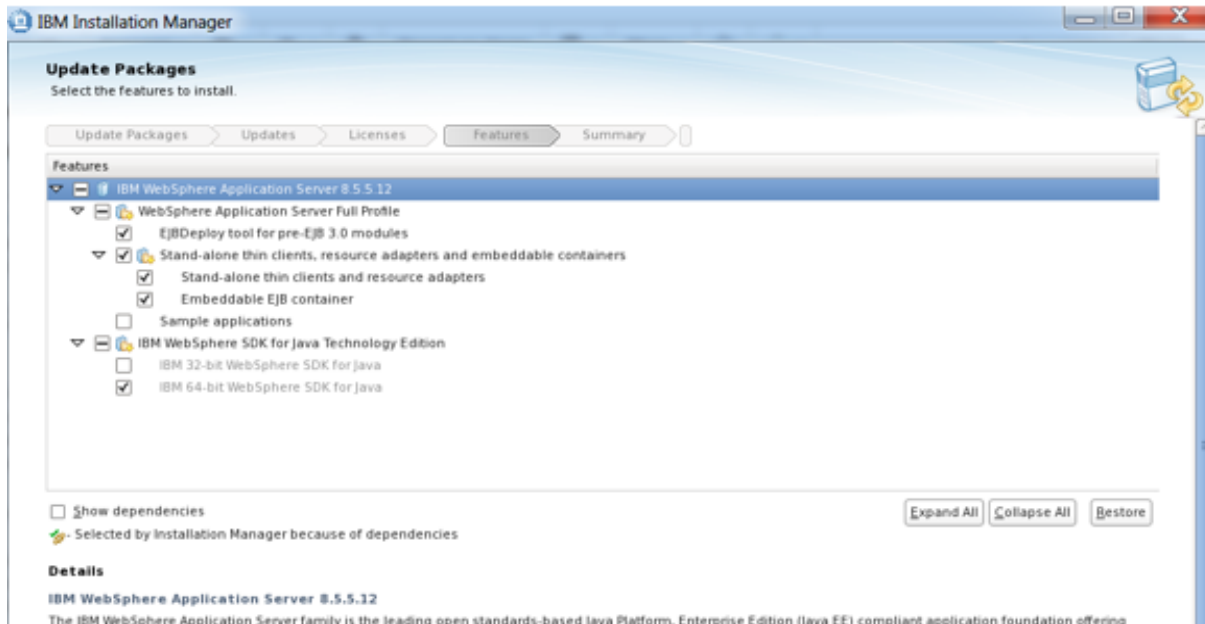
Add a repository

Specify a repository and add to the repository preference list.

Repository:

/kituri/Miha/WAS/WASFP/repository.config

- 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

Add a repository

Specify a repository and add to the repository preference list.



Repository:

/kituri/Miha/JAZZBase/JazzSMRepository/disk1/diskTag.inf

Browse...

Install Packages

Select packages to install:

| Installation Packages | Status | Vendor | License Key Type |
|---|-------------------|--------|------------------|
| <input type="checkbox"/> Jazz for Service Management extension for IBM WebSphere 8.0 | | IBM | |
| <input type="checkbox"/> Version 1.1.0.2 | | IBM | |
| <input checked="" type="checkbox"/> Jazz for Service Management extension for IBM WebSphere 8.5 | Will be installed | IBM | |
| <input checked="" type="checkbox"/> Version 1.1.2.1 | Will be installed | IBM | |
| <input checked="" type="checkbox"/> IBM Dashboard Application Services Hub | Will be installed | IBM | |
| <input checked="" type="checkbox"/> Version 3.1.3.0 | Will be installed | IBM | |
| <input type="checkbox"/> Reporting Services | | IBM | |
| <input type="checkbox"/> Version 3.1.3.0 | | IBM | |

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

Install Packages

The packages will be installed into the indicated package groups. Select the package group to change the installation directory.

Install Licenses Location Features Summary

| Package Group Name | Installation Directory | Architecture |
|---|-----------------------------------|--------------|
| IBM WebSphere Application Server V8.5 | /Miha/opt/IBM/WebSphere/AppServer | |
| Jazz for Service Management extension for IBM WebSphere 8.5 1.1 | | |
| Core services in Jazz for Service Management | /Miha/opt/IBM/JazzSM | 64-bit |
| IBM Dashboard Application Services Hub 3.1.3.0 | | |

Package Group Name: Core services in Jazz for Service Management

Installation Directory: /Miha/opt/IBM/JazzSM

Browse...

Architecture Selection: ☐ 32-bit ☒ 64-bit

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

Install Packages
Click Validate to continue

Install | Licenses | Location | **Features** | Summary

Common Configurations
 WebSphere Configuration
 Ports Configuration
 IBM Dashboard Application Sen
 Context Root

Common Configurations
WebSphere Configuration

WebSphere installation location: /Miha/opt/IBM/WebSphere/AppServer Browse...

Profile deployment type: Create WebSphere profile

Profile details

Profile location: /Miha/opt/IBM/JazzSM/profile Browse...

Profile name: JazzSMProfile

Node name: JazzSMNode01

Server name: server1

User name: smadmin

Password:

Password confirmation:

Validate...

< Back | Next > | Install | Cancel

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

Install Packages
Fill in the configurations for the packages.

Install | Licenses | Location | **Features** | Summary

Common Configurations
 WebSphere Configuration
Ports Configuration
 IBM Dashboard Application Sen
 Context Root

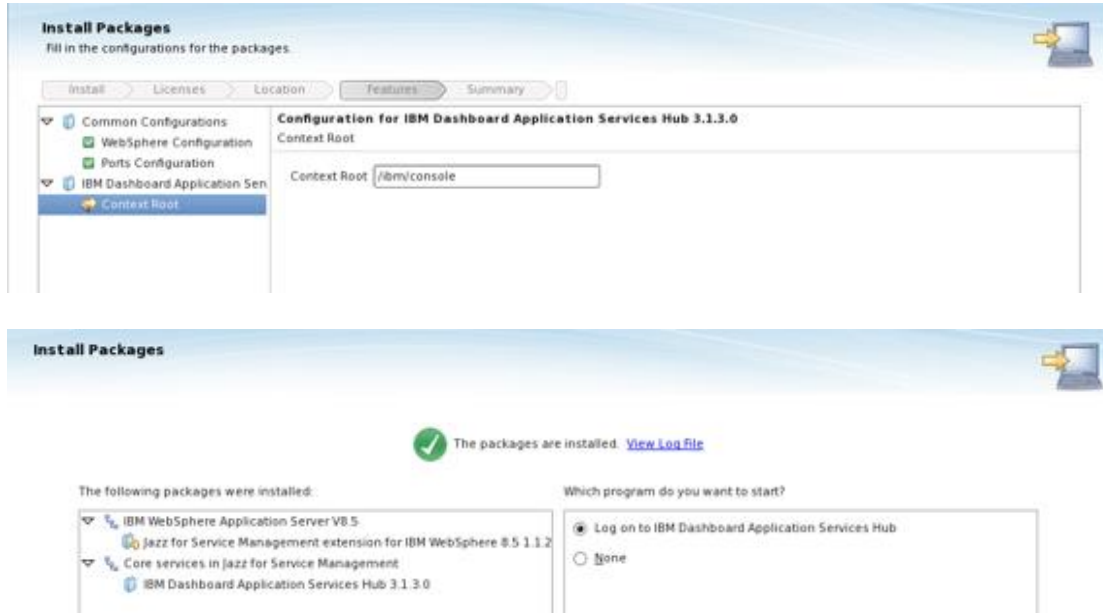
Common Configurations
Ports Configuration

Configure the various network ports to which the WebSphere Application Server profile for Jazz for Service Management listens.

| | |
|--|-------|
| HTTP transport port | 16310 |
| HTTPS transport secure port | 16311 |
| Bootstrap port | 16312 |
| SOAP connector port | 16313 |
| IPC connector port | 16314 |
| Administrative console port | 16315 |
| Administrative console secure port | 16316 |
| High availability manager communication port | 16318 |
| ORB listener port | 16320 |
| SAS SSL server authentication port | 16321 |
| CSIV2 client authentication listener port | 16322 |
| CSIV2 server authentication listener port | 16323 |
| REST notification port | 16324 |

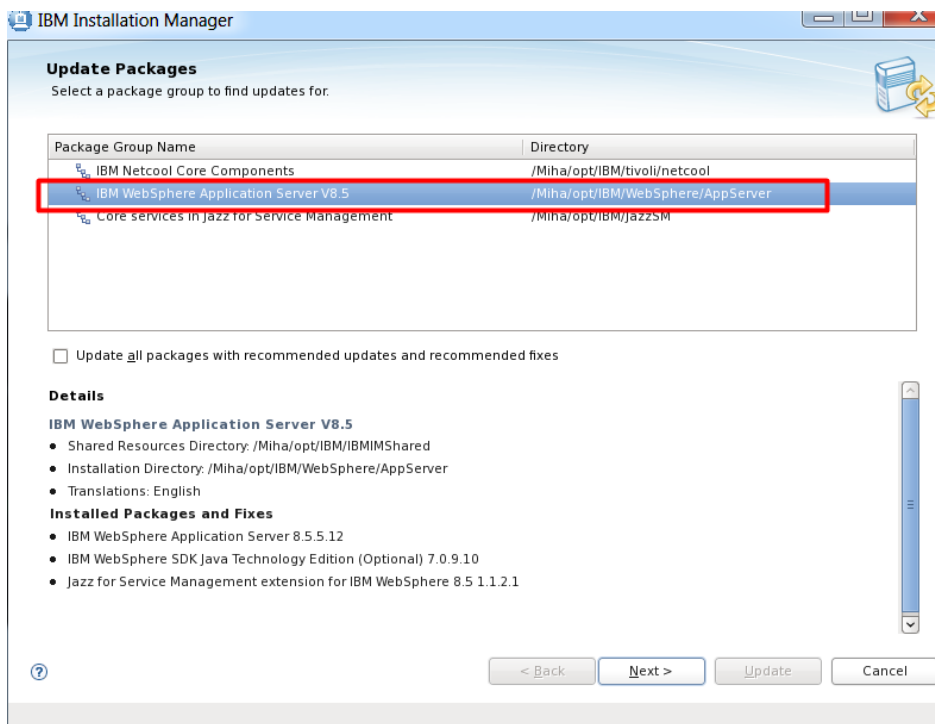
< Back | Next > | Install | Cancel

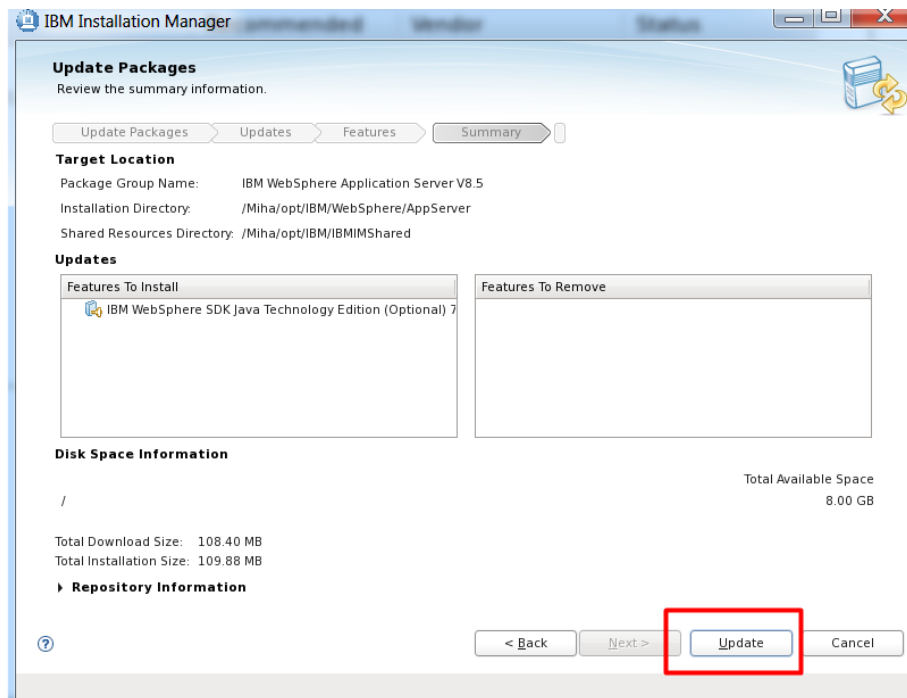
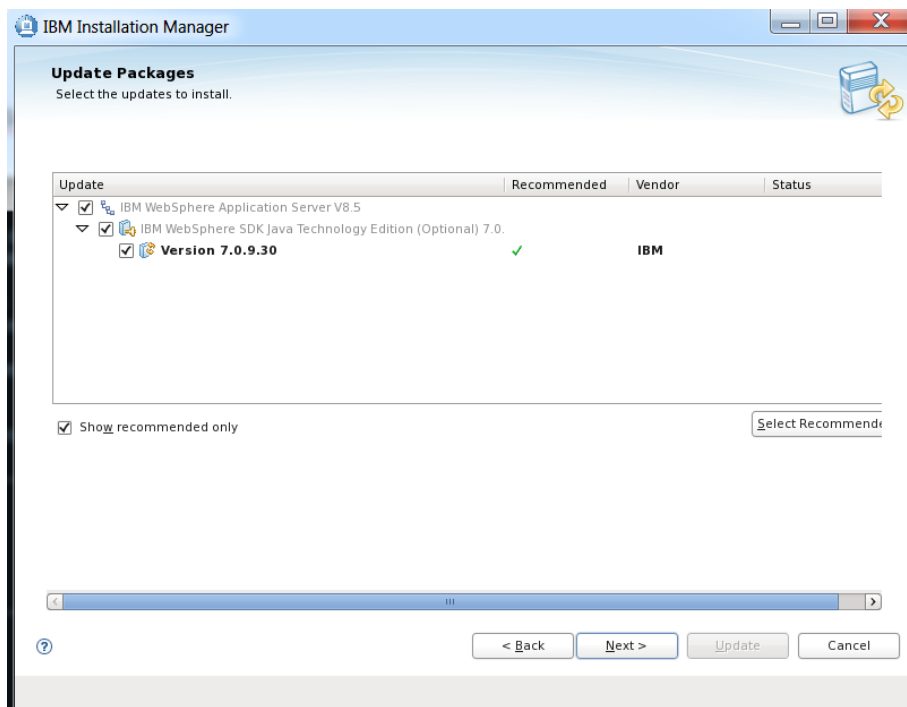
- by default, context root is /ibm/console; continue with the installation:



Upgrade Java to 7.0.9.30

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





The packages are updated. [View Log File](#)

The following update was installed:

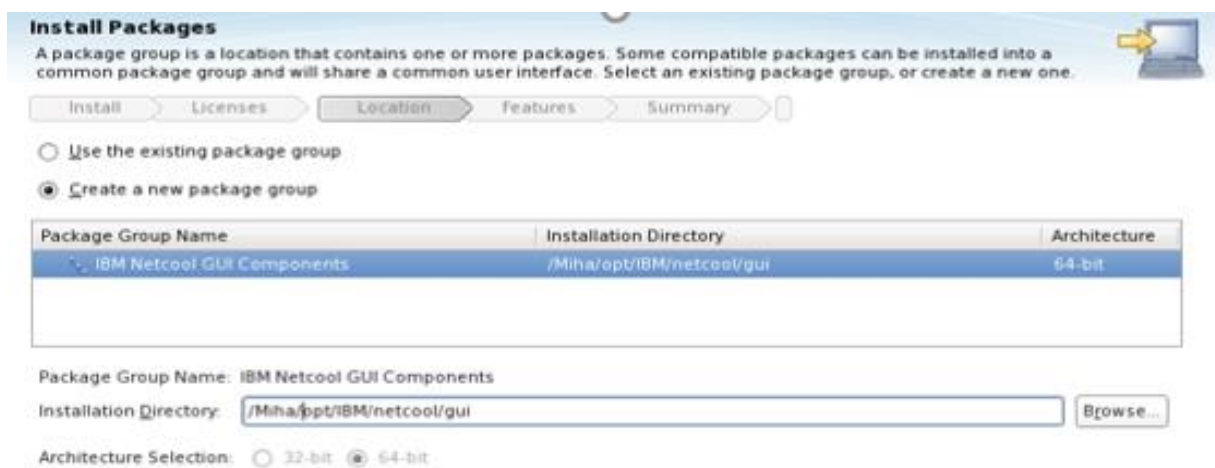
| Update | Installation Directory |
|---|------------------------|
| IBM WebSphere Application Server V8.5 | /Miha/opt/IBM/WebSpt |
| IBM WebSphere SDK Java Technology Edition (Opti | |

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:



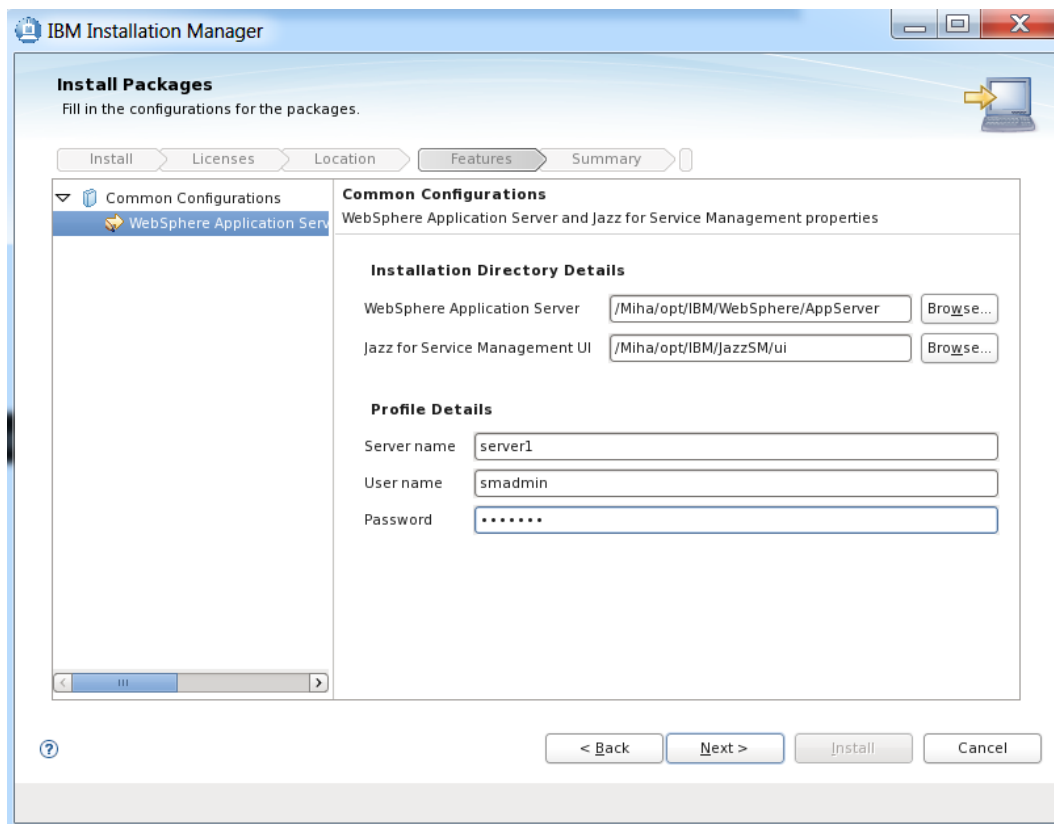
- enter installation directory for webgui:



- 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 Server and Jazz for Service Management properties

Installation Directory Details

WebSphere Application Server: /Miha/opt/IBM/WebSphere/AppServer

Jazz for Service Management UI: /Miha/opt/IBM/JazzSM/ui

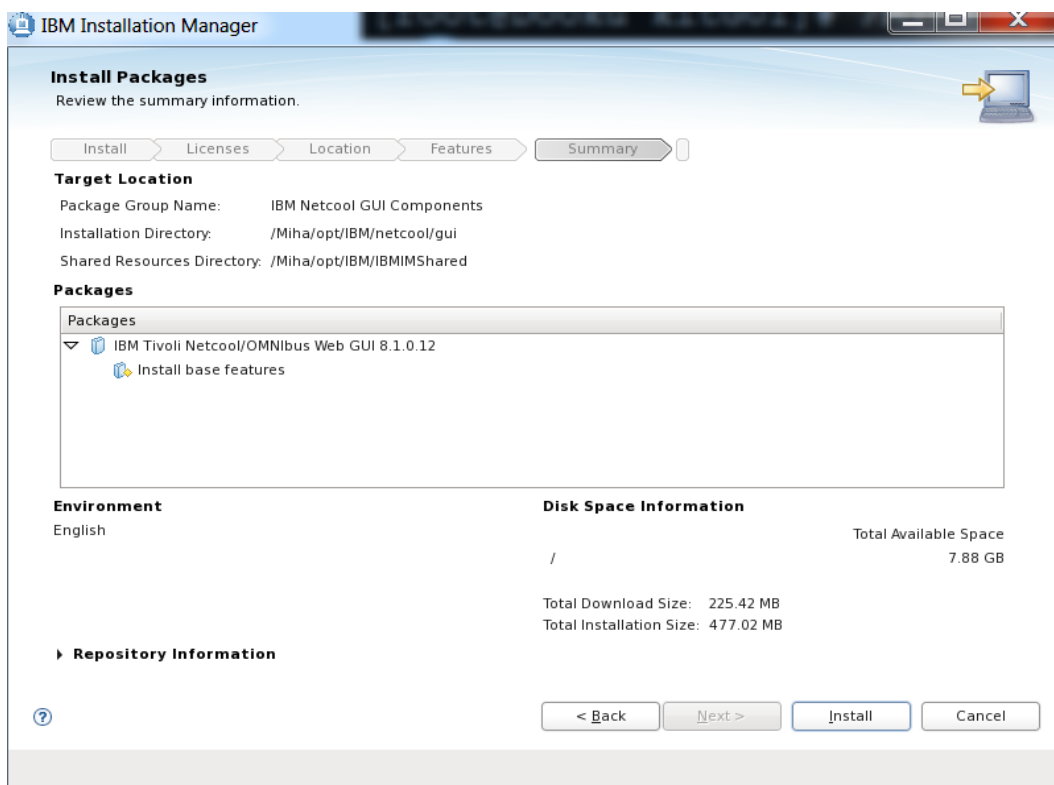
Profile Details

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

IBM Tivoli Netcool/OMNIBUS Web GUI 8.1.0.12

- Install base features

Environment
English

Disk Space Information

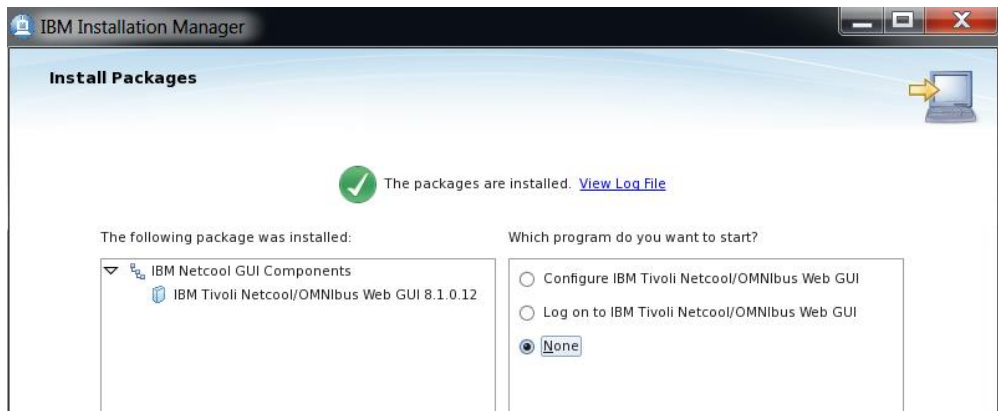
Total Available Space: 7.88 GB

Total Download Size: 225.42 MB

Total Installation Size: 477.02 MB

Repository Information

< Back | Next > | **Install** | 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
}
```

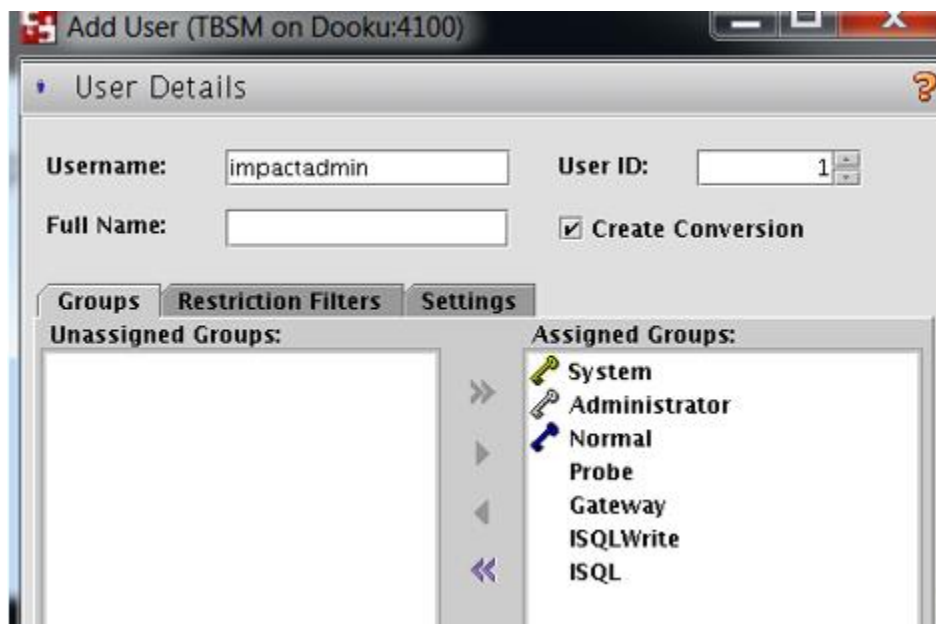
- run nco_igen for the changes to be saved and start the object server:

```
[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

| Name | Full Name | Type | ID | Extern... | Enable |
|-------------|-----------|------------|----|-----------|--------|
| impactadmin | | Super User | 1 | false | true |

- **add TBSM schema to object server**

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

```
run: /Miha/opt/IBM/tivoli/netcool/omnibus/bin/nco_objserv -name TBSM &
# 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)
(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.
[root@Dooku schema_files]#
```

- 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.
```

Create New Data Source

General

Failover

Display Servers

Self Monitoring

Caching

Connection Pools

* Name: ?

TBSM

☒ Enabled

☒ In Default Group

Primary ObjectServer

* Host:

172.26.7.11

* Port:

4100

☐ Use SSL ?

Test server connection

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`

```
./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 profile/installedApps...
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:

Install Packages

A package group is a location that contains one or more packages. Some compatible packages can be installed into a common package group and will share a common user interface. Select an existing package group, or create a new one.

Install > Licenses > Location > Features > Summary

☐ Use the existing package group

☒ Create a new package group

| Package Group Name | Installation Directory | Architecture |
|---------------------------|-----------------------------|--------------|
| IBM Tivoli Netcool Impact | /Miha/opt/IBM/tivoli/impact | 64-bit |

Package Group Name: IBM Tivoli Netcool Impact

Installation Directory: /Miha/opt/IBM/tivoli/impact

Architecture Selection: ☐ 32-bit ☒ 64-bit

- 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:

IBM Installation Manager

Install Packages

Fill in the configurations for the packages.

Install > Licenses > Location > Features > Summary

Common Configurations

User Registry

Select the user registry to use for user management and authentication.

☒ ObjectServer

☐ ObjectServer with SSL

☐ LDAP

☐ LDAP with SSL

☐ Local File Based

OMNibus ObjectServer

The OMNibus ObjectServer Super User must exist and the OMNibus ObjectServer must be configured and running.

Primary Host: Dooku

Primary Port: 4100

Backup Host (Optional):

Backup Port (Optional):

Super or Administrator User ID: root

< Back Next > [Install] Cancel

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

The screenshot shows the 'IBM Installation Manager' window with the 'Install Packages' section. The 'Features' tab is selected in the top navigation bar. In the left sidebar, 'Common Configurations' is expanded, and 'User ID and Password' is selected. The main area is titled 'Common Configurations' and 'User ID and Password'. It contains the instruction 'Provide an administrative user ID and password for Impact'. There are three input fields: 'Impact User ID' with the value 'impactadmin', 'Impact Password (Minimum 6 characters)' with masked characters '*****', and 'Confirm Impact Password' with masked characters '*****'. At the bottom, there are buttons for '< Back', 'Next >', 'Install', and 'Cancel'.

- 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)

The screenshot shows the 'IBM Installation Manager' window with the 'Install Packages' section. The 'Features' tab is selected in the top navigation bar. In the left sidebar, 'Common Configurations' is expanded, and 'Profile Ports' is selected. The main area is titled 'Common Configurations' and 'Profile Ports'. It contains the instruction 'Impact requires a range of ports to run. Specify the starting port of the range.' There are two input fields: 'Starting port number for Impact Server' with the value '9080' and 'Starting port number for GUI Server' with the value '17310'. At the bottom, there are buttons for '< Back', 'Next >', 'Install', and 'Cancel'.

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

IBM Installation Manager

Install Packages
Fill in the configurations for the packages.

Install | Licenses | Location | **Features** | Summary

▼ Common Configurations

- ☒ User Registry
- ☒ User ID and Password
- ☒ Profile Ports
- ☒ Nameserver

▼ IBM Tivoli Netcool/Impact Server

- ☒ **Impact Server**
- Derby Database

Configuration for IBM Tivoli Netcool/Impact Server 7.1.0.13
Impact Server

The instance name will act as a unique identifier for the server instance and the cluster name defines which cluster the instance belongs to. The command line port is used by Impact for its command line service.

Instance Name:

Cluster Name:

Command Line Port:

< Back | Next > | Install | Cancel

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

IBM Installation Manager

Install Packages
Fill in the configurations for the packages.

Install | Licenses | Location | **Features** | Summary

▼ Common Configurations

- ☒ User Registry
- ☒ User ID and Password
- ☒ Profile Ports
- ☒ Nameserver

▼ IBM Tivoli Netcool/Impact Server

- ☒ **Impact Server**
- ☒ **Derby Database**

Configuration for IBM Tivoli Netcool/Impact Server 7.1.0.13
Derby Database

Impact uses an embedded Derby Database for storing data for Impact Solutions and Impact. If you are installing a stand-alone Impact Server, add the Derby primary host and port information to the pane. If you are installing a clustered Impact Server, you must also add a Derby backup host and port to replicate data.

Select the Derby Type.

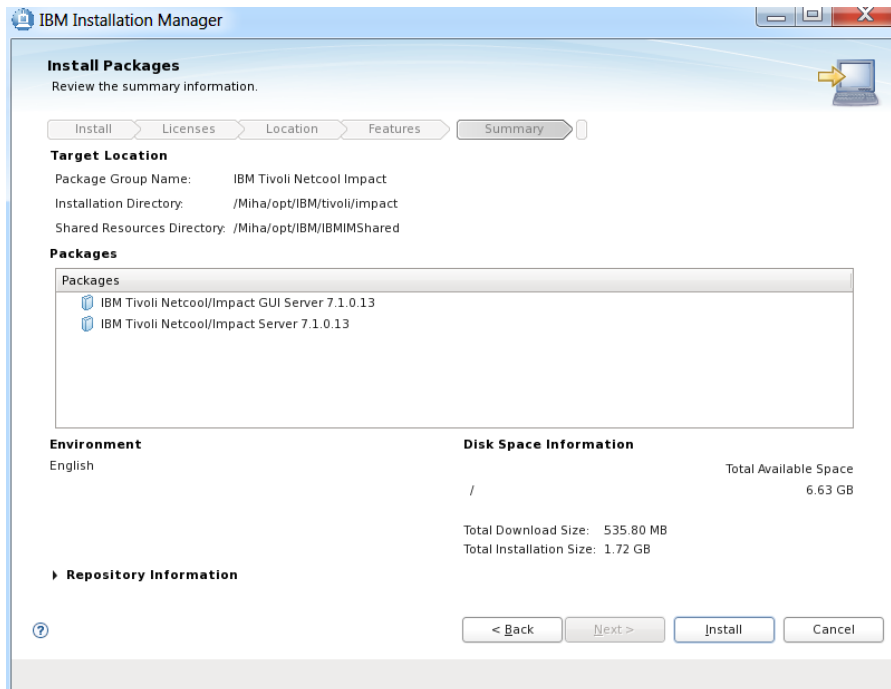
- ☒ **PrimaryStandAlone** - An Impact Server with no other cluster members. No need to add other Derby database information.
- ☐ Primary - Database on this machine which also functions in a clustered environment.
- ☐ Backup - Database on this machine which also functions in a clustered environment.
- ☐ Neither - A cluster member which will point to a Primary and Backup Database.

Derby Primary Host:

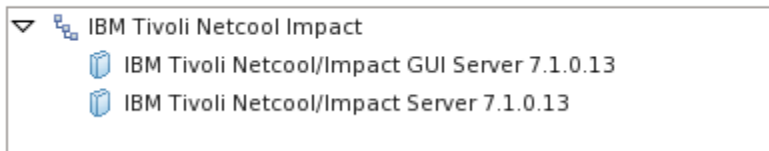
Derby Primary Port:

< Back | Next > | Install | Cancel

- continue with the Installation:



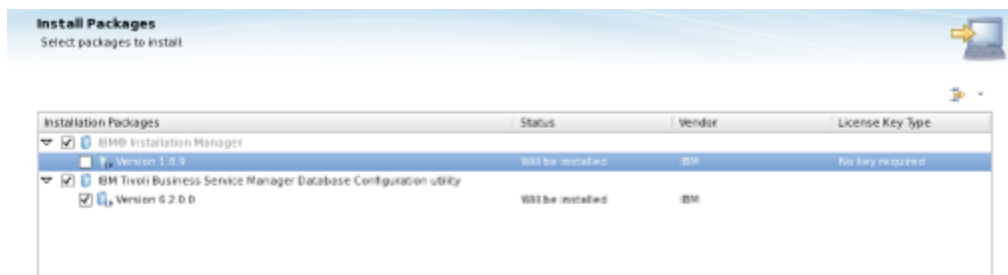
The following packages were installed:



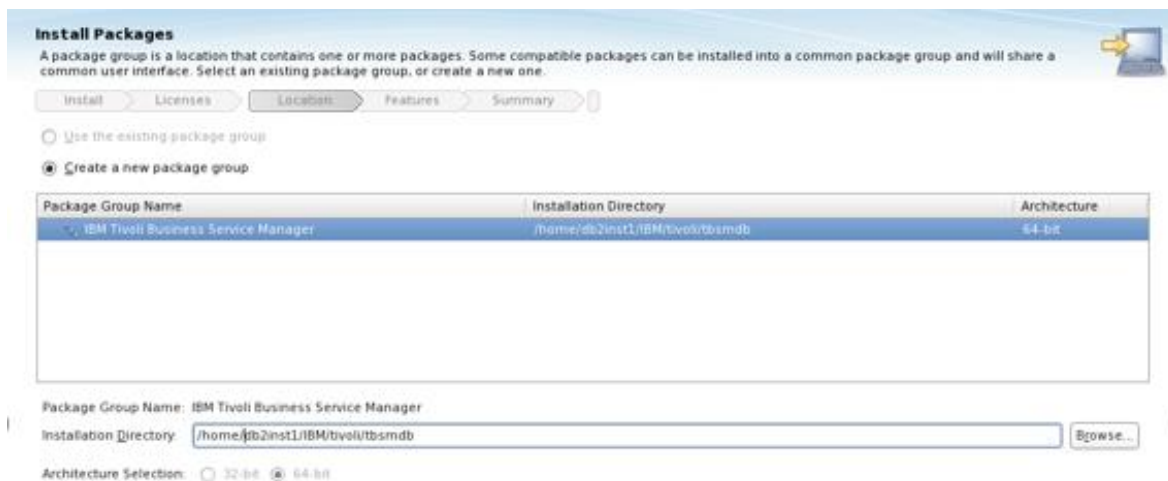
Install TBSM Database Configuration Utility

- login as db2inst1 user:
- go to the directory where 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 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.

Install > Licenses > Location > **Features** > Summary

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)

☐ Small (up to 5,000)

< 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 Configuration

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)

☐ Small (up to 5,000)

< 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 Configuration**

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.

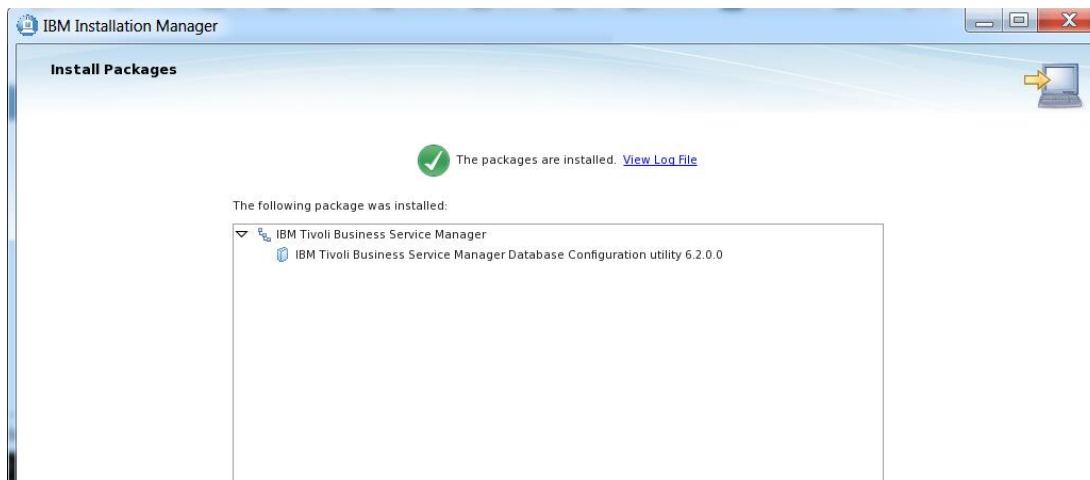
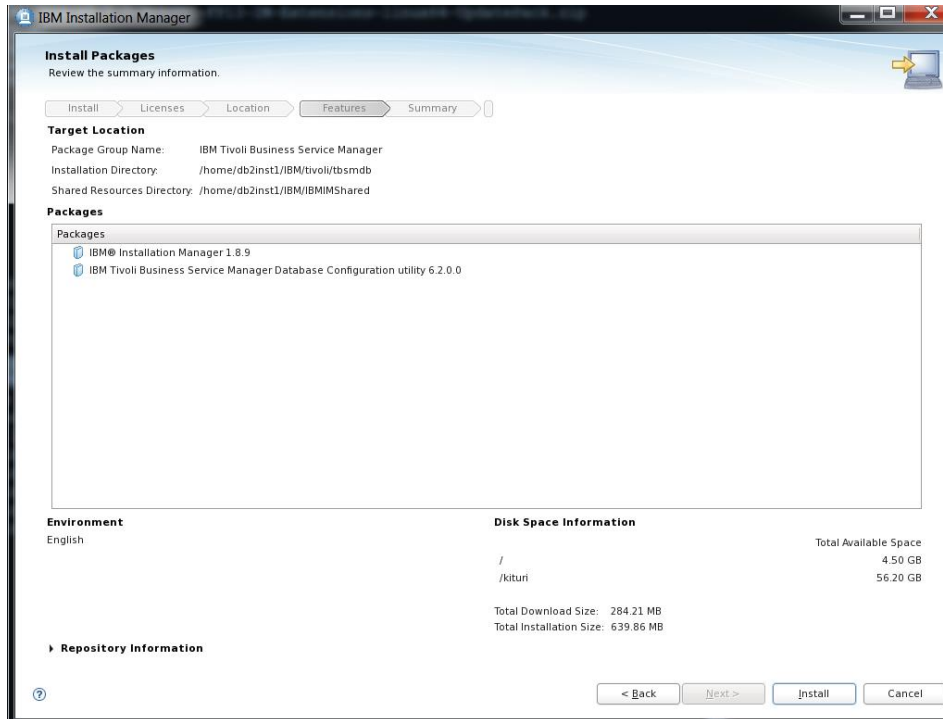
☐ Large (more than 20,000)

☒ Medium (5,000 to 20,000)

☐ Small (up to 5,000)

< Back Next > Install Cancel

- continue with the installation:



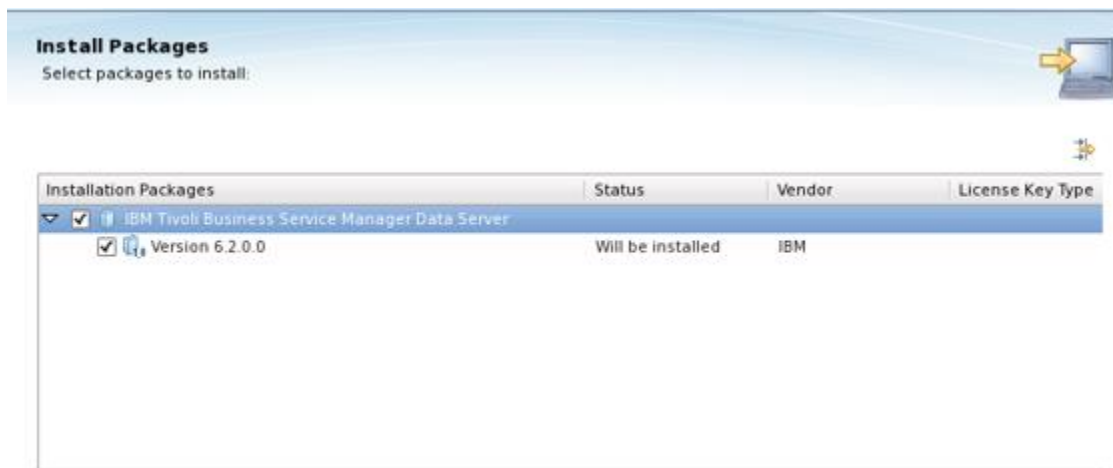
Install TBSM Data Server

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

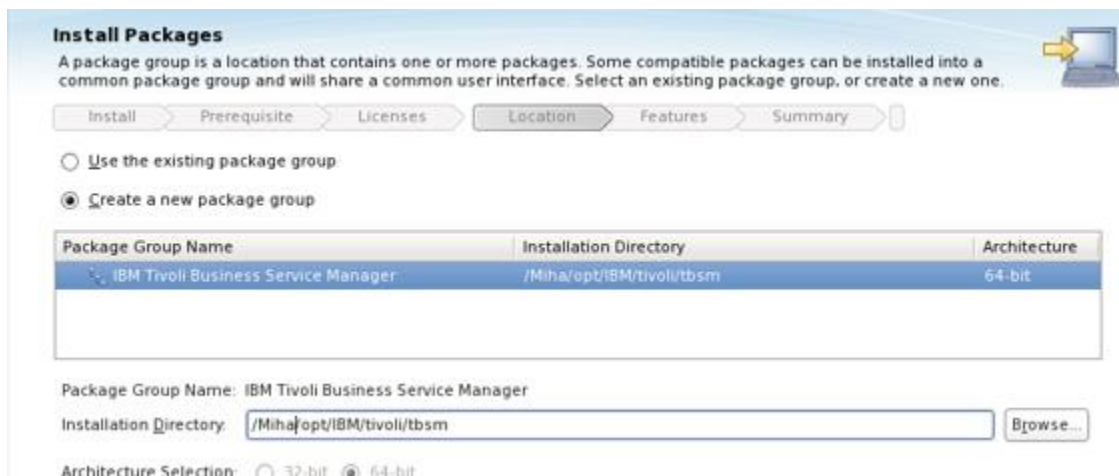
```
cd /kituri/Miha/TBSM/data_linux
```

- 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)

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 Database
 - TBSM Metric History Database
- Object Server Details
- TBSM DataServer User Registration
- Jazz for SM Server Details
- DataServer Data Source and TADDOM Connectivity Configuration
- TADDOM Database Configuration
- Discovery Library Book Import
- Discovery Library Book Export

Common Configurations
Impact Server Details

TBSM services uses Netcool/Impact specific Models, datasource, types and service. Please Enter the Impact details

Impact Server Host:

Impact Directory:

Impact BackEnd Port:

Impact BackEnd HTTPS Port:

Impact User:

Impact User Password:

Confirm Password:

tbsmadmin User Password:

Confirm Password:

If failover will be setup and this Data server will be the backup server, select the following check box

☐ Designated Backup Server

< Back | **Next >** | Install | Cancel

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

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 Database
- TBSM Metric History Database
- Object Server Details
- TBSM DataServer User Registration
- Jazz for SM Server Details
- DataServer Data Source and TADDOM Connectivity Configuration
- TADDOM Database Configuration
- Discovery Library Book Import
- Discovery Library Book Export

Common Configurations
Data Server Information

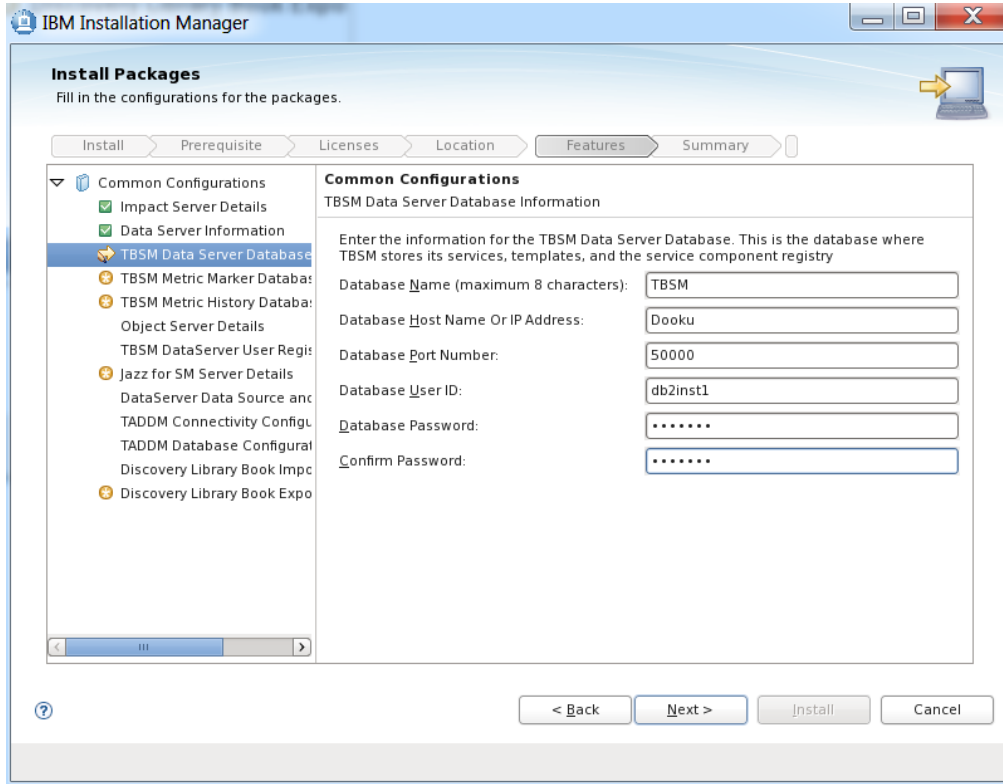
Provide following information for the Data Server

Communication Port:

Impact Server Command line port:

< Back | **Next >** | Install | Cancel

- enter TBSM Data Server Database information as configured previously:



IBM Installation Manager

Install Packages
Fill in the configurations for the packages.

Install > Prerequisite > Licenses > Location > **Features** > Summary

Common Configurations
TBSM Data Server Database Information

Enter the information for the TBSM Data Server Database. This is the database where TBSM stores its services, templates, and the service component registry

Database Name (maximum 8 characters): TBSM

Database Host Name Or IP Address: Dooku

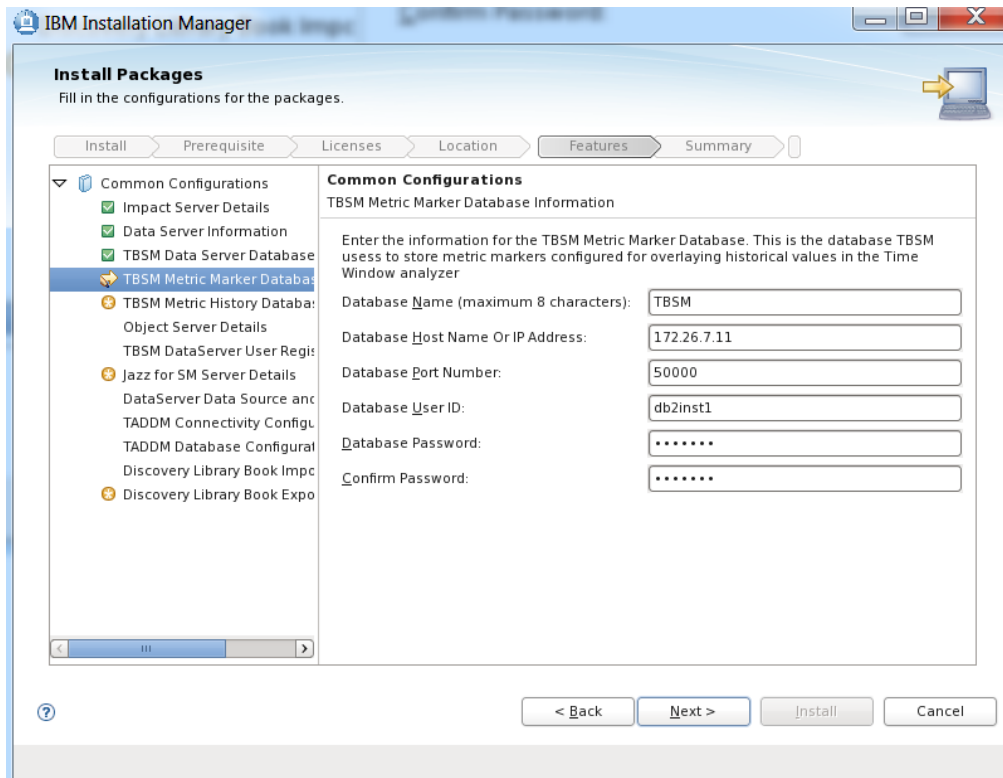
Database Port Number: 50000

Database User ID: db2inst1

Database Password:

Confirm Password:

< Back Next > Install Cancel



IBM Installation Manager

Install Packages
Fill in the configurations for the packages.

Install > Prerequisite > Licenses > Location > **Features** > Summary

Common Configurations
TBSM Metric Marker Database Information

Enter the information for the TBSM Metric Marker Database. This is the database TBSM uses to store metric markers configured for overlaying historical values in the Time Window analyzer

Database Name (maximum 8 characters): TBSM

Database Host Name Or IP Address: 172.26.7.11

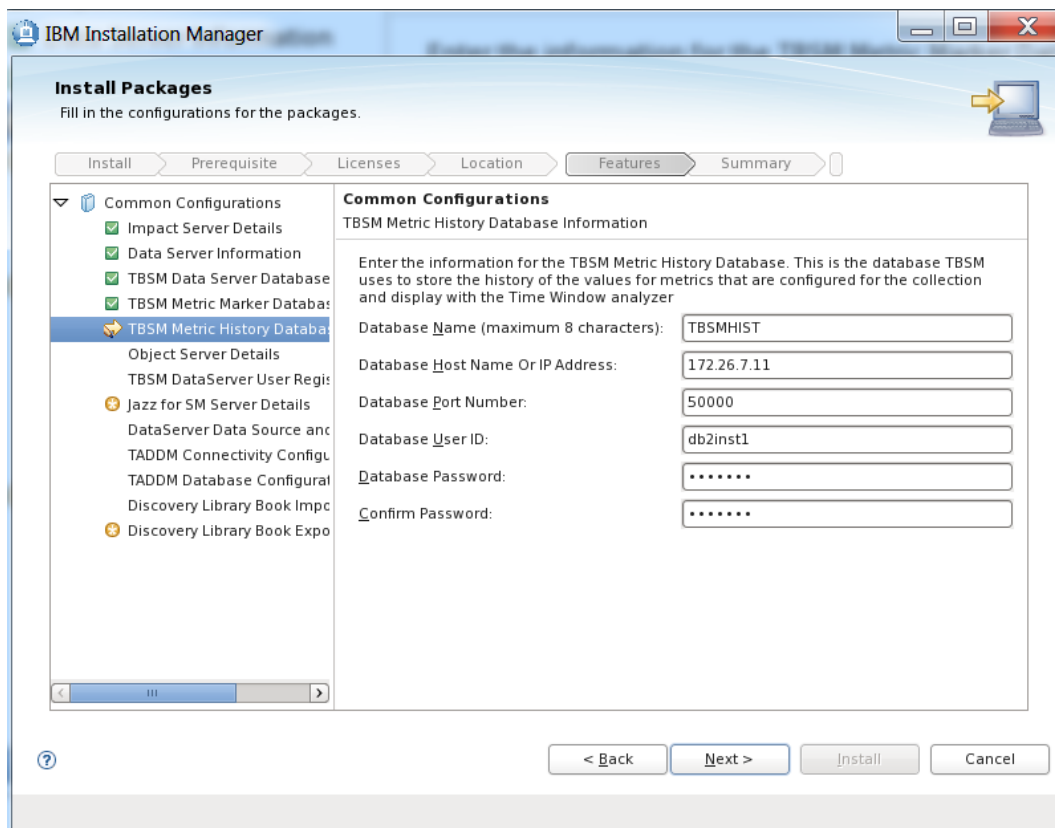
Database Port Number: 50000

Database User ID: db2inst1

Database Password:

Confirm Password:

< 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 Database
- TBSM Metric History Database**
- Object Server Details
- TBSM DataServer User Registration
- Jazz for SM Server Details
- DataServer Data Source and TADDM Connectivity Configuration
- TADDM Database Configuration
- Discovery Library Book Import
- Discovery Library Book Export

Common Configurations
TBSM Metric History Database Information

Enter the information for the TBSM Metric History Database. This is the database TBSM uses to store the history of the values for metrics that are configured for the collection and display with the Time Window analyzer

Database Name (maximum 8 characters): TBSMHIST

Database Host Name Or IP Address: 172.26.7.11

Database Port Number: 50000

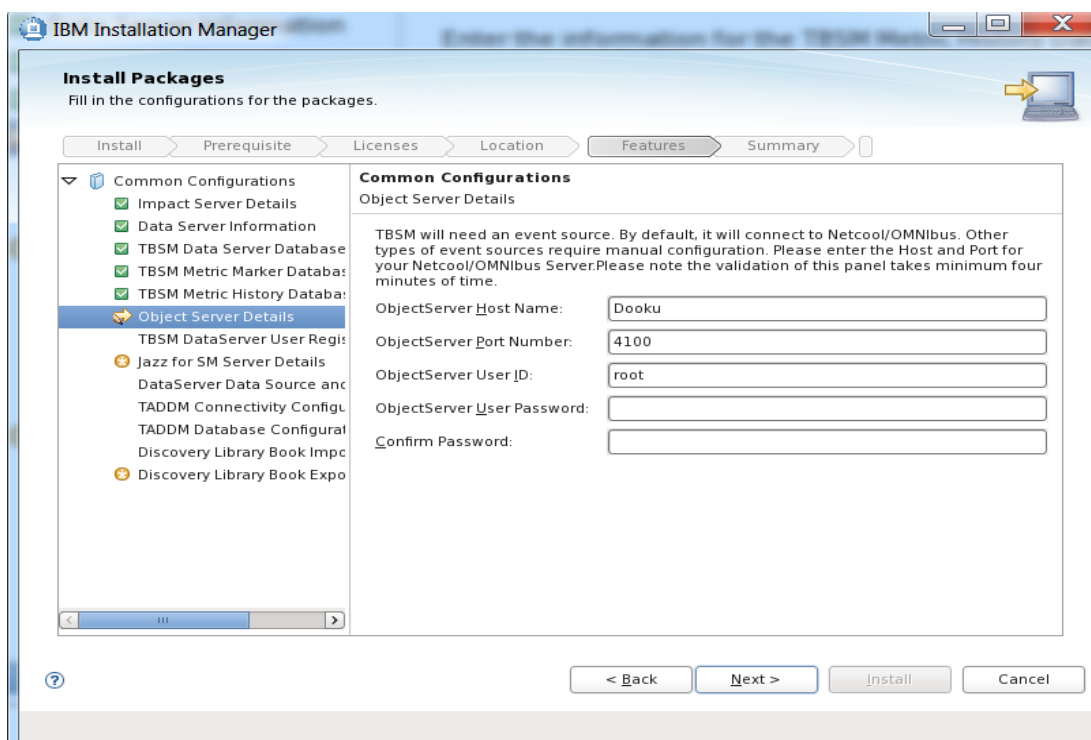
Database User ID: db2inst1

Database Password:

Confirm Password:

< Back | Next > | Install | Cancel

- enter object server 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 Database
- TBSM Metric History Database
- Object Server Details**
- TBSM DataServer User Registration
- Jazz for SM Server Details
- DataServer Data Source and TADDM Connectivity Configuration
- TADDM Database Configuration
- Discovery Library Book Import
- Discovery Library Book Export

Common Configurations
Object Server Details

TBSM will need an event source. By default, it will connect to Netcool/OMNIBus. Other types of event sources require manual configuration. Please enter the Host and Port for your Netcool/OMNIBus Server. Please note the validation of this panel takes minimum four minutes of time.

ObjectServer Host Name: Dooku

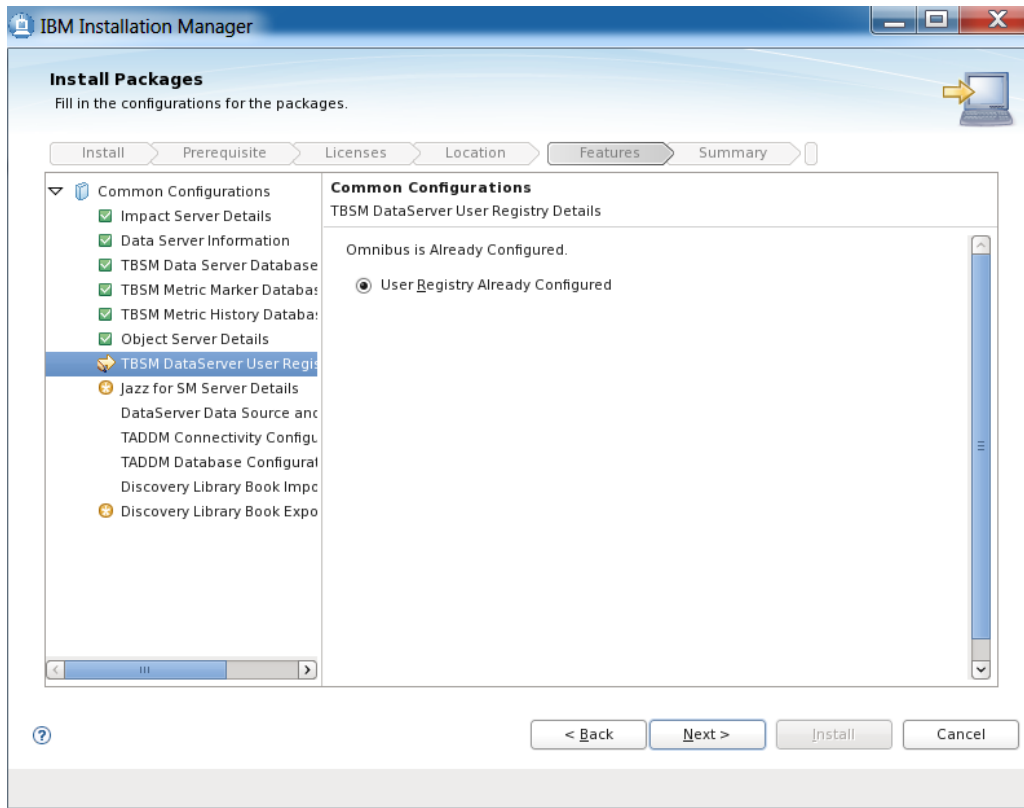
ObjectServer Port Number: 4100

ObjectServer User ID: root

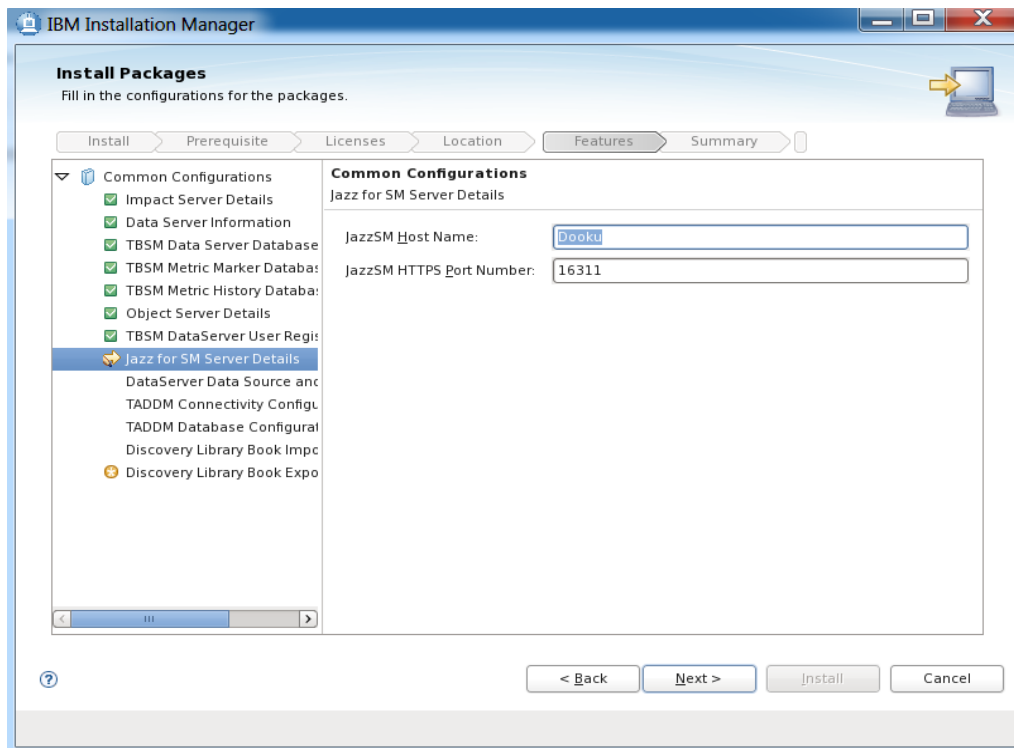
ObjectServer User Password:

Confirm Password:

< Back | Next > | Install | Cancel



- 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 Database
- ☒ TBSM Metric History Database
- ☒ Object Server Details
- ☒ TBSM DataServer User Registration
- ☒ Jazz for SM Server Details
- DataServer Data Source and DB Selection**
- TADDM Connectivity Configuration
- TADDM Database Configuration
- Discovery Library Book Import Configuration
- Discovery Library Book Export Configuration

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)

BMI Registry Port:

< 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 Database
- ☒ TBSM Metric History Database
- ☒ Object Server Details
- ☒ TBSM DataServer User Registration
- ☒ Jazz for SM Server Details
- ☒ DataServer Data Source and DB Selection
- ☒ TADDM Connectivity Configuration
- ☒ TADDM Database Configuration
- Discovery Library Book Import Configuration**
- Discovery Library Book Export Configuration

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: 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 Database
- TBSM Metric History Database
- Object Server Details
- TBSM DataServer User Registration
- Jazz for SM Server Details
- DataServer Data Source and
- TADDM Connectivity Configuration
- TADDM Database Configuration
- Discovery Library Book Export Configuration

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: [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 conjunction 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:

Enter a Dashboard Server Port:

[? < 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

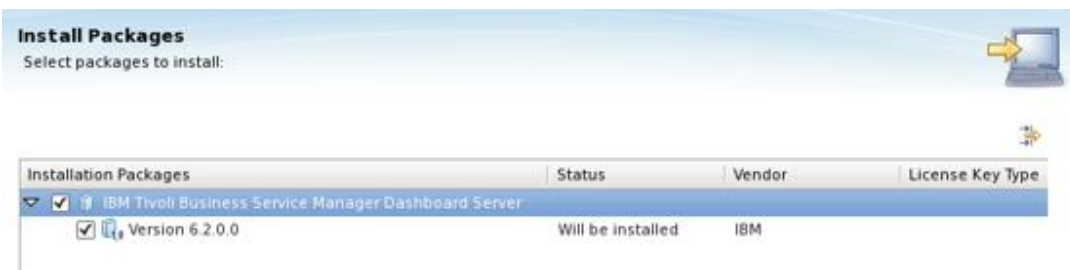
- Impact, WebGUI and Omnibus should be running
- make sure waapi.init is properly configured and runwaapi can run without problems, test example below:

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

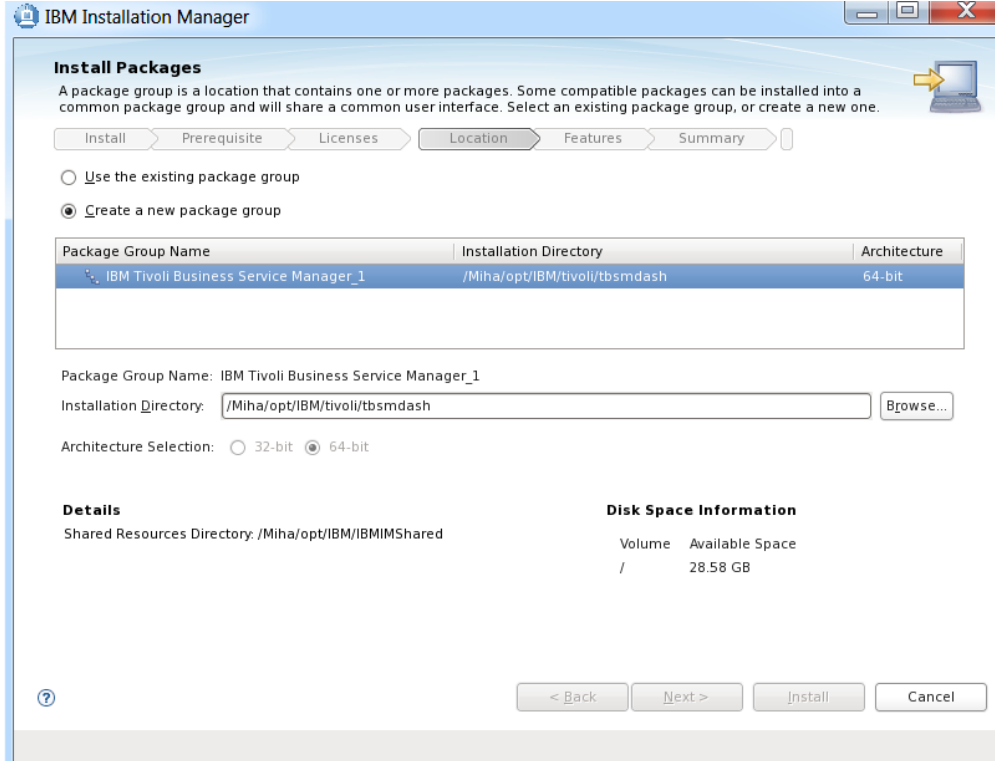
```
[root@Dooku bin]# ./runwaapi -file ../etc/samples/list_map.xml  
  
*****  
WAAPIClient: Request sent to server on http://172.26.7.11:16310/ibm/console/webtop/...  
Mon Sep 17 12:57:11 EEST 2018  
  
Maps hosted on the server  
*****  
Example_E-Commerce  
Example_Europe  
Example_Geographic  
*****  
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:

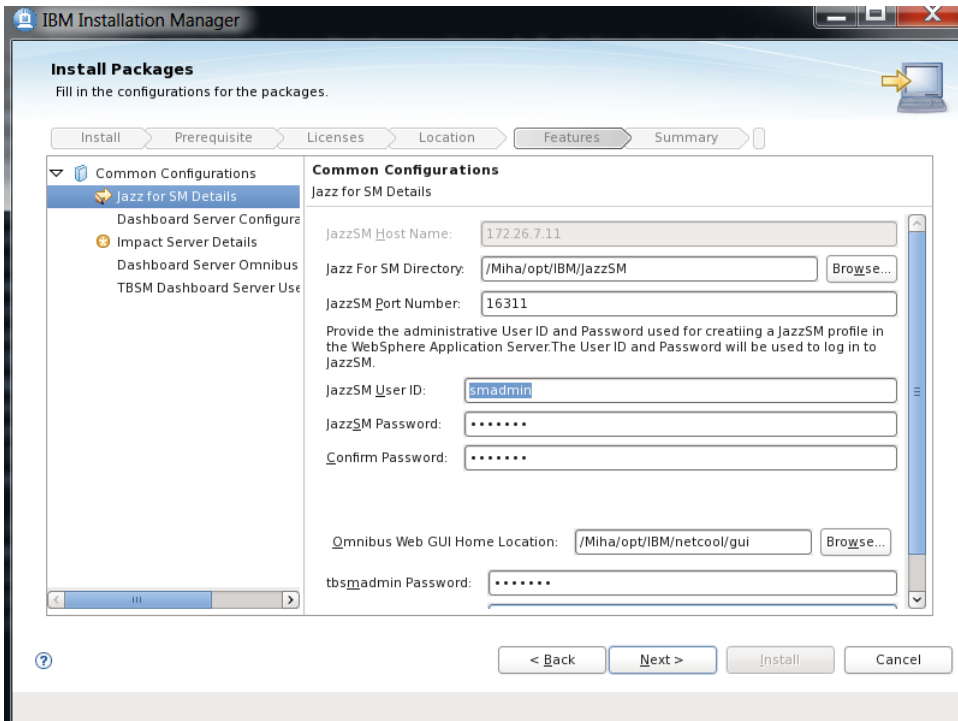


The screenshot shows the 'Install Packages' window in IBM Installation Manager. The 'Location' tab is selected. The 'Create a new package group' radio button is chosen. A table lists the package group 'IBM Tivoli Business Service Manager_1' with its installation directory '/Miha/opt/IBM/tivoli/tbsmdash' and architecture '64-bit'. Below the table, the 'Package Group Name' is 'IBM Tivoli Business Service Manager_1' and the 'Installation Directory' is '/Miha/opt/IBM/tivoli/tbsmdash'. The 'Architecture Selection' is '64-bit'. The 'Details' section shows the 'Shared Resources Directory' as '/Miha/opt/IBM/IBMIMShared'. The 'Disk Space Information' table shows the volume '/' has 28.58 GB available space. Navigation buttons at the bottom include '< Back', 'Next >', 'Install', and 'Cancel'.

| Package Group Name | Installation Directory | Architecture |
|---------------------------------------|-------------------------------|--------------|
| IBM Tivoli Business Service Manager_1 | /Miha/opt/IBM/tivoli/tbsmdash | 64-bit |

| Volume | Available Space |
|--------|-----------------|
| / | 28.58 GB |

- enter Jazz SM and WebGUI details:



The screenshot shows the 'Install Packages' window in IBM Installation Manager, with the 'Features' tab selected. The 'Common Configurations' section is expanded, showing 'Jazz for SM Details'. The 'JazzSM Host Name' is '172.26.7.11'. The 'Jazz For SM Directory' is '/Miha/opt/IBM/JazzSM'. The 'JazzSM Port Number' is '16311'. The 'JazzSM User ID' is 'smadmin'. The 'JazzSM Password' and 'Confirm Password' fields are masked with dots. The 'Omnibus Web GUI Home Location' is '/Miha/opt/IBM/netcool/gui'. The 'tbsmadmin Password' field is also masked. Navigation buttons at the bottom include '< Back', 'Next >', 'Install', and 'Cancel'.

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

The screenshot shows the 'Install Packages' window in IBM Installation Manager. The 'Common Configurations' section is expanded, and 'Dashboard Server Configuration' is selected. The 'Dashboard Server Communication Port' is set to 17543. The 'Next >' button is highlighted.

IBM Installation Manager

Install Packages
Fill in the configurations for the packages.

Install > Prerequisite > Licenses > Location > **Features** > Summary

Common Configurations
Dashboard Server Configuration

Dashboard Server Communication Port: 17543

< Back Next > Install Cancel

- enter impact server details:

The screenshot shows the 'Install Packages' window in IBM Installation Manager. The 'Common Configurations' section is expanded, and 'Impact Server Details' is selected. The 'Impact Host Name' is 172.26.7.11, 'Impact RMI Port' is 17542, 'Impact HTTP Port' is 9080, 'Impact HTTPS Port' is 9081, 'Impact GUI HTTP Port' is 17310, 'Impact GUI HTTPS Port' is 17311, 'Impact User' is impactadmin, 'Impact Password' is masked with dots, and 'Impact Confirm Password' is also masked with dots. The 'Data Server HA/FO Configured' checkbox is unchecked. The 'Next >' button is highlighted.

IBM Installation Manager

Install Packages
Fill in the configurations for the packages.

Install > Prerequisite > Licenses > Location > **Features** > Summary

Common Configurations
Impact Server Details

Impact Host Name: 172.26.7.11
Impact RMI Port: 17542
Impact HTTP Port: 9080
Impact HTTPS Port: 9081
Impact GUI HTTP Port: 17310
Impact GUI HTTPS Port: 17311
Impact User: impactadmin
Impact Password:
Impact Confirm Password:
☐ Data Server HA/FO Configured

< Back Next > Install Cancel

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

IBM Installation Manager

Install Packages
Fill in the configurations for the packages.

Install > Prerequisite > Licenses > Location > **Features** > Summary

Common Configurations

- ☒ Jazz for SM Details
- ☒ Dashboard Server Configuration
- ☒ Impact Server Details
- ☒ **Dashboard Server Omnibus**
- TBSM Dashboard Server User Registry Details

Common Configurations
Dashboard Server Omnibus Details

TBSM will need an event source. By default, it will connect to Netcool/OMNIBUS. Other types of event sources require manual configuration. Please enter the Host and Port for your Netcool/OMNIBUS server.

ObjectServer Host: 172.26.7.11

ObjectServer Port: 4100

ObjectServer User: root

ObjectServer Password:

Confirmation Password:

< Back Next > Install Cancel

- 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:

IBM Installation Manager

Install Packages
Fill in the configurations for the packages.

Install > Prerequisite > Licenses > Location > **Features** > Summary

Common Configurations

- ☒ Jazz for SM Details
- ☒ Dashboard Server Configuration
- ☒ Impact Server Details
- ☒ Dashboard Server Omnibus
- ☒ **TBSM Dashboard Server User Registry Details**

Common Configurations
TBSM Dashboard Server User Registry Details

☐ File Based
☒ **Object Server**
☐ LDAP Server

User Registry Object Server Details

ObjectServer Host Name: 172.26.7.11

ObjectServer Port Number: 4100

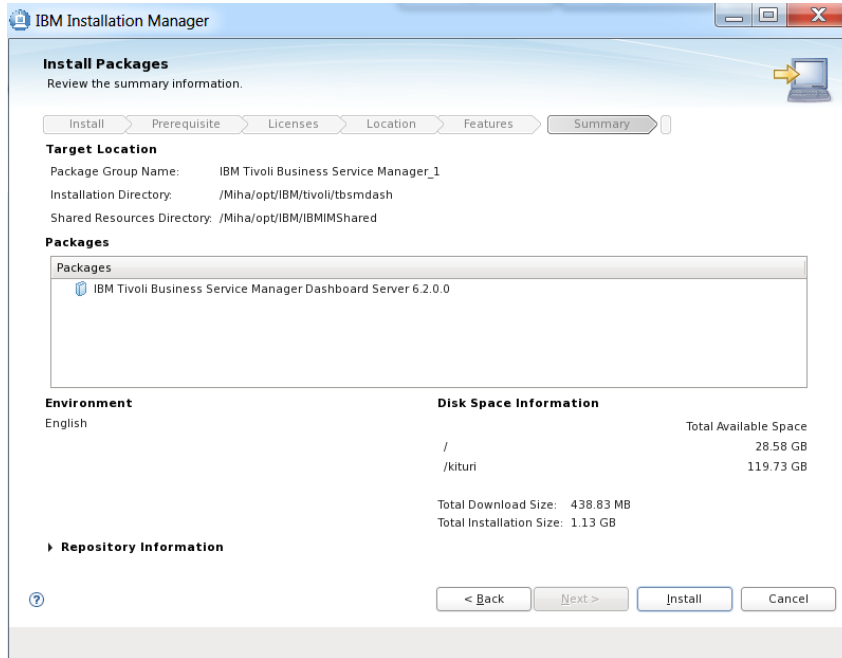
ObjectServer UserID: root

ObjectServer User Password:

Confirm Password:

< Back Next > Install Cancel

- continue with the installation:



✓ The packages are installed. [View Log file](#)

The following package was installed:



- screenshot example from gui console:

