Test Data Management

Software Version 24.2.0

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.
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TDM Installation

Prerequisites

The Test Data Management (TDM) is an add-on to the Structured Data Manager (SDM) and therefore must install and meet the system specifications of SDM.

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

 \checkmark : Compatible , X: Incompatible

Table 1-1: TDM verification results

	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	x	\checkmark	\checkmark	Х
TDM 2.1.0	x	\checkmark	\checkmark	Х
TDM 2.1.1	x	\checkmark	\checkmark	Х
TDM 24.1	x	х	\checkmark	\checkmark
TDM 24.2	x	x	\checkmark	\checkmark

NOTE:

• When trying to use version 24.2.0 and previous versions together, visual incompatibility may occur.

Installation Steps

The installation process consists of 4 parts. Installations are given below in sequence.

- 1. Create DB Schemas and Tables
- 2. Install TDM Web.
- 3. SSL Configuration (Optional)
- 4. Synthetic Data Generation (SDG) Engine Installation (Docker is a prerequisite)

Create DB Schemas and Tables

To create DB Schemas and Tables, 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 starting from your current version to the version you are installing, e.g., if you are using **TDM v1.0.0** and want to install **TDM 24.2**, 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
 - TDM_DB_Upgrade_v2.24.1 v24.2
- Connect to the database and run them respectively.

TDM WEB Installation

TDM Web installation is explained separately for Windows and Linux. Follow the relevant steps according to the operating system you use for installation.

Windows installation

Prepare for Install

To install TDM Web, follow the steps given below respectively.

- 1. Find and download TDMInstaller.jar and TDMInstaller.bat in the Installation directory.
- 2. Copy TDMInstaller.jar and TDMInstaller.bat to .../SDM~/obt/bin directory.
- 3. Open the command line/terminal and place to .../SDM~/obt/bin directory path.
- 4. Run TDMInstaller.bat.
- 5. After seeing the Welcome Panel, head to the 3.1.2. Installation section.

Installation

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



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

🕈 IzPack - Install	ation of TDM	—		\times
Summary C Step 3 of 8	Configuration Data	op	ente	ext™
ποτ	Installation will proceed with the following settin Installation Path C:SDM:SDM24101temp	ngs. Press Ne	xt to con	tinue.
Copyright 1997-2023 OpenText				
(Made with IzPack - http://izp	ack.org/)	Previous	▶ Next	Quit

3. Enter Host, Port, Database, Username, Password, and SDM Schema for Postgres database connection.

SDG (Synthetic Data Generation) Api URL must point to the IP of the machine on which the SDG Engine is installed, with port number **4101**. Since SDG Engine supports both HTTP and

HTTPS protocol connections, the SDG Api URL must be entered according to this configuration.

SDM Encryption Key must be the same as the key that was entered when the repository installation was done.

Extensions Path must point to the SDM\OBTHOME\extensions directory.

4. Click Next.

B IzPack - Installation	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
Constant and the second	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.org/)		🗢 Previous 🌔 Next) 🙆 Quit

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



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



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

📓 IzPack - Instal	lation of TDM		– 🗆 X
Installation Step 7 of 8	١		opentext
îΟM	Pack installation progress:		
		[Finished]	
	Overall installation progress:		
		6/6	
Copyright 1997-2023 OpenText			
, (Made with IzPack - http://izp	aak.org/)		Previous ▶ Next Solution Solution

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



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

Linux installation

Prepare for install

To install TDM Web on Linux, follow the steps given below respectively.

- 1. Find and download TDMInstaller.jar and TDMInstaller.sh (Linux) files in the Installation directory.
- 2. Copy TDMInstaller.sh and TDMInstaller.jar to the ../SDM~/obt/bin directory.
- 3. Open the command line/terminal and place to .../SDM~/obt/bin directory path.
- 4. Run TDMInstaller.sh.
- 5. Once Welcome screen displays, continue with installation in Installation.

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
```

2. Type Host, Port, Database, Username, Password, and SDM Schema for Postgres database connection.

SDG (Synthetic Data Generation) Api URL must point to the IP of the machine on which the SDG Engine will be installed, with port number **4101**. Since SDG Engine supports both HTTP and HTTPS protocol connections, the SDG Api URL must be entered according to this configuration.

SDM Encryption Key must be the same as the key that was entered when repository installation was done.

Extensions Path must point the SDM/OBTHOME/extensions directory.

3. Press 1 to continue.



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



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: sdg (3/6)] [Processing package: obt (5/6)] [Processing package: docker-files (6/6)]

Loading new images Loaded image: kafein/sd:0.5 Loaded image: rabbitmq:3.12-management Running new container /root/SDM/OBTHOME/docker/tdm_installation.sh: line 46: docker-compose: command not found
Enter O for OK, C to Cancel: O Enter O for OK, C to Cancel: o [Unpacking finished] Installation finished
Installation Finished
Installation was successful Application installed on /root/SDM/SDM2410/temp [Writing the uninstaller data] [Console installation done] Upgrade Mode root@kurulumtest:~/SDM/SDM2410/obt/bin#

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

SSL Configuration (Optional)

If SDM, TDM Web, and TDM WEB-SDG Engine connection will be used with SSL configuration, follow the steps below.

- 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	1	-		
Cubiect Alternative name:	laselhaat		-		
Subject Alternative hame.	locamost		-		
Organization Unit:	CyberRes		_		
Organization:	OpenText				
City/Locality:	Newbury				
State:	Berkshire				
Two-letter Country Code:	UK				
t@tdmdatatouch:~/SDM/SDM2320/obt/bi	Generate				
ot@tdmdatatouch:~/SDM/SDM2328/obt/bi ructured Data Manager: Enable SSL fo g≼j:WARN No appenders could be found	Generate n# bash enable_ssl_for_wc.sh r Web Console using self-signed ce for logger (org.apache.commons.co	rtificate	on.Prope	 rtiesConfigurat	cion).
ot@tdmdatatouch:~/SDM/SDM2320/obt/bi ructured Data Manager: Enable SSL fo gåjiWARN No appenders could be found gåjiWARN Sees initialize the logý gåjiWARN See http://logging.apache.o ter the details for self-signed cert	Generate n# bash enable_ssl_for_wc.sh r Web Console using self-signed ce for logger (org.apache.commons.co system properly. rg/log6j/1.2/faq.html#noconfig for ificate:	rtificate nfiguratio more info	on.Prope	 rtiesConfigurat	tion).
ot@tdmdatatouch:~/SDM/SDM2320/obt/bi ructured Data Manager: Enable SSL fo gdjiWARN No appenders could be found gdjiWARN Sease initialize the logd, gdjiWARN Sease initialize the logd, gdjiWARN Sease http://logging.apache.o ter the details for self-signed cert st: mysdm.cyberres.opentext.com ess <entef> to accept the default or calhost bject Alternative Name: localhost ess <entef> to accept the default or</entef></entef>	Generate n# bash enable_ssl_for_wc.sh r Web Console using self-signed ce for logger (org.apache.commons.co system properly. rg/log4j/1.2/faq.html#noconfig for ificate: enter new value enter new value	rtificate nfiguratio more info		 rtiesConfigurat	tion).
ot@tdmdatatouch:~/SDM/SDM2320/obt/bi ructured Data Manager: Enable SSL fo g4j;WARN No appenders could be found g4j;WARN Sease initialize the log4) g4j;WARN Sease initialize the log4) g4j;WARN Sease initialize the log4 g4j;WARN Sease initialize the log4 g4j;WARN Sease initialize the log4 g4;WARN Sease initialize the log4 g4;WARN Sease initialize the log4 g4;WARN Sease initialize the log4 state the default of ganization Unit: CyberRes ess <enter> to accept the default or</enter>	Generate n# bash enable_ssl_for_wc.sh r Web Console using self-signed ce for logger (org.apache.commons.co system properly. rg/log6j/1.2/faq.html#noconfig for incate: enter new value enter new value enter new value	rtificate nfiguration more info	on.Prope	 rtiesConfigurat	tion).
ot@tdmdatatouch:~/SDM/SDM2320/obt/bi ructured Data Manager: Enable SSL fo g4j:WARN No appenders could be found g4j:WARN Sease initialize the log4 g4j:WARN Sease initialize the log4 stimute the log2 set (ENTER) to accept the default or ganization Unit: CyberRes ess <enter> to accept the default or ganization: OpenText ess <enter> to accept the default or</enter></enter>	Generate n# bash enable_ssl_for_wc.sh r Web Console using self-signed ce for logger (org.apache.commons.co system properly. rg/log4j/1.2/faq.html#noconfig for ificate: • enter new value • enter new value • enter new value • enter new value	rtificate nfigurati, more info	on.Prope	 rtiesConfigurat	tion).
ot@tdmdatatouch:-/SDM/SDM2320/abt/bi ructured Data Manager: Enable SSL fo gdj:WARN No appenders could be found gdj:WARN Please initialize the logi gdj:WARN See http://logging.spache.o ter the details for self-signed cert st: mysdm.cyberres.opentext.com ess ceNTEP> to accept the default or ganization Unit: CyberRes ess cENTEP> to accept the default or ganization Unit: CyberRes ess ceNTEP> to accept the default or ganization: OpenText ess ceNTEP> to accept the default or ganization: OpenText ess ceNTEP> to accept the default or ty/Locality: Newbury ess centEP> to accept the default or	Generate n# bash enable_ssl_for_wc.sh r Web Console using solf-signed ce for logger (org.apache.commons.co system properly. rg/log6j/1.2/faq.html#noconfig for ificate: enter new value	rtificate nfiguratio	on.Prope	 rtiesConfigurat	tion).

- 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.

For Windows

- a. Install Key Store Explorer from https://keystore explorer.org/.
- b. 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 Examine Hel	p Key	Store Explorer 5.5.2			 0	×
0 🗃 🖬 (🗠 🖛 🗙 🗞 🖬 (🕾 S	A 12 = 0	000				
	Keys	tore Explore	r			
	🐥 Unlock KeyStor	re 'SDMKeyStore.jks'	×			
	Enter Password:		•			
		ОК	Cancel	ro		
		Q	0			
c	Open the CA entificates KeyStore	Examine a Certificate	Show the Help Page	8		
No KeyStore Loaded						

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

		зымкеуз	tore.jks - Key	store explorer 5.5.2	- U X
SDMKeyStore.jks 🕱					
1 📔 🔳 Entry Nar	me	Algorithm	Key Size	Certificate Expiry	Last Modified
11 🔁 🧭 sđmprva R - 🧭 sdmwebc	Wiew Details > Q View Details > Copy Ctri+C Copy Ctri+C © Generate CSR	RSA RSA art Key Pair ort Certificate Chain ort Private Key Ort Public Key	2048	01/11/2024, 10:57:07 TRT 01/11/2024, 10:57:07 TRT	02/11/2023, 10:57:07 TRT 02/11/2023, 10:57:07 TRT

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

0		E	Entry Name		Algorithm	Key Size	Certificate Expiry	Last Modified
2	1	1	sdmprivatekey		RSA	2048	01/11/2024, 10:57:07 TRT	02/11/2023, 10:57:07 TR
				Munlock Ent	ry 'sdmprivateke	Y.	×	
				Enter Passwo	rd:		0	
					0	к с	ancel	

- e. Choose the **PEM** format and destination path for the PEM file and click **Export**.
- f. 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.

E Entry Name		Algorithm	Key Size	Certificate Expiry		Last Modified
🖞 🥥 sdmprivatekey		RSA	2048	01/11/2024, 10:57:0	7 TRT	02/11/2023, 10:57:07
- 🥝 sdmwebconsolecert		RSA	2048	01/11/2024, 10:57:0	7 TRT	02/11/2023, 10:57:07
🔊 Export Key Pair from Format	KeyStore Entry 'sdm	privatekey' PEM				×
Password for Output File Confirm Password		a a	>			
Export File					Browse	
				Export	Cancel	
e Type: JKS, Size: 2 entries, Selected: 1 entry, ile Edit View Tools Examine Hel	Path: ' P • 😤 🏗 🎫 📵	SDMKey	Store.jks - Ke Q 🔞	yStore Explorer 5.5.2		- 0
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g. 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 ---

- h. Copy private_key.pem and rename the file as certificate_key.pem.
- i. Run SDM.
- j. 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.
- k. Stop SDM.

For Linux

- a. Download Open SSL from the OpenSSL website.
- b. Place to SDM/obt/webconsole/apache-tomcat/conf folder.
- c. 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
- d. 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.

- e. Run SDM.
- f. 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.
- g. Stop SDM.

Synthetic Data Generation (SDG) Engine Installation

To install the Synthetic Data Generation (SDG) Engine, Docker must be installed. Docker and SDG Engine installation can be done on the same machine (the machine where TDM and SDM are installed) or on a separate machine. Follow the steps below on the machine where this installation will be made.

Docker Installation

- In case Docker has not already been installed on the machine, download and install Docker from Docker first. For Windows Virtual Servers, refer to the Docker Installation on Windows Virtual Machines document.
- 2. Run **Docker** if it is not already running.
- 3. Open the command line/terminal and test the **Docker Installation** with the hello-world container by executing the "docker run hello-world" command.

SDG Engine Installation

SDG Engine installation includes two different methods. Choose the installation method, as per the requirement.

Non-distributed Installation : Installation on the same machine

Distributed Installation : Installation in different machine.

Prerequisites for both Distributed and Non-distributed Installations

- 1. Go to TDM_Installation folder, find and download SDG_Installation files.
- 2. It is better to create a folder named **SDG_Installation** and copy all the downloaded files to this folder.
- 3. If the installation will be done in a distributed architecture, copy the **application.properties** file which is under the folder .../SDM/OBTHOME/extensions from the machine where SDM and TDM installed to the **SDG_Installation** folder.
- 4. If SDM is configured with SSL protocol and SDG Engine is installed in a distributed architecture, copy the **SDMKeyStore.jks**, **private_key.pem** and **certificate_key.pem** files which are under

the folder .../SDM/OBTHOME/extensions/certificates from the machine where SDM and TDM installed to the **SDG_Installation** folder.

5. Check whether **curl** is installed by typing the curl --version command in the terminal. If **curl** is installed, **curl version** information is given as follows.

```
curl 8.4.0 (Windows) libcurl/8.4.0 Schannel WinIDN
Release-Date: 2023-10-11
Protocols: dict file ftp ftps http https imap imaps pop3 pop3s smtp smtps telnet tftp
Features: AsynchDNS HSTS HTTPS-proxy IDN IPv6 Kerberos Largefile NTLM SPNEGO SSL SSPI threadsafe Unicode UnixSockets
```

If it is not installed, a warning like 'curl' is not recognized as an internal or external command, operable program or batch file. will appear. In this case, download **curl** from here and install.

Only **y** and **n** are accepted as answer for the questions that has (y/n) in it. If you give another input, then "Warning: Please answer by pressing 'y' for (yes) or 'n' for (no)" message shows up and the same question will be asked again.

```
Is it distributed installation? (y/n) : a
Warning: Please answer by pressing 'y' for (yes) or 'n' for (no)
Is it distributed installation? (y/n) :
```

- 6. If **TDM WEB** is installed on Windows Server and **SDG Engine** is installed on Linux Server at Public Cloud (Cross platform Installation)
 - The SDM DB must be reachable from SDG Engine.
 - SDM ports which are configured for HTTP and HTTPS (defaults are 8080 and 8443 respectively) must be reachable from the UI users and SDG Engine.
 - 4101 and 8181 ports belong to SDG Engine. These ports must be reachable from TDM WEB.

Distributed Installation

- 1. From SDG_Installation folder, open the command line/terminal.
 - On **Windows**, run the SDGInstaller.bat file.
 - On **Linux**, run the SDGInstaller.sh file.
- 2. Press y for the distributed installation of SDG Engine.

```
####### Welcome to the Synthetic Data Generation (SDG) Engine 24.2 Installation #######
Is it distributed installation? (y/n) :
```

NOTE: If application.properties file does not exist in the installation folder, the installation terminates with an error message.



3. Press Enter to use the default path or write the desired path to continue. If you enter without writing anything, it will continue with the default path. It is C:/SDG for Windows and /root/SDG for Linux.

Press enter to use default installation path or write desired path to continue. (C:/SDG)

4. Make sure you typed the correct path and confirm by pressing y.



NOTE 1: If you press **n**, the question of path selection appears again.

```
Do you confirm the selected path? (y/n) : n
Press enter to use default installation path or write desired path to continue. (C:/SDG) :
```

NOTE 2: If there is a problem while creating the selected path, the following similar error message appears and the installation is terminated.



5. After confirmation, the **application.properties** file is copied to the given path.

```
Do you confirm the selected path? (y/n) : y
1 file(s) copied.
application.properties copied to C:/SDG/extensions
```

NOTE: If there is a problem while copying the application.properties file, a related error message appears and the installation is terminated.

6. If you want to install with the SSL protocol, press **y**. If not, press **n**.

Do you want to use SSL protocol? (y/n) :

NOTE: When the y is pressed but there is no private_key.pem and certificate_key.pem under the installation folder, the following screen appears.

```
Do you want to use SSL protocol? (y/n) : y
Error: File private_key.pem does not exist in current directory.
```



If files are under the installation folder, they are copied to the .../certificates folder.

```
Do you want to use SSL protocol? (y/n) : y

1 file(s) copied.

private_key.pem copied to C:/SDG/extensions/certificates

1 file(s) copied.

certificate_key.pem copied to C:/SDG/extensions/certificates
```

NOTE: If you want to enable/disable SSL protocol for the SDG Engine after the installation is finished, you must follow the installation steps from the beginning.

7. Go to Common Steps for Distributed and Non-Distributed Installation, on the next page and follow the steps given.

Non-Distributed Installation

- 1. Open the command line/terminal and go to the **SDG_Installation** folder.
 - If installing on Windows, run the Sdg_installation.bat file.
 - If installing on Linux, run the Sdg_installation.sh file.
- 2. Press n for the non-distributed installation of SDG Engine.



3. Write the path of the OBTHOME folder of SDM.

Please write the absolute path of 'OBTHOME' folder of SDM :

NOTE: If the given path is not valid, the question about the path appears again.

Please write the absolute path of 'OBTHOME' folder of SDM : C:/invalid_folder Warning: Folder C:/invalid_folder is not valid Please write the absolute path of 'OBTHOME' folder of SDM :

If there is no problem with the path, the process continues with the SSL Certification.

Please write the absolute path of 'OBTHOME' folder of SDM : C:/SDM/OBTHOME Selected path: C:/SDM/OBTHOME

4. If you want to install with the SSL protocol, press y. If not, press n.

Do you want to use SSL protocol? (y/n) :

NOTE: If you want to enable/disable SSL protocol for the SDG Engine after the installation is finished, you must follow the installation steps from the beginning.

5. Go to Common Steps for Distributed and Non-Distributed Installation, below and follow the steps given.

Common Steps for Distributed and Non-Distributed Installation

1. Type the host IP of the machine on which SDM is installed.



NOTE: If the given host is not valid, the host question will be asked again.



2. Type the port of the machine on which SDM WebConsole is running. Port can vary according to if SSL protocol is enabled for SDM or not.



NOTE: The valid port range is 0-65535. If the given port is not valid, the port question will be asked again.



NOTE: If a valid port is given, a URL is created based on host IP and port number and SSL protocol enablement. curl command is executed to check if the URL is reachable or not. If the response is unsuccessful, the installation returns to the host step.



If the URL is reachable, SDG Engine installation starts like in the below figure.

alected URL: https://192.168.185.197:7071	
Darking if https://102.168.185.107/2071 is rearbable	
sttes://192.168.185.197/7071 is reachable and artive.	
Ocker part starts	
cacing new images	
caped image: karein/sdg14.2	
VICSGabel1754: Loading layer [80,5446,80,5446
3337441e00e Loading Tayer [1.16848/1.16848
urrageserer Loading layer [51,71x8/51,71x8
139 B9746648: Loading layer [11548/11548
<pre>//l618bc1cb7: Loading layer [************************************</pre>	391.2x8/391.2x8
(89e56dd55a3: Loading layer [34.7148/34.7148
11ca4832438a: Loading layer [++++++++++++++++++++++++++++++++++++	3.072k8/3.072k8
293a92a792a3: Loading layer [+	1.536k8/1.536k8
27f738b1044d: Loading layer [************************************	4.688k8/4.688k8
#f6f2877d6a4: Loading layer [++++++++++++++++++++++++++++++++++++	4.688k8/4.688k8
<pre>P31Becd8cf1: Loading layer [************************************</pre>	31.45HB/31.45HB
Loaded image: rabbitmq:3.12-management	
521c32065eaf: Loading layer [>]	172/0/172/0
<pre>/13671ac2b18: Loading layer [************************************</pre>	299.7/8/299.7/8
MatRab54451c: Loading layer [************************************	1.536k8/1.536k8
b2fc151291d: Loading layer [2.56k8/2.56k8
(d95f38dab3a: Loading layer [41.5748/41.5748
(452cb07849c) Loading layer [************************************	6.656k8/6.656k8
coaded image: kafein/tdm-api:24.2	
lunning new containers	
(+) Building 0.0s (0/0)	docker:default
e Russian 5/5	
I Network site default Counted	0.1
Container the ani Started	5.35
Container sde-ani-1 Started	8.34
Contraction matching apparent	
Container calery worker Started	0.10
Installation completed	

Setting Time Zones for SSDG Engine Containers

Follow the steps below to change the time zone on the SDM-installed machine using Docker.

- 1. Open a PowerShell terminal.
- 2. Run the following command to obtain the necessary container IDs: > docker ps -a

ONTAINER ID	NAMES
2e291f045e31	celery_worker
54ed3d7197d6	rabbitmq
36ad8180f7ea	sdg-api-1

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

3. Use the following command to enter the container:

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

- 4. Inside the container, run the following command to reconfigure the time zone:
 - > sudo dpkg-reconfigure tzdata
- 5. 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		
Please select the geographic area in which you live. Subsequent configuration q	uestions will narrow this down by presenting a list of cities,	representing the time zones in which they are located.
 Africa 2. America 3. Antarctica 4. Australia 5. Arctic 6. Asia 7. At Geographic area: 10 	lantic 8. Europe 9. Indian 10. Pacific 11. SystemV 12. US	
Please select the city or region corresponding to your time zone.		
 Apla Chuuk Fakoofo Casbier Auckland Easter Figil Guggsinville Fefate Funafuti Sugan Korae Chutha Enderbury Galapagos Honolulu Kaajalein 	21. Majuro 25. Niue 29. Palau 33. Port_Norshy 22. Marquesa 26. Norfold 30. Pitcain 34. Rortonga 23. Nidway 27. Neumea 31. Polmpei 35. Saipan 24. Nauru 28. Pago_Pago 32. Ponape 36. Samoa	37, Tohiti 41. Wake 38. Tarawa 42. Wallis 39. Tongatapu 43. Yap 40. Truk
Current default time zone: 'Pacific/Pitcairn' Local time is now: Fri Jan 5 11:01:58 -08 2024. Universal Time is now: Fri Jan 5 19:01:58 UTC 2024.		

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



Identify the container ID for <celery_worker id>.

- 9. Use the following command to enter the container: > docker exec -it <celery_worker id> /bin/bash
- 10. Inside the container, run the following command to reconfigure the time zone:
 - > sudo dpkg-reconfigure tzdata
- 11. Select the appropriate time zone from the list provided. Make sure that the prompted Local time is the same with the SDM-installed machine.



- 12. To exit the container, use the following command: > exit
- 13. 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.

TDM WEB and SDG Engine Uninstallation

TDM WEB Uninstallation

To uninstall TDM WEB, follow the steps given below.

- 1. Stop SDM WebConsole.
- 2. Open a terminal/command prompt.
- 3. Go to folder <SDM_Installation_Path>\temp\Uninstaller
- 4. Run the command <SDM_Installation_Path>\jre\bin\java -jar uninstaller.jar

SDG Engine Uninstallation

To uninstall SDG Engine, follow the steps given below.

- 1. Find and download the SDGUninstaller.bat file for Windows or SDGUninstaller.sh file for Linux from the TDM_Installation folder.
- 2. Open the command line or terminal and check if Docker is running by the command given below.

For Windows: > docker ps

For Linux: > sudo docker ps

```
error during connect: this error may indicate that the docker daemon is not running: Get "
http://%2F%2F.%2Fpipe%2Fdocker_engine/v1.24/containers/json": open //./pipe/docker_engine:
The system cannot find the file specified.
```

If you see a message like above, run Docker.

- 3. Go to the folder where SDGUninstaller.bat/SDGUninstaller.sh was downloaded from the command line.
- 4. Run the command given below.

For Windows: > SDGUninstaller.bat

####### Synthetic Data Generation (SDG) Engine 24.2 Uninstallation #######	
Stopping container: sdg-api-1 sdg-api-1	
Removed container: sdg-api-1 Removed container: sdg-api-1	
Stopping container: celery_worker celery_worker Removing container: celery_worker	
celery_worker Removed container: celery_worker Stopping container: rabbitme	
Removing container: rabbitmq	
rabbitmq Removed container: rabbitmq Stopping container: tdm-api	
tdm-api Removing container: tdm-api tdm-aoi	
Removed container: tdm-api	
Removing image: rabbitmg:s.lz-management Untagged: rabbitmg:s.lz-management Deleted: sha256:feba55029c9le5cb7d64199b8302e952e7c2647a9a2c3215bc7dc6385f430a56 Deleted: sha256:b02338bf5lac67c6ccddbc336107002aaaeb158212f3cf0e2897d1473d311c7b Deleted: sha256:ic0048bf68513e44447405808885858061ccf79b357bd52ff26e46ee5	
Deleted: sha256:9514fded7f796d33c84b928b6d67d5cf355c4e48a8851b2692ec699d4601a9d6 Deleted: sha256:9f3f872288492330c4d99e30e9652de91c573c1955fa8cea306daff6b5cdcab9d Deleted: sha256:pf3f87228492330c4d9e30e9657de91c573c1955fa8cea306daff6b5cdcab9d	
Deleted: sha256:f93fd4cc7611cb07cd7e358c1ceaa57e9db50b0ba50309dec9589ddd66ce5aff	
Deleted: sha256:44ade8c9980237e6ac359e30c938a832067fe24c56339bd2d4e35798fA806deec Deleted: sha256:d5444aele9914ffdc6b8d7088a6d668b9b8dc6559c84173f58ebb4072201e11d34 Deleted: sha256:7f66304d864d63c5765feec36bbfecc99e0e2ceed4dfc7aacb28c760f1e50945	
Deleted: sha256:59c56aee1fb4dbaeb334aef06088b49902105d1ea0c15a9e5a2a9ce560fa4c5d Removing image: kafein/sdg:24.2 Untagged: kafein/sdg:24.2	
Deleted: sha256:7d332666bedd1f537b824fdec77f1562dd6d3a77cc306216532da6b18ec4e57b Deleted: sha256:1d4706e0aae086bbcf342a482a3d985aeb7d9c9e814f49528115cd1c9d99936fd	
Deleted: sha256:2baB522F5594F5327e3dc50ef9ac622e869edb1d0d4479F5efc32e8fe129 Deleted: sha256:2baB522F5594F5327e3dc50ef9ac622e869edb1d0d4479F5efc32e8fe129 Deleted: sha256:87704dba3068e46548481d675daea73aeb40cf9969207b3f4142234ade0547ed	
Deleted: sha256:e56ee7/cete98a765bd9be37c419d56b8dc35+C5c2528b6121322d394d1e163+ Deleted: sha256:157df3c57e7245c564934fff6f382f8f372c38203e96955c40294f1dd5b6932 Deleted: sha256:80e86299e638ac067a590f510c526f1011ca167fa79a56c58f12aadcbb69770d	
Deleted: sha256:e27931725d4a5ff6f6381a52fca1bd9062a526c980b36aea2be715b319bcdcca	
rabbitmg	
Removed container: rabbitmq	
Removed container: rabbitmq Stopping container: tdm-api tdm-api Removing container: tdm-api	
Removed container: rabbitmq Stopping container: tdm-api tdm-api Removing container: tdm-api tdm-api Removed container: tdm-api	
Removed container: rabbitmq Stopping container: tdm-api tdm-api Removing container: tdm-api Removed container: tdm-api Removing image: rabbitmq:3.12-management Untagged: rabbitmq:3.12-management Deleted: sha256;feba5692691e567d6(199bb8302e952e7c2647a9a2c3215bc7dc6385f430a56	
Removed container: rabbitmq Stopping container: tdm-api tdm-api Removing container: tdm-api tdm-api Removed container: tdm-api Removed container: tdm-api Removing image: rabbitmq:3.12-management Untagged: rabbitmq:3.12-management Deleted: sha256:fb8550290165C7d6U1998302e952e7c26U7a9a2c3215bc7dc6385fU30a56 Deleted: sha256:b02338bf51ac67c6ccddbc336107002aaaeb158212f3cf0c8507d1473d311c7b Deleted: sha256:1bc0db8f68513e4U4704U98083b5e3adU15f68580f1cc7f9b357bd527f26e4Gee5 Deleted: sha256:1bc0db8f68513e4U4704U9808354b928b67dbc7f3cf357bd527f26e4Gee5 Deleted: sha256:1bc0db8f68513e4U4704U9808354b928b67dbc7f3cf357bd527f26e4Gee5 Deleted: sha256:1bc0db8f68513e4U4704U79604ae4Ba8551b527f26e4Gee5 Deleted: sha256:1bc0db8f68513e4U4704U79604bf67d5cf355cf	
Removed container: rabbitmq Stopping container: tdm-api tdm-api Removing container: tdm-api tdm-api Removed container: tdm-api Removed c	
Removed container: rabbitmq Stopping container: tdm-api tdm-api Removing container: tdm-api Removed container:	
Removed container: rabbitmq Stopping container: tdm-api tdm-api Removing container: tdm-api Removed container:	
Removed container: rabbitmq Stopping container: tdm-api tdm-api Removing container: tdm-api Removed removed container: tdm-api Removed re	
Removed container: rabbitmq Stopping container: tdm-api Removing container: tdm-api Removed container: tdm-api	
<pre>Removed container: rabbitmq Stopping container: tdm-api tdm-api Removing container: tdm-api Removed container: tdm-api Remov</pre>	
<pre>Femoved container: rabbitmq Stopping container: tdm-api tdm-api Removing container: tdm-api Removed removed removed container: tdm-api Removed r</pre>	
<pre>Femoved container: tdm-api tdm-api tdm-api femoved container: tdm-api tdm-api femoved container: tdm-api femoved container:</pre>	
Genotainer: rabbitmq Stopping container: tdm-api tdm-api Removing container: tdm-api Removed container: tdm-api Delted: sha256: fbc335802:9186cb7d6401998302:952c7:2647a9A2c3218bc7dc6385f430a56 Delted: sha256: fbc33585f1ac67c6ccdbc336107002aaaeb158212/f3c76ce8807d14773d31c7b Delted: sha256: fbc367851ac67c6ccdbc336107002aaeb158212r43c76uc8807d1477d3d31c7b Delted: sha256: fbc367851ac7f1c6ccdbc35156uc90c5758cte4048851b502cce609044601a9d6 Delted: sha256: fbc36787228840398ba26338715bc20cce6c407raeb73c8057e2b12ca7964bf0d344 Delted: sha256: fb3760728840398ba26338715bc20cce3585ddd66cc5859c4017915228346 Delted: sha256: fb3760728840398ba263380126rf224c5d39bd241ca83997f3c08dc6cc Delted: sha256: fb376024064078bad6668b9b8dc65859c4011747632840b4072201e11344 Delted: sha256: fb37602406403831aef760688b19804c5859c46466c57b Delted: sha256: fb376024064023146c7771552dd6d3377cc386216532da6b18cde57b Delted: sha256: fb7044c671239bc91a4817339824fdec7771552dd6d3377cc386216532da6b18cde57b Delted: sha256: fb7044c671239bc91a481733982ff6e6821bfc1449292625487414492298675494ccf328861235420cc5886414848cd588642557b	
Removing container: tdm-api Removing container: tdm-api Removing container: tdm-api Removing image: rabbitmg:3.12-management Untagged: rabbitmg:3.12-management Dulted: sha256:rbs37002001sEb7d40199b3302.95207c2647a9a2c3215bc7dc6385f439a56 Dulted: sha256:rbs37002001sEb7d40199b3302.95207c2647a9a2c3215bc7dc6385f439a56 Dulted: sha256:rbs37002001sEb7d40199b3302.95207c2647a9a2c3215bc7dc6385f439a56 Dulted: sha256:rbs3700477966313400704088855sa01F578557bd57F42F648694010734311c7b Dulted: sha256:rbs37004779803384b028bd67d5c7555c4408a8851b2692ec69944061a9d6 Dulted: sha256:rbs3700477963134007067989a8957ba617578555464664888 Dulted: sha256:rbs370047796313400706798989556ed197157558446 Dulted: sha256:rbs3700477676317800706408989655041977578587b57857F47765786466489 Dulted: sha256:rbs3700477676370835708547842774216530994675859146577858446 Dulted: sha256:rbs370047767793551cama57786405898165777415638946675780466489 Dulted: sha256:rbs370047767783551cama57786405898104774763895986477741553844 Dulted: sha256:rbs3700477767935512786477747639809598692179715583446 Dulted: sha256:rbs3700477677935512786777476539809598692179715583446 Dulted: sha256:rbs37004776778938973986449991776747859389758644197315578644 Dulted: sha256:rbs3700477677935917586473989093989021958612907595644179715583446 Dulted: sha256:rbs370047647677844498093899021768413899877747155949912785612489239975864419731558344 Dulted: sha256:rbs3700476476787482464693849921056124801253978644797804248054798744467869844999376641398044984934786435989444678640498938494921091161153846498 Dulted: sha256:rbs37004764767874824649894819283497747838852864976404678348778944678649489434494944944944944944944944944944944944	
Removid container: tdm-api Removing container: tdm-api Removing container: tdm-api Removing container: tdm-api Removing inage: rabbitmg: ll-management Delted: sha256 rbd32020*Dlscb7ddd19908302e952e7c26U7A9A2c3215bc7dc6335fU38a56 Delted: Delted: sha256 rbd32020*Dlscb7ddd19908302e952e7c26U7A9A2c3215bc7dc6335fU38a56 Delted: Delted: sha256 rbd320290520e2018c57ddd19908302e952e7c26U7A9A2c3215bc7dc6335fU38a56 Delted: Delted: sha256 rbd3202901238cd0902088055a041f57557bd52ff26c8466e5 Delted: sha256 Delted: sha256 rbd320290238cd0902080695209127512057b362ff26c8466e5 Delted: sha256 Delted: sha256 rbd320290278cc435980290230e400902080606029599040061209027802801900210901 Delted: sha256 Delted: sha256 rbd37dduc.rbd11cb07cdr358C1ceaa57e904b58040359904cc35876401239304 Delted: sha256 rbd37dduc.rbd11cb07cdr358C1ceaa57e904b580404357905frc4102330406 Delted: sha256 rbd37dduc.rbd11cb07cdr358C1ceaa57e904040403403797c2308230406cc5874 Deltedt:	
Removid container: time-api time-api Removid container: time-api time-api Removid container: time-api Removid	

```
For Linux: > bash SDGUninstaller.sh
```

```
####### Synthetic Data Generation (SDG) Engine 24.2 Uninstallation ########
Stopping container: sdg-api-1
sdg-api-1
Removing container: sdg-api-1
sdg-api-1
Removed container: sdg-api-1
Stopping container: celery_worker
celery_worker
Removing container: celery_worker
celery_worker
Removed container: celery_worker
Stopping container: rabbitmq
rabbitmq
Removing container: rabbitmq
rabbitmq
Removed container: rabbitmq
Stopping container: tdm-api
tdm-api
Removing container: tdm-api
tdm-api
Removed container: tdm-api
```

```
Removing image: rabbitmq:3.12-management
Untagged: rabbitmq:3.12-management
Deleted: sha256:feba55029c91e5cb7d64199b8302e952e7c2647a9a2c3215bc7dc6385f430a56
Deleted: sha256:b02338bf51ac67c6ccddbc336107002aaaeb158212f3cf0c8507d1473d311c7b
Deleted: sha256:16c0db8f68513e444764508885e5a0d15f68580f1cc7f9b357bd52ff26e46ee5
Deleted: sha256:9514fded7f796d33c84b928b6d67d5cf355c4e48a8851b2692ec699d4601a9d6
Deleted: sha256:0f3f872288492330c4d09e30e9652de91c573c1955fa8cea306daf6b6cdcab9d
Deleted: sha256:aeaaf5e84d398ba26338f15decee6c4b7aa1768f93a057e2b12caf964bf0d344
Deleted: sha256:ff942032ce367083f553d74e3549f14c482406b17e09280759ec417913528346
Deleted: sha256:f03fd4cc7611cb07cd7e358c1ceaa57e9db50b0da50309dec9589ddd66ce5aff
Deleted: sha256:4ade8c9980237e6ac359e30c938a032067fc24c65d39bd2d4e357987fa00deec
Deleted: sha256:d544ae1e9914ffdc6b8d708a6d668b9b8dc6559c84173f58ebb4072201e11d34
Deleted: sha256:7f06304d8646b3c5765feec36bbfecc99e0e2ceed4dfc7aacb28c760f1e50945
Deleted: sha256:59c56aee1fb4dbaeb334aef06088b49902105d1ea0c15a9e5a2a9ce560fa4c5d
Removing image: kafein/sdg:24.2
Untagged: kafein/sdg:24.2
Deleted: sha256:7d332666bedd1f537b824fdec77f1562dd6d3a77cc306216532da6b18ec4e57b
Removing image: kafein/tdm-api:24.2
Untagged: kafein/tdm-api:24.2
Deleted: sha256:3c06294658a36e0dc3c8abd16e94c5b6776462fd45c2<u>1d0ad0ed00c0c295dc9e</u>
Deleted: sha256:793c1e6d59c64baa23a119cac18fb3ced3abbe0d6a75c9800d5d82a2dfa6e26a
Deleted: sha256:05600f6b561370016026b75f220386a2945cc508b93e7e45250c6575f09f051b
Deleted: sha256:fee82743d30607e6429a4c6709df7f5ef48d96d8e69aae6655ac508f0e268af3
Deleted: sha256:0a0c271db733a6b9bdcff3c7f37a7fab0093a35bc2027350b3faafc0f0611596
Deleted: sha256:23afdf86973913e7aceaa167135be2bb7b40c13ed1ec56d2ebf99069296c3726
Deleted: sha256:b21c32065eaf63c124069d5ff9003b9b5af8f9987fbabf3a5a1380ab3fb5ab2d
Uninstallation completed
```

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>