# **TBSM 6.2 Failover Guide**

# A step by step example

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### Software prerequisite

TBSM 6.2 requires the following **minimum** version of each product. They need to be installed separately as they are not part of the TBSM package.

- 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

Within this guide the following version were used:

- 1. Installation Manager 1.8.9
- 2. IBM DB2 Workgroup Server Edition 11.1.2.2
- 3. IBM Tivoli Netcool/Omnibus v8.1.0.18
- 4. IBM WebSphere Application Server Version 8.5.5 Fix Pack 13
- 5. Jazz for Service Management 1.1.3 Fix Pack 2
- 6. IBM JAVA 8.0.5.6.
- 7. IBM Tivoli Netcool/Omnibus 8.1.0.4-webgui Fix Pack 15
- 8. IBM Tivoli Netcool/Impact 7.1 Fix Pack 15

#### 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 /etc/hosts file should be configured accordingly.

Entry example: IP-address FQDN Hostname-short name 172.20.20.12 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 and TBSM\_B for secondary and cluster name should be 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 Object Server.

- 6. Waapi should be setup for WebGUI prior to TBSM installation and also a datasource should be defined within it.
- 7. If an existing Omnibus installation is being used, then a new object server needs to be created if the existing one is used by another TBSM installation. If an old TBSM server is reading events from an object server, the new server cannot read them also, hence, a new object server is needed to be used for TBSM 6.2.
- 8. TBSM 6.2 should not be installed on a server where there is already another TBSM installation.

This guide has the purpose to illustrate a complete step by step example for a failover TBSM 6.2 installation.

All the TBSM prerequisites and components were installed as follows:

- On server 1: Installation Manager, Omnibus, Netcool/Impact Primary, TBSM Primary Data Server
- On server 2: Installation Manager, Netcool/Impact Secondary, TBSM Secondary Data Server
- On server 3: Installation Manager, DB2, TBSM Database Configuration Utility, WAS, JazzSM/DASH, WebGUI, TBSM Dashboard Server

#### Configurations that need attention for failover:

- 1. Netcool/Impact servers should be configured from the beginning as an Impact cluster, prior to any TBSM component installation process to begin.
- 2. While installing TBSM Primary data server, the secondary impact instance should be stopped.
- 3. While installing TBSM Secondary data server, the primary impact instance should be up and running.
- 4. During the TBSM Secondary installation process the Designated Backup option should be checked.
- 5. During the TBSM Dash installation process the HA/FO option should be checked.

#### Other references:

Complete official documentation guide: <u>https://www.ibm.com/support/knowledgecenter/SSSPFK\_6.2.0/com.ibm.tivoli.itbsm.doc/installa</u>tion\_guide.pdf

Installation example with everything installed and configured on one server: https://www.ibm.com/developerworks/community/blogs/7d5ebce8-2dd8-449c-a58e-4676134e3eb8/entry/TBSM\_6\_2\_Installation\_Step\_by\_step\_example\_with\_all\_the\_prerequisite s\_installation\_and\_configuration\_steps?lang=en\_us

Installation example with everything installed and configured on two servers: https://www.ibm.com/developerworks/community/blogs/cdd16df5-7bb8-4ef1-bcb9cefb1dd40581/entry/TBSM\_6\_2\_Split\_Installation\_Guide\_Step\_by\_step\_example\_with\_all\_the \_prerequisites\_installation\_and\_configuration\_steps?lang=en\_us

Installation example with everything installed and configured on two servers including SSO configuration between DASH and Impact: https://www.ibm.com/developerworks/community/blogs/cdd16df5-7bb8-4ef1-bcb9-

<u>cefb1dd40581/entry/TBSM\_6\_2\_Installation\_Guide\_Step\_by\_step\_example\_with\_all\_the\_prere</u> <u>quisites\_installation\_and\_configuration\_steps\_including\_SSO\_configuration\_between\_DASH\_a</u> <u>nd\_Impact?lang=en</u>

### Setting up the server for TBSM Primary Data Server (server 1)

#### Install or upgrade to Installation Manager 1.8.9

If Installation Manager is not installed on the server, you have the option to either install it along with Omnibus core installation as this one will automatically install IM if it detects that it doesn't exists, or you can manually install it after downloading IM package. If IM is installed on the server and you have an older version, you can try to upgrade it to the latest version which is 1.8.9.

#### Option A: Manually download and install IM 1.8.9

Download link: <u>https://www-</u> 945.ibm.com/support/fixcentral/swg/selectFixes?parent=ibm%7ERational&product=ibm/Rational/IBM+Installation +Manager&release=1.8.9.0&platform=Linux&function=all&useReleaseAsTarget=true

refresh pack: → <u>1.8.9.0-IBMIM-LINUX-X86-20180313</u> 1417 2018/03/23 IBM Installation Manager Install Kit for all x86 Linux versions supported by version 1.8.9.0

- extract IM 1.8.9 package, go to the extracted directory and run ./install :

[root@crybaby1 securit	ty]# cd /Miha/tm	MI			
[root@crybaby1 tmpIM]	‡ ls				
con-disk-set-inst.sh	groupinstc.ini	install.ini	Offerings	repository.xml	userinstc.ini
configuration	groupinst.ini	install.xml		silent-install.ini	userinst.ini
documentation	install				user-silent-install.ini
groupinst	installc		readme.html	userinst	
groupinstc	installc.ini		repository.config	userinstc	

Option B: Install IM along with OMNIbus

- go the directory where you have extracted omnibus 8.1.0.5 core and run ./install\_gui.sh script:



You will get the option to install IM as well:

Select packages to install:		
Installation Packages	Status	Vendor
▼ 📝 🗊 IBM® Installation Manager		
🖌 🗓 Version 1.8.3	Will be installed	IBM
🔻 📝 🧊 IBM Tivoli Netcool/OMNIbus		
Version 8.1.0.5	Will be installed	IBM

**Option C:** If IM is already installed or you have selected option B previously you can try to upgrade to the latest version.

- one solution for this would be to use the service repositories feature from the already installed IM. Run ./IBMIM script -> go to File > Preferences.
- on the Repositories tab, select Search service repositories during installation and updates.

Service repositories are remote locations where updates or extensions to packages (including the Installation Manager itself) are stored.
Service repositories during installation and updates.

- then click Updates and select the Search for Installation Manager updates option.

Preferences	×
type filter text	Updates 🗢 🔹 🔹 👻
Repositories Appearance Files for Rollback Help Internet Passport Advantage Secure Storage Updates	The Installation Manager can optionally search for updates to itself whenever any of the following pages are opened from the Start page Install Packages Modify Packages Update Packages And when clicking the " <u>C</u> heck for Other Versions, Fixes, and Extensions" button on the "Install Packages" page.

- click OK to close the Preferences page and afterwards click one of these wizards: Install or Update.

Installation Manager searches for updates to itself and you will be prompted to update Installation Manager; click yes to proceed with the upgrade:



#### Install Omnibus 8.1.0.5 core and upgrade to Fix Pack 18

- Extract the downloaded package for 8.1.0.5 and for Fix Pack 18 as well:

Download link for Omnibus 8.1 Fix pack 18: https://www-01.ibm.com/support/docview.wss?uid=ibm10733443

- Add both repositories (for core and fix pack) to installation manager -> preferences panel:

for omnibus core location path should be: <extracted\_core\_path>/<OS>/OMNIbusRepository/repository.config

Repository.

for omnibus fix pack 18 the below 2 repositories files should be added: <extracted\_fixpack\_path>/OMNIbusRepository/5.50.81.delta.core/repository.config < extracted\_fixpack\_path>/OMNIbusRepository/5.50.81.servicedelta.core/repository.config

Repository.	
/Miha/tmp0mniFP18/0MNIbusRepository/5.50.81.delta.core/repository.config	
Repository.	
/Miha/tmp0mniFP18/0MNIbusRepository/5.50.81.servicedelta.core/repository.config	

By adding all 3 repositories omnibus can be directly installed as 8.1.0.18.:

/mnt/images/ibm/netcool/omnibus\_core/8.1.0.5/linux\_x86\_64/OMNIbusRepository/repository.config

- /Miha/tmpOmniFP18/OMNIbusRepository/5.50.81. delta.core/repository.config
- 🖌 /Miha/tmp0mniFP18/0MNIbusRepository/5.50.81. servicedelta. core/repository. config
  - After configuring the repository section, select "Install" option from IM main menu and check the product to be installed:

In shall De ales and			_
Install Packages			
Select packages to install:			-M
			1
Installation Packages	Status	Vendor	r
Installation Packages	Status	Vendor	r
Installation Packages	Status Will be installed	Vendor	r

- enter the location path for the shared resources directory and continue with the installation:



- enter the installation directory path for Omnibus 8.1.0.18 if the default one needs to be changed and click "Next" to continue with the installation process:

Install Licenses Location	Features Summary	
Use the existing package group		
Create a new package group		
Package Group Name	Installation Directory	Archite
IBM Netcool Core Components	/Miha/opt/IBM/tivoli/netcool	64-bit
Installation Directory. //Miha/opt/IBM/tivoli/netcool		Browse
Installation Directory. //Miha/opt/IBM/tivoli/netcool		Browse
Installation Directory: //Miha/opt/IBM/tivol/netcool Architecture Selection: 32-bit (8) 64-bit		Browse
Installation Directory: [/Miha/opt/IBM/tivoli/netcool Architecture Selection: 32-bit () 64-bit Details	Disk Space Information	Browse
Installation Directory: //Miha/opt/IBM/tivoli/netcool Architecture Selection: 32-bit  64-bit Details Shared Resources Directory: /Miha/opt/IBM/IBMIMShared	Disk Space Information ed Volume Available Space	Browse
Installation Directory: //Miha/opt/IBM/tivoli/netcool Architecture Selection: 32-bit () 64-bit Details Shared Resources Directory: /Miha/opt/IBM/IBMIMShare	Disk Space Information ed Volume Available Space / 226.34 GB	Browse
Installation Directory: //Miha/opt/IBM/tivoli/netcool Architecture Selection: 32-bit (64-bit Details Shared Resources Directory: //Miha/opt/IBM/IBMIMShare	Disk Space Information ed Volume Available Space / 225.34 GB	Browse

- select the features to be installed (by default all are selected):

Install Packages Select the features to install.			
		T	
Install Licenses Location Features Summary			
Features		_	
V II IBM Tivoli Netcool/OMNibus 8.1.0.18			
Administrator components			
Constants			
Operator GIII			
ObjectServer			
ObjectServer gateways			
Bridge server			
Descenter and the second secon			
Show dependencies Expand All Collapse J	All Resto	ore Default	
g- Selected by Installation Manager because of dependencies			
Details IBM Tivoli Netcool/OMNIbus 8.1.0.18 IBM Tivoli Netcool/OMNIbus			
Back Next >	Install	c	ancel

- you can select to migrate data from another omnibus install or you can do this post install if needed:

ate data	
Migrate data from another Netcool/OMNIbus installation	
nter or select a migration source (an existing Netcool/OMNIbus installation directory):	
	Bro <u>w</u> se
igration information	
Source directory:	
Target directory: /Miha/opt/IBM/tivoli(netcool	
Migration log file: /Miha/opt/IBM/tivol/netcool/omnibus/log/migrate.log	

- select the Install option for the installation process to begin:

IBM Installation Manager		-		×
Install Packages				_
Review the summary information.			7	-
Install Licenses Location Features	Summary			
Target Location				
Package Group Name: IBM Netcool Core Components				
Installation Directory: /Miha/opt/IBM/tivoli/netcool				
Shared Resources Directory. /Miha/opt/IBM/IBMIMShared				
Packages				
Packages				
Environment	Disk Space Information			
English		Total Av	ailable Spa	e
	1		226.35 G	в
	Total Download Size: 451.1	2 MB		
	Total Installation Size: 1.15	GB		
<ul> <li>Repository Information</li> </ul>				
0	< Back Next >	Install	Car	ncel

- make sure the installation went fine and afterwards you can create and configure your object server either by using the Netcool/OMNIbus Initial Configuration Wizard option that is available at the end of the installation, either by manually running the commands to create and configure a new object server after the installation:

Install Packages		-	
The	packages are installed. <u>View Log File</u>		
The following package was installed:	Which program do you want to start?		
💌 🎭 IBM Netcool Core Components	11.0.18 Netcool/OMNIbus Initial Configuration Wizard		
Note: If the packages support rollback, the can delete the files on the <u>Files for rollback</u> ; p	temporary directory contains rollback files for installed packages. Yo preference page.		
)	[	Finis	h

#### Configure Omnibus 8.1.0.18

#### **Option A:**

If you have selected None when the Omnibus installation finished, you will need to manually create and configure an object server.

- some environment variables can be setup to easy navigate between directories:

```
export NCHOME=/Miha/opt/IBM/tivoli/netcool
export OMNIHOME=/Miha/opt/IBM/tivoli/netcool/omnibus
```

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

cd \$OMNIHOME/bin ./nco\_dbinit -server NCOMS

Command example:

[root@crybaby1 bin]# ./nco dbinit -server NCOMS

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

cd \$NCHOME/etc vi omni.dat

```
# omni.dat file as prototype for interfaces file
#
Ident: $Id: omni.dat 1.5 1999/07/13 09:34:20 chris Development $
#
[NCOMS]
{
    Primary: crybaby1.castle.fyre.ibm.com 4100
}
[NCO_GATE]
{
    Primary: crybaby1.castle.fyre.ibm.com 4300
}
[NCO_PA]
{
    Primary: crybaby1.castle.fyre.ibm.com 4200
}
[NCO_PROXY]
{
    Primary: crybaby1.castle.fyre.ibm.com 4400
}
```

- run ./nco\_igen script for the changes to be saved and start the object server afterwards:

cd \$NCHOME/bin ./nco\_igen

[root@crybaby1 bin]# /Miha/opt/IBM/tivoli/netcool/bin/nco\_igen

cd \$NCHOME/bin ./nco\_objserv -name NCOMS &

```
[root@crybaby1 bin]# cd /Miha/opt/IBM/tivoli/netcool/omnibus/bin/
[root@crybaby1 bin]# ./nco_objserv -name NCOMS &
```

Check to see if the object server is up and running:

```
[root@tother1 security]# ps -ef|grep nco
root 18328 5731 0 02:03 pts/0 00:00:00 grep --color=auto nco
root 19981 5731 0 Jan14 pts/0 00:03:39 /Miha/opt/IBM/tivoli/netcool/omnibus/platform/linux2x86/bin64/nco objserv -name NCOMS
```

#### **Option B**

You can select "Netcool/OMNIbus Initial Configuration Wizard" to configure your object server. Enter the hostname details and installation path for Omnibus and continue with the wizard steps:



A Netcool/OMNIbus Initial Configuration Wizard	_		Х	🖉 Netcool/OMNIbus Initial Configuration Wizard 🛛 – 🔲 🗙
Initial Configuration Wizard The wizard will guide you through creating your configuration for your Tivol environment. The configuration is saved to a file called the deployment descriptor that yo computer where this wizard is installed. You can configure a distributed deployment now and assign each component When you apply the deployment descriptor on each computer, only compu- for that computer will be configured there. Before you start, assess your requirements and plan your deployment. You the following information: • The number of Collection and Display layer ObjectServers required, if an • Details of the computers that will host each component • Process Agent details for each computer • Aggregation layer ObjectServer details • Collection layer ObjectServer details • Collection layer ObjectServer details (optional) • Display layer ObjectServer details (optional)	Netcool/Ol u can app! nt to a spe nents that u will be as	MNIbus ly on any ecfic com t are inter sked to pr	uputer. nded	Define host computers         In a typical configuration, most of the components are installed on separate computers. For each directory.         Enter a host name. To ensure that all computers in your deployment recognize each other, use fully qualified domain names (FQDN) such as myhost example.com.         * Host         Enter the Tivoli Netcool/OMNIbus installation directory. The installation directory is typically defined by the NCHOME environment variable.         * NCHOME

After having the object server properly configured and running, to prepare for Impact 7.1 installation, add **impactadmin** user within object, add its password and assign groups to this user:

cd \$OMNIHOME/bin ./nco\_config

[root@tother1 bin]# /Miha/opt/IBM/tivoli/netcool/omnibus/bin/nco config

Go to User tab -> right click and select "Add User" option:

_				Add User (NCOMS on tother1.castle.fyre.ibm.com:4100)	Х
Б				• User Details	?
Н	Configuration of	NCOMS on tother	r1.castle.fyre.ibm.c		
P	▼ 1 <sup>1</sup> ) User	• Users		Username: impactadmin User ID: 1	
1	A .	Name	Full Nan	n Full Name: 🛛 🗹 Create Conversion	
H	u u	👔 nobody	Nobody		
ш	lisers	🔋 root	Root User	Groups Restriction Filters Settings	
ш				Passwords	
Ш	<b>1</b>			Descenard:	on 📗
ш	<b>1 1 1</b>				
Ш	Groups			Verify: ****** Change	
П	1 1			User Type: Super User 🗹 User Enabled	
Ч	<b>99</b>				

#### Install Primary Netcool/Impact 7.1.0.14 and upgrade to Fix Pack 15

- download and extract Impact 7.1.0.14 and Fix Pack 15 for Impact

Download link for Fix Pack 15: https://www-01.ibm.com/support/docview.wss?uid=ibm10739521

- add both the repository from Impact 7.1.0.14 base as well as the repositories from Impact Fix Pack 15 within Installation Manager -> Preferences panel:

<extracted\_path\_for\_impact71014>/ImpactRepository/disk1/diskTag.inf <extracted\_path\_for\_impactFP15>/ImpactRepository/repository.config



Add the ones from the NOI extension as well if needed.

- select "Install" from IM main menu and check both GUI and Server options for Impact 7.1.0.15 to be installed:

IBM Installation Manager		_	
Install Packages			
Select packages to install:			7
Installation Packages	Status	Vendor	
👻 📝 📋 IBM Tivoli Netcool/Impact GUI Server			
🕑 🙀 Version 7.1.0.15	Will be installed	IBM	
👻 📝 🎁 IBM Tivoli Netcool/Impact Server			
🗹 🕅 Version 7.1.0.15	Will be installed	IBM	
		Check for (	Other Ve
Show all versions		Check for 0	Other Ver
Show <u>a</u> ll versions Details		Check for (	Other Ver
Show <u>a</u> ll versions Details IBM Tivoli Netcool/Impact Server 7.1.0.15		Check for (	Other Ver
Show <u>all versions</u> Details IBM Tivoli Netcool/Impact Server 7.1.0.15 The Impact Server is responsible for managing the data mode	I, running services, and policies that	Check for (	Other Ver
Show <u>all versions</u> Details IBM Tivoli Netcool/Impact Server 7.1.0.15 The Impact Server is responsible for managing the data mode Impact Server runs the policies in real time, in response to ev Repository. (MhaltmpimpactPS)SInpacRepository	I, running services, and policies that ints that occur in your environment.	<u>C</u> heck for ( make up your Netco <u>More info</u>	Other Ver
Show <u>all versions</u> Details IBM Tivoli Netcool/Impact Server 7.1.0.15 The Impact Server is responsible for managing the data mode Impact Server runs the policies in real time, in response to ev • Repository: //Miha/tmpImpactFP15/ImpactRepository	I, running services, and policies that ants that occur in your environment.	<u>C</u> heck for ( make up your Netco <u>More info</u>	Other Ver
Show <u>all versions</u> Details IBM Tivoli Netcool/Impact Server 7.1.0.15 The Impact Server is responsible for managing the data mode Impact Server runs the policies in real time, in response to ev • Repository: //Miha/tmpImpactFP15/ImpactRepository	I, running services, and policies that ants that occur in your environment.	<u>C</u> heck for ( make up your Netco <u>More info</u>	Other Ver
Show <u>all versions</u> Details IBM Tivoli Netcool/Impact Server 7.1.0.15 The Impact Server is responsible for managing the data mode Impact Server runs the policies in real time, in response to ev • Repository: //Miha/tmpImpactFP15/ImpactRepository	Il, running services, and policies that ants that occur in your environment.	Check for ( make up your Netco More info	Other Ver
Show <u>all versions</u> Details IBM Tivoli Netcool/Impact Server 7.1.0.15 The Impact Server is responsible for managing the data mode Impact Server runs the policies in real time, in response to ev Repository: //Miha/tmpImpactFP15/ImpactRepository	I, running services, and policies that ents that occur in your environment. ≤ Back Next >	Check for ( make up your Netco More info	Other Ver ool/Impac

- enter installation path directory for Impact 7.1.0.15 and continue with the installation:

Installation Directory	Archited
/Miha/opt/IBM/tivoli/impact	64-bit
Disk Space Informatio	n
hared	
	5.4.6
Volume Available Sp	ace
	Installation Directory /Miha/opt/IBM/tivoli/impact

- 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

Install _ Licenses _ Loca	tion Features Summa	ry
Common Configurations	Common Configurations User Registry	
User ID and Password Profile Ports Nameserver IBM Tivoli Netcool/Impact Server 7 Impact Server Derby Database	Select the user registry to use for use ObjectServer ObjectServer with SSL LDAP LDAP LOAP with SSL Local File Based OMNIbus ObjectServer	r management and authentication.
	ObjectServer must be configured an	crybaby1.castle.fyre.ibm.com
	Primary Port Backup Host (Optional)	4100
	Backup Port (Optional)	
	Super or Administrator User ID	root

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

IBM Installation Manager	_		
Install Packages Fill in the configurations for the packages.		-	
Install Licenses Loca      Common Configurations     User Registry      Server Se	Common Configurations User ID and Password Provide an administrative user ID and password for Impact		
Profile Ports Nameserver IBM Tivoli Netcool/Impact Server 7 Impact Server Derby Database	Impact User ID impactadmin Impact Password (Minimum 6 characters)		
	Confirm Impact Password		]
D	< Back Next > Install	Car	ncel

- enter port numbers for Impact Server and GUI Server

BM Installation Manager	- 0
Install Packages Fill in the configurations for the packages.	
Install Licenses Locat Common Configurations User Registry User ID and Password Profile Ports	ion Features Summary Common Configurations Profile Ports Impact requires a range of ports to run. Specify the starting port of the range.
Nameserver ▼ (ĵ) IBM Tivoli Netcool/Impact Server 7 Impact Server Derby Database	Starting port number for Impact Server 9080 Starting port number for GUI Server 16310
0	< Back Next > Install Cance

- make sure you use FQDN address; add both the primary and secondary servers' details for cluster configuration;

<ul> <li>Common Configurations</li> <li>User Registry</li> <li>User ID and Password</li> </ul>	Common Configurations Nameserver
User ID and Password	
	Nameserver
Profile Ports	The installed server uses the Impact Nameserver to publish its services.
In Nameserver	same on each impact server so that each Nameserver list must be the
IBM Tivoli Netcool/Impact Serve	r 7
Impact Server	
Derby Database	Primary Nameserver Host crybabyl.castle.fyre.ibm.com
	Primary Nameserver Port 9080
	Secondary Nameserver Host codding1.castle.fyre.ibm.com Secondary Nameserver Port 9080
	Local Host Specify a fully qualified local host name. A fully qualified local host name is required to create server certificate. Local Host crybaby1.castle.fyre.ibm.com

- Impact server name should be **TBSM** and cluster name should be **TBSMCLUSTER**:

Install Packages	-5
Install Licenses Locat	ion Features Summary
<ul> <li>Common Configurations</li> <li>User Registry</li> </ul>	Configuration for IBM Tivoli Netcool/Impact Server 7.1.0.15 Impact Server
<ul> <li>User ID and Password</li> <li>Profile Ports</li> <li>Nameserver</li> </ul>	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 it's command line service.
▼	Instance Name
😴 Impact Server	TBSM
	TBSMCLUSTER Command Line Port 2000
	< Back Next > Install Can

- select derby type – the option "Primary – database on this machine" should be used in this case and enter host name and port details for both primary and secondary servers:

	nstall / Licenses / Loca	tion Features Summary
Ű	Common Configurations	Configuration for IBM Tivoli Netcool/Impact Server 7.1.0.14 Derby Database
	💟 User ID and Password	PrimaryStandAlone - An Impact Server with no other cluster members.
	Profile Ports Nameserver	Primary - Database on this machine which also functions in a clustered
- 11	IBM Tivoli Netcool/Impact Server 7	Backup - Database on this machine which also functions in a clustered e
	Impact Server	Neither - A cluster member which will point to a Primary and Backup Da
	V Peroy Buttoost	Derby Primary Host crybaby1.castle.fyre.ibm.com Derby Primary Port 1527 Derby Backup Host
		codding1.castle.fyre.ibm.com
		1527
		Dadu Basiatin Bat
		4851

- you can safely ignore the pop-up that will appear stating that it cannot connect to the secondary server:



- continue with the Installation:

Install Packages				_1	
Review the summary informa	ation.			-	1
Install Licenses	Location Features	Summary			
Target Location					
Package Group Name:	IBM Tivoli Netcool Impact				
Installation Directory.	/Miha/opt/IBM/tivoli/impact				
Shared Resources Directory	/Miba/opt/IBM/IBMIMSbared				
Packages					
Packages					
👔 IBM Tivoli Netcool/In	npact GUI Server 7.1.0.15				
Environment		Disk Space Information			
Environment English		Disk Space Information	Total Av	ailable Spa	ace
Environment English		Disk Space Information	Total Av	ailable Spa 221.41 (	ace GB
Environment English		Disk Space Information / Total Download Size: 591.61	Total Av	ailable Spa 221.41 (	ace GB
Environment English		Disk Space Information / Total Download Size: 591.61 Total Installation Size: 1.83 GB	Total Av MB	ailable Spa 221.41 (	ace GB
Environment English • Repository Information		Disk Space Information / Total Download Size: 591.61 Total Installation Size: 1.83 GB	Total Av MB	ailable Spa 221.41 (	ace GB

- make sure your installation finish with success:

$\checkmark$	The packages are installed. <u>View Log File</u>
Multiple in IMPACI contacted IMPACI this could be activa	nformations are generated. IIN0185W The Nameserver Host could not be d on codding1.castle.fyre.ibm.com:9080. IIN0236I The Derby Backup Port is not active I mean the Derby Backup database needs to ted. installation will continue.
The follow	ving packages were installed:

## Setting up the server for TBSM Secondary Data Server (server 2)

#### Install or upgrade to Installation Manager 1.8.9

If Installation Manager is not installed on the server, you have the option to manually install it after downloading IM package. If IM is installed on the server and you have an older version, you can try to upgrade it to the latest version which is 1.8.9.

Option A: Manually download and install IM 1.8.9

Download link: <u>https://www-</u> 945.ibm.com/support/fixcentral/swg/selectFixes?parent=ibm%7ERational&product=ibm/Rational/IBM+Installation +Manager&release=1.8.9.0&platform=Linux&function=all&useReleaseAsTarget=true

refresh pack: → <u>1.8.9.0-IBMIM-LINUX-X86-20180313</u> 1417	2018/03/23
IBM Installation Manager Install Kit for all x86 Linux versions supported by version 1.8.9.0	
IBM Installation Manager Install Kit for all x86 Linux versions supported by version 1.8.9.0	,,

- extract IM 1.8.9 package, go to the extracted directory and run ./install :

[root@codding1 tmpIM]	# ls		
con-disk-set-inst.sh	groupinst.ini	readme.html	userinstc
configuration	install	repository.config	userinstc.ini
documentation	installc	repository.xml	userinst.ini
groupinst	installc.ini	silent-install.ini	user-silent-install.ini
groupinstc	install.ini		
groupinstc.ini	install.xml	userinst	

**Option B:** If IM is already installed or you have selected option B previously you can try to upgrade to the latest version.

- one solution for this would be to use the service repositories feature from the already installed IM. Run ./IBMIM script -> go to File > Preferences.
- on the Repositories tab, select Search service repositories during installation and updates.

Service repositories are remote locations where updates or extensions to packages (including the Installation Manager itself) are store	d.
Search service repositories during installation and updates.	

- then click Updates and select the Search for Installation Manager updates option.

🕑 F	Preferences	×
ty	/pe filter text	Updates 🗘 🔻 🔿 👻 🗸
*	Repositories Appearance Files for Rollback Help Internet Passport Advantage Secure Storage Updates	The Installation Manager can optionally search for updates to itself whenever any of the following pages are opened from the Start page Install Packages Update Packages Update Packages And when clicking the " <u>C</u> heck for Other Versions, Fixes, and Extensions" button on the "Install Packages" page. Search for Installation Manager updates

- click OK to close the Preferences page and afterwards click one of these wizards: Install or Update. Installation Manager searches for updates to itself and you will be prompted to update Installation Manager; click yes to proceed with the upgrade:

🕑 IBM Ins	tallation Manager			×
1	A new version of IBM Install the Installation Manager you require the new version of t Do you want to update the	ation Manager is av u will not be allowed he Installation Manage Installation Manage	vailable. If you do no I to install some pao ager. r?	ot update kages that
		No	Details >>	Yes
🙆 Resta	rt Installation Manager			>
8	Installation Manager ha Click OK to restart it.	as been updated	to version: 1.8.9.	2
				ок

#### Install Secondary Netcool/Impact 7.1.0.14 and upgrade to Fix Pack 15

- download and extract Impact 7.1.0.14 and Fix Pack 15 for Impact

Download link for Fix Pack 15: https://www-01.ibm.com/support/docview.wss?uid=ibm10739521

- add both the repository from Impact 7.1.0.14 base as well as the repositories from Impact Fix Pack 15 within Installation Manager -> Preferences panel:

<extracted\_path\_for\_impact71014>/ImpactRepository/disk1/diskTag.inf <extracted\_path\_for\_impactFP15>/ImpactRepository/repository.config

/Miha/tmpImp/ImpactRepository/disk1/diskTag.inf
/Miha/tmpImpactFP15/ImpactRepository/repository.config

Add the ones from the NOI extension as well if needed.

Stop primary Impact server before proceeding with the secondary server installation.



- select "Install" from IM main menu and check both GUI and Server options for Impact 7.1.0.15 to be installed:

Select packages to install		7
Installation Packages	Status	Vendor
<ul> <li>IBM Tivoli Netcool(Impact GUI Server</li> <li>ID, Version 7.1.0.15</li> </ul>	Will be installed	IBM
<ul> <li>III III Tivisi Netcool/Impact Server</li> </ul>		
♥ □, Version 7.1.0.15	Will be installed	IBM
Show all variant		⊆heck for Other Ver

- enter installation path directory for Impact 7.1.0.15 and continue with the installation:

BM Installation Manager		- 🗆
Install Packages A package group is a location that contains one o common package group and will share a commo	or more packages. Some compatible packages can be ins on user interface. Select an existing package group, or cr	stalled into a
one. Install Licenses Location	Features Summary	
Use the existing package group		
<u>Create a new package group</u>		
Package Group Name	Installation Directory	Archited
🍾 IBM Tivoli Netcool Impact	/Miha/opt/IBM/tivoli/impact	64-bit
Package Group Name: IBM Tivoli Netcool Impac	ct	
Package Group Name: IBM Tivoli Netcool Impac Installation Directory. //Mihajopt/IBM/tivoli/im	ct	B <u>r</u> owse
Package Group Name: IBM Tivoli Netcool Impar Installation Directory. //Mihałopt/IBM/tivoli/im Architecture Selection: 32-bit () 64-bit	ct npact	Browse
Package Group Name: IBM Tivoli Netcool Impac Installation Directory. //Mihałopt/IBM/tivol/im Architecture Selection: 32-bit () 64-bit Details	ct npact : Disk Space Information	Browse
Package Group Name: IBM Tivoli Netcool Impac Installation Directory. //Mihałopt/IBM/tivol/im Architecture Selection: 32-bit () 64-bit Details Shared Resources Directory. /Miha/opt/IBM/IBM	ct npact : Disk Space Information IIMShared Volume Available Spac	Browse
Package Group Name: IBM Tivoli Netcool Impac Installation Directory. //Mihałopt/IBM/tivol/im Architecture Selection: 32-bit () 64-bit Details Shared Resources Directory: /Miha/opt/IBM/IBM	ct npact : IIMShared Volume Available Space / 221.42 GB	Browse
Package Group Name: IBM Tivoli Netcool Impac Installation Directory: //Mihałopt/IBM/tivoli/im Architecture Selection: 32-bit  64-bit Details Shared Resources Directory: /Miha/opt/IBM/IBM	ct npact : IIMShared Volume Available Space / 221.42 GB	Browse
Package Group Name: IBM Tivoli Netcool Impac Installation Directory: //Mihałopt/IBM/tivoli/im Architecture Selection: 32-bit  64-bit Details Shared Resources Directory: /Miha/opt/IBM/IBM	ct npact : IIMShared Volume Available Spac / 221.42.68	Browse

- 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

Install Licenses Loca	ation Features Summar	y O
Common Configurations	Common Configurations User Registry	
<ul> <li>User Registry</li> <li>User ID and Password</li> <li>Profile Ports</li> <li>Nameserver</li> <li>IBM Tivoli Netcool/Impact Server 7</li> <li>Impact Server</li> <li>Derby Database</li> </ul>	Select the user registry to use for user    ObjectServer   ObjectServer with SSL  LDAP  LDAP  LDAP with SSL  Local File Based  OMNIbus ObjectServer  The OMNIbus ObjectServer Super Us  ObjectServer must be configured and	r management and authentication.
	Primary Host	crybaby1.castle.fyre.ibm.com
	Primary Port	4100
	Backup Host (Optional)	
	Backup Port (Optional)	
	Super or Administrator User ID	root

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

IBM Installation Manager	-		
Install Packages Fill in the configurations for the packages Install Licenses Loca	ation Features Summary	4	
<ul> <li>Common Configurations</li> <li>User Registry</li> </ul>	Common Configurations User ID and Password		
<ul> <li>Wer ID and Password</li> <li>Profile Ports</li> <li>Nameserver</li> <li>♥ IBM Tivoli Netcool/Impact Server 7</li> <li>Impact Server</li> <li>Derby Database</li> </ul>	Provide an administrative user ID and password for Impact Impact User ID impactadmin Impact Password (Minimum 6 characters) Confirm Impact Password		
	1		
0	< Back Next > Install	Car	ncel

- enter port numbers for Impact Server and GUI Server

Fill in the configurations for the packages.	on Features Summary
Common Configurations     User Registry     User ID and Password	Common Configurations Profile Ports Impact requires a range of ports to run. Specify the starting port of the range
Nameserver () IBM Tivoli Netcool/Impact Server 7 Impact Server Derby Database	Starting port number for Impact Server 9080 Starting port number for GUI Server 16310

- make sure you use FQDN address; add both the primary and secondary servers' details for cluster configuration;

Common Configurations User Registry	Common Configurations Nameserver
User ID and Password	Nameserver
Profile Ports	The installed server uses the Impact Nameserver to publish its services. When Impact runs inside a cluster, the Impact Nameserver list must be the same on each Impact server so that each Nameserver can participate in cluster management.
Impact Server	Primary Nameserver Host crybaby1.castle.fyre.ibm.com
Derby Database	Primary Nameserver Port 5080
	Secondary Nameserver Host codding1.castle.fyre.ibm.com
	Secondary Nameserver Port 9080
	Local Host Specify a fully qualified local host name. A fully qualified local host name is required to create server certificate. Local Host codding1.castle.fyre.ibm.com

- Impact server name should be **TBSM\_B** and cluster name should be **TBSMCLUSTER**:

Install Licenses Loc	ation Features Summary
<ul> <li>Common Configurations</li> <li>User Registry</li> <li>User ID and Password</li> <li>Profile Ports</li> <li>Nameserver</li> <li>IBM Tivoli Netcool/Impact Server</li> <li>Derby Database</li> </ul>	Configuration for IBM Tivoli NetCool/Impact Server 7.1.0.14 Impact Server The instance name will act as a unique identifier for the server instance and the cluster name defines which duster the instance belongs to. The command line port is used by Impact for it's command line service. Instance Name  Cluster Name  TBSMCLUSTER  Command Line Port 2000

- select derby type – the option "Backup - database on this machine..." should be used in this case and enter host name and port details for both primary and secondary servers:

Install Packages Fill in the configurations for the packages. Install Licenses Locat	ion Features Summary
<ul> <li>♥ (i) Common Configurations</li> <li>♥ User Registry</li> <li>♥ User ID and Password</li> <li>♥ Profile Ports</li> <li>♥ Nameserver</li> <li>♥ (i) IBM Tivoli Netcool/Impact Server 7</li> <li>♥ Impact Server</li> </ul>	Configuration for IBM Tivoli Netcool/Impact Server 7.1.0.14 Derby Database Primary - Database on this machine which also functions in a clustered environment and no Backup - Database on this machine which also functions in a clustered environment and ne Neither - A cluster member which will point to a Primary and Backup Database.
🤯 Derby Database	Derby Primary Host crybaby1.castle.fyre.ibm.com Derby Primary Port 1527 Derby Backup Host codding1.castle fyre.ibm.com
	Derby Backup Port  1527  Derby Replication Port  4851
0	< <u>B</u> ack <u>N</u> ext > <u>Install</u> Cancel

- continue with the Installation:



- make sure your installation finish with success:

(	The packages are installed. <u>View Log File</u>
Multiple inform IMPACTIN01 crybaby1 castl IMPACTIN02 the Derby Prin continue.	nations are generated. 85W The Nameserver Host could not be contacted on e.fyre.ibm.com:9080. 35I The Derby Primary Port is not active, this could mean nary database needs to be activated, installation will
The following p	ackages were installed:

Start primary and secondary Impact server, test the failover and make sure everything works fine.

Cluster Status for TBSMCLUSTER	
Primary Server	Host
TBSM (Current Instance)	crybaby1.castle.fyre.ibm.com
Secondary Server	Host
TBSM_B	codding1.castle.fyre.ibm.com

## Setting up the server for TBSM Dash Server (server 3)

#### InstallInstallation Manager 1.8.9

Download link: <u>https://www-</u> 945.ibm.com/support/fixcentral/swg/selectFixes?parent=ibm%7ERational&product=ibm/Ration al/IBM+Installation+Manager&release=1.8.9.0&platform=Linux&function=all&useReleaseAsT arget=true

refresh pack:  $\rightarrow$  <u>1.8.9.0-IBMIM-LINUX-X86-20180313\_1417</u> IBM Installation Manager Install Kit for all x86 Linux versions supported by version 1.8.9.0 2018/03/23

extract IM 1.8.9 package, go to the extracted directory and run: ./install

[root@yobs1 tmpIM]# ./install

- select IBM Installation Manager Version 1.8.9 for this to be installed

nstall Packages Select packages to install:		4
Select packages to install:		1
		-
Installation Packages	Status	Vendor
Version 1.8.9	Will be installed	IBM

- select the directory where you want to install Installation Manager

Install Lie	tenses	Location	Summary	>0			
Once insta packages.	illed, IBM Installa	tion Manager will	be used to insta	all, update, m	odify, manage and u	ninstall y	/our
Installation Manager I	Directory: /Mił	a <b>j</b> 'opt/IBM/Installa	itionManager/e	lipse			Browse
Disk Space Inform	ation						
Volume	A	ailable Space					

- continue with the installation by selecting "next" and "install". Make sure everything worked fine, you should get "the packages are installed" message at the end:

Install Packages				C
Review the summary information.			4	1
Install Licenses Location S	ummary			
Target Location				
Package Group Name: IBM Installation Manager				
Installation Directory. /Miha/opt/IBM/InstallationManage	er/eclipse			
Packages				_
Environment	Disk Space Information			
Environment Arabic, Brazilian Portuguese, Croatian, Czech, Danieh, Duch, Ergish, Fnnish, French, German, Greek, Hebrew, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Russana, Simplified Chrinese, Koreak, Norwegian, Spanish, Swedish, Thai, Traditional Chinese, Turkish	Disk Space Information / Total Download Size: 171.53 Total Installation Size: 329.00	Total A L MB 5 MB	wailable Spa 234.59	ace
Environment Arabic, Brazilian Portuguese, Croatian, Czech, Danish, Dutch, English, Fnnish, French, German, Greek, Hebrew, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Russian, Simplified Chinase, Stovak, Slovenian, Spanish, Swedish, Thai, Tradicional Chinese, Turkish • Repository Information	Disk Space Information / Total Download Size: 171.51 Total Installation Size: 329.00	Total A L MB S MB	wailable Sp. 234.59	ace



#### Install DB2 Advanced Workgroup Server Edition 11.1.2.2

TBSM 6.2 requires DB2 Advanced Workgroup Server Edition and the minimum version needed for this is: 11.1 Mod 2 Fix Pack 2. From software compatibility report:

Databases	Filter		*				
Prerequisite	Version	Prerequisite 🛈 Minimum	Product 🛈 Minimum	Components 0	Operating System Restrictions?	Notes	Details
DB2 Advanced Workgroup Server Edition	11.1.1.1	11.1.2.2	6.2	• •	No		📕 View

Download link for DB2 11.1 Mod 2 Fix Pack 2 http://www-01.ibm.com/support/docview.wss?uid=swg24043789

- download and extract DB2 Advanced Workgroup Server Edition 11.1 and Activation License for this as well

DB2	AWSE	Resti	icte	ed	Act	tivat	tion	11.	1.z	ip
DB2	AWSE	REST	Svr	11	.1	Lnx	86-6	54.t	ar.	gz

- go to the extracted directory and to */server\_awse\_o/* directory and run the following command from this directory:

./db2setup

[root@yobs1 server]# ls			
db2	db2ckupgrade	db21s	ibm im
db2checkCOL readme.txt	db2 deinstall	db2prereqcheck	installFixPack
db2checkCOL.tar.gz	db2 install	db2setup	nlpack
[root@yobs1 server]# ./	db2setup		

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



- enter installation directory for DB2. Afterwards you can select either "Custom" as installation Type in order to customize different properties for DB2 such as the DB2 instance port or select "Typical" and the default settings will be used. In this example I have selected "Custom" installation



Make sure you select "Create an instance" and "I agree to the IBM terms".

- select the DB2 features you want to install (you can let them as default):



- configure DAS user name (by default dasusr1 user will be created; add a password for it):

🛓 DB2 Setup - DB2 Server I	Edition			-		×
<u>1</u> . Configuration <u>2</u> . Features <u>3</u> . Languages <u>4</u> . Documentation <u>5</u> . DAS user	DAS User The DB2 Administration Se DB2 tools. A user with a n user information for the D Ne <u>w</u> user	rver (DAS) runs on you inimal set of privileges AS.	ir computer to provide supp is required to run the DAS.	ort require Specify tl	ed by the ne requi	e ired
<u>6</u> . Database partiti	User name					
Z. Instance-owning	🗹 <u>U</u> se default UID					
8. Fenced user						
10. Notification set	✔ Use default <u>G</u> ID					
11. Contact	Password					
12. Summary	Confirm password	******				
	Home directory					
	Back	Next	Cancel		Help	

- select single partition instance for DB2

📓 DB2 Setup - DB2 Server I	Edition – 🗆 🗙
1. Configuration 2. Features 3. Languages 4. Documentation 5. DAS user	Database Partitioning 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. Single partition instance The instance will reside only on this computer. Select this option if the instance will not be
G. Database partiti     Z. Instance-owning     Renced user     G. Communication     Lo. Notification set     Lo. Notification set	Use instance will reside only on this computer. Select this option if the instance will not be used in a partitioned database environment.
	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.
12. Summary	

- configure Instance owner user (by default db2inst1 user will be created):

Tas DDE Setup DDE Server Edition		-		×
L. Configuration     2. Features     J. Languages     J. Documentation     D. Database partiti     Z. Instance-owning     B. Fenced user     S. Communication of     10. Notification seture     11. Contact     J. Summory     Configuration     Language     Contact     Configuration     Language     Configuration     Language     Configuration     Language     Configuration     Language     Configuration     Language     Configuration     Configuration	ance Owner te instance-owning user information for the DB2 instance. stance functions, and will store instance information in th he instance will be the same as the user name. ser tame db2inst1 de default UID name db2iadm1 de default GID ord exervice directory /nome/db2inst1 g user	– DB2 will use this ne user's home di	user to rectory.	The

- configure fenced user for DB2 (by default db2fenc1 user will be created)

🛓 DB2 Setup - DB2 Server	Edition		-		×
<u>1</u> . Configuration <u>2</u> . Features <u>3</u> . Languages <u>4</u> . Documentation	Fenced Us Specify the required inf stored procedures will	er formation for the fenced user. Fenced user defined fu execute under this user and group.	nctions (	UDFs) a	nd
4. Documentation     5. DAS user     5. DAS user     5. Database partiti     7. Instance-owning     8. Fenced user     9. Communication     10. Notification set.     Pas	User name Use default UID Group name Use default <u>G</u> D Password				
12. Summary					

- Change the DB2 port or service name if needed, by default DB2 port will be 50000:

DB2 Setup - DB2 Server I	Edition				2 <u>—</u> 6		×
<u>1</u> . Configuration <u>2</u> . Features <u>3</u> . Languages <u>4</u> . Documentation	Instance In order for remote of instance for TCP/IP of The DB2 instance ca	Commu lients to access d ommunication. n also be set to si	nica lata store tart autor	tion d in the DB2 instance, y natically when your com	ou must con puter starts.	figure th	e DB2
<u>5</u> . DAS user <u>6</u> . Database partiti <u>7</u> . Instance-owning <u>8</u> . Fenced user	TCP/IP configuration	db2c_db2inst1					
9. Communication 10. Notification set 11. Contact	Port number		B	estore default settings			
12. Summary	Autostart the ins						

- configure if you want the DB2 server to send notification; within this example this won't be configured:



- select "Install DB2 Server Edition" option and "Finish" to start the installation and make sure everything completed successfully:

📓 DB2 Setup - DB2 Server I	dition			-	□ ×
L. Configuration     J. Peatures     Ladjuages     Locumentation     DAS user     Database parttl     Instance owning     Penced user     Communication     D. Notherton set     11. Summary	Response File ( ) Install DB2 Server Edition on ti gave my installation settings in Response file name /root/db2s Summary Install Location /Atha/opt, Install Location /Atha/opt, Insta	and Sum	Imary iave my settings in a re- installing any so		
	Back	Einish	Cancel	н	əlp
🛃 Setup Com	olete		0 <del></del> 0		$\times$
🕜 Setup	has completed	l succes	sfully		
If you have n complete the	ot already done so post-install steps	, it is reco after inst	mmended th allation.		
You can also process. The located in th	review the log file setup log files db: e /tmp directory.	for more o 2setup.loç	details of the and db2set	setup up.err a	
	<u>P</u> ost-install s	teps	Log file		

- login on the server with db2inst1 user and go to DB2 installation Directory -> bin and run db2val script and make sure the validation is successful:



- add license for DB2 – unzip downloaded license package

```
[root@tother1 Miha]# cd tmpDB2Activation/
[root@tother1 tmpDB2Activation]# ls
DB2_WSE_VS_QS_Activation_11.1.zip
[root@tother1 tmpDB2Activation]# unzip DB2_WSE_VS_QS_Activation_11.1.zip
Archive: DB2_WSE_VS_QS_Activation_11.1.zip
```

- go to <extract\_path>/wse\_s/db2/licence directory:

```
[db2inst1@tother1 license]$ pwd
/Miha/tmpDB2Activation/wse s/db2/license
```

- run db2licm -a db2wse\_s.lic



- run db2licm -l to make sure everything is ok

[db2inst1@tother1 license]\$ db21	icm -l
Product name:	"DB2 Workgroup Server Edition"
License type:	"Server Option"
Expiry date:	"Permanent"
Product identifier:	"db2wse"
Version information:	"11.1"
Max amount of memory (GB):	"128"
Enforcement policy:	"Soft Stop"

**Upgrade to 11.1.2.2** 

Download link for DB2 11.1 Mod 2 Fix Pack 2 http://www-01.ibm.com/support/docview.wss?uid=swg24043789 fix pack:  $\rightarrow$  <u>DB2-linuxx64-universal fixpack-11.1.2.2-FP002</u> DB2 11.1.2 Fix Pack 2 for Linux/x86-64 (64 bit), DB2 Universal Fix Pack

- stop DB2; connect to the server as db2inst1 user run: db2stop

- go to /universal directory from the one where you have extracted the fix and run ./installFixPack script





- make sure the update completed successfully:



#### Install WAS 8.5.5.13, JazzSM 1.1.3/DASH 3.1.3 and Java SDK 8.0.5.6

You can install all these directly, at the same step.

- download and extract WAS 8.5.5.9 core and 8.5.5 Fix Pack 13

Download link for 8.5.5 Fix Pack 13: http://www-01.ibm.com/support/docview.wss?uid=swg24044479

- add both repositories within Installation Manager -> Preferences section:

<extracted\_path\_8.5.5.9>/linux\_x86\_64/disk1/diskTag.inf <extracted\_path\_8.5.5.13>/repository.config

- download and extract JazzSM 1.1.3 package and add the repository within Installation Manager -> Preferences panel:

<extracted\_path\_JazzSM>/JazzSMRepository/disk1/diskTag.inf

- download and extract Java 8.0.5.6 package and add the repository within IM

<extracted\_path\_java>/repository.config

Download link for Java SDK 8.0.5.6: https://www-01.ibm.com/support/docview.wss?uid=swg24044501

The following list of repositories should be added for this installation:

Repositories:			
Location			
🖌 /mnt/imag	jes/ibm/netcool/was/8.5.5.9/linux_x86_64/disk1/diskTag.inf		
🖌 /mnt/imag	jes/ibm/was/8.5.5.13/repository.config		
🖌 /Miha/tmp	Java/repository.config		
🖌 /mnt/imag	jes/ibm/jazz_for_sm/1.1.3.0/JazzSMRepository/disk1/diskTag.inf		

- return to Installation Manager main menu and select the Install option
- select the products you want to install; you should select at least: WAS 8.5.5.13, Java SDK 8.0.5.6, Jazz for IBM WebSphere 8.5 version 1.1.2.1 and IBM Dash 3.1.3.0.
| nstallation Packages   | Status            | Vendor |
|--|-------------------|--------|
| 🛉 🗹 🧊 IBM WebSphere Application Server                               |                   |        |
| 🕑 🕅 0 Version 8.5.5.13   | Will be installed | IBM    |
| 🔻 📃 🙀 IBM WebSphere SDK Java Technology Edition (Optional)           |                   |        |
| Userion 7.0.9.30   |                   | IBM    |
| 👻 💽 IBM WebSphere SDK Java Technology Edition (Optional)             |                   |        |
| Version 8.0.5.6  | Will be installed | IBM    |
| 🔻 🔄 🛃 IBM WebSphere SDK Java Technology Edition Version 8.0 for Libe |                   |        |
| 🔲 🙀 Version 8.0.5.6  |                   | IBM    |
| 💌 🔲 🙀 Jazz for Service Management extension for IBM WebSphere 8.0    |                   |        |
| Version 1.1.0.2  | •                 | IBM    |
| 👻 🛃 Jazz for Service Management extension for IBM WebSphere 8.5      |                   |        |
| Version 1.1.2.1  | Will be installed | IBM    |

🖌 🗹 🧊 IBM Dashboard Application Services Hub		
🖌 🕅 0 Version 3.1.3.0	Will be installed	IBM

- continue with the installation and enter the location path for the shared resources directory:

IBM Installation Manager –	
Install Packages Select a location for the shared resources directory.	
Install         Licenses         Location         Features         Summary           When you install packages, files are stored in two locations:	the IBM lave
adequate space for the shared resources of future packages. Shared <u>R</u> esources Directory: //Miha/opt/IBM/IBMIMShared Disk Space Information	Bro <u>w</u> se
Volume Available Space / 228.29 GB	
Rest         Next>         Install	Cancel

- enter installation directory for WAS 8.5.5.13 and for DASH (you have to select each of them to change their directories):

nstall Packages			N
The packages will be instal directory.	ed into the indicated package g	roups. Select the package group to change the inst	allation 🌱
Install License	es Location	Features Summary	
Package Group Name		Installation Directory	Archite
🔻 🦉 IBM WebSphere A	pplication Server V8.5	/Miha/opt/IBM/WebSphere/AppServer	
📋 IBM WebSphe	re Application Server 8.5.5.13		
💫 IBM WebSphe	ere SDK Java Technology Editic		
阈 Jazz for Servi	ce Management extension for		
👻 🍾 Core services in Ja	azz for Service Management	/Miha/opt/IBM/JazzSM	64-bit
🧊 IBM Dashboa	rd Application Services Hub 3.		
Rackage Group Name: C	ore cervices in Lazz for Service	Management	
Package Group Name: C	ore services in Jazz for Service	Management	
Package Group Name: C Installation <u>D</u> irectory.	ore services in Jazz for Service /Miha/opt/IBM/JazzSM	Management	Browse
Package Group Name: C	ore services in Jazz for Service /Miha/opt/IBM/JazzSM	Management	Browse
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Package Group Name: C Installation <u>D</u> irectory. Architecture Selection: ( Details	ore services in Jazz for Service /Mihałopt/IBM/JazzSM 32-bit	Management Disk Space Information	Browse
Package Group Name: C Installation <u>D</u> irectory: Architecture Selection: Details Shared Resources Directi	ore services in Jazz for Service (Miha/opt/IBM/JazzSM 32-bit	Management Disk Space Information d Volume Available Space	Browse
Package Group Name: C Installation <u>D</u> irectory: Architecture Selection: ( Details Shared Resources Directo	ore services in Jazz for Service /Miha/opt/IBM/JazzSM 32-bit	Management Disk Space Information d Volume Available Space / 228.29.68	Browse
Package Group Name: C Installation <u>D</u> irectory: Architecture Selection: ( Details Shared Resources Directo	ore services in Jazz for Service /Miha/opt/IBM/JazzSM 32-bit	Management Disk Space Information d Volume Available Space / 228.29.68	Browse
Package Group Name: C Installation <u>D</u> irectory: Archkecture Selection: ( Details Shared Resources Directo	ore services in Jazz for Service /Miha/opt/IBM/JazzSM 32-bit	Management Disk Space Information d Volume Available Space / 228.29.68	Browse
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Package Group Name: C Installation <u>D</u> irectory: Architecture Selection: ( Details Shared Resources Direct:	ore services in Jazz for Service /Miha/opt/IBM/JazzSM 32-bit	Management Disk Space Information d Volume Available Space / 228.29.68	Browse
Package Group Name: C Installation <u>D</u> irectory. Architecture Selection: ( Details Shared Resources Directo	ore services in Jazz for Service /Miha/opt/IBM/JazzSM 32-bit	Management Disk Space Information d Volume Available Space / 228.29.68	Browse

- continue with the installation:



- enter WebSphere installation location as you initially added within the previous screens and the details needed to create a WAS profile (smadmin user password); afterwards click on the "Validate" option:

IBM Installation Manager		_	
Install Packages (i) Click Next to continue.			-
Install Licenses Locat	tion Features St Common Configurations for C	Core services in Jazz for Service	
▼ ① Common Configurations	WebSphere Configuration		
WebSphere Configuration Ports Configuration	WebSphere installation location	Miha/opt/IBM/WebSphere/AppServer	Brows
Context Root	Profile deployment type	Create WebSphere profile 🔹 🔻	
<ul> <li><sup>R</sup><sub>E<sub>0</sub></sub> IBM WebSphere Application Server</li> <li>IBM WebSphere Application Se</li> </ul>	Profile details		
End of Service for Java SE	Profile location	/Miha/opt/IBM/JazzSM/profile	Brows
	Profile name	JazzSMProfile	]
	Node name	JazzSMNode01	
	Server name	serverl	ĵ
	User name	smadmin	] [
	Password	•••••	1
	Password confirmation	•••••	1
	Validate		
	-		-
2)	< Back	Next > Install	Cancel

- change installation ports if needed and continue with the installation

In case you are installing everything on the same box, these ports are easier to be changed than the ones from Impact as they cannot run on the same port at the same time.

IBM Installation Manager		-	
Install Packages Fill in the configurations for the packages.			-
Install Licenses Locat	ion Features Summary		
<ul> <li>♥ t<sub>to</sub> Core services in Jazz for Service M</li> <li>♥ ① Common Configurations</li> </ul>	Common Configurations for Core services i Management Ports Configuration	n Jazz for Service	
WebSphere Configuration Ports Configuration IBM Dashboard Application Se	Configure the various network ports to which th Jazz for Service Management listens.	ne WebSphere Applica	ation Serv
Context Root	HTTP transport port	16310	
<ul> <li><sup>e</sup><sub>R<sub>0</sub></sub> IBM WebSphere Application Server</li> <li>IBM WebSphere Application Se</li> </ul>	HTTPS transport secure port	16311	
End of Service for Java SE	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	

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

BM Installation Manager				_	
Install Packages Fill in the configurations for the packages.	ion Fea	itures Summ	hary		-
<ul> <li>Core services in Jazz for Service M</li> <li>Common Configurations</li> <li>WebSphere Configuration</li> <li>Ports Configuration</li> <li>IBM Dashboard Application Se</li> <li>Context Root</li> <li>Sea IBM WebSphere Application Server</li> <li>IBM WebSphere Application Server</li> <li>IBM WebSphere Application Server</li> <li>IBM WebSphere Application Server</li> </ul>	Configuration Context Root	for IBM Dashboard	Application Se	rvices Hub 3.1	.3.0
0		< Back	Next >	Install	Cancel

- proceed with the installation and make sure everything completed successfully:

		-	
nstall Packages			-5
Review the summary information.			
Install Licenses Location Feature	s Summary		
Target Location			
Shared Resources Directory: /Miha/opt/IBM/IBMIMShared			
Packages	Installation D	inactory	
<ul> <li>IBM WebSphere Application Server V8.5</li> </ul>	/Miha/opt/IBM/W	/ebSphere/AppSen	ver
WebSphere Application Server Full Profile			
IBM WebSphere SDK for Java Technology Edition (Op IBM WebSphere SDK Java Technology Edition (Op	tion		
<ul> <li>Intervice Management extension for IBM V</li> </ul>	WebSphere 8.5 1.:		
🏠 Install JazzSM WebSphere Extension			
<ul> <li><sup>P</sup><sub>20</sub> Core services in Jazz for Service Management</li> </ul>	/Miha/opt/IBM/Ja	azzSM	
IBM Dashboard Application Services Hub 3.1.3.0			
Configuration			
U congaracon			
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	1	lotal Availab	e Spac
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b Barraitan Information	10cal 113calación 512c. 5.75 00		
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## Upgrade to JazzSM/DASH Fix Pack 2

Download link:

https://www-945.ibm.com/support/fixcentral/swg/selectFixes?product=ibm%2FTivoli%2FJazz+for+Service+ Management&fixids=1.1.3-TIV-JazzSM-multi-FP002&source=SAR&function=fixId&parent=ibm/Tivoli

fix pack:  $\rightarrow$  1.1.3-TIV-JazzSM-multi-FP002

2018/12/27

- download and extract FP2 package
- add the repository within Installation Manager -> preferences section

<extracted\_path\_JazzFP2>/JazzSMFPRepository/disk1/diskTag.inf

/Miha/tmpJazzSMFP2/JazzSMFPRepository/disk1/diskTag.inf

- return to IM main menu, select the Update option and choose Jazz from the list:

🕑 IBM Installation Manager			-		Х
Update Packages Select a package group to find updates for.				E	Res of
Package Group Name <sup>9</sup> 2 IBM WebSphere Application Server V8.5 Core services in Jazz for Service Management		Directory /Miha/opt/IBM/We /Miha/opt/IBM/Jaz	bSphere/AppS zSM	ðerver	
			_		
Update <u>all</u> packages with recommended updates and recom	mended fixes				
Core services in Jazz for Service Management • Shared Resources Directory: //Miha/opt/IBM/JBMIMShared • Installation Directory: //Miha/opt/IBM/JazzSM • Translations: English • Architecture: 64-bit					
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- continue with the installation:

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<ul> <li>BM Installation Manage</li> <li>Update Packages</li> <li>Select the features to installation</li> <li>Update Packages</li> <li>Features</li> <li>Features</li> <li>IBM Dashboard</li> <li>Details</li> <li>BM Dashboard Application</li> <li>Details and deploy IBM D</li> <li>Disk Space Information</li> </ul>	r tall. Updates Licenses ard Application Services Hub 3.1.3.2 on ation on Manager because of dependenci ation Services Hub 3.1.3.2 n Services Hub 3.1.3.2 n Services Hub 3.1.3.2 n	es in Jazz for Service A 5. Select IBM Dashbo to the WebSphere A	Summary Expand All Colla Management, and pro- happlication Server	apse Al E vides a single	estore
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BM Installation Manage          Update Packages         Select the features to installate         Update Packages         Features         Image: Select the features to installate         Image: Select the features to installate         Image: Select the features to installate         Image: Show dependencies         Image: Show dependencies         Image: Select the formation         Details         IBM Dashboard Application         Image: Show dependencies         Image: Select the formation         Disk Space Information         Shared Resources Area	r tall. Updates Licenses ard Application Services Hub 3.1.3.2 on ation on Manager because of dependenci ation Services Hub 3.1.3.2 in Services Hub 3.1.3.2 in Services Hub 3.1.3.2 in Services Hub 3.1.3.2 in Volume Required I 0.0 KB	es in Jazz for Service M s. Select IBM Dashbo to the WebSphere A Temporary 228.41 MB	Summary Expand All Colla Management, and pro pard Application Servir Total 228.41 MB Next >	apse All E vvides a single ces Hub offer A 224 Update	estore valable 13 68

- enter smadmin user details and click on the "Validate" option:

<ol> <li>Click Next to continue.</li> </ol>			
Update Packages Updates	Licenses Features	Summary	
<ul> <li>Common Configurations</li> <li>WebSphere Configuration</li> </ul>	Common Configurations WebSphere Configuration		
	WebSphere installation location	/Miha/opt/IBM/WebSphere/AppServer	Bro
	Profile deployment type	Use existing WebSphere profile 🔻	
	Profile details		
	Profile location	/Miha/opt/IBM/JazzSM/profile	Bro
	Profile name	JazzSMProfile	
	Node name	JazzSMNode01	
	Server name	serverl	
	User name	smadmin	
	Password	•••••	]
	Validate		-

- click on "Update" and make sure everything completed successfully:

IBM Installation Manager		-		×
Update Packages Review the summary information.			E	3
Update Packages Updates Licenses	Features Summary			
Target Location				
Package Group Name: Core services in Jazz for Servic	e Management			
Installation Directory: /Miha/opt/IBM/JazzSM				
Shared Resources Directory: /Miha/opt/IBM/IBMIMShared				
Updates				
Features To Install	Features To Remove			1
[i] IBM Dashboard Application Services Hub 3.1.3.2     [i] Installation     [i] Configuration				
Disk Space Information				
		lotal Avail	able Spac	e
1			224.13 01	5
Total Download Size: 228.41 MB				
Total Installation Size: 236.91 MB				
Repository Information				
0	< Back Next >	Update	Can	cel

IBM Installation Manager		-		×
Update Packages			E	
	The packages are updated. <u>View Log File</u>			
	Update Installatio			
	Update Installatio			
	Note: If the packages support rollback, the temporary directory contains rollback files for installed packages. You can delete the files on the <u>Files for rollback</u> preference page.			
1			Fin	ish

## Install WebGUI 7.1.0.14 and upgrade to Fix Pack 15

- download and extract the package for webgui 7.1.0.14 as well as the package for webgui 8.1 fix pack 15

Download link for Fix Pack 15: https://www-01.ibm.com/support/docview.wss?uid=ibm10733391

- add both webgui and fix pack repositories within Installation Manager -> Preferences section:

<extracted\_path\_webgui\_base>/OMNIbusWebGUIRepository/repository.config <extracted\_path\_webgui\_FP15>/OMNIbusWebGUIRepository/composite/repository.config <extracted\_path\_webgui\_FP15>/OMNIbusWebGUIRepository/delta/repository.config

/tmpwebbase/OMNIbusWebGUIRepository/repository.config
 /tmpwebfp15/OMNIbusWebGUIRepository/composite/repository.config
 /tmpwebfp15/OMNIbusWebGUIRepository/delta/repository.config

Add the repositories for NOI extension as well if needed.

- select Install wizard from IM and choose the product to be installed:

Install Packages				
Select packages to install:				7
Installation Packages		Status	Vendor	
👻 📝 🎁 IBM Tivoli Netcool/OMNIbus Web GUI				
💽 🙀 Version 8.1.0.15		Will be installed	IBM	
Show all versions			<u>C</u> heck fo	r Other \
Show <u>a</u> l versions Details			<u>C</u> heck fo	r Other \
Show <u>a</u> ll versions Details IBM Tivoli Netcool/OMNIbus Web GUI 8.1.0.15			<u>C</u> heck fo	r Other V
Show <u>all versions</u> Details IBM Tivoli Netcool/OMNIbus Web GUI 8.1.0.15 IBM Tivoli Netcool/OMNIbus Web GUI and Virtual Memb Repositor, /tmpwebfp12/OMNIbusWebGUIReposito	er Manager (VMM) pl	ugin for Netcool Object	<u>C</u> heck fo	r Other \
Show <u>al</u> versions Details IBM Tivoli Netcool/OMNIbus Web GUI 8.1.0.15 IBM Tivoli Netcool/OMNIbus Web GUI and Virtual Memb • Repository. /tmpwebfp15/0MNIbusWebGUIReposito	er Manager (VMM) pl ry/composite	ugin for Netcool Object	<u>C</u> heck for Server <u>More inf</u>	r Other \ 
Show <u>all versions</u> Details IBM Tivoli Netcool/OMNIbus Web GUI 8.1.0.15 IBM Tivoli Netcool/OMNIbus Web GUI and Virtual Memb • Repository: /tmpwebfp15/OMNIbusWebGUIReposito	er Manager (VMM) pl ry/composite	ugin for Netcool Object	<u>C</u> heck fo	r Other \ 
Show <u>all versions</u> Details IBM Tivoli Netcool/OMNIbus Web GUI 8.1.0.15 IBM Tivoli Netcool/OMNIbus Web GUI and Virtual Memb • Repository. /tmpwebfp15//OMNIbusWebGUIReposito	er Manager (VMM) pl ry/composite	ugin for Netcool Object	<u>C</u> heck fo	r Other V
Show <u>al</u> versions Details IBM Tivoli Netcool/OMNIbus Web GUI 8.1.0.15 IBM Tivoli Netcool/OMNIbus Web GUI and Virtual Memb Repository. /tmpwebfp15//OMNIbusWebGUIReposito	er Manager (VMM) pl ry/compos≹e	ugin for Netcool Object	<u>C</u> heck fo Server <u>More inf</u>	r Other \ 0

- enter installation path directory:

Insets Lizer	Losstian	Easturan Summanu	
Citer	Location	reacures aurimary	
<ul> <li>Use the existing pa</li> </ul>	ckage group		
Create a new packa	age group		
Package Group Nam	1e	Installation Directory	Archite
18M Netcool GL	II Components	/Miha/opt/IBM/netcool/gui	64-bit
Architecture Selection:	🔘 32-bit 💿 64-bit		
Details		Disk Space Information	
Shared Resources Dire	ссогу: /міпа/орд/вм/івмім з паге	Volume Available Space	
		/ 222.92 GB	

- select as least "Install base feature" option:



- enter WebSphere and JazzSM installation directories as well as the profile details for webgui (username and password). Afterwards continue with the installation:

IBM Installation Manager			-		×
Install Packages Fill in the configurations for the packages.				4	
Install Licenses Loca	Common Configu WebSphere Applica	ures Summ urations ation Server and Jaz	z for Service Management p	roperties	
WebSphere Application Server	Installation I	Directory Details	/Miha/opt/IBM/WebSphere	AppServer	1
	Jazz for Service	e Management UI	/Miha/opt/IBM/JazzSM/ui		jį
	Profile Detai	serverl			_
	User name	smadmin			_
	Password	••••••			-
				_	
0		< Back	Next > Instal	Ca	ancel

		- 🗆
Install Packages		
Review the summary inform	ation.	7
Instal 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		
Install base fea	MNIBUS Web GUI 8.1.0.15	
Environment	Disk Space Information	
Environment English	Disk Space Information	Total Available Spa
Environment English	Disk Space Information /	n Total Available Spa 222.91 (
Environment English	Disk Space Information / Total Download Size: 23 Total Installation Size: 49	, Total Available Spa 222.91 ( 5.31 MB 5.33 MB
Environment English → Repository Information	Disk Space Information / Total Download Size: 23 Total Instalation Size: 49 n	, Total Available Spa 222.91 ( 3.93 MB 59 MB

- make sure everything completed successfully. Afterwards webgui configuration can be made within the wizard that is available to be selected or manually after completing the installation.

( IBM Installation Manager	- 🗆 X
Install Packages	-
The packages at	re installed. <u>View Log File</u>
The following package was installed:	Which program do you want to start?
▼ <sup>5</sup> 6, IBM Netcool GUI Components	Configure IBM Tivoš Netcool/OMNibus Web GUI Log on to IBM Tivoš Netcool/OMNibus Web GUI
Note: If the packages support rollback, the temporary can delete the files on the <u>Plan for rollback</u> preference p	irectory contains rollback files for installed packages. You age.

# Add object server as repository for WebGUI and create datasource in webgui console

Option A: Use the wizard that is available at the end of webgui installation.



Configure a single server setup using default settings.	
Configure an advanced setup.	

- enter object server details (host, port, user id and password):

The default OMNIbu	s users and groups will be created.			
ObjectServer				
Host:	curvier1.casstle.fyre.ibm.com	Port:	4100	
Authentication				
User ID:	root	Password:		]
You are about t	o configure the following as the defa <b>ObjectServer Repository</b> curvier1.castle.fyre.ibm.com : 4100 root (User)	uit authentication provider ) (Primary Server)	in IBM Dashboard Application Servi	ces Hub:
You have opted	to create the following users and gr	oups:		
Default User	s (2) ncoadmin ncouser			
Default Group	<b>ps (2)</b> Netcool_OMNIbus_Admin Netcool_OMNIbus_User			
The system will	also configure a data source called <b>C</b>	MNIBUS		
Click Next to co	ontinue.			

At the end login to webgui console and add roles to smadmin user.



**Option B**: Select "none" at the end of the installation and manually add object server as repository for webgui and create a datasource in webgui console.

- go to \$WAS\_HOME/bin directory

### cd /Miha/opt/IBM/WebSphere/AppServer/bin/

- use confvmm4ncos.sh script to add the created object server as repository for webgui.

Run the following command after you replace with your own values:

./conf4vmm4ncos.sh \$JazzSM\_HOME/profile objserver\_root\_user objserver\_root\_user\_pass FQDN\_omnibus objserver\_port

Command example:

```
[root@yobs1 bin]# ./confvmm4ncos.sh /Miha/opt/IBM/JazzSM/profile root '' crybaby
1.castle.fyre.ibm.com 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.
```

- restart webgui by running below commands:

./stopServer.sh server1 ./startServer.sh server1

- login to webgui console and add roles to smadmin user

	Roles
	Group Roles
	Roles
≎	User Roles
?	

- click on Search -> select smadmin user -> select all roles -> save configuration

smadmin 1 smadmin smadmin iscadmins, chartAdministrator, samples, administrato	smadmin
--	---------

- logout/login with this user.
- create datasource within webgui to the object server created on server 1:

Q	Administration			
$\star$	Event Management Tools			
<b>.</b>	Filters			
	Views			
1-	Relationships			
1	Tool Configuration			
4,6	Tool Prompt Configuration			
~	Menu Configuration			
	Metrics			
	CGI Registry			
	Maps			
	Map Creation			
	Map Resources			
	Data Sources			
	Event Database Query			
		•		
Data	Sources ×			
Dat	ta Sources			
Use rea	e this page to manage data sources in the T d from, and write to, one or more individual c	ivoli Netcool/OMNIbus Web GUI. You must co lata sources or failover pairs.	onfigure the Web GUI server to connect to	at least one data source. You can optionally (
Not \$OM	e: Data sources configured using Web GUI INIBUS_WEBGUI_HOME/etc/datasources of	apply to the current node only. To replicate the lirectory on this node to the corresponding di	ese data sources across other nodes in y rectories on the other nodes. You must re	our Web GUI cluster, you must copy the ncwE estart the WebSphere Application Server on e
	[			
		Na Create New Data Source	Enabled	In Default Group
			No data sources	

- enter a name for this data source, add the hostname where the object server was installed, and the port used for this one; test the connection and make sure it can successfully connect and save the new data source

* Name: ? NCOMS	
Enabled	
* Host: crybaby1.castle.fyre.ibm.com	
* Port: 4100	
Use SSL (2)	

# Install TBSM Components

Before starting the installation of the Data Servers, TBSM Configuration Utility should be installed and TBSM schema should be added within the object server.

TBSM 6.2 package should be downloaded and extracted on all servers.

TBSM 6.2 primary data server will be installed on server 1, along with Omnibus, Impact. TBSM 6.2 secondary data server will be installed on server 1, along with Omnibus, Impact. TBSM 6.2 dash server will be installed on server 2, along with JazzSM, webgui.

#### Add TBSM Schema to Object Server

This will be applied on server 1 where OMNIbus was installed and configured, hence on server 1.

- go to unzipped directory for TBSM and from here to the following directory: <extracted\_tbsm\_path>/data\_linux/omnibus/schema\_files:

[root@crybaby1 tmptbsm]# cd /Miha/tmptbsm/data\_linux/omnibus/schema\_files/ [root@crybaby1 schema files]# <mark>\_</mark>

- run the following command:

./import\_schema.sh \$NCHOME tbsm\_db\_update.sql RAD <OBJServer\_Name> root <root-password>

Command example:

```
[root@crybaby1 schema_files]# ./import_schema.sh /Miha/opt/IBM/tivoli/netcool tbsm_db_update.sql RAD NCOMS root
Param 1: InstallDir: /Miha/opt/IBM/tivoli/netcool
Param 2: Name/Location of RAD Schema file to use: tbsm db update.sql
```

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

Any warnings about the existence of some of the objects could be safely ignored

- run the following second command:

./import\_schema.sh \$NCHOME ClearServiceDeps.auto RAD <OBJServer\_Name> root <root - password>

Command example:

(toot@crybaby1 schema\_files]# ./import\_schema.sh /Miha/opt/IBM/tivoli/netcool ClearServiceDeps.auto RAD NCOMS root
@@ram 1: InstallDir: /Wiha/opt/IBM/tivoli/netcool

## Install TBSM Database Configuration Utility

- login as db2inst1 user on server1 where DB2 has been installed
- go to the directory were TBSM package was extracted and from here go to dbconf\_linux directory:

[db2inst1@yobs1	~]\$ cd	/Miha/tmp	otbsm/dbconf	linux/
[db2inst1@yobs1	dbconf	linux]\$		

- run the following command:

./install\_gui\_dbconf.sh

M Installation Manager	-		
nstall Packages		_	
elect packages to install:			
Installation Packages	Stadue	Vandar	
IBM® Installation Manager	status	Vendor	
Version 1.8.9	Will be installed	IBM	
🔹 📝 🧊 IBM Tivoli Business Service Manager Database Configu	uration utility		
🕑 🕅 0 Version 6.2.0.0	Will be installed	IBM	
Show all versions	Che	ck for Other Vers	
)etails			
3M® Installation Manager 1.8.9 he IBM® Installation Manager is a tool that you can use to install a Repository. /MihaltmpTBSM/dbconf_linux/im.linux.x86	and maintain your software packages. <u>More</u>	info	

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



- enter installation path

Tracen LI	renter Location F	eaturas Summany	
0	Lenses Location P	eacures Summary	
Use the existing	package group		
Create a new pa	ckage group		
Package Group Na	ame I	nstallation Directory	Archite
🗽 IBM Tivoli Bus	siness Service Manager /	home/db2inst1/IBM/tivoli/tbsmdb	64-bit
_	7101112021130210101000000	D	Browse
Architecture Selection	x 32-bit () 64-bit	U	Browse
Architecture Selection	n: 32-bit (a) 64-bit	u Disk Space Informat	ion
Architecture Selection Details Shared Resources Di	x	Disk Space Informat hared Volume Available :	Browse
Architecture Selection Details Shared Resources Di	n: 32-bit  64-bit	Disk Space Informat hared Volume Available : / 214.97 GE	Browse Browse
Architecture Selection Details Shared Resources Di	r: 32-bit is 64-bit	Disk Space Informat hared Volume Available ! / 214.97 Gf	Browse Space

- add details for TBSM Data Server Database Configuration – database name, database hostname, port, user and its password (db2inst1 user is required

Install Licenses Locat	ion Features Summary	
Common Configurations	Common Configurations TBSM Data Server Database Configuration	
TESM Data Server Database     TESM TWA Metric Marker DB C     TESM TWA Metric History DBC     TESM Sample Database Confi	This panel will be used to configure the will be saved in the tbsmdb/sql/tbsm_d tbsmudf_db.properties property files. files and use the tbsm_db script to gen	a TBSM Data Server database. The information lb.properties and tbsmdb/sql/ To change these values later, edit the property ierate the SQL with updated values.
	Database <u>N</u> ame (maximum 8 characters):	TBSM
	Database <u>H</u> ost Name or IP Address:	yobs1.castle.fyre.ibm.com
	Database <u>P</u> ort Number:	50000
	Database <u>U</u> ser ID:	db2inst1
	Database Password:	•••••
	Confirm Password:	••••••
	Should the installer create the schema password parameters are ignored if 'n • yes, create the schema including the to No, complete the installation. The sche The Database Path on which to create drabases path specified in the database froutiple Paths are specified, they rm containing the database must be the f Dgtabase Path. <default> To optimize the configuration of the database or service instances that can be mana- configuration values.</default>	for this database (The database userid and o' is selected)? ma will be created at a later time. the database, For Windows, this must be a law or 'cdefaults' will indicate that the default se manager configuration will be used. ust be comma separated and the Path irst Path specified.

- add details for TBSM TWA Metric Marker DB - database name, database hostname, port, user and its password (db2inst1 user is required)

Install Licenses Locat	tion Features Summary	
🗊 Common Configurations 🕎 TBSM Data Server Database (	Common Configurations TBSM TWA Metric Marker DB Config Panel	
TBSM TWA Metric Marker DB C O TBSM TWA Metric History DBC O TBSM Sample Database Confi	This panel will be used to configure the database. The information from this pa tbsmmark_db.properties property file. property file and then using the tbsm_c values.	TBSM Time Window Analyzer Metric Marker sge will be stored in the thsmdb/sql/ Later changes can be made by editing this lb script to generate the SQL with the new
	Database <u>N</u> ame (maximum 8 characters):	TBSM
	Database <u>H</u> ost Name or IP Address:	yobs1.castle.fyre.ibm.com
	Database <u>P</u> ort Number:	50000
	Database <u>U</u> ser ID:	db2inst1
	<u>D</u> atabase Password:	•••••
	<u>C</u> onfirm Password:	•••••
	Should the installer create the schema password parameters are ignored if 'no yes, create the schema including the ta No, complete the installation. The scher The Database Path on which to create I drive letter (for example ci). A null val database path specified in the databas	for this database (The database userid and ' is selected)? bles, tablespaces and views. ma will be created at a later time. the database. For Windows, this must be a ue or ' cdefaults' will indicate that the default e manager configuration will be used.
	If multiple Paths are specified, they mu containing the database must be the fi	ist be comma separated and the Path rst Path specified.
	D <u>a</u> tabase Path: <a></a> <a><!--</td--><td></td></a>	
	To and the second second second second	tabase please estimate the expected number

- add details for TBSM TWA Metric History DB - database name, database hostname, port, user and its password (db2inst1 user is required)

	tion Features Summary	
Common Configurations	Common Configurations	
🔄 TBSM Data Server Database (	TBSM TWA Metric History DBC onfig Panel	
TBSM TWA Metric Marker DB C TBSM TWA Metric History DBC TBSM Sample Database Confi	This panel will be used to configure the database. The information from this p tbsmhist_db.properties property file. I property file and then using the tbsm_ values.	a TBSM Time Window Analyzer Metric History age will be stored in the tbsmdb/sql/ Later changes can be made by editing this db script to generate the SQL with the new
	Database Name (maximum 8 characters):	TBSMHIST
	Database Host Name or IP Address:	yobs1.castle.fyre.ibm.com
	Database Port Number:	50000
	Database User ID:	db2inst1
	Database Password:	•••••
	Confirm Password:	••••••
	Should the installer create the schema password parameters are ignored if 'n	a for this database (The database userid and o' is selected)?
	• Yes, create the schema including the t	ables, tablespaces and views.
	No, complete the installation. The sche	ma will be created at a later time.
	The Database Path on which to create drive letter (for example c:). A null va database path specified in the databa	the database. For Windows, this must be a lue or ' <default>' will indicate that the default se manager configuration will be used.</default>
	If multiple Paths are specified, they m containing the database must be the f	ust be comma separated and the Path first Path specified.
	Database Path: <default></default>	

- add details for TBSM Sample DB configuration - database name, database hostname, port, user and its password (db2inst1 user is required)

Install 🔶 Licenses 🔶 Loca	tion Featur	s Summary			
🗊 Common Configurations 👿 TBSM Data Server Database (	Common Configu TBSM Sample Data	rations base Configuration			
TBSM TWA Metric Marker DB C TBSM TWA Metric History DBC TBSM Sample Database Confi	This panel will I information fro property file. L the tbsm_db so	be used to configure th m this page will be sto ater changes can be m ript to generate the So	e TBSM Demo/Sam red in the tbsmdb/s ade by editing this QL with the new val	ple database. The ql/tbsmdemo_db.pro property file and the ues.	perties n using
¥	Database Name	(maximum 8 characters):	TBSM		
	Database Host N	ame or IP Address:	yobs1.castle.fyre.	ibm.com	
	Database Port N	umber:	50000		
	Database User ID	):	db2inst1		
	Database Passwo	ord:	•••••		
	Confirm Passwor	d:	•••••		
	Should the inst password para Yes, create	aller create the schem meters are ignored if 'i the schema including the t	a for this database no' is selected)? tables, tablespaces an	(The database userio	d and
	No, comple The Database I drive letter (fo	te the installation. The sch Path on which to create r example c:). A null va	ema will be created at a the database. For alue or ' <default>'</default>	a later time. Windows, this must l will indicate that the	be a default
	oacabase pach If multiple Path containing the	specified in the databa is are specified, they m database must be the	ust be comma sep first Path specified	arated and the Path	
	Database Path:	<default></default>			
	To optimize the of service insta	configuration of the d inces that can be man	atabase, please est aged. The selection	timate the expected determines the defa	number ult

Install Packages Review the summary information.  Install Licenses Location Peatures Summary  Target Location Packages Installation Directory: /home/db2inst1/IBM/IBMIMShared Packages  Packages  IBM® Installation Manager 1.8.9  IBM® Installation Manager 1.8.9  IBM Twoli Business Service Manager Database Configuration utility 6.2.0.0  Environment English  Total Available Spa  / 214.971  Total Download Size: 284.21 MB Total Installation Size: 639.86 MB  A Repository Information				
Review the summary information.  Install Licenses Location Peatures Summary  Arget Location Package Group Name: IBM Tivoli Business Service Manager Installation Directory: /homa/db2inst1/IBM/BMIMShared Packages  Packages  I BM® Installation Manager 1.8.9  I BM® Installation Manager 1.8.9  I BM® Installation Manager 1.8.9  I BM Tivol Business Service Manager Database Configuration utility 6.2.0.0  Environment English Total Available Spa  / 214.971 Total Download Size: 284.21 MB Total Installation Size: 639.86 MB  Argeository Information	Install Packages			-1
Install       Licenses       Location       Features       Summary         Target Location       Package Group Name:       IBM Tivoli Business Service Manager:         Installation Directory:       / home/db2inst1//BM//BMIMShared         Packages       IBM® Installation Manager 1.8.9       IBM Tivoli Business Service Manager Database Configuration utility 6.2.0.0         Environment       Disk Space Information         English       Total Available Space         /       214.97         Ital Download Size:       284.21 MB         Total Download Size:       639.86 MB	Review the summary inform	ation.		7
Target Location       IBM Tivoli Business Service Manager         Package Group Name:       IBM Tivoli Business Service Manager         Installation Directory:       /home/db2inst1/IBM/IBMIIShared         Shared Resources Directory:       /home/db2inst1/IBM/IBMIIShared         Packages	Install Licenses	Location Features Summary		
Package Group Name:       IBM Tivoli Business Service Manager         Installation Directory:       /homa/db2inst1/IBM/IBMIMShared         Shared Resources Directory:       /homa/db2inst1/IBM/IBMIMShared         Packages	Target Location			
Installation Directory: /home/db2instJ/IBM/IBMIMShared Shared Resources Directory: /home/db2instJ/IBM/IBMIMShared Packages Packages IBM@ Installation Manager 1.8.9 IBM Tivoli Business Service Manager Database Configuration utility 6.2.0.0 IBM Tivoli Business Service Manager Database Configuration utility 6.2.0.0 Environment English Total Available Space Information English Total Available Space Information If all Download Size: 284.21 MB Total Installation Size: 633.86 MB > Repository Information	Package Group Name:	IBM Tivoli Business Service Manager		
Shared Resources Directory: //home/db2inst1/IBM/IBMIMShared Packages  Packages  I BM® Installation Manager 1.8.9  I BM Tivoli Business Service Manager Database Configuration utility 6.2.0.0  Environment English Total Available Space Information English Total Available Space Information Total Available Space Information Total Available Space Information Total Available Space Information Negository Information	Installation Directory:	/home/db2inst1/IBM/tivoli/tbsmdb		
Packages   Packages   BMØ Installation Manager 1.8.9   BM Tivoli Business Service Manager Database Configuration utility 6.2.0.0   Environment English  Total Available Space  / 214.97  Total Download Size: 284.21 MB Total Installation Size: 633.86 MB   Repository Information	Shared Resources Directory:	/home/db2inst1/IBM/IBMIMShared		
Packages         IBM® Installation Manager 1.8.9         IBM Tivoli Business Service Manager Database Configuration utility 6.2.0.0         Environment         English         Total Available Spi         /       214.97         Total Download Size:       284.21 MB         Total Installation Size:       639.86 MB         > Repository Information	Packages			
IBM@ Installation Manager 1.8.9         IBM Tivoli Business Service Manager Database Configuration utility 6.2.0.0         Environment       Disk Space Information         English       Total Available Sp.         /       214.97         Total Download Size:       284.21 MB         Total Installation Size:       639.86 MB         > Repository Information	Packages			
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	Environment English	Disk Space Information / Total Download Size: 284.21 MB Total Installation Size: 639.86 MB	Total Ava	ilable Spai 214.97 G
	Environment English Repository Information	Disk Space Information / Total Download Size: 284.21 MB Total Installation Size: 639.86 MB	Total Ava	ilable Spai 214.97 G

Install Packages	4	
The packages are installed. <u>View Log File</u>		
The following package was installed:		
🐨 🧊 IBM Tivoli Business Service Manager Database Configuration ι		
Installation Manager was successfully installed into: /home/db2instJ/IBM/		
InstallationManager/eclipse Note: If the packages support rollback, the temporary directory contains rollback files for installed packages. You can delete the files on the <u>Files for</u> rollback preference page.		
•	Fir	nish

### Install TBSM Primary Data Server

Make sure Impact Primary server is running and that Impact Secondary server is stopped.

- go to the directory where TBSM was extracted on server 1 and from here to data\_linux directory:

- run the following command and select TBSM Data Server to be installed:

./install\_gui\_data.sh

M Installation Manager		- 🗆 ×
nstall Packages		~
Select packages to install:		
Installation Packages V III IBM Tivoli Business Service Manager Data Server	Status	Vendor
🕑 🕅 Version 6.2.0.0	Will be installed	IBM
Show <u>a</u> ll versions		Check for Other Vers
Show <u>a</u> ll versions Details		Check for Other Vers
Show <u>a</u> ll versions Details 3M Tivoli Business Service Manager Data Server 6.2.0.0 BM Tivoli Business Service Manager Data Server 6.2.0.0 <u>More info</u> • Repository: /Miha/tmpTBSM/data_linux/data_media_linux/disk1		Check for Other Vers
Show <u>a</u> ll versions Details BM Tivoli Business Service Manager Data Server 6.2.0.0 BM Tivoli Business Service Manager Data Server 6.2.0.0 <u>More info</u> P Repository: /Miha/tmpTBSM/data_linux/data_media_linux/disk1		<u>C</u> heck for Other Vers
Show <u>a</u> ll versions Details BM Tivoli Business Service Manager Data Server 6.2.0.0 BM Tivoli Business Service Manager Data Server 6.2.0.0 <u>More info</u> Repository: /Miha/tmpTBSM/data_linux/data_media_linux/disk1		<u>C</u> heck for Other Vers

- enter the installation directory path for TBSM data server

A package group is a location that contains one or more common package group and will share a common user in one.	nterface. Select an existing package group, or create	d into a 📲
Install Prerequisite Licenses (	Location Features Summary	
Package Group Name	Installation Directory	Archite
🍾 IBM Tivoli Business Service Manager	/Miha/opt/IBM/tivoli/tbsm	64-bit
Package Group Name: IBM Tivoli Business Service Man Installation <u>D</u> irectory: //Miha/opt/IBM/tivoli/tbsm	ager	B <u>r</u> owse
Package Group Name: IBM Tivoli Business Service Mani Installation <u>D</u> irectory: //Miha/opt/IBM/tivolitbsm Architecture Selection: 32-bit (a) 64-bit	ager	Browse
Package Group Name: IBM Tivoli Business Service Manu Installation <u>D</u> irectory: //Miha/opt/IBM/tivoli/tbsm Architecture Selection: 32-bit () 64-bit	ager Dick Space Information	B <u>r</u> owse
Package Group Name: IBM Tivoli Business Service Man. Installation <u>D</u> irectory: //Miha/opt/IBM/tivolitbsm Architecture Selection: 32-bit (a) 64-bit Details Shared Resources Directory: //Miha/opt/IBM/IBMIMShare	ager Disk Space Information ed Volume Audoble Space	Browse
Package Group Name: IBM Tivoli Business Service Man Installation Directory: //Miha/opt/IBM/tivolitbsm Architecture Selection: 32-bit (a) 64-bit Details Shared Resources Directory: //Miha/opt/IBM/IBMIMShare	Disk Space Information ed Volume Available Space / 211.85.68	Browse
Package Group Name: IBM Tivoli Business Service Man. Installation <u>D</u> irectory: //Miha/opt/IBM/tivoli(tbsm Architecture Selection: 32-bit	Disk Space Information ed Volume Available Space / 211.85 GB	Browse

- enter Impact server username details (for host details FQDN is required, make sure /etc/hosts is properly configured) and the password for the tbsmadmin user that will be created

	Common Configurations	
Common Configurations	Impact Server Details	
W Impact Server Details	TRSM convisos usos Notsool/im	maet energie Modele, datare une an
Data Server Information	service. Please Enter the Impa	ct details
O TRSM Data Server Database I	Impact Server Host:	crybaby1.castle.fyre.ibm.com
C TRSM Metric History Database		
Object Server Details	Impact Directory:	/Miha/opt/IBM/tivoli/impact Browse.
TBSM DataServer User Regist	Impact BackEnd Port:	9080
Jazz for SM Server Details		
, DataServer Data Source and I	Impact BackEnd HTTPS <u>P</u> ort:	9081
TADDM Connectivity Configura	Impact Lizer:	impactadmin
TADDM Database Configuratic	Impact Oser.	inpaceunin
Discovery Library Book Import	Impact User Password:	•••••
Discovery Library Book Export		
	<u>C</u> onfirm Password:	•••••
	tbsmadmin User Password:	•••••
	<u>C</u> onfirm Password:	••••••
	If failover will be setup and server, select the following	this Data server will be the backup check box
	Designated Backup Serve	-

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

IBM Installation Manager	-		>
Install Packages Fill in the configurations for the packages.		->	
Install Prerequisite Lid Common Configurations Impact Server Details Data Server Information TBSM Data Server Database I TBSM Metric Marker Database TBSM Metric History Database Object Server Details TBSM DataServer User Regist Jazz for SM Server Details DataServer Data Source and I TADDM Connectivity Configuratic Discovery Library Book Import Discovery Library Book Export	Location     Features     Summary       Common Configurations     Data Server Information       Data Server Information for the Data Server     Communication Port:       17542     Impact Server Command line port:       2000     2000		
٥	< <u>B</u> ack <u>N</u> ext > <u>Install</u>	Canc	el

- enter TBSM Data Server Database information as configured during DB2 installation

Common Configurations	Common Configurations	
Impact Server Details	TBSM Data Server Database Information	
Data Server Information	Enter the information for the TBSM Data Ser	ver Database. This is the
😴 TBSM Data Server Database I	database where TBSM stores its services, ter component registry	nplates, and the service
😳 TBSM Metric Marker Database	Database Name (maximum 8 characters):	TBSM
👩 TBSM Metric History Database		
Object Server Details	Database Host Name Or IP Address:	yobs1.castle.fyre.ibm.com
TBSM DataServer User Regist	Database Port Number	50000
Jazz for SM Server Details	Database Fort Humber.	50000
DataServer Data Source and I	Database User ID:	db2inst1
TADDM Connectivity Configura		
TADDM Database Configuratic	Database Password:	•••••
Discovery Library Book Import	Confirm Password:	******
Discovery Library Book Export		

Common Configurations	Common Configurations	
<ul> <li>Impact Server Details</li> <li>Data Server Information</li> <li>TRSM Data Server Database I</li> </ul>	Enter the information for the TBSM Metric M database TBSM usess to store metric marker	arker Database. This is the 's configured for overlaying
TBSM Data Server Database	Database Name (maximum 8 characters):	TBSM
Object Server Details	Database Host Name Or IP Address:	yobs1.castle.fyre.ibm.com
TBSM DataServer User Regist Jazz for SM Server Details	Database Port Number:	50000
DataServer Data Source and I	Database User ID:	db2inst1
TADDM Connectivity Configuratic	Database Password:	•••••
Discovery Library Book Import Discovery Library Book Export	Confirm Password:	•••••

Install Prerequisite	Licenses Location Features	Summary
Common Configurations	Common Configurations TBSM Metric History Database Information	istory Database This is the
TBSM Data Server Database	database TBSM uses to store the history of t configured for the collection and display with	he values for metrics that are the Time Window analyzer
TBSM Metric Marker Databas TBSM Metric History Databas	e Database Name (maximum 8 characters):	TBSMHIST
Object Server Details	Database Host Name Or IP Address:	yobs1.castle.fyre.ibm.com
Jazz for SM Server Details	Database Port Number:	50000
DataServer Data Source and TADDM Connectivity Configu	Database User ID:	db2inst1
TADDM Database Configurati	c Database Password:	•••••
Discovery Library Book Expo	t Confirm Password: t	•••••

- enter object server details:

and a second sec		1
Install Prerequisite	Licenses Location	Features Summary
<ul> <li>Common Configurations</li> <li>Impact Server Details</li> </ul>	Common Configurations Object Server Details	
<ul> <li>Data Server Information</li> <li>TBSM Data Server Database</li> <li>TBSM Metric Marker Database</li> </ul>	TBSM will need an event source OMNIbus. Other types of event enter the Host and Port for you validation of this panel takes m	e. By default, it will connect to Netcool/ t sources require manual configuration. Please ur Netcool/OMIblus Server.Please note the inimum four minutes of time.
TBSM Metric History Databas	objectServer Host Name:	crybaby1.castle.fyre.ibm.com
Object Server Details	ObjectServer Port Number:	4100
Jazz for SM Server Details	ObjectServer User ID:	root
DataServer Data Source and	ObjectServer User Reserverd	
TADDM Connectivity Configurat	ni objectoerver oser Password.	
Discovery Library Book Impo	Confirm Password: rt	
Discovery Library Book Expo	rt -	
nstall Packages		-
nstall Packages Fill in the configurations for the packages.	Licenses Location	Features Summary
Install Packages         Fill in the configurations for the packages.         Install       Prerequisite         Install       Prerequisite         Install       Prerequisite         Install       Prerequisite         Install       Prerequisite         Install       Prerequisite	Licenses Location Common Configurations TBSM DataServer User Registry I	Features Summary
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Install Packages         Fill in the configurations for the packages.         Install       Prerequisite         Install       Prerequisite         Impact Server Details       Data Server Details         Data Server Information       TBSM Data Server Database         TBSM Metric Marker Database       TBSM Metric History Database         Object Server Details       Object Server Details         Impact Server Details       TBSM Metric History Database         Impact Server Details       Jazz for SM Server Details	Licenses Location Common Configurations TBSM DataServer User Registry I Omnibus is Already Configured Output User Registry Already Configured User Registry Already Configured	Features Summary Details
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Install Packages Fill in the configurations for the packages Fill in the configurations for the packages. Install Prerequisite Common Configurations Impact Server Details Data Server Database TBSM Metric History Database TabDM Database Configuration TADDM Database Configuration Discovery Library Book Impo Discovery Library Book Impo	Licenses Location Common Configurations TBSM DataServer User Registry I Omnibus is Already Configured Output User Registry Already Configured User Registry Already Configured Confi	Features Summary Details
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- enter Jazz SM details, make sure to add the correct FQDN from server 2 where JazzSM is installed

Install Packages Fill in the configurations for the packages.	4
Fill in the configurations for the packages.  Install Prerequisite Lii  Common Configurations Impact Server Details Data Server Information TBSM Data Server Database TBSM Metric Marker Database Object Server Details TBSM DataServer User Regist DataServer Data Source and I TADDM Connectivity Configuratic Discovery Library Book Import Discovery Library Book Export	enses Location Features Summary Common Configurations Jazz for SM Server Details JazzSM Host Name: yobs1.castle.fyre.ibm.com JazzSM HTTPS Port Number: 16311
IBM Installation Manager         Install Packages         Fill in the configurations for the packages.	< Back Next > Install Cancel 
Install Prerequisite I Common Configurations Data Server Details Data Server Information TBSM Data Server Database TBSM Metric History Database Diject Server Details Diject Server Details DataServer Data Source and TADDM Connectivity Configur TADDM Database Configurati Discovery Library Book Expor	icenses       Location       Features       Summary         Common Configurations       DataServer Data Source and DB Selection         The toolkit supports two data sources:Tivoli Application Dependency Discovery Library Books       Please select the data source(s) that will be used.         Image:       Discovery Library Books       Tivoli Application Dependency Discovery Manager (TADDM)         RMI Registry Port:       12315

Install Packages		
Fill in the configurations for the packages.		1
Install Prerequisite Li	censes Location Feature	es Summary
▼ 🧊 Common Configurations	Common Configurations	
Impact Server Details	RUUM Database Configuration	
Data Server Information	Configuration Definitions for Connectir	ng to the TADDM Database.
TBSM Data Server Database	IBM DB2	
TBSM Metric History Database	Oracle	
🐷 Object Server Details		
TBSM DataServer User Regist	Database User ID:	db2inst1
Jazz for SM Server Details	Database Password:	
TADDM Connectivity Configura	Confirm the Database Password:	
🤿 TADDM Database Configuratio		
Discovery Library Book Import	Database Host Name or IP Address:	tother1.castle.fyre.ibm.com
Discovery Library Book Export	Port used by the Database:	50000
	Database Name:	СМДВ
	Database Salari	
	u atabase Schemä:	
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Review the summary inform	nation.
Install Prerequ	isite Licenses Location Features Summary
larget Location	
Package Group Name:	IBM Tivoli Business Service Manager
Installation Directory:	/Miha/opt/IBM/tivoli/tbsm
Shared Resources Director	y. /Miha/opt/IBM/IBMIMShared
Packages	
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Environment	Disk Space Information
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Environment English • Repository Informati	Disk Space Information Total Availabl / 21 Total Oownload Size: 232.25 MB Total Installation Size: 748.71 MB

- make sure everything completed successfully:



Install TBSM Secondary Data Server

Make sure Impact Primary server is running and also that the Impact Secondary server is running.

- go to the directory where TBSM was extracted on server 2 and from here to data\_linux directory and run the following command and select TBSM Data Server to be installed:

[root@codding1 tmptbsm]# cd data\_linux/
[root@codding1 data\_linux]# ./install\_gui\_data.sh

nstallation Packages IBM Tivoi: Business Service Manager Data Server	Status	Vendor
🖌 🎁 IBM Tivoli Business Service Manager Data Server		

- enter the installation directory path for TBSM data server

Install / Prerequisite / L	icenses Lo	ation Features Sun	nmary
Use the existing package group			
<u>Create a new package group</u>			
Package Group Name	Insta	llation Directory	Archite
🧤 IBM Tivoli Business Service Manag	ger /Miha/	opt/IBM/tivoli/tbsm	64-bit
Architecture Selection:	64.bit		Browse
Architecture Selection: 32-bit	64-bit		B <u>r</u> owse
Instanation Directory. [Mina/opt/IBM/t	64-bit	Disk Space Informat	Browse.
Instaliation <u>Directory</u> Architecture Selection: 32-bit Details Shared Resources Directory: //liha/opt/IB	64-bit M/IBMIMShared	Disk Space Informat Volume Available S	ion pace
Instaliation Directory: Mina/opt/IBM/t Architecture Selection: 32-bit Details Shared Resources Directory: /Mina/opt/IB	64-bit M/IBMIMShared	Disk Space Informat Volume Available S / 211.85 GB	ion pace
Architecture Selection: 32-bit Details Shared Resources Directory. //Miha/opt/IB	oolytbsm 64-bit M/IBMIMShared	Disk Space Informat Volume Available S / 211.85 GB	Browse.

- enter Impact server username details (for host details FQDN is required, make sure /etc/hosts is properly configured) and the password for the tbsmadmin;
- it is important that the Designated Backup Server to be checked

		Summery J
Common Configurations	Common Configurations	
🔂 Impact Server Details	TBSM services uses Netcool/Im	nact specific Models, datasource, types a
Data Server Information	service. Please Enter the Impa	ct details
() TBSM Data Server Database I	Impact <u>S</u> erver Host:	codding1.castle.fyre.ibm.com
O TBSM Metric Marker Database		
(3) TBSM Metric History Database	Impact Directory:	/Miha/opt/IBM/tivoli/impact Browse
😳 Object Server Details	Impact BackEnd Port:	9080
TBSM DataServer User Regist		
Jazz for SM Server Details	Impact BackEnd HTTPS Port:	9081
TADDM Connectivity Configure	Import Lines	imperant admin
TADDM Connectivity Conligura	impact <u>o</u> ser.	impactaumin
Discovery Library Book Import	Impact User Password:	•••••
Discovery Library Book Export		
	<u>C</u> onfirm Password:	•••••
	tbsm <u>a</u> dmin User Password:	•••••
	<u>C</u> onfirm Password:	•••••
	If failover will be setup and server, select the following	this Data server will be the backup check box
	🕑 Designated Backup Server	r

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

IBM Installation Manager	-	
Install Packages Fill in the configurations for the packages.		
Install Prerequiste L Common Configurations Impact Server Details Data Server Information TBSM Data Server Database I TBSM Metric Marker Database TBSM Metric Marker Database TBSM DataServer User Regist Jazz for SM Server Details DataServer Details DataServer Data Source and I TADDM Connectivity Configuratio Discovery Library Book Export	Instrume         Summary           Common Configurations         Data Server Information           Provide following information for the Data Server         Communication Port:           17542         Irrpact Server Command line port:           2000         2000	
0	< <u>B</u> ack <u>N</u> ext > <u>Install</u>	Cancel

- enter TBSM Data Server Database information as configured during DB2 installation

Inscall Prerequisite Li	Location Peacures	summary
🗊 Common Configurations 🔄 Impact Server Details	Common Configurations TBSM Data Server Database Information	
Data Server Information TBSM Data Server Database I	Enter the information for the TBSM Data Se database where TBSM stores its services, ter component registry	rver Database. This is the mplates, and the service
C TBSM Metric Marker Database TBSM Metric History Database	Database Name (maximum 8 characters):	TBSM
Object Server Details	Database Host Name Or IP Address:	yobs1.castle.fyre.ibm.com
Jazz for SM Server Details	Database Port Number:	50000
DataServer Data Source and I TADDM Connectivity Configura	Database User ID:	db2inst1
TADDM Database Configuratic	Database Password:	•••••
Discovery Library Book Import Discovery Library Book Export	Confirm Password:	•••••

install / Prerequisite / Li	Location Features	summary
Common Configurations Impact Server Details Data Server Information TBSM Data Server Database I TBSM Metric Marker Database TBSM Metric History Database Object Server Details	Common Configurations TBSM Metric Marker Database Information Enter the information for the TBSM Metric M database TBSM usess to store metric marker historical values in the Time Window analyzer Database Name (maximum 8 characters): Database Host Name Or IP Address:	arker D atabase. This is the s configured for overlaying TBSM yobs1.castle.fyre.ibm.com
TBSM DataServer User Regist Jazz for SM Server Details DataServer Data Source and I TADDM Connectivity Configur: TADDM Database Configuratic Discovery Library Book Import Discovery Library Book Export	Database Port Number: Database User ID: Database Password: Confirm Password:	50000 db2inst1 ••••••

Install / Prerequisite / Li	censes <u>Location</u> Features	Summary
<ul> <li>Common Configurations</li> <li>Impact Server Details</li> <li>Data Server Information</li> <li>TBSM Data Server Database I</li> <li>TBSM Metric Marker Database</li> <li>TBSM Metric History Database</li> <li>Object Server Details</li> <li>TBSM DataServer User Regist</li> <li>Jazz for SM Server Data Source and I</li> <li>TADDM Connectivity Configuratic</li> <li>Discovery Library Book Import</li> <li>Discovery Library Book Export</li> </ul>	Common Configurations TBSM Metric History Database Information Enter the information for the TBSM Metric Hi database TBSM uses to store the history of t configured for the collection and display with t Database Name (maximum 8 characters): Database Name (maximum 8 characters): Database Host Name Or IP Address: Database Host Name Or IP Address: Database Port Number: Database User ID: Database Password: Confirm Password:	istory Database. This is the he values for metrics that are the Time Window analyzer TBSMHIST yobs1.castle.fyre.ibm.com S0000 db2inst1

- enter object server details:

install Prerequisite En	Location	reatures Summary
<ul> <li>Common Configurations</li> <li>Impact Server Details</li> <li>Data Server Information</li> <li>TBSM Data Server Database I</li> </ul>	Common Configurations Object Server Details TBSM will need an event source OMNIbus. Other types of event enter the Host and Port for you usidation of this need takes most back	a. By default, it will connect to Netcool/ t sources require manual configuration. Please ur Netcool/OMNIbus ServerPlease note the interact for which as of the second
TBSM Metric Marker Database	ObjectServer Host Name:	crybaby1.castle.fyre.ibm.com
Object Server Details     TBSM DataServer User Regist	ObjectServer Port Number:	4100
Jazz for SM Server Details	ObjectServer User ID:	root
DataServer Data Source and I TADDM Connectivity Configur:	ObjectServer User Password:	
TADDM Database Configuratic Discovery Library Book Import	Confirm Password:	
Discovery Library Book Export		

Install > Prerequisite > Li	censes Location Features Summary
Common Configurations Common Configurations Data Server Details Data Server Information TBSM Data Server Database I TBSM Metric Marker Database Object Server Details TBSM DataServer User Regist Jazz for SM Server Details DataServer Data Source and I TADDM Connectivity Configuratic Discovery Library Book Import Discovery Library Book Export	Common Configurations TBSM DataServer User Registry Details Omnibus is Already Configured. User Registry Already Configured

- enter Jazz SM details, make sure to add the correct FQDN from server 2 where JazzSM is installed

	Install Prerequisite Lie	tenses Location	Features Summary	
	Common Configurations Impact Server Details	Common Configurations Jazz for SM Server Details		
	Data Server Information TBSM Data Server Database I	JazzSM Host Name:	yobs1.castle.fyre.ibm.com	
	🔄 TBSM Metric Marker Database	JazzSM HTTPS Port Number:	16311	
	TBSM Metric History Database     Object Server Details     TBSM DataServer User Regist			
	lazz for SM Server Details			
	DataServer Data Source and I			
	TADDM Connectivity Configura			
	TADDM Database Configuratic			
	Discovery Library Book Import			
	Discovery Library Book Export			
_				

Install     Prerequisite     Licenses <ul> <li>Common Configurations</li> <li>Impact Server Details</li> <li>Data Server Information</li> <li>TBSM Data Server Database I</li> <li>TBSM Metric Marker Database</li> <li>TBSM Metric History Database</li> <li>Object Server Details</li> <li>Jazz for SM Server Datab</li> <li>TADDM Connectivity Configuration</li> <li>TADDM Connectivity Configuration</li> <li>TADDM Database Configuration</li> <li>Discovery Library Book Import</li> </ul> <li>RMI Regist</li>	Location Configurations Data Source and t supports two da (TADDM) and Dis elect the data overy Library Boo i Application Deper itry Port: 123	Features d DB Selection ata sources:Tivoli Appli scovery Library Books source(s) that will oks endency Discovery Ma 315	Summary	Discovery
Discovery Library Book Export				

Install Prerequisite L	icenses Location Feature	es Summary
<ul> <li>Common Configurations</li> <li>Impact Server Details</li> </ul>	Common Configurations TADDM Database Configuration	
Data Server Information	Configuration Definitions for Connectin	ig to the TADDM Database.
🔯 TBSM Data Server Database I 😨 TBSM Metric Marker Database	IBM DB2	
🐷 TBSM Metric History Database 😨 Object Server Details	Oracle	
TBSM DataServer User Regist	Database User ID:	db2instl
💟 Jazz for SM Server Details 💟 DataServer Data Source and	Database Password:	
TADDM Connectivity Configuration TADDM Database Configuration	Confirm the Database Password:	
Discovery Library Book Import	Database Host Name or IP Address:	tother1.castle.fyre.ibm.com
Discovery Library Book Export	Port used by the Database:	50000
	Database Name:	СМДВ
	Database Schema:	




BM Installation Manager	- 0	>
Install Packages		
Review the summary infor	mation.	-
Install Process	irite Licenses Location Features Community	
Target Location	Joke Literses Location Peatures Summary	
Package Group Name:	IBM Tivoli Business Service Manager	
lastallation Directory	1.1 /	
installation Directory.		
Shared Resources Directo	ry: /Miha/opt/IBM/IBMIMShared	
Packages		
Environment Enalish	Disk Space Information	
Environment English	Disk Space Information Total Available Sp / 21116	pace
Environment English	Disk Space Information Total Available Sp / 211.16	pace 5 GB
Environment English	Disk Space Information Total Available Sp / 211.16 Total Download Size: 232.25 MB	oace 5 GB
Environment English	Disk Space Information Total Available Sp / 211.16 Total Download Size: 232.25 MB Total Installation Size: 748.71 MB	pace 6 GB
Environment English > Repository Informati	Disk Space Information Total Available Sp / 211.16 Total Download Size: 232.25 MB Total Installation Size: 748.71 MB	pace 6 GB
Environment English ) Repository Informati	Disk Space Information Total Available Sp / 211.16 Total Download Size: 232.25 MB Total Installation Size: 748.71 MB	pace G GB

- make sure everything completed successfully:

Install Packages		-
	The packages are installed. <u>View Log File</u>	
	The following package was installed:	
	▼ <sup>P</sup> <sub>Eg</sub> IBM Tivoli Business Service Manager () IBM Tivoli Business Service Manager Data S	
	Note: If the packages support rollback, the temporary directory contains rollback files for installed packages. You can delete the files on the <u>Files for rollback</u> preference page.	
•		<u>F</u> inish

## Install TBSM Dashboard Server

TBSM 6.2 package should be extracted on server 3 as well where WAS, JazzSM and webgui are installed. On this server TBSM Dash Server should be installed.

Make sure webgui is up and running.

- go to the directory where TBSM was extracted and from here to dash\_linux directory
- run the following command:

./install\_gui\_dash.sh

```
[root@yobs1 tmptbsm]# cd dash_linux/
[root@yobs1 dash_linux]#
[root@yobs1 dash_linux]#
[root@yobs1 dash_linux]# ./install_gui_dash.sh
```

- select TBSM 6.2 Dashboard component to be installed:

BM Installation Manager	-		×
Install Packages Select packages to install:		-	
Installation Packages Status	Vendor		_
$\mathbf{M}_{0}$ Version 6.2.0.0 Will be installed	IBM		
Show all versions	<u>C</u> heck fo	r Other V	'ers
Vecans IBM Tivoli Business Service Manager Dashboard Server 6.2.0.0 IBM Tivoli Business Service Manager Dashboard Server 6.2.0.0 <u>More info</u> • Repository: /MihaitmpTBSM/dash_linux/dash_media_linux/disk1			
) ( <u>Next</u> >	Install	Can	cel

- enter installation directory for TBSM Dashboard server

common package group one.	and will share a common user in	terface. Select an existing package group, or create	a new
Install Prere	quisite Licenses (	Location Features Summary	
<u>C</u> reate a new packat	ge group		
Package Group Nam	e	Installation Directory	Archited
18M Tivoli Busine	ss Service Manager	/Miha/opt/IBM/tivoli/tbsmdash	64-bit
Package Group Name: II Installation <u>D</u> irectory.	BM Tivoli Business Service Mana /Miha/opt/IBM/tivoli/tbsmdash	Iger	B <u>r</u> owse
Package Group Name: II Installation Directory:	BM Tivoli Business Service Mana /Miha/opt/IBM/tivoli/tbsmdash	sger	Browse
Package Group Name: Il Installation <u>D</u> irectory:	BM Tivoli Business Service Mana /Miha/opt/IBM/tivoli(tbsmdash 32-bit (a) 64-bit	iger	Browse
Package Group Name: II Installation <u>D</u> irectory. ( Architecture Selection: Details	BM Tivoli Business Service Mana /Mha/opt/IBM/tivoli(tbsmdash 32-bit () 64-bit	iger Disk Space Information	Browse
Package Group Name: II Installation Directory: ( Architecture Selection: Details Shared Resources Direct	BM Tivoli Business Service Mana /Mihalopt/IBM/tivoli(tbsmdash 32-bit ) 64-bit tory: /Mihalopt/IBM/IBMIMShare	iger Disk Space Information id Volume Available Space	Browse
Package Group Name: II Installation Directory. Architecture Selection: Details Shared Resources Direct	BM Tivoli Business Service Mana /Miha/opt/IBM/tivoli/tbsmdash 32-bit () 64-bit tory: /Miha/opt/IBM/IBMIMShare	ager Disk Space Information d Volume Available Space / 219.84 GB	Browse
Package Group Name: II Installation <u>D</u> irectory: Architecture Selection: Details Shared Resources Direct	BM Tivoli Business Service Mana /Miha/opt/IBM/tivoli/tbsmdash 32-bit (a) 64-bit tory: /Miha/opt/IBM/IBMIMShare	ager Disk Space Information Id Volume Available Space / 219.84 GB	Browse

- enter Jazz SM and WebGUI details (make sure you entered the correct installation paths, JazzSM port, smadmin and tbsmadmin password).

Install Prerequisite Li	censes Location	Featu	ires 🔰 Summa	ary	
Common Configurations Lazz for SM Details	Common Configuration Jazz for SM Details	IS			
Dashboard Server Configurati	JazzSM Host Name:	yobs1.cast	le.fyre.ibm.com		
O ashboard Server Omnibus D	Jazz For SM Directory.	/Miha/opt/I	BM/JazzSM	Brow	se.
TBSM Dashboard Server User	JazzSM Port Number:	16311			
	Provide the administrati profile in the WebSphere used to log in to JazzSM	ive User ID an Application S	d Password used for erver.The User ID ar	r creatiing a JazzSi nd Password will b	M e
	JazzSM User ID:	smadmin			
	JazzSM Password:	•••••	)		
	Confirm Password:	•••••	•		
	Omnibus Web GUI Hon	ne Location:	/Miha/opt/IBM/ne	tcool/gu Brows	e
	tbsmadmin Password:	•••••	••		
	Confirm Password:	••••	••		

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

BM Installation Manager				-		×
Install Packages Fill in the configurations for the packages.					->	
Install Prerequisite L	icenses Location Features		Summary			
	Common Configurations Dashboard Server Configuration					
<ul> <li>Impact Server Details</li> <li>Dashboard Server Omnibus D</li> <li>TBSM Dashboard Server User</li> </ul>	Deshboard Server Communication Port:	1754:	3			
0	< <u>B</u> ack N	ext >	Inst	all	Can	cel

- enter impact primary server details as you have installed it on server1, select "Data Server HA/FO Configured" option and enter the secondary impact server details as well:

Install Prerequisite Li	censes Location	Features Summary
Common Configurations Jazz for SM Details	Common Configurations Impact Server Details	
Dashboard Server Configurations Dashboard Server Details	Impact Host Name:	crybaby1.castle.fyre.ibm.com
<ul> <li>O ashboard Server Omnibus D</li> </ul>	Impact RMI Port:	17542
TBSM Dashboard Server User	Impact HTTP Port:	9080
	Impact HTTPS Port:	9081
	ImpactGUI HTTP Port:	16310
	ImpactGUI HTTPS Port:	16311
	Impact User:	impactadmin
	Impact Password:	•••••
	Impact Confirm Password:	•••••
	🗹 Data Server HA/FO Cor	nfigured
	Secondary Impact Server D	etails
	Impact Host Name:	codding1.castle.fyre.ibm.com
	Impact RMI Port:	17542

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

Install Prerequisite Lic	enses Location	Features Summary
<ul> <li>Common Configurations</li> <li>Jazz for SM Details</li> <li>Dashboard Server Configurati</li> <li>Impact Server Details</li> </ul>	Common Configurations Dashboard Server Omnibus I TBSM will need an event so Other types of event sourd Host and Port for your Net	Details purce. By default, it will connect to Netcool/OMNIbus res require manual configuration. Please enter the cool/OMNIbus server.
💎 Dashboard Server Omnibus D	ObjectServer Host:	crybaby1.castle.fyre.ibm.com
185M Dashboard Server User	ObjectServer Port:	4100
	ObjectServer User:	root
	ObjectServer Password:	
	Confirmation Password:	

- 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

Install Prerequisite L	censes Location	Features Summary			
<ul> <li>Common Configurations</li> <li>Lazz for SM Details</li> </ul>	Common Configurations TBSM Dashboard Server User Registry Details				
<ul> <li>Dashboard Server Configuration</li> <li>Impact Server Details</li> </ul>	File Based				
Dashboard Server Omnibus D TBSM Dashboard Server User	Object Server				
W. Hard	User Registry Object Server De	tails			
	ObjectServer Host Name:	crybaby1.castle.fyre.ibm.com			
	ObjectServer Port Number:	4100			
	ObjectServer User ID:	root			
	ObjectServer User Password:				
	Confirm Password:				

- continue with the installation and make sure everything completed successfully:



Further you can test TBSM 6.2 features and failover capabilities.



Hope you'll find this useful for your TBSM 6.2 failover configuration!