Test Data Management

Software Version 24.2.1

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

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.

√ : 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	✓	✓	X	X
TDM 2.0.0	X	✓	✓	X
TDM 2.1.0	X	✓	✓	X
TDM 2.1.1	X	✓	✓	X
TDM 24.1	X	X	✓	✓
TDM 24.2	X	X	✓	✓
TDM 24.2.1	X	X	✓	✓

NOTE:

 When trying to use version 24.2.1 and previous versions together, visual incompatibility may occur.

Installation Steps

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

NOTE: Before you begin the installation, for TDM to communicate with TLS 1.3, make sure to configure SDM and PostgreSQL repository with TLS 1.3 protocol.

- 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.

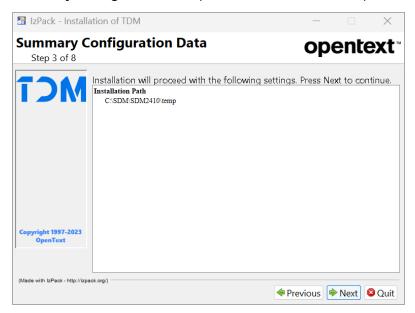
- 1. Find and download TDMInstaller.jar and TDMInstaller.bat in the Installation directory.
- 2. Copy TDMInstaller.jar and TDMInstaller.bat to ../SDM~/obt/bin directory.
- 3. Open the command line/terminal and place to ../SDM~/obt/bin directory path.
- 4. Run TDMInstaller.bat.
- 5. After seeing the **Welcome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



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

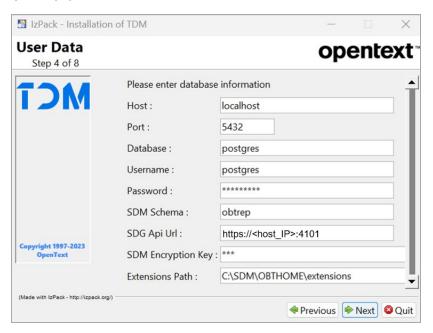
SDG (Synthetic Data Generation) Api URL must point to the IP of the machine on which the SDG Engine is installed, with port number **4101**. Since SDG Engine supports both HTTP and

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

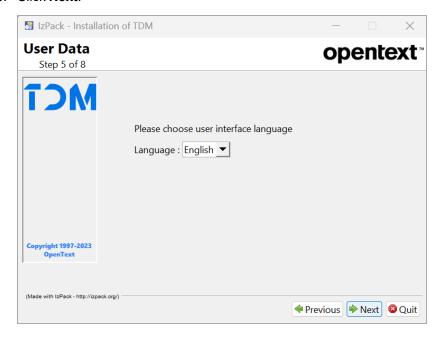
SDM Encryption Key must be the same as the key that was entered when the repository installation was done.

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

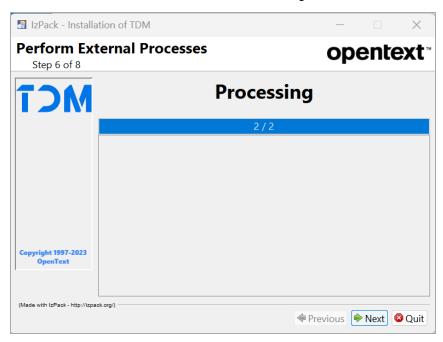
4. Click Next.



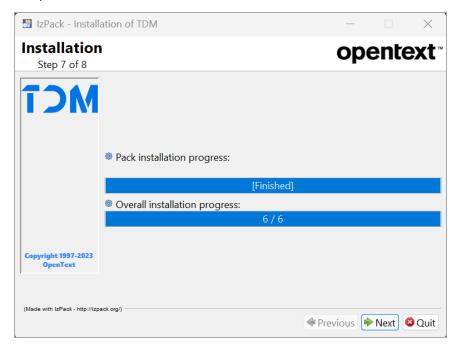
- 5. Choose the user interface **Language**.
- 6. Click Next.



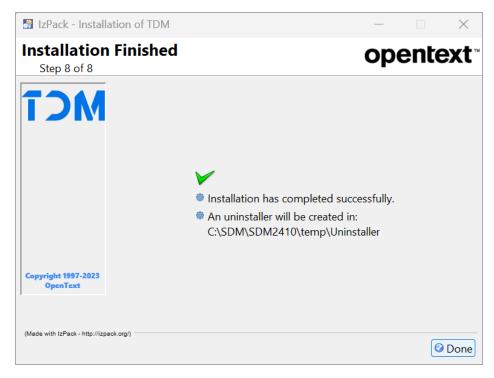
7. The TDM database connection is tested and configured . Click **Next**.



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



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.

```
User Data

Please choose user interface language

0 [x] English
Input selection:
```

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

```
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 0 for OK, C to Cancel:
0
Enter 0 for OK, C to Cancel:
0
[ 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.

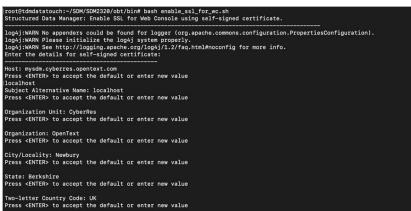
 $\ cp \ .. \ /SDM~/obt/webconsole/apache-tomcat/webapps/WebConsole/WEB-INF/classes/sql.properties .. /SDM~/OBTHOME/extensions.$

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.





- 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):

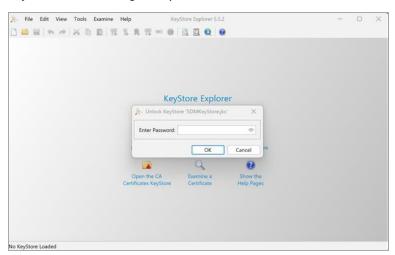
```
<Connector port="8443" protocol="org.apache.coyote.http11.Http11NioProtocol"
maxThreads="150" SSLEnabled="true" scheme="https" secure="true"
clientAuth="false"
sslProtocol="TLS" sslEnabledProtocols="TLSv1.2"
keystoreFile="conf/SDMKeyStore.jks" keystoreType="JKS" keystorePass="
changeit" keyPass="changeit"/>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

6. Place to <SDM_ install_dir>/obt/webconsole/apache-tomcat/conf.

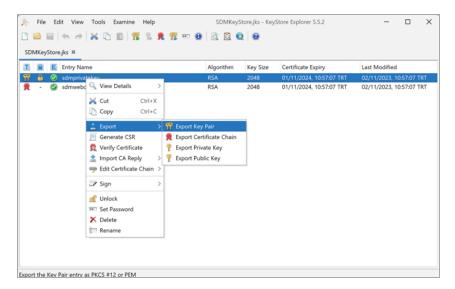
For Windows

- 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\.

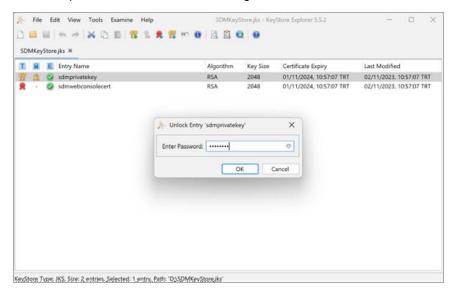
Default password is **"changeit**" (You can change the password from the *keystorePass="changeit"* input section that is added to the server.xml file).



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

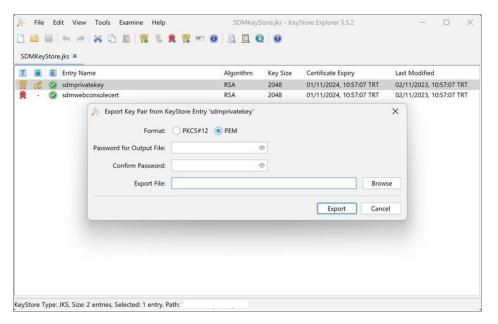


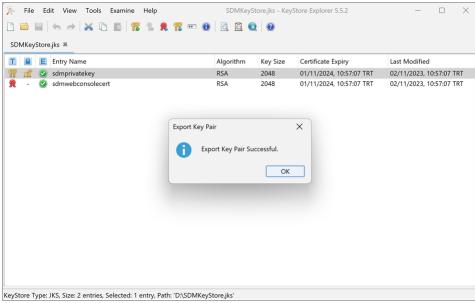
d. Enter the password. Password is "changeit".



- 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.





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. If the database of the SDM is configured with TLS 1.3 protocol, server.key and server.crt files are required.
 - In common installation, server.key and server.crt files are copied to the .../SDM/OBTHOME/extensions/certificates folder.
 - In distributed installation, server.key and server.crt files are copied to the SDG_ Installation folder
- 6. Check whether **curl** is installed by typing the curl --version command in the terminal. A curl version with TLS 1.3 support, using OpenSSL/1.1.1m or LibreSSL/3.9.2 (or later), is needed. 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.

NOTE: 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) :
```

- 7. 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.

```
Is it distributed installation? (y/n) : y

Error: File application.properties does not exist in current directory.
```

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.

```
Selected path: C:/SDG
Do you confirm the selected path? (y/n) :
```

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

```
Selected path: *-?
Do you confirm the selected path? (y/n) : y

The filename, directory name, or volume label syntax is incorrect.

Error: Failed to create directory.
```

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.

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

Error: File certificate_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. If you want to enable the TLS 1.3 protocol, press y else press n.

```
Do you want to enable TLS 1.3 protocol? (y/n) :
```

8. 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**.

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

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. If you want to enable the TLS 1.3 protocol, press y else press n.

```
Do you want to enable TLS 1.3 protocol? (y/n) :
```

6. 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.

```
Please write the host of SDM
Host :
```

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

```
Please write the host of SDM
Host : ***
Warning: Input does not match the expected format
Host :
```

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.

```
Host: 192.168.185.197

Please write the port of SDM
Port:
```

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

```
Please write the port of SDM
Port : 80000
Warning: Input does not match the expected format
Port :
```

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.

```
Port : 8000

Selected URL: https://192.168.185.197:8000
Checking if https://192.168.185.197:8000 is reachable...
https://192.168.185.197:8000 is not reachable or active.

Please write the host of SDM
Host :
```

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

```
| Container | Cont
```

Setting Time Zones for SDG 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



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 tidata

Please select the geographic area in which you live. Subsequent configuration questions will narrow this down by presenting a list of cities, representing the time zones in which they are located.

1. Africa 2. America 3. Antarctica 4. Australia 5. Arctic 6. Asia 7. Atlantic 8. Europe 9. Indian 10. Pacific 11. SystemV 12. US 13. Etc coegraphic area: 10

Please select the city or region corresponding to your time zone.

1. Apia 5. Cleuck 9. (shoot) 12. Gmbler 17. Johnston 21. Hajuro 25. Hive 29. Palau 33. Fort-Poresby 37. Tahiti 41. Make 3. Australia 6. Easter 10. Fight 18. Gmbler 17. Johnston 21. Hajuro 25. Hive 29. Palau 33. Fort-Poresby 37. Tahiti 41. Make 32. Australia 6. Easter 10. Fight 18. Gmbler 17. Johnston 21. Hajuro 25. Hive 29. Palau 33. Fort-Poresby 37. Tahiti 41. Make 32. Australia 6. Easter 10. Fight 18. Gmbler 27. Monthson 21. Hajuro 25. Hive 29. Palau 33. Fort-Poresby 37. Tahiti 41. Make 37. House 37. Australia 6. Easter 10. Fight 19. Gmbler 37. Hajuro 37. House 37. House 37. Poresby 37. Tahiti 41. Make 41. Hajuro 42. Hajuro 43. Hajuro 43. Hajuro 43. Hajuro 43. Hajuro 43. Hajuro 43. Hajuro 44. Hajuro 44. Hajuro 48. Pago Pago 32. Ponape 36. Samou 46. Iruk

Current default time zone: 'Pacific/Pitcairo'
Local time is now: 'File jon 511:01:58 -00 2024.

Mintersal Hag 18. Novi Frid jon 511:01:58 -00 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>.

- 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.

```
Please select the geographic area in which you live. Subsequent configuration questions will narrow this down by presenting a list of cities, representing the time zones in which they are located.

1. Africa 2. America 3. Antarctica 4. Australia 5. Arctic 6. Asia 7. Atlantic 8. Europe 9. Indian 10. Pacific 11. SystemV 12. US 13. Etc Geographic area: 10

Please select the city or region corresponding to your time zone.

1. Apia 5. Chouk 9. Faksofo 13. Gambier 17. Johnston 21. Majuro 25. Niue 29. Pelau 33. Port_Moresby 37. Tehiti 41. Wake 2. Auckland 6. Easter 10. Fiji 13. Gambier 17. Johnston 21. Majuro 25. Niue 29. Pelau 33. Port_Moresby 37. Tehiti 41. Wake 42. Auckland 18. Einferbury 11. Fundali 13. Gambier 29. Manager 21. Honories 31. Pundangel 35. Signam 39. Foreyape 42. Walliss 13. Gambier 21. Majuro 25. Niue 28. Papp_Papo 32. Ponnjee 30. Samoe 40. Iruk

Current default time zone: 'Pacific/Pitcairn'

Current default time zone: 'Pacific/Pitcairn'
```

- 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.
- Go to folder <SDM_Installation_Path>\temp\Uninstaller
- 4. Runthe 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

```
C:\Users\Kafein\Desktop\sdg_installation>SDGUninstaller.bat ######## 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: rabbitme
 Removed container: sdg-api-1
 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:fba550929e195c507d64199b8302e952e7c2647a9a2c3215bc7dc6385f430a56
Deleted: sha256:bb2338bf51ac67c6ccddbc336107002aaaeb158212f3cf0c8507d1473d311c7b
Deleted: sha256:16c0db8f68513e444764598885e5add15f68580f1cc7f9b337bd52f72e46e9c5
Deleted: sha256:9147dded7f796d3328b928b66d7d5cf355c4e4838851b5092ec699d4601a9d6
Deleted: sha256:0f3f672288492330c4d09e30e9652de91c573c1955fa8cea306daf66bcdcab90
 Deleted: sha256:aeaaf5e84d398ba26338f15decee6c4b7aa1768f93ab57e2b12caf964bf0d344
Deleted: sha256:ff942032ce367083f553d74e3549f14c482406b17e09280759ec417913528346
Deleted: sha256:f03fd4cc7611cb07cd7e358c1ceaa57e9db50b0da50309dec9589ddd66ce5aff
 Deleted: sha256:4ade8c9988237e6ac359e38c938a932067fc2Uc55d39bd2dUe357987fa80deec
Deleted: sha256:d54Uae1e991Uffdc6b8d708a6d668b9b8dc6559c8U173f58ebb4072201e11d3U
Deleted: sha256:7f0630Ud86U6b3c5765feec36bbfecc99e0e2ceedUdfc7aacb28c760f1e509U5
Deleted: sha256:59c56aee1Fbulbaeb334aef06088b49992105d1ea0c15a9e5a2a9ce560fa4c5d
Removing image: kafein/sdg:24.2
Untagged: kafein/sdg:24.2
Untagged: kafein/sdg:24.2
Deleted: sha256:7d323666bedd1f537b824fdec77f1562dd6d3a77cc306216532da6b18ec4e57b
Deleted: sha256:dd706e0aae0860bcf342a482a3d985aeb7d9c9e814f49528115cd1c0d99936fd
 Deleted: sha256:4570844c6f1239bc91a48f133938f150e21abc1c603c534879134aa628c31d22c
Deleted: sha256:2bab81522f5594f5327e3dc50ef9ac6222e869edb1d0d44970f5efc328f81e129
Deleted: sha256:87704dba3068e40548481d675daea73aeb40cf9969207b3f4142234ade0547ed
Deleted: sha256:e66ee7cefe98a7656d06e37c419d5668dc33fcbce52886c121382d534d1e163f
 Deleted: sha256:457df3c67e7245c564934fff0f382f8f372c38203e90595c40294f1dd5bbe932
Deleted: sha256:80e86290e638ac007a500fb10c526f1011ca167fa79a56258f12aadcbb69770d
Deleted: sha256:e27931725d4a5ff6f6381a52fca1bd9062a526c980b36aea2be715b319bcdcca
```

```
Removed container: rabbitmq
Stopping container: tdm-api
Hemoving container: tdm-api
Hemoving container: tdm-api
Hemoving container: tdm-api
Hemoving image: rabbitmq; 3.12-management
Untagged: rabbitmq; 3.12-man
```

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
rabbitma
Removing container: rabbitmq
rabbitma
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>1d0ad0ed00c0c295dc9</u>e
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.	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.
	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.
	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. Home > Synthetic Flow List Synthetic Flow List Synthetic Flow List Connection Error	Make sure Docker Engine is running.
When TDM is opened, "Exception while executing a Groovy script" error is appeared. Opentext SDM CE 24.1	\$ 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.