Test Data Management

Software Version 24.1.0

Installation Guide

opentext

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Documentation updates

The title page of this document contains the following identifying information:

- Software Version number, which indicates the software version.
- Document Release Date, which changes each time the document is updated.
- Software Release Date, which indicates the release date of this version of the software.

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TDM Installation

Prerequisites

TDM product is an add on to the SDM core, so SDM system specifications must be met and SDM must be installed.

TDM verification results with SDM in terms of the compatibility are given below.

 \checkmark : Compatible , X: Incompatible

	SDM 7.6.6	SDM 7.6.7	SDM 23.2	SDM 24.1
TDM 1.0.0	\checkmark	\checkmark	Х	Х
TDM 2.0.0	х	\checkmark	\checkmark	Х
TDM 2.1.0	x	\checkmark	\checkmark	Х
TDM 2.1.1	x	\checkmark	\checkmark	Х
TDM 24.1.0	x	x	\checkmark	\checkmark

NOTE:

- UI/UX changes have been made in TDM 24.1.0 and SDM 24.1.0 versions in accordance with OpenText standards.
- When trying to use version 24.1.0 and previous versions together, visual incompatibility will occur.

Windows installation

Prepare for install

To install TDM, follow the steps given below, respectively:

- 1. SDM Repository must be installed via SDM Web Console priorly.
- 2. If SDM is up and running, you need to stop it.
- 3. If you are initially installing TDM , follow the steps below.
 - Go to the TDM DB Scripts > TDM Initial Installation directory.
 - Download the script file of the version you want to install.
 - Connect to the database and run the SQL script to create the TDM Schemas.

If you are upgrading TDM from any of the previous versions, follow the steps below.

- Go to TDM DB Scripts > TDM Upgrade directory.
- Download the SQL script files start ing from your current version to the version you are installing, e.g., if you are using TDM 1.0.0 and want to install TDM 24.1, you need the scripts given below.
 - TDM_DB_Upgrade_v1.0.0 v2.0.0
 - TDM_DB_Upgrade_v2.0.0 v2.1.0
 - TDM_DB_Upgrade_v2.1.0 v2.1.1
 - TDM_DB_Upgrade_v2.1.1 v24.1
- Connect to the database and run them respectively.
- 4. Follow the steps given in the Certificate configuration, on page 19 section.
- 5. In case Docker Engine has not already been installed on the machine, download and install Docker Engine from Docker Engine first.

For Windows Virtual Servers, refer to the Docker Installation on Windows Virtual Machines document.

- 6. Run Docker Engine, if it is not already running.
- 7. Open the command line/terminal and test the Docker Installation with the hello world container by executing the **docker run hello-world** command.
- 8. Find and download TDMInstaller.jar and TDMInstaller.bat in the installation directory.
- 9. Copy **TDMInstaller.jar** and **TDMInstaller.bat** to **../SDM~/obt/bin** directory.
- 10. Open the command line/terminal and place to ../SDM~/obt/bin directory path.

11. Run TDMInstaller.bat.

12. After seeing the Welcome Panel, go to Installation, on the next page section.

Installation

1. Check the version of TDM, before starting the installation via the Welcome panel . If it is OK, click **Next**.



Figure 1: Welcome Panel for Windows

2. Summary Configuration Data panel shows the installation path of TDM. Click Next.



Figure 2: Installation Path for Windows

- 3. Enter Host, Port, Database, Username, Password, and SDM Schema for Postgres database connection. SDG (Synthetic Data Generation) Api URL must point to the same machine IP and end with port number 4101 and must be HTTPS protocol. The SDM Encryption Key must be the same as the key that was entered when the repository installation was done. The Extensions Path must point the SDM\OBTHOME\extensions directory.
- 4. Click Next.

📓 IzPack - Installatio	on of TDM	– 🗆 X
User Data Step 4 of 8		opentext
7344	Please enter database	information
	Host :	localhost
	Port :	5432
	Database :	postgres
	Username :	postgres
	Password :	***
	SDM Schema :	obtrep
	SDG Api Url :	https:// <host_ip>:4101</host_ip>
Copyright 1997-2023 OpenText	SDM Encryption Key :	***
	Extensions Path :	C:\SDM\OBTHOME\extensions
(Made with IzPack - http://izpack.o	rg/)	🔶 Previous 🔶 Next 🛽 🚳 Quit

Figure 3: User Data Information for Windows

- 5. Choose the user interface Language.
- 6. Click Next.

📓 IzPack - Installation (of TDM			×
User Data Step 5 of 8		op	pent	ext™
MCT				
	Please choose user interface language			
	Language : English 💌			
Copyright 1997-2023 OpenText				
(Made with IzPack - http://izpack.org/) -	*	Previous	♦ Next	🛛 Quit

Figure 4: User Interface Language for Windows

7. The TDM database connection is tested and configured . Click Next.



Figure 5: Perform External Process Panel for Windows

8. On this page, user can observe the progress of the installation process. When the process is completed, click **Next**.

📓 IzPack - Install	ation of TDM		- X
Installation Step 7 of 8	l		opentext
TOM			
	Pack installation progress:		
		[Finished]	
	Overall installation progress:	6/6	
Copyright 1997-2023 OpenText			
(Made with IzPack - http://izp	ack.org/)		Previous Next Ouit

Figure 6: Installation Process for Windows Windows

CAUTION: If the Docker Desktop Filesharing window appears at this installation step, click **Share it**.

Docker Desktop Docker wants to \OBTHOME\ext Do you want to Docker Desktop	- Filesharing access to C:\SDM ensions. share it?						
Share it	Cancel						
Figure 7: Docker Desktop - Filesharing							

9. Installation Completed, TDM installed into the SDM. Click **Done**.



Figure 8: Installation Completed Panel for Windows

10. If the installed SDM version is 7.6.7 or over the below command must be executed from the terminal/command line. Directory paths in the command must be corrected according to the server that SDM is installed.

> copy\SDM~SDM~\obt\webconsole\apache-tomcat\webapps\WebConsole\WEB-INF\classes\sql.properties\SDM~SDM~\OBTHOME\extensions

- 11. Change Time Zone in SDM Installed Machine Using Docker.
 - a. Open a PowerShell terminal.
 - b. Run the following command to obtain the necessary container IDs:
 - > docker ps a

20NTAINER ID	NAMES
2e291f045e31	celery_worker
04ed3d7197d6	rabbitmq
36ad8180f7ea	sdg-api-1
37bf27a2789b	stupefied_wescoff

Identify the container ID for <sdg api 1 id>.

- c. Use the following command to enter the container:
 - > docker exec -it <sdg-api-1 id> /bin/bash
- d. Inside the container, run the following command to reconfigure the time zone:
 - > sudo dpkg-reconfigure tzdata

e. Select the appropriate time zone from the list provided. Make sure that the prompted Local time is the same with the SDM installed machine.



- f. To exit the container, use the following command:
 - > exit
- g. Restart the Docker container to apply the changes:
 - > docker restart <sdg-api-1 id>
- h. Run the following command to obtain the necessary container IDs:
 - > docker ps a

CONTAINER ID 2e291f045e31	NAMES celery_worker rabbitmg
36ad8180f7ea	sdg-api-1
37bf27a2789b	stupefied_wescoff

Identify the container ID for <celery_worker id>.

i. Use the following command to enter the container:

```
> docker exec -it <celery_worker id> /bin/bash
```

- j. Inside the container, run the following command to reconfigure the time zone:
 - > sudo dpkg-reconfigure tzdata
- k. Select the appropriate time zone from the list provided. Make sure that the prompted Local time is the same with the SDM installed machine.

in igu-ing 'czoaca										
ease select the geogr	aphic area		live. Subsequent (configuration qu		rrow this down			representing t	
1. Africa 2. America ographic area: 10					intic 8. Europ			. SystemV 12. US		
1. Apia 5. C 2. Auckland 6. E 3. Bougainville 7. E 4. Chatham 8. E me zone: 30	huuk aster fate inderbury	9. Fakaofo 10. Fiji 11. Funafuti 12. Galapagos	13. Gambier 14. Guadalcanal 15. Guam 16. Honolulu	17. Johnston 18. Kiritimati 19. Kosrae 20. Kwajalein	21. Majuro 22. Marquesas 23. Midway 24. Nauru	25. Niue 26. Norfolk 27. Noumea 28. Pago_Pago	29. Palau 30. Pitcairn 31. Pohnpei 32. Ponape	33. Port_Moresby 34. Rarotonga 35. Saipan 36. Samoa	37. Tahiti 38. Tarawa 39. Tongatapu 40. Truk	41. Wake 42. Wallis 43. Yap
rrent default time zo cal time is now: iversal Time is now:	one: 'Pacif Fri Jan Fri Jan	ic/Pitcairn' 5 11:01:58 -08 5 19:01:58 UTC	2024. 2024.							

I. To exit the container, use the following command:

> exit

- m. Restart the Docker container to apply the changes:
 - > docker restart <celery_worker id>

Now, the time zone of the SDM installed machine within the specified Docker container should be configured according to your selection.

Linux installation

Prepare for install

For installing TDM on Linux, follow the steps given below respectively.

- 1. SDM Repository must be installed via SDM Web Console priorly.
- 2. If SDM is up and running, you need to stop it.
- 3. If you are initially installing TDM, follow the steps below.
 - Go to the TDM DB Scripts > TDM Initial Installation directory.
 - Download the script file of the version you want to install.
 - Connect to the database and run the SQL script to create the TDM Schemas

If you are upgrading TDM from any of the previous versions, follow the steps below.

- Go to TDM DB Scripts > TDM Upgrade directory.
- Download the SQL script files start ing from your current version to the version you are installing, e.g., if you are using TDM 1.0.0 and want to install TDM 24.1, you need the scripts given below.
 - TDM_DB_Upgrade_v1.0.0 v2.0.0
 - TDM_DB_Upgrade_v2.0.0 v2.1.0
 - TDM_DB_Upgrade_v2.1.0 v2.1.1
 - TDM_DB_Upgrade_v2.1.1 v24.1
- Connect to the database and run them respectively.
- 4. Follow the steps given in the Certificate configuration, on page 19 section.
- 5. In case Docker Engine has not already been installed on the machine, download and install Docker Engine from Docker Engine first.
- 6. Run Docker Engine, if it is not already running.
- 7. Open the command line/terminal and test the Docker Installation with the hello world container by executing the **docker run hello-world** command.
- 8. Find and download TDMInstaller.jar and TDMInstaller.sh in the installation directory.
- 9. Copy **TDMInstaller.jar** and **TDMInstaller.sh** to **../SDM~/obt/bin** directory.
- 10. Open the command line/terminal and place to ../SDM~/obt/bin directory path
- 11. Run **TDMInstaller.sh**.
- 12. After seeing the Welcome Panel, go to Installation, on the next page section

Installation

1. Check the version of TDM, before starting the installation via the Welcome screen . If it is OK, press **1**.

```
root@kurulumtest:~/SDM/SDM2410/obt/bin# bash TDMInstaller.sh
ORIG_DIR: /root/SDM/SDM2410/obt/bin
ForceNewInstall=
/root/SDM/SDM2410/obt/config/obt.env found.
OBT_HOME = /root/SDM/OBTHOME
_ _ _ _ _ _ _ _ _ _ _ _ _
OBTBIN HOME=/root/SDM/SDM2410
DSCLIB_HOME=/root/SDM/SDM2410/obt/lib
DSCCFG_HOME=/root/SDM/SDM2410/obt/config
OBT_HOME =/root/SDM/OBTHOME
----- check for ForceNewInstall
Normal Install
upgrade mode
running...
Command line arguments: -console
Welcome
Welcome to the installation of TDM 24.1!
Press 1 to continue, 2 to quit, 3 to redisplay
```

Figure 9: Welcome Panel for Linux

- Type Host, Port, Database, Username, Password, and SDM Schema for Postgres database connection. SDG (Synthetic Data Generation) Api URL must point to the same machine IP and end with port number 4101 and must be HTTPS protocol, SDM Encryption Key must be the same as the key that was entered when repository installation was done. The Extensions Path must point the SDM OBTHOME extensions directory.
- 3. Press 1 to continue.



Figure 10: User Data Information for Linux

- 4. Press **0** to choose English as the user interface language.
- 5. Press **1** to continue.



Figure 11: Language Selection for Linux

6. On this page, user can observe the progress of the installation process. When the process is complete, Installation Finished appears.

Perform External Processes
[Starting processing] Starting process setup (1/2) Starting process setup1 (2/2)
Installation
Installation started Framework: 1.5.0_08 (Sun Microsystems Inc.) Platform: ubuntu_linux,version=5.15.0-89-generic,arch=x64,symbolicName=null,javaVersion=1.8.0_372 [Starting to unpack] [Processing package: core (1/6)] [Processing package: extensions (2/6)] [Processing package: sdg (3/6)] [Processing package: sdmconfig (4/6)] [Processing package: odo (5/6)] [Processing package: docker-files (6/6)]

Figure 12: Installation Complet ed Panel for Linux (1/2)



Figure 13: Installation Completed Panel for Linux (2/2)

7. If the installed SDM version is 7.6.7 or over, the below command must be executed. Directory paths in the command must be corrected according to the server that SDM is installed.

\$ cp SDM~SDM~/obt/webconsole/apache tomcat/webapps/WebConsole/WEB INF/classes/sql.properties..SDM~SDM~/OBTHOME/

- 8. Chang e Time Zone in SDM Installed Machine Using Docker.
 - a. Open a terminal.
 - b. Run the following command to obtain the necessary container IDs:
 - > docker ps a

CONTAINER ID	NAMES
2e291f045e31	celery_worker
04ed3d7197d6	rabbitmq
36ad8180f7ea	sdg-api-1
37bf27a2789b	stupefied_wescoff

Identify the container ID for <sdg api 1 id>.

c. Use the following command to enter the container:

> docker exec -it <sdg-api-1 id> /bin/bash

- d. Inside the container, run the following command to reconfigure the time zone:
 - > sudo dpkg-reconfigure tzdata
- e. Select the appropriate time zone from the list provided. Make sure that the prompted Local time is the same with the SDM installed machine.

Configuring tzdata	2									
Please select the	geographic are	ea in which you	live. Subsequent	configuration qu	estions will na	arrow this down	by presenting	a list of cities,	representing th	he time zones in which they are located.
1. Africa 2. A Geographic area: 1	erica 3. Anta LO	arctica 4. Aust			antic 8. Europ	pe 9. Indian 1		. SystemV 12. US		
Please select the	city or region	n corresponding	to your time zone							
1. Apia 2. Auckland 3. Bougainville 4. Chatham Time zone: 30	5. Chuuk 6. Easter 7. Efate 8. Enderbury	9. Fakaofo 10. Fiji 11. Funafuti 12. Galapagos	13. Gambier 14. Guadalcanal 15. Guam 16. Honolulu	17. Johnston 18. Kiritimati 19. Kosrae 20. Kwajalein	21. Majuro 22. Marquesas 23. Midway 24. Nauru	25. Niue 26. Norfolk 27. Noumea 28. Pago_Pago	29. Palau 30. Pitcairn 31. Pohnpei 32. Ponape	 Port_Moresby Rarotonga Saipan Samoa 	37. Tahiti 38. Tarawa 39. Tongatapu 40. Truk	41. Wake 42. Wallis 43. Yap
Current default ti Local time is now: Universal Time is	ime zone: 'Pac: Fri Jan now: Fri Jan	ific/Pitcairn' 5 11:01:58 -08 5 19:01:58 UTC	3 2024. 2024.							

f. To exit the container, use the following command:

> exit

- g. Restart the Docker container to apply the changes:
 - > docker restart <sdg-api-1 id>
- h. Run the following command to obtain the necessary container IDs:

> docker ps a



Identify the container ID for <celery_worker id>

i. Use the following command to enter the container:

> docker exec -it <celery_worker id> /bin/bash

- j. Inside the container, run the following command to reconfigure the time zone:
 - > sudo dpkg-reconfigure tzdata
- k. Select the appropriate time zone from the list provided. Make sure that the prompted Local time is the same with the SDM installed machine.



I. To exit the container, use the following command:

> exit

- m. Restart the Docker container to apply the changes:
 - > docker restart <celery_worker id>

Now, the time zone of the SDM installed machine within the specified Docker container should be configured according to your selection.

Certificate configuration

- 1. Place to SDM_ install_dir>/obt/bin directory.
- 2. Run the utility enable_ssl_for_wc.bat/sh.
- 3. Enter the hostname of the machine to the Host field.
- 4. Enter the hostname of the machine for the Subject Alternative name field for SDM 24.1.

Host:	mysdm.cyberres.opentext.com
Subject Alternative name:	localhost
Organization Unit:	CyberRes
Organization:	OpenText
City/Locality:	Newbury
State:	Berkshire
Two-letter Country Code:	UK

Figure 14: Certificate Configuration for Windows



Figure 15: Certificate Configuration for Linux (step by step)

5. Place to the folder **<SDM_ install_dir>/obt/webconsole/apache-tomcat/conf/**. Open and edit the **server.xml** file like below.

a. Comment out the following HTTP connector (the port number may vary based on your configuration):

<Connector port="8080" protocol="HTTP/1.1" connectionTimeout="60000" redirectPort="8443"/>

b. Add the following HTTPS connector (you can change the port number if needed):

```
<Connector port="8443" protocol="org.apache.coyote.http11.Http11NioProtocol"
maxThreads="150" SSLEnabled="true" scheme="https" secure="true"
clientAuth="false"
sslProtocol="TLS" sslEnabledProtocols="TLSv1.2"
keystoreFile="conf/SDMKeyStore.jks" keystoreType="JKS" keystorePass="
changeit" keyPass="changeit"/>
```

- 6. Place to <SDM_ install_dir>/obt/webconsole/apache-tomcat/conf.
 - a. For Windows
 - i. Install Key Store Explorer from https://keystore explorer.org/.
 - ii. Open the jks file using Key Store Explorer. The jks file SDMKeyStore.jks under the folder <SDM_ install_dir>\obt\webconsole\apache-tomcat\conf\. Default password is "changeit " (You can change the password from the keystorePass="changeit" input section that is added to the server.xml file).

➢ File Edit View Tools Examin ☐ ☐ ☐ ☐ ↓ ← → ↓ × № № ↓	Help Key TE % R TE = O	/Store Explorer 5.5.2		-	O	×
	Key	Store Explorer				
	🧩 Unlock KeySto	ore 'SDMKeyStore.jks'	×			
	Enter Password:		•			
		ОК	Cancel			
		Q	0			
	Open the CA	Examine a	Show the			
			11 A. S.			
No KeyStore Loaded						

Figure 16: KeyStore Explorer - Password

iii. Select sdmprivatekey and right click, select Export > Export Key Pair from the menu.

湊 File Edit View Tools Examine Help	SDMKeyS	tore.jks - Key	Store Explorer 5.5.2	- 0 >	×
🗅 🖴 🔤 (🖘 🥔 🖍 🗅 🗈) 🎇 % 🕱 🕾 🌘) 🖸 🛍 🕤	0			
SDMKeyStore.jks 🕱					
1 E Entry Name	Algorithm	Key Size	Certificate Expiry	Last Modified	_
🃅 🏥 🧭 sdmprivatekev	RSA	2048	01/11/2024, 10:57:07 TRT	02/11/2023, 10:57:07 TRT	
👮 - 🥝 sdmwebc 🔍 View Details 🛛 🗧	RSA	2048	01/11/2024, 10:57:07 TRT	02/11/2023, 10:57:07 TRT	
🔀 Cut Ctrl+X					
Copy Ctrl+C					
		-			
🚊 Export 🔰 🃅 Export Ke	ey Pair				
🧾 Generate CSR 🔗 Export Ce	ertificate Chain				
👮 Verify Certificate 🤶 Export Pr	ivate Key				
📩 Import CA Reply 🔰 🏆 Export Pu	ublic Key				
🦈 Edit Certificate Chain 🗧		_			
🛹 Sign >					
f Unlock					
Set Password					
× Delete					
T Rename					

Figure 17: Export Key Pair

iv. Enter the password. Password is " changeit".

🚊 📕 Entry Name		Algorithm	Key Size	Certificate Expiry	Last Modified
🚊 🧭 sdmprivatekey		RSA	2048	01/11/2024, 10:57:07 TRT	02/11/2023, 10:57:07 TR
	🧩 Unlock E	ntry 'sdmprivatekey	ć.	×	
	Enter Passw	ord:		0	
			C	ancel	

Figure 18: sdmprivatekey - Password

- v. Choose the **PEM** format and destination path for the PEM file and click **Export**.
- vi. Destination path must be **SDM\OBTHOME\extensions\certificates**. If there is no "certificates" folder under **SDM\OBTHOME\extensions**, you should create it. And the name of the PEM file must be **private_key.pem**.

Two password fields should not be filled.

sdmpriv	vatekey	RSA	2048	01/11/2024, 10:57:07 TRT	02/11/2023, 10:57:07 TF
	Password for Output File: Confirm Password: Export File:	12 • PEM	6	Brow	se
		-		Export Cance	9

Figure 19: Export Key Pair (1/2)

Image: Image	R 📅 📼 🕕 🙆 🖾 🤇 Algorithm RSA RSA	Key Size 2048 2048	Certificate Expiry 01/11/2024, 10:57:07 TRT 01/11/2024, 10:57:07 TRT	Last Modified 02/11/2023, 10:57:07 TRT 02/11/2023, 10:57:07 TRT	
Export Key Pair X Export Key Pair Successful.					
syStore Type: JKS, Size: 2 entries, Selected: 1 entry, P	ath: 'D∖SDMKeyStore.jks'				

Figure 20: Export Key Pair (1/2)

vii. Place to **SDM\OBTHOME\extensions\certificates**. Please make sure if the **private_ key.pem** file contains below pattern.

---- BEGIN PRIVATE KEY ----

```
--- END PRIVATE KEY ---
--- BEGIN CERTIFICATE ---
...
...
...
--- END CERTIFICATE ---
```

- viii. Copy private_key.pem and rename the file as certificate_key.pem.
- ix. Run SDM.
- x. Open the browser and enter URL as https://<hostmachinelP>:8443/WebConsole. SDM Login Page must be appear. If it does not appear, please control the steps.
- xi. Stop SDM.
- b. For Linux
 - i. Download Open SSL from the OpenSSL website.
 - ii. Place to SDM/obt/webconsole/apache-tomcat/conf folder.
 - iii. Create the folder **SDM/OBTHOME/extensions/certificates** and run the below commands respectively.
 - keytool -importkeystore -srckeystore SDMKeyStore.jks -destkeystore
 SDMKeyStore.p12 -srcstoretype jks -deststoretype pkcs12
 - openssl pkcs12 -in SDMKeyStore.p12 -nokeys -out certificate_key.pem legacy
 - openssl pkcs12 -in SDMKeyStore.p12 -nocerts -nodes -out private_ key.pem -legacy
 - iv. Move private_key.pem and certificate_key.pem files to the SDM/OBTHOME/extensions/certificates folder.

Make sure the files successfully moved to the folder.

- v. Run SDM.
- vi. Open the browser and enter URL as https://<hostmachinelP>:8443/WebConsole. SDM Login Page must be appear. If it does not appear, please control the steps.
- vii. Stop SDM.

Troubleshooting

Problems that may be encountered during the installation process are explained in this section with their possible solutions.

Issue	Solution
The old Docker Engine Container have not been deleted.	1. Type 'docker ps' into the terminal.
	2. The NAMES column of the returned table contains the 'sdg api 1' line. Copy the CONTAINER ID of this line.
	 Paste CONTAINER ID to the relevant place in the Docker by executing the 'docker rm f <container id="">' command in the terminal. This command deletes the old docker container.</container>
The old Docker Engine image have not been deleted.	Make sure the docker container is deleted , if any.
	1. Type 'docker ps' into the terminal.
	 The NAMES column of the returned table contains the 'sdg api 1' line. Copy the IMAGE of this line.
	3. Paste IMAGE to the relevant place in the Docker by executing the 'docker rmi f <image/> ' command in the terminal. This command deletes the old docker image.
	4. Restart the Docker Engine.
	5. Run the setup again.
Port 4101 may not be available.	Port 4101 should not be in use as the application uses port 4101.
	1. Detect and terminate the other application using port 4101.
	2. Restart the Docker Engine.

Issue	Solution
	3. Run the setup again.
Installation can be stuck in 'Loading new image'.	 Restart the Docker Engine. Run the setup again.
Installation can be stuck in 'Running new container'.	 Restart the Docker Engine. Run the setup again.
"Connection Error" in Synthetic Flow List Management.	Make sure Docker Engine is running.
When TDM is opened, "Exception while executing a Groovy script" error is appeared.	<pre>\$ cp /SDM~/obt/webconsole/apache tomcat/webapps/WebConsole/WE B INF/classes/sql.properties /SDM~/OBTHOME/extensions Make sure you run this command during the installation and check that it works properly.</pre>