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Supplemental Install Guide for OTM 6.5.x

Purpose statement

This document provides an overview of the installation of the OTM 6.5.x release. It is intended solely to help you assess the business benefits of upgrading to OTM 6.5.x and to plan your I.T. projects.

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Preface

The following document was created as a visual guide to help with the installation of Oracle Transportation Management (OTM) 6.5.x. This version has been certified with 12.2.1.4.0 versions of Oracle Fusion Middleware (FMW), Oracle HTTP Server (OHS). This guide only covers the installation of OTM 6.5.x and other required software.

OTM 6.5.x Installation

For the standard installation of OTM 6.5.x you need to install Java 8, Oracle Fusion Middleware Infrastucture 12.2.1.4.0, Oracle HTTP Server 12.2.1.4.0, Oracle Database 19C client (Administrator Install) for the OTM 6.5.x base install.

Downloading Oracle Transportation Management 6.5.x and other required software

Log into the https://edelivery.oracle.com website and search for **Oracle Transportation Management**

Several versions will be displayed, click the link for one of the **Oracle Transportation Management 6.5.x releases**.

Click **Continue**.

Click on the **Platform / Languages** dropdown list and select **Linux x86-64** for the **Oracle Database 19.3.0.0.0, Oracle Fusion Middleware 12c Infrastructrue 12.2.1.4.0** and **Oracle HTTP Server 12.2.1.4.0**. The **Platform / Languages** setting should ready be set for the **Oracle Transportation Management 6.5.x.0.0** you selected to **Linux x86-64 . Oracle Data Integrator 12.2.1.4.0** can be deselect or downloaded and used at another time.

Note: The operating system for all selected components must be populated for the **Continue** button to be activated.

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To continue, select the Platform/Language for each individual Release. To remove an item from the Download Queue, please uncheck the box next to the title. Language Supplement Releases are optional; to include it where applicable, check the box next to the Release title and select your desired Language.

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◢ ☑ Oracle Transportation Management 6.5.3.0.0 ⚙	Oracle Standard Terms and Restrictions			Nov 06, 2023	Nov 06, 2023
☑ Oracle Data Integrator 12.2.1.4.0		▼			
☑ Oracle Database 19.3.0.0.0 - Long Term Release		▼			
☑ Oracle Fusion Middleware 12c Infrastructure 12.2.1.4.0		▼			
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☑ Oracle Transportation Management 6.5.3.0.0		Linux x86-6 ▼	679.9 MB		

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◢ ☑ **Oracle Transportation Management 6.5.3.0.0**	
◢ ☑ Oracle Data Integrator 12.2.1.4.0 for Linux x86-64	
☑ **V983389-01.zip** Oracle Fusion Middleware 12c (12.2.1.4.0) Data Integrator, 1.9 GB	
◢ ☑ Oracle Database 19.3.0.0.0 - Long Term Release for Linux x86-64	
☑ **V982063-01.zip** Oracle Database 19.3.0.0.0 for Linux x86-64, 2.8 GB	
◢ ☑ Oracle Fusion Middleware 12c Infrastructure 12.2.1.4.0 for Linux x86-64	
☑ **V983368-01.zip** Oracle Fusion Middleware 12c (12.2.1.4.0) Infrastructure, 1.5 GB	
☑ **V983357-01.zip** Oracle VM Virtual Appliance for Oracle Fusion Middleware 12c (12.2.1.4.0) Infrastructure, 2.8 GB	
◢ ☑ Oracle HTTP Server 12.2.1.4.0 for Linux x86-64	
☑ **V983361-01.zip** Oracle VM Virtual Appliance for Oracle Fusion Middleware 12c (12.2.1.4.0) HTTP Server, 1.9 GB	
☑ **V983369-01.zip** Oracle Fusion Middleware 12c (12.2.1.4.0) HTTP Server for Linux x86-64, 1.9 GB	
◢ ☑ Oracle Transportation Management 6.5.3.0.0 for Linux x86-64	
☑ **V1039182-01.zip** Oracle Transportation Management 6.5.3.0.0 for Linux x86-64, 679.9 MB	

Total 7 distinct files   Total Size 13.6 GB

NOTE: Some downloaded parts may be split into more than one file.

Copy the downloaded files to the server you are installing OTM on.

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Downloading the latest version of Java 8

In order to run the Oracle Fusion Middleware Infrastructure 12.2.1.4.0 installer you need to have an updated version of Java 8 installed.

You can download the latest version from this note.

Latest Java SE Patch Updates on MOS (Doc ID 1414485.1)

☆ **Latest Java SE Patch Updates on MOS (Doc ID 1414485.1)**

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APPLIES TO:

Oracle Database Exadata Express Cloud Service - Version N/A and later
Gen 1 Exadata Cloud at Customer (Oracle Exadata Database Cloud Machine) - Version N/A and later
Oracle Cloud Infrastructure - Database Service - Version N/A and later
Oracle Database Backup Service - Version N/A and later
Oracle Database Cloud Exadata Service - Version N/A and later
Information in this document applies to any platform.

PURPOSE

List Well Known Patches for Java SE software versions.

SCOPE

The Well Known Patches listed in the Details section below will always point to the latest updates of Java SE.

Scroll down to see the links for the Java 8 download.

DETAILS

Well Known Patch	Description	Notes
PATCH 30831374	Oracle JDK 14	Feature Version. Support ends September, 2020.[1]
PATCH 30101522	Oracle JDK 13	Feature Version. No longer supported.[1]
PATCH 29010183	Oracle JDK 12 Update	Feature Version. No longer supported.[1]
PATCH 27838191	Oracle JDK 11 Update	LTS Version.[1]
PATCH 27110290	Oracle JDK/JRE 10 Update	Feature version. No longer supported.[1]
PATCH 25505747	Oracle JDK/JRE 9 Update	Feature version. No longer supported.[1]
PATCH 18143322	Oracle JDK/JRE 8 Update	
PATCH 13079846	Oracle JDK/JRE 7 Update	
PATCH 9553040	Oracle JDK/JRE 6 Update	No longer supported. See Document 2244851.1
PATCH 9477224	Oracle JDK/JRE 5.0 Update	No longer supported.
PATCH 8453300	Oracle JDK/JRE 1.4.2 Update	No longer supported.
PATCH 29210995	Oracle Java TimeZone Updater 2.2.0	

[1]See **Document 1682574.1** Java SE Versions, Patch Updates and Schedules: CPUs, PSUs, BPRs, Public v. Support Only Releases

Download the latest version of Java 8 that is available.

Note: The patch number may be different than the one shown in the screen shot.

Copy the file to the server you are installing FMW, OHS and OTM on.

Installing the latest version of Java 8

Unzip and untar the downloaded patch on the server you are installing OTM on.

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Export the JAVA_HOME and PATH environment settings to point to the new version of Java 8.

export JAVA_HOME=<Path to Java 8 Install>
export PATH=$JAVA_HOME/bin:$PATH;

Verify the path is set property by running the following command

java -version

You should see something similar to this being returned.

java version "1.8.0_391"

Java(TM) SE Runtime Environment (build 1.8.0_391-b25)

Java HotSpot(TM) 64-Bit Server VM (build 25.391-b25, mixed mode)

Installing Oracle Fusion Middleware and Oracle HTTP Server

Unzip the 12.2.1.4 Infrastruction installer.

unzip V983368-01.zip

```
Archive:  V983368-01.zip
  inflating: fmw_12.2.1.4.0_infrastructure.jar
  inflating: fmw_12214_readme.html
```

Unzip the Oracle HTTP Server 12.2.1.4 installer.

unzip V983369-01.zip

```
Archive:  V983369-01.zip
  inflating: fmw_12.2.1.4.0_ohs_linux64.bin
  inflating: fmw_12214_readme.html
```

The instructions listed below come from the following note.

How to Run a Silent Installation for FMW, OHS and RCU for an OTM Installation (Doc ID 2928144.1)

1. Create a temp dir for the oraInst.loc and the rsp files and set the Oracle inventory location to a directory inside the users home directory.

```
mkdir /tmp/fmw_ohs_install
cd /tmp/fmw_ohs_install
export RUNDIR=$PWD
GROUP=`stat -c '%G' $HOME`
echo "inventory_loc=$HOME/oraInventory_12214" >> $RUNDIR/oraInst.loc
echo "inst_group=$GROUP" >> $RUNDIR/oraInst.loc
```

2. Create a fmw_122140_infra.rsp file with the following info. Change the **ORACLE_HOME** to point to where you want to install FMW 12.2.1.4.

```
[ENGINE]
```

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```
Response File Version=1.0.0.0.0

[GENERIC]

DECLINE_AUTO_UPDATES=true

ORACLE_HOME=<Directory you want FMW installed>

INSTALL_TYPE=Fusion Middleware Infrastructure
```

3. Create a second rsp file for the ohs install, fmw_122140_ohs.rsp. The ORACLE_HOME should be set to the same value you used in the fmw_122140_infra.rsp file.

```
[ENGINE]

Response File Version=1.0.0.0.0

[GENERIC]

ORACLE_HOME=<Directory you installed FMW in>

INSTALL_TYPE=Collocated HTTP Server (Managed through WebLogic server)
```

4. Go to the directory with the fmw_12.2.1.4.0_infrastructure.jar file in it

java -jar fmw_12.2.1.4.0_infrastructure.jar -silent -responseFile $RUNDIR/fmw_122140_infra.rsp -ignoreSysPrereqs -invPtrLoc $RUNDIR/oraInst.loc

5. Check the /tmp space after the install and clean up if needed

```
df -vh /tmp
rm -R /tmp/OraInstall*
rm -R /tmp/orcl*.tmp
```

 Go to the directory with the fmw_12.2.1.4.0_ohs_linux64.bin file in it and run the following command.

```
./fmw_12.2.1.4.0_ohs_linux64.bin -silent -ignoreSysPrereqs -responseFile $RUNDIR/fmw_122140_ohs.rsp -
invPtrLoc $RUNDIR/oraInst.loc
```

The following should be displayed.

```
Launcher log file is /tmp/OraInstall2023-02-01_09-02-05PM/launcher2023-02-01_09-02-05PM.log.
Checking if CPU speed is above 300 MHz. Actual 2195.384 MHz Passed
Checking swap space: must be greater than 512 MB. Actual 16383 MB Passed
Checking if this platform requires a 64-bit JVM. Actual 64 Passed (64-bit not required)
Checking temp space: must be greater than 300 MB. Actual 2815 MB Passed
Preparing to launch the Oracle Universal Installer from /tmp/OraInstall2023-02-01_09-02-05PM
Log: /tmp/OraInstall2023-02-01_09-02-05PM/install2023-02-01_09-02-05PM.log
```

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```
Copyright (c) 1999, 2019, Oracle and/or its affiliates. All rights reserved.
Reading response file..
Skipping Software Updates
Validations are enabled for this session.
Verifying data
Copying Files
Percent Complete : 10
Percent Complete : 20
Percent Complete : 30
Percent Complete : 40
Percent Complete : 50
Percent Complete : 60
Percent Complete : 70
Percent Complete : 80
Percent Complete : 90
```

Note: It may say here for 5 minutes or more. You should see this when it finishes.

```
Percent Complete : 100
The installation of Oracle HTTP Server 12.2.1.4.0 completed successfully.
Logs successfully copied to /home/otm65x/oraInventory_12214/logs.
```

Note: Before running the OTM installer you need to create the OHS/MDS repository. This is done by running the rcu script.

The rcu command be run in silent mode by creating a password file that contains the database sys user password and the password for the other users created by rcu or the passwords can manually enter the passwords at runtime.

Note: Use the same ohs_user_pwd in this section of the installer.properties file you are using for OTM.

- **MDS_SCHEMA_STB_PWD=ohs_user_pwd**
- **MDS_SCHEMA_OPSS_PWD=ohs_user_pwd**
- **MDS_SCHEMA_IAU_VIEWER_PWD=ohs_user_pwd**
- **MDS_SCHEMA_IAU_APPEND_PWD=ohs_user_pwd**
- **MDS_SCHEMA_MDS_PWD=ohs_user_pwd**

The OTM installer only requires passwords for a few of the users. This is the full list of the users that will be created when you run rcu.

Note: The name of the actual users will change based on MDS_PREFIX you use.

- **<MDS_PREFIX>_MDS**
- **<MDS_PREFIX>_IAU**
- **<MDS_PREFIX>_IAU_APPEND**
- **<MDS_PREFIX>_IAU_VIEWER**
- **<MDS_PREFIX>_OPSS**
- **<MDS_PREFIX>_UMS**
- **<MDS_PREFIX>_WLS**

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- **<MDS_PREFIX>_WLS_RUNTIME**
- **<MDS_PREFIX>_STB**

The settings in this section of the installer.properties file will be the same that you use to fill in the different parameters for the rcu command mentioned later.

- **MDS_DB_FQDN=xxxxx.$DOMAIN_NAME$**
- **MDS_DB_PORT=<Port>**
- **MDS_DB_SERVICE_NAME=xxxxx**
- **MDS_PREFIX=xxxxx**

In the same installer.properties you have a setting for BEA_HOME. This should have the same value as the ORACLE_HOME in the .rsp files you created earlier.

6. Go to the directory where the rcu command is.

```
cd <ORACLE_HOME>/oracle_common/bin/
```

7. Fill in the MDS parameters using the information above and run the rcu silent install command.

Using this command you will be prompted for the sys user password and the password for each of the repository users.

```
./rcu -silent -createRepository -databaseType ORACLE -connectString
<MDS_DB_FQDN>:<MDS_DB_PORT>:<MDS_DB_SERVICE_NAME> -dbUser sys -dbRole sysdba -schemaPrefix <MDS_PREFIX>
-component MDS -component IAU -component IAU_APPEND -component IAU_VIEWER -component OPSS -component
UCSUMS -component WLS -component STB
```

Note - You will be prompted for the password for "sys" and the other users when run.

Or create a password.txt file in the /tmp directory with the following format.

```
sys_user_pwd
ohs_user_pwd
ohs_user_pwd
ohs_user_pwd
ohs_user_pwd
ohs_user_pwd
ohs_user_pwd
ohs_user_pwd
ohs_user_pwd
ohs_user_pwd
```

And run this command.

```
./rcu -silent -createRepository -databaseType ORACLE -connectString
<MDS_DB_FQDN>:<MDS_DB_PORT>:<MDS_DB_SERVICE_NAME> -dbUser sys -dbRole sysdba -schemaPrefix <MDS_PREFIX>
```

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```
-component MDS -component IAU -component IAU_APPEND -component IAU_VIEWER -component OPSS -component
UCSUMS -component WLS -component STB -f < /tmp/password.txt
```

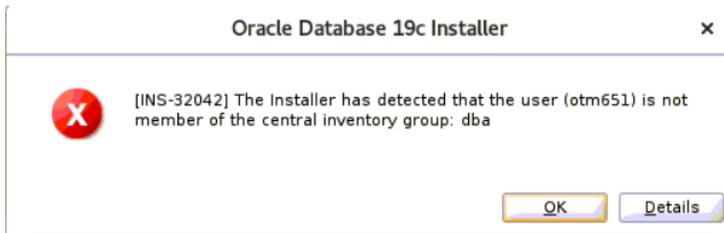**Note:** Be sure and remove the password.txt file when you are done.

```
rm /tmp/password.txt
```

Installing the Oracle 19C Client

Create a directory and unzip the V982063-01.zip file.

Log into an xserver session with a user in the dba group and run the runInstaller script.

Note: If you don't run the installer with a user in the dba group the following message will be displayed.

If the user installing FMW, OHS and OTM is not in the dba group you can complete the installation of the Oracle Client as another user in the dba group and change the permissions on the Oracle Client install for the OTM user to be able to access it.

Leave the **Set Up Software Only** option select and press **Next**
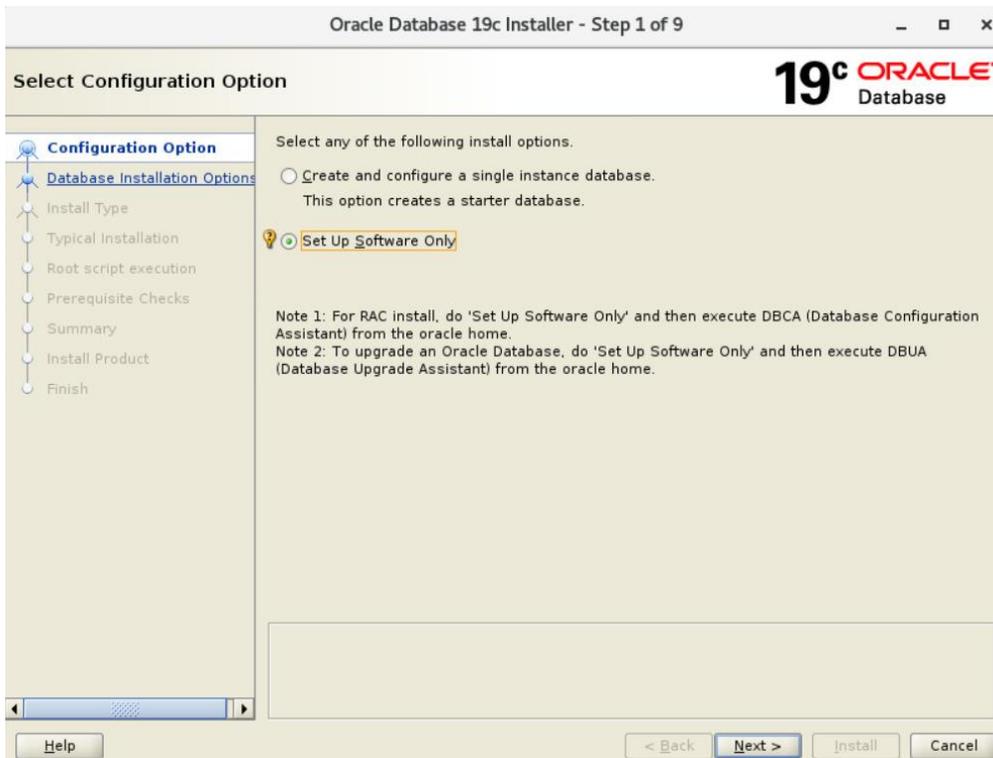
Since we are only using the install for the Oracle DB Client leave the **Single instance database installation** selected and press **Next**
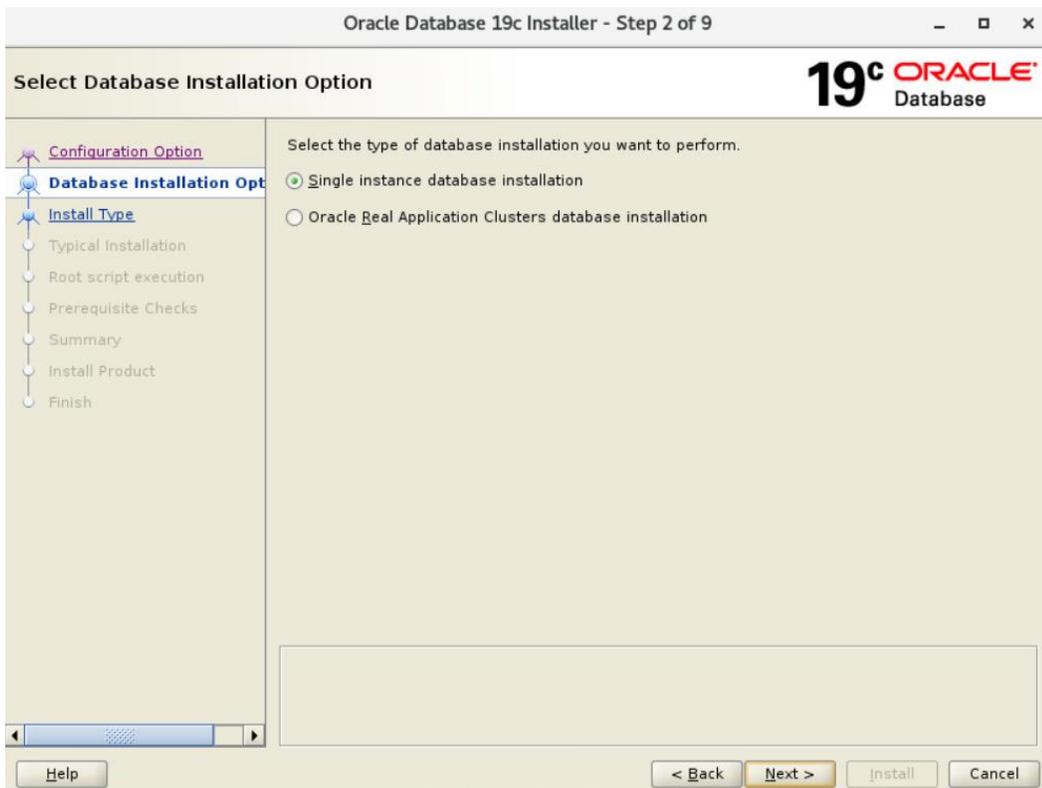
Leave the **Enterprise Edition** option selected and press **Next**
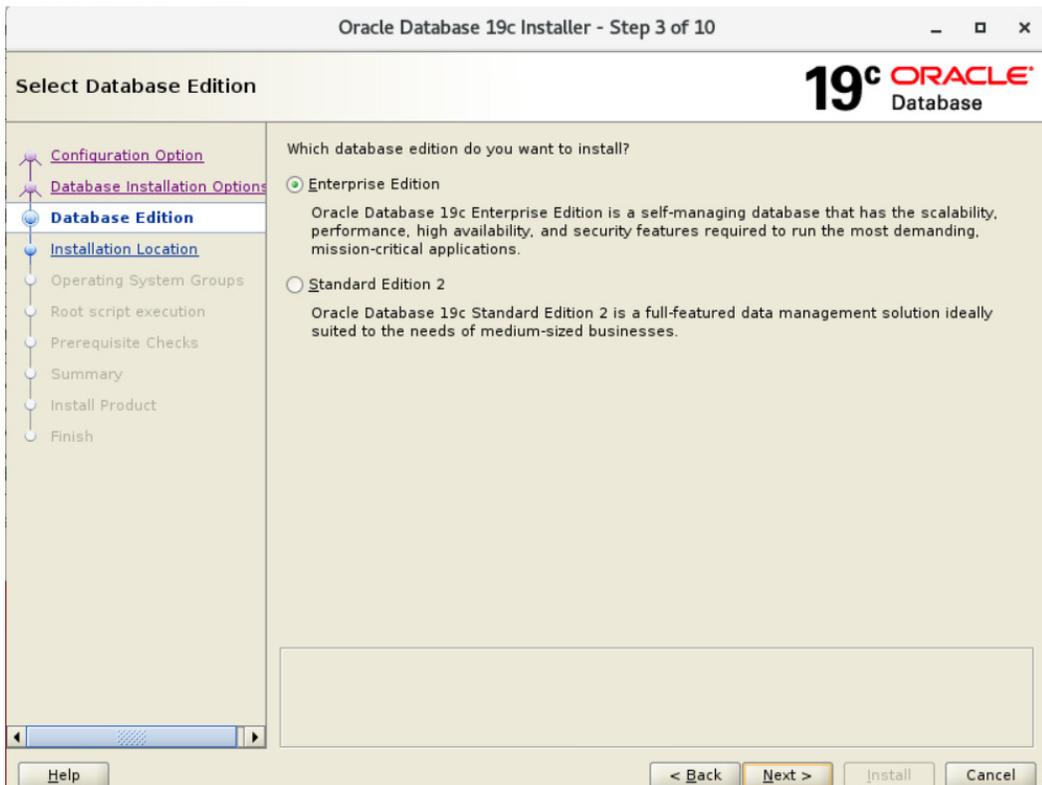
Enter the location you want to install the Oracle Database Client software and press **Next**
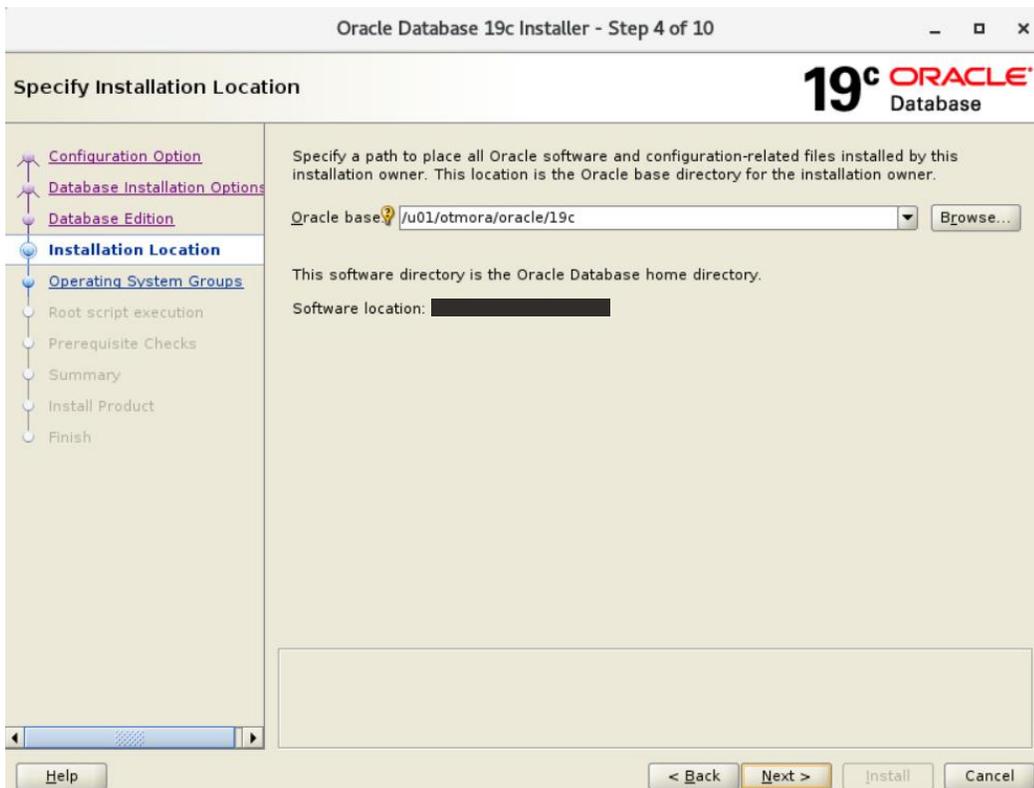
Note: The following error could be displayed if the user doing the install does not have access to the files in the /etc/oraInventory location. You may need to change permissions on the file to allow access.
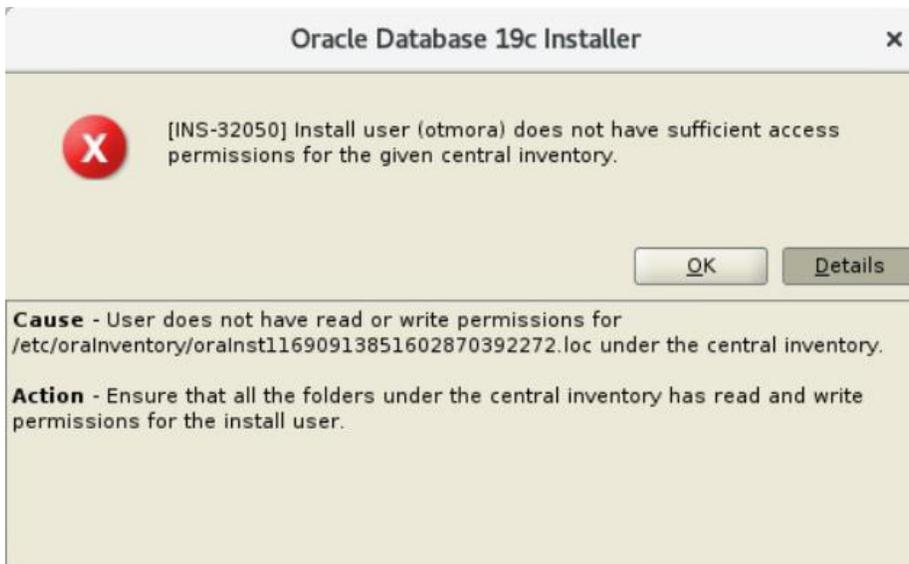
Set the Database Operator Group to match the group associated with the user doing the Oracle Client install.
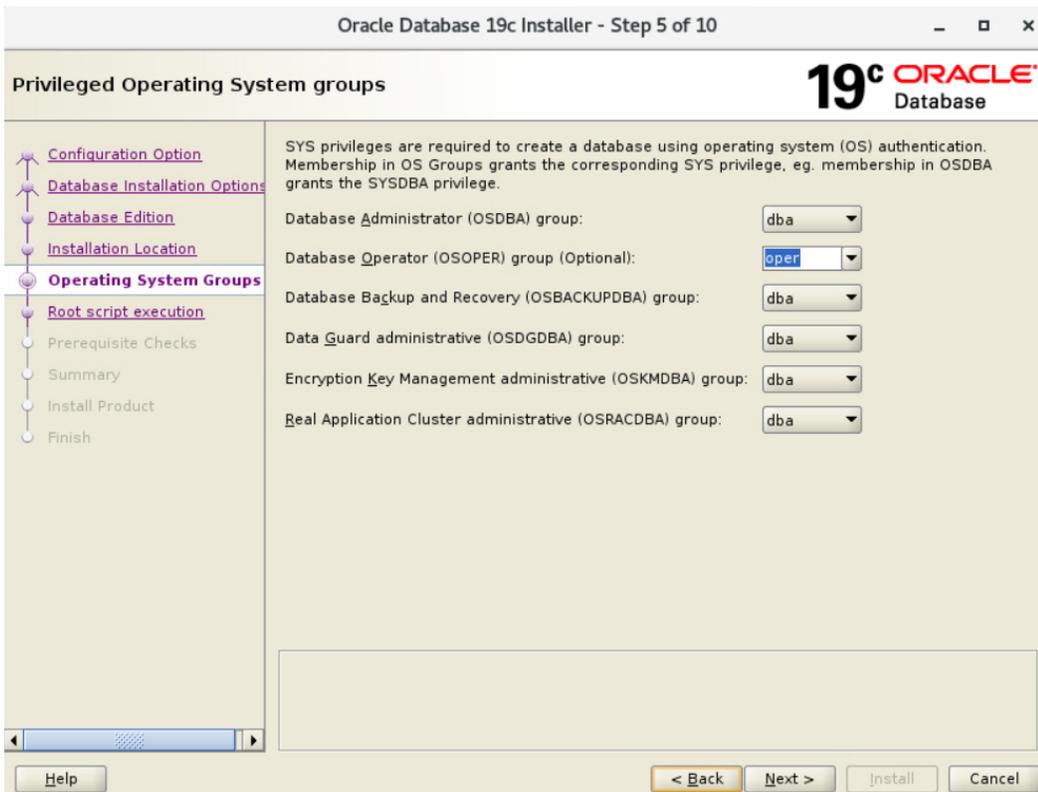
If this does not match the group your user is assigned, you will see the following error during the prerequisite check.
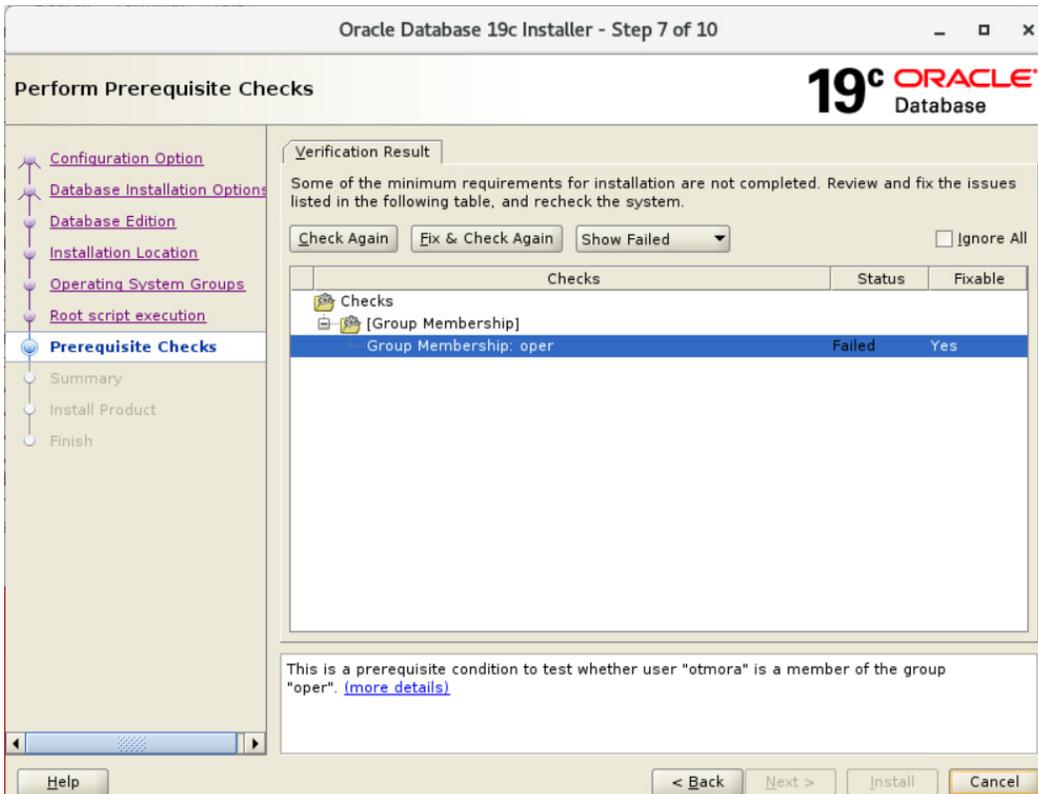
Once the proper group is selected press **Next**
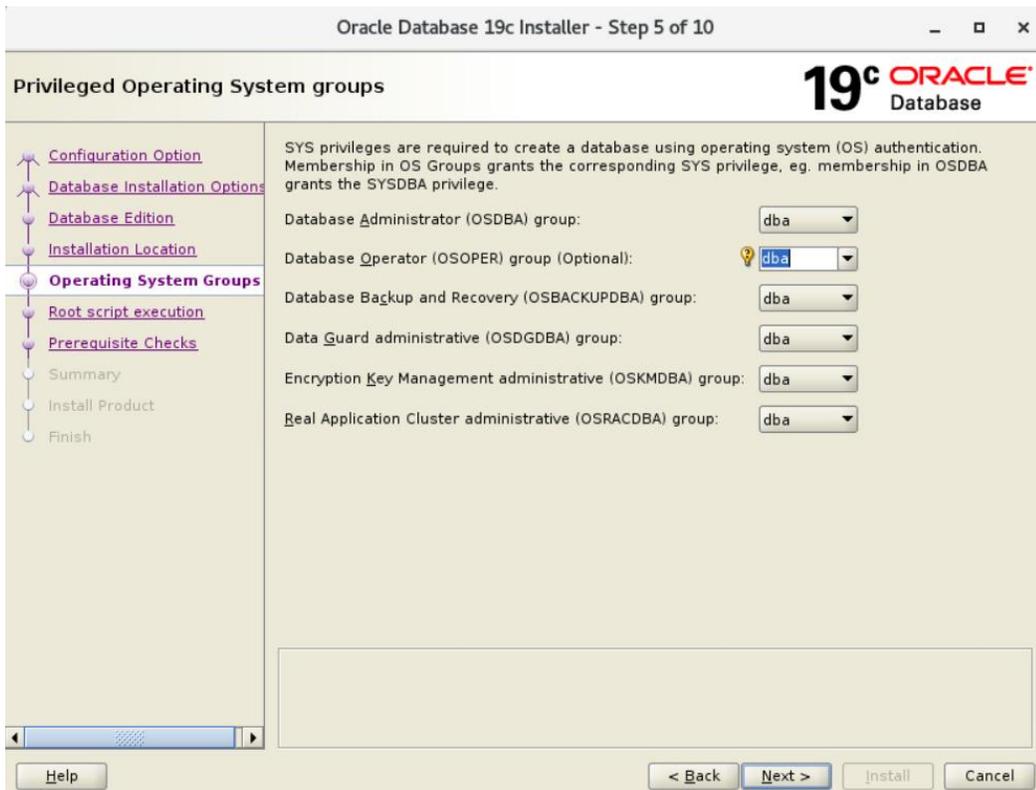
Some of the installation scripts need to be run as root. Leave the **Automatically run configuration scripts** selected and provide the root user password or select the **Use sudo** option and provide the info needed and press **Next**
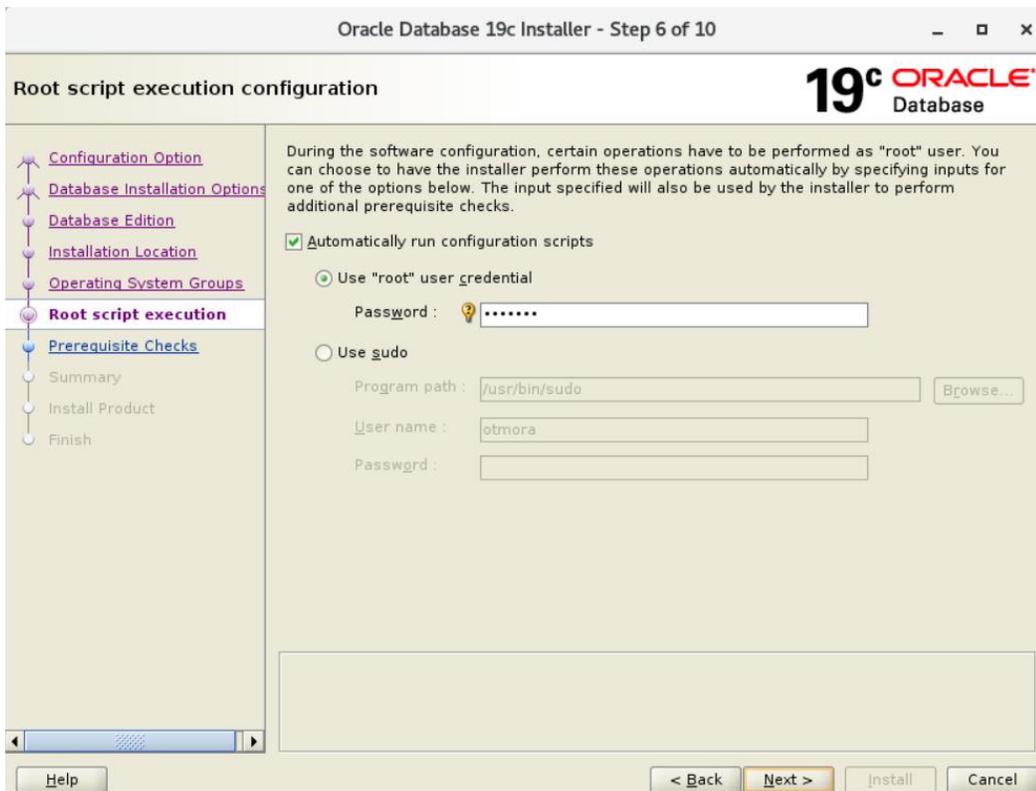
Press **Save Response File** or **Install** to start the installation process
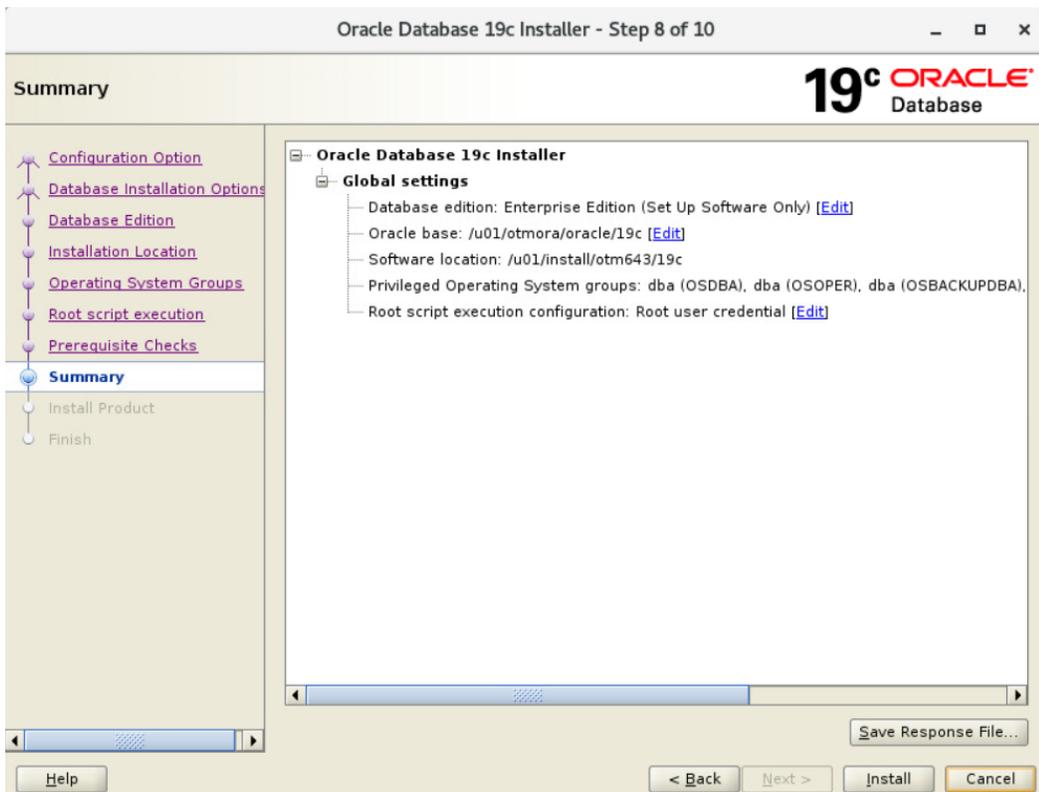
You should see the following.
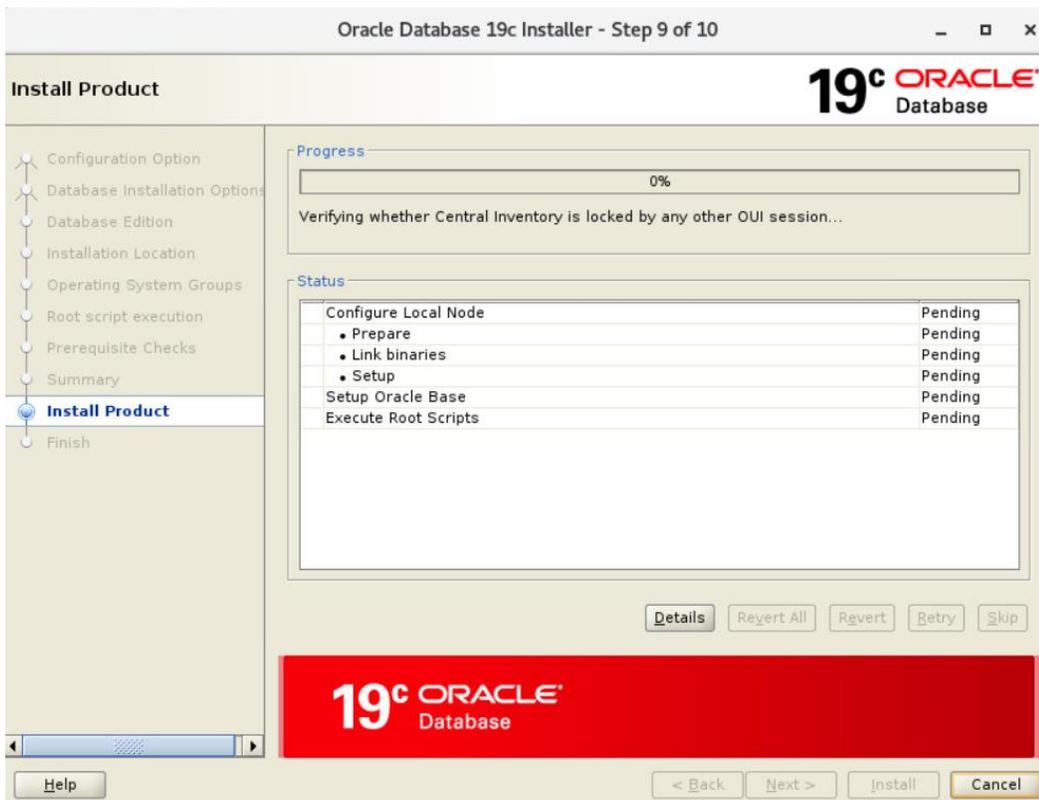
During the installation the following message will be displayed. Press **Yes** to continue.
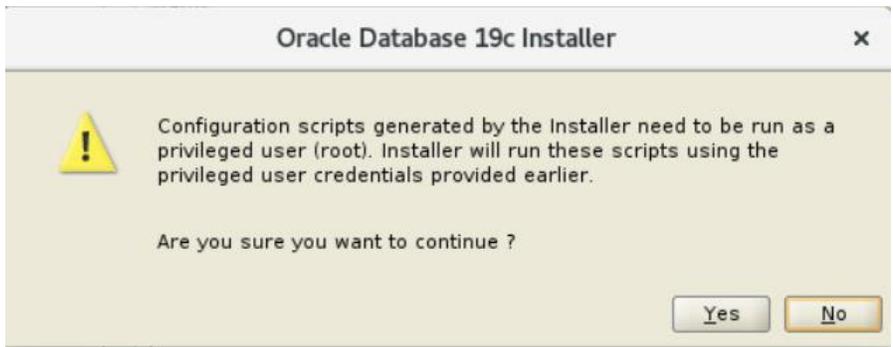
The following screen is displayed when the installation is done.
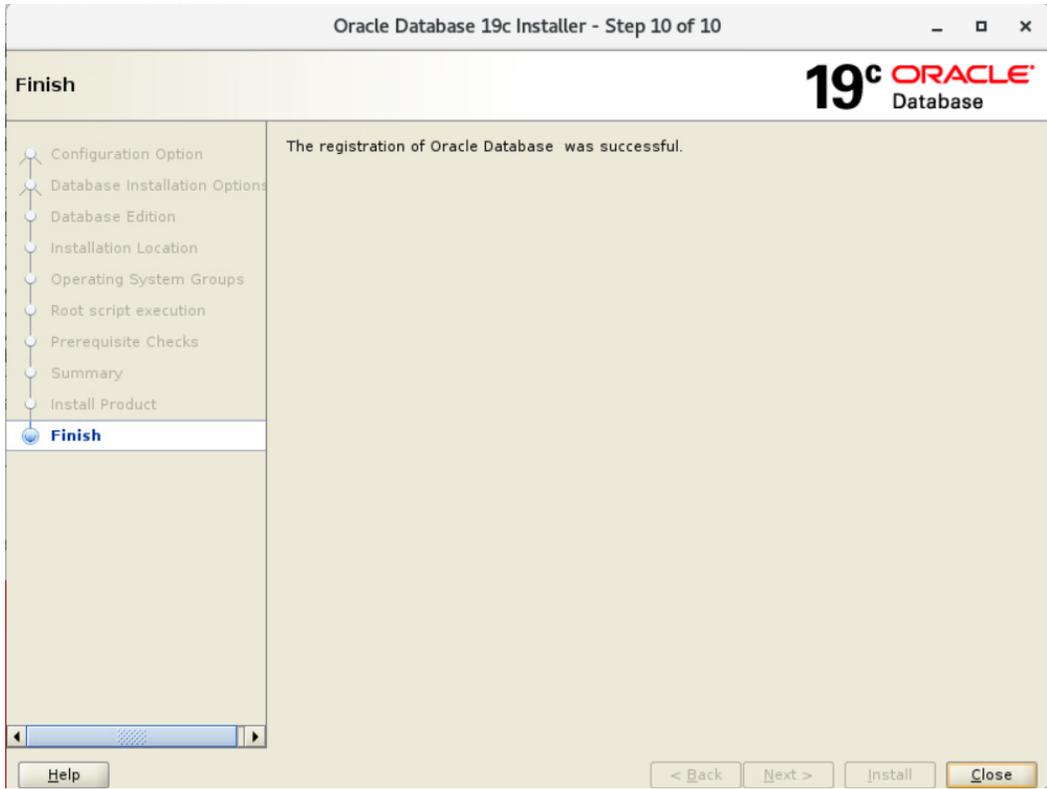
Press **Close**

Installing OTM 6.5.x using the Silent Installer

OTM 6.5.x only supports installation using the silent installer method. This method makes installation of multiple instances much easier by allowing the system administrators to change a few settings in the example.installer.properties file for other instances they may want to install.

Unzip the OTM installer and review the files that are extracted.

- docs.zip
- example.installer.properties
- otmv65x_linux.bin
- ReadMe.txt

Editing the example.installer.properties

The example.installer.properties will be used by the silent installer to provide the answer to all of the parameters used during the installation process.

Note: Make a copy of the example.installer.properties before making any of the changes needed for your installation.

The first section of the file you need to update is for the user that is going to running the OTM processes on the server.

```
#---------------------------------------------------------------------
#--- All configurations, Unix/Linux only
#---------------------------------------------------------------------

# UNIX_USER_NAME - the system user name of the user that will own OTM
# processes (usually the user logged in when doing the install
# itself); please see notes under USER_GROUP_CHECK_FAIL_OK below
UNIX_USER_NAME=otm65

# UNIX_GROUP_NAME - the system group name of the user that will own OTM
# processes (usually the user logged in when doing the install
# itself); please see notes under USER_GROUP_CHECK_FAIL_OK below
UNIX_GROUP_NAME=otm65

# UNIX_USER_HOME - the home directory of $UNIX_USER_NAME$
UNIX_USER_HOME=/home/$UNIX_USER_NAME$

# USER_GROUP_CHECK_FAIL_OK - if your system is set up so that user or
# group names are not stored locally in the standard files
# (e.g. /etc/passwd, /etc/group) then the installer will not be able
# to validate that the names supplied are valid.  In this case, and in
# this case only, you should set this value to 'true' which will
# indicate to the installer that it's OK to fail this check.  Valid
# values are (without the quotes): 'true', 'false'.
#
# NOTE: Please do not use this value unless you are absolutely sure
# that the values supplied for UNIX_USER_NAME, UNIX_GROUP_NAME and
# UNIX_USER_HOME are valid and spelled correctly.  Setting this
# variable to 'true' while supplying invalid data will result in an
# unusable installation.
```

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```
USER_GROUP_CHECK_FAIL_OK=false
```

Update the following lines with the correct values for your installation.

UNIX_USER_NAME=otm65
UNIX_GROUP_NAME=otm65
UNIX_USER_HOME=/home/$UNIX_USER_NAME$

The next section contains installation and configuration for your OTM instance.

```
#----------------------------------------------------------------------
#--- All configurations, all platforms
#----------------------------------------------------------------------

# USER_INSTALL_DIR - where OTM should be installed to
USER_INSTALL_DIR=/opt/otm

# DOMAIN_NAME - the TCP/IP domain name; not used directly by the
# installer, but could be used elsewhere in this properties file
DOMAIN_NAME=oracle.com

# BEA HOME
BEA_HOME=/opt/bea

# BEA Server Path
BEA_SERVER_PATH=$BEA_HOME$/wlserver

# OTM_HOSTNAME - OTM server's machine name
OTM_HOSTNAME=otm-hostname

# OTM_FQDN - The FQDN of the OTM server; this is the "real"
# machine name (see 'OTM_EXT_FQDN' below)
OTM_FQDN=$OTM_HOSTNAME$.$DOMAIN_NAME$

# OTM_PORT - The port that the OTM server is listening on
# NOTE: This port number must match what was used during the OHS install
#       unless some sort of port redirection was done (see the "Admin
#       Privileges" section of the OTM Security Guide)
OTM_PORT=7778

# OTM_SSL_PORT - the SSL port that the otm server listens on
OTM_SSL_PORT=4444

# OTM_EXT_FQDN - The external FQDN of the OTM server (could be
# different than the internal FQDN of the OTM server)
OTM_EXT_FQDN=$OTM_FQDN$
```

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```
# OTM_EXT_PORT - The external port of the OTM server (could be
# different than the internal port of the OTM server)
OTM_EXT_PORT=$OTM_SSL_PORT$


# OTM URL PROTOCOL - Accessing url with http or https
# This need to be defined for both Internal and External FQDN
# Default value for both is https only.
OTM_INTERNAL_PROTOCOL=https
OTM_EXTERNAL_PROTOCOL=https
```

- Update the **USER_INSTALL_DIR** property with the location where you want OTM installed. Be sure the user running the install has write permission to create the directory if it does not exist.
- Update the **DOMAIN_NAME** property with the correct value for your installation. This value will be used throughout the installation.
- For this install, if my server's Fully Qualified Domain Name (FQDN) is **otm65x.yourcompany.com** the DOMAIN_NAME property should be set to **yourcompany.com**.
- Update the **BEA_HOME** property with the path you used when you installed Oracle Fusion Middleware 12.2.1.4.
- The **BEA_SERVER_PATH** property should not need to be changed.
- Update the **OTM_HOSTNAME** property with the beginning of the FQDN of your OTM server. Using the same FQDN mentioned above, **otm65x.yourcompany.com** this should be set to "**otm65x**"
- **Note:** Installations using IP addresses are not supported.
- The **OTM_FQDN** property should not need to be changed.

Note: During the installation of OTM you will be required to define ports for the Web, App and DB servers being used. If you decide to change any of the port setting from the default values, be sure the same port is not used later in the installation or by another application running on the same server.

- Update the **OTM_PORT** with the port you want to use for the installation or leave the port set to 7778.
- Update the **OTM_SSL_PORT** with the port you want to use for the installation or leave the port set to 4444.
- Update the **OTM_EXT_FQDN** and **OTM_EXT_PORT** with new values if you are not expecting them to be same as the **OTM_FQDN** and **OTM_PORT** defined earlier.
- Leave the **OTM_INTERNAL_PROTOCOL** and the **OTM_EXTERNAL_PROTOCOL** property to https or change to http depending on your installation needs. Clients that are planning on terminating SSL at a load balancer will need http while other clients may have direct access to the instance over the internet and require https for their installation.

If you are are interested in using HTTPS, you can follow the instructions on this note for creating the SSL wallet and keystore files needed for the installation.

How to Create a SSL Wallet for use with OTM 6.4.3 and 6.5.x (Doc ID 2760654.1)

If the wallet and keystore are created using this note, you should have the information needed to answer the following questions in the installer.properties file you are using.

```
# -------------------------------------------------------------------------------------
```

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```
# if OTM_INTERNAL_PROTOCOL is set to "https" then below 7 variable need to set for OTM
# ----------------------------------------------------------------------------------

###  For OTM
# Full path to the location of the Identity keystore file created prior to OTM installation.
# and Identity Keystore Password: The password used when the keystore was generated.
IDENTITY_KEYSTORE_FILE_LOCATION=
IDENTITY_KEYSTORE_PASSWORD=
# Full path to the location of the Trust keystore file created prior to OTM installation.
# and Trust Keystore Password: The password used when the keystore was generated.
TRUST_KEYSTORE_LOCATION=
TRUST_KEYSTORE_PASSWORD=
# Private key alias: Alias associated to your java keystore.
#  Private Key Password: the passphrase associated to your alias.
PRIVATE_KEY_ALIAS=
PRIVATE_KEY_PASSWORD=
# Enter the KeyStore location created prior to the OTM installation
# This is the location till directory
WALLET_DIR_OHS=
# ------------------------------------------------------------------------------------------
```

I do not recommend changing this setting unless you are setting up multiple instances and enabling scalability.

```
#--------------------------------------------------------------------
#--- WALLET Configuration

# WALLET_EXIST variable holding boolean values (TRUE/FALSE)
# If WALLET already Exist then its value is TRUE and WALLET_DIRECTORY
# varibale hold the directory path where wallet is exist
# If new WALLET need to be get created then its value is FALSE and
# WALLET_DIRECTORY holds the value where the wallet need to be get created.
#--------------------------------------------------------------------

WALLET_EXIST=FALSE

WALLET_DIRECTORY=$USER_INSTALL_DIR$/wallet
```

Note: Do not change the value of the **WALLET_EXISTS** from FALSE to false. This will cause the installation to fail during the OHS deployment with the following error.

```
Fri Oct 13 21:46:03 GMT 2023
Start Running the MDSConfig.py script
Command executed /u01/otm/Middleware_12.2.1.4.0/oracle_common/common/bin/wlst.sh
/u01/otm/otm651/wlst/webapp/MDSConfig.py

Initializing WebLogic Scripting Tool (WLST) ...
```

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```
Welcome to WebLogic Server Administration Scripting Shell


Type help() for help on available commands


Connecting to t3://<HostName>: <Port> with userid weblogic ...
This Exception occurred at Fri Oct 13 21:46:16 GMT 2023.
javax.naming.CommunicationException: Failed to initialize JNDI context, tried 2 time or times totally,
the interval of each time is 0ms.
t3://<HostName>:<Port>: Destination <YourIPAddress>, <Port> unreachable.; nested exception is:
        java.net.ConnectException: Connection refused (Connection refused); No available router to
destination.; nested exception is:
        java.rmi.ConnectException: No available router to destination. [Root exception is
java.net.ConnectException: t3://<HostNAme>:<Port>: Destination<YourIPAddress>, <Port> unreachable.;
nested exception is:
        java.net.ConnectException: Connection refused (Connection refused); No available router to
destination.; nested exception is:
        java.rmi.ConnectException: No available router to destination.]
MDSConfig.py script completed: 1
```

The next section has information about the Database Server and Instance you are using for OTM.

```
# DB_FQDN - the internal FQDN of the OTM database server
DB_FQDN=otmdb.$DOMAIN_NAME$


# DB_PORT - the port that the OTM database instance is listening on
DB_PORT=1521


# DB_CONNECTSTRING - the connect string for the OTM database instance
DB_CONNECTSTRING=otmdb


# DB_SID - the service name for the OTM database instance (this could be
# the service name, the SID or the Scan Listener value)
DB_SID=$DB_CONNECTSTRING$


# DB_CLIENT_PATH - the full path to the Oracle database client install
DB_CLIENT_PATH=/u01/app/oracle/product/19c


# MAIL_SMTP_FQDN - the FQDN of the mail server used to send outbound
# emails
MAIL_SMTP_FQDN=smtp.$DOMAIN_NAME$


# MAIL_REPLYTO_EMAIL - the reply-to email address that all
# notification emails use
MAIL_REPLYTO_EMAIL=OtmAdvisor@$DOMAIN_NAME$


# GC3_MIGRATE - whether or not this instance should migrate custom
# configuration changes from a previous release's glog.properties
# file; see the OTM Admin Guide for more information on when this
```

```
# should be used.  Valid values are (without the quotes): 'Yes',
# 'No'.
#
# NOTE: OTM has been changed to work off of Service Names instead of
# SIDs.  Most non-RAC database instances will have the same value for
# both Service Name and SID, so this should not be an issue.  Please
# see the Install Guide for more information.
GC3_MIGRATE=No

# GC3_MIGRATE_PATH - the path with the old glog.properties file is
# located.  This is only used if GC3_MIGRATE is set to 'true'.
GC3_MIGRATE_PATH=/opt/old-otm/glog/config
```

- Update the **DB_FQDN** to the correct value for your DB server. In most cases you only need to change otmdb to the name of your DB server, the $DOMAIN_NAME$ variable should pull in the remaining portion of the server name.
- Update the **DB_PORT** with the port you are using.
- Update the **DB_CONNECTSTRING** property with the Service Name of the DB instance.
- The same value is used for the **DB_SID** property, so it is important this is set correctly for your instance. Failure to do so could cause connection failures and problems with the DB installation or migration to 6.5.x.
- Update the **DB_CLIENT_PATH** property with the directory where you installed the 19c Oracle DB client. The Oracle DB Client should be the Administrator Install.
- Update the **MAIL_SMTP_FQDN** property. In most cases you only need to change the "smtp" to beginning portion of the FQDN of your SMTP server as long as the domain name is the same as the value you defined previously.
- We do not recommend changing the value of the **GC3_MIGRATE** property to Yes. Any custom property settings used in a previous version should be checked before using them in a new release.

The following section is used for setting up the OHS instance.

```
#----------------------------------------------------------------------
#--- OTM server installations only, all platforms
#----------------------------------------------------------------------

# OTM Server WebLogic Domain Settings {Name, PORT, SSL PORT, Node Manager Port}
OTM_DOMAIN_NAME=otm653
OTM_DOMAIN_LISTEN_PORT=8001
OTM_DOMAIN_SSL_LISTEN_PORT=8002
OTM_NODE_MANAGER_LISTEN_PORT=5556


# OHS_COMPONENT_NAME - the name of the OHS component
OHS_COMPONENT_NAME=otm653

#OTM OHS PORT
OTM_OHS_PORT=7777

#OTM OHS SSL PORT
```

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```
OTM_OHS_SSL_PORT=4443


# OHS admin Port
OHS_ADMIN_PORT=9999


# COHERENCE CLUSTER PORT
COHERENCE_CLUSTER_PORT=7564


# OTM_SERVLET_JVM_MEMORY - amount of memory (in MB) to allocate to
# weblogic for OTM Server
OTM_SERVLET_JVM_MEMORY=4096


# OTM_LAUNCHER_PORT - the port number that the OTM  launcher is
# listening on -- NOTE: this must be unique for every Launcher instance
# on the box as it binds to localhost (127.0.0.1), not a specific IP
# address
OTM_LAUNCHER_PORT=32000
```

- The **OTM_DOMAIN_NAME** property can use the default value or be changed, depending on your installation requirements.
- The **OTM_DOMAIN_LISTEN_PORT** property can use the default value or be changed, depending on your installation requirements.
- The **OTM_DOMAIN_SSL_LISTEN_PORT** property can use the default value or be changed, depending on your installation requirements.
- The **OTM_NODE_MANAGER_LISTEN_PORT** property can use the default value.
- The **OHS_COMPONENT_NAME** property can use the default value or be changed, depending on your installation requirements.
- The **OTM_OHS_PORT** property can use the default value or be changed, depending on your installation requirements.
- The **OTM_OHS_SSL_PORT** property can use the default value or be changed, depending on your installation requirements.
- The **OHS_ADMIN_PORT** property can use the default value or be changed, depending on your installation requirements.
- The **COHERENCE_CLUSTER_PORT** property can use the default value or be changed, depending on your installation requirements.
- The **OTM_SERVLET_JVM_MEMORY** is setup by default to use 4GB of memory. You should not expect to run your production instance using this setting. With this setting the combined web and application server could still use up to 8GB of memory depending on what actions are being run. Be sure and plan your server resources to account for this additional memory usage.

- The **OTM_LAUNCHER_PORT** property can be left with the port already defined or changed depending on your installation requirements.

The following section is used to set up the OHS repository connection information.

```
#### MDS DATABASE Settings {DB, PORT, Service Name, Prefix}
MDS_DB_FQDN=mdsdb.$DOMAIN_NAME$
MDS_DB_PORT=1521
MDS_DB_SERVICE_NAME=mdsdb
MDS_PREFIX=OTM

## MDS Schema Name
MDS_SCHEMA_STB=$MDS_PREFIX$_STB
MDS_SCHEMA_OPSS=$MDS_PREFIX$_OPSS
MDS_SCHEMA_IAU_VIEWER=$MDS_PREFIX$_IAU_VIEWER
MDS_SCHEMA_IAU_APPEND=$MDS_PREFIX$_IAU_APPEND
MDS_SCHEMA_MDS=$MDS_PREFIX$_MDS

# OTM Web/App Communication
OTM_APP_USER_NAME=OTMApp
OTM_APP_GROUP_NAME=OTMAppUser
```

- The **MDS_DB_FQDN** should only need the "mdsdb" value updates as long as the DOMAIN_NAME of the MDS DB server is the same as the value defined previously.
- Update the **MDS_DB_PORT** with the port you are using.
- Update the **MDS_DB_SERVICE_NAME** property with the Service Name of the DB instance. This may match the **DB_CONNECTSTRING** you defined earlier.
- Update the **MDS_PREFIX** with the value you used when you created the OHS/MDS Repository.
- None of the **MDS_SCHEMA** properties should need to be updated.
- The **OTM_APP_USER_NAME** and the **OTM_APP_GROUP_NAME** property can be left with the default value, or changed to meet your installation requirements. These do not need to be actual users on the OS where OTM is being installed. They are used for internal communications between the Web and App portions of OTM.

The next section of the file is where you define some of the passwords for instance.

```
#---------------------------------------------------------------------
#--- Passwords
#---------------------------------------------------------------------

#+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
#+++
#+++ NOTE: The following values MUST BE changed from their default value
#+++                              ^^^^^^^
#+++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++

#.....................................................................
#... All configurations, all platforms
#.....................................................................

# WEBLOGIC_ADMIN_PASSWORD - password for the WebLogic Admin user
WEBLOGIC_ADMIN_PASSWORD=default
```

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```
# OTM_SYSTEM_PASSWORD - password for the otm system
OTM_SYSTEM_PASSWORD=default

# OTM_APP_WEB_USER_PASSWORD - password used for APP-to-WEB User communication
# authentication; this will not ever be typed in by a user.  In an OTM
# Scalability cluster (SCA) setup, the value for this variable must be
# the same on all systems in the cluster.
OTM_APP_WEB_USER_PASSWORD=APP2WEBPASS

# GUEST_USER_PASSWORD - Guest user account password
GUEST_USER_PASSWORD=default

# GLOGDBA_PASSWORD, GLOGLOAD_PASSWORD - database user
# passwords
GLOGDBA_PASSWORD=default
GLOGLOAD_PASSWORD=default

# ARCHIVE_C_USER_PASSWORD - To Run the Staged Archived reports
ARCHIVE_C_USER_PASSWORD=default

## MDS Schema passwords
# These passwords will be same that were entered during the MDS DB settings
# prior to the installation.
# They will be utilized during the combined installation
MDS_SCHEMA_STB_PWD=default
MDS_SCHEMA_OPSS_PWD=default
MDS_SCHEMA_IAU_VIEWER_PWD=default
MDS_SCHEMA_IAU_APPEND_PWD=default
MDS_SCHEMA_MDS_PWD=default
```

Note: The passwords you use should be at least 8 characters and contain at least one number. The following characters should **NOT** be used:

 # [ ] $ % ? { } ` \ " ' |

- Update the **WEBLOGIC_ADMIN_PASSWORD** with the password you want to use for this installation.
- Update the **OTM_SYSTEM_PASSWORD** with the password you want to use for this installation. This should be the same password for the otmSystem user in the gl_user table.
- Use the existing password for the **OTM_APP_WEB_PASSWORD** or update the password with the value you want to use for this installation. This value should be the same for all OTM machines if you are enabling scalability.
- Update the **GUEST_USER_PASSWORD** with the password you want to use for this installation. This should be the same password for the guest user in the gl_user table.
- Update the **GLOGDBA_PASSWORD** with the password you want to use for this installation.
- Update the **GLOGLOAD_PASSWORD** with the password you want to use for this installation.
- Update the **ARCHIVE_C_USER_PASSWORD** with the password you want to use for this installation.

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- Update the following properties with the **ohs_user_pwd** you used when you created the OHS/MDS repository.
  - MDS_SCHEMA_STB_PWD=default
  - MDS_SCHEMA_OPSS_PWD=default
  - MDS_SCHEMA_IAU_VIEWER_PWD=default
  - MDS_SCHEMA_IAU_APPEND_PWD=default
  - MDS_SCHEMA_MDS_PWD=default

Using the passwords from your currently installation

Note - If you are following this guide, you are expected to be at least on OTM 6.4.3 and migrating to OTM 6.5.x.

If so, you should be able to see the passwords for the WEBLOGIC_ADMIN_PASSWORD, OTM_SYSTEM_PASSWORD, OTM_APP_WEB_USER_PASSWORD, GUEST_USER_PASSWORD, GLOGDBA_PASSWORD, GLOGLOAD_PASSWORD and ARCHIVE_C_USER_PASSWORD by checking the wallet of your previous install of OTM.

From the <OTM_INSTALL_DIR>/install dir run the following to see the location of the existing wallet files.

```
grep WALLET_HOME gc3env.sh
```
Use the location returned in the following command to view the passwords for some of the users in the wallet.shared wallet.

```
./otmstore -wrl <Wallet Location>/wallet.shared -viewEntry ohs.admin -viewEntry oltp.archive_c_user -
viewEntry oltp.glogdba -viewEntry oltp.glogload -viewEntry otm.app-web -viewEntry otm.guest -viewEntry
otm.otmSystem
```
Use the passwords listed to update the values in the example.installer.properties you are using.

- ohs.admin = [WEBLOGIC_ADMIN_PASSWORD]
- oltp.archive_c_user = [ARCHIVE_C_USER_PASSWORD] <--- this is the archive_c_user database user password
- oltp.glogdba = [GLOGDBA_PASSWORD] <--- this is the glogdba database user password
- oltp.glogload = [GLOGLOAD_PASSWORD] <--- this is the glogload database user password
- otm.app-web = [OTM_APP_WEB_USER_PASSWORD]
- otm.guest = [GUEST_USER_PASSWORD] <--- this is the guest user in the gl_user table
- otm.otmSystem = [OTM_SYSTEM_PASSWORD] <--- this is the otmSystem user in the gl_user table

The last section of the file will tell the installer to generate scripts for moving work benches from one repository to another.

```
# Work bench Layout Migration
# To Enable the migration of the Work bench layout set the variable
# WB_MIGRATE  to Yes  elso No
WB_MIGRATE=No
# If Work Bench migration layout variable is set to "Yes" then the below
# variables need to be set. These variables will hold the value of the
# MDS DB details of the existing/Previous OTM version from it need to be migrated.
# After the install the values of existing/Previous and New MDS schema will be updated
# in the mds export and import files.
# Note: User need to manually update the files only for passwords both for (existing and NEW MDS
Schema).
# Once the migration is completed user will remove the passwords from the file to comply with security
norms
```

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```
MDS_PREFIX_PREV=OTM
MDS_DB_FQDN_PREV=mdsdb.$DOMAIN_NAME$
MDS_DB_PORT_PREV=1521
MDS_DB_SERVICE_NAME_PREV=mdsdb
MDS_SCHEMA_MDS_PREV=$MDS_PREFIX_PREV$_MDS
```

The scripts will be created in the <OTM_INSTALL_DIR>/install directory if you set the following to Yes.

- WB_MIGRATE=No

- If the WB_MIGRATE value is set to Yes the following entries will also need to be updated.

- Update the MDS_PREFIX_PREV with the name of the previous repository.

- Update the MDS_DB_FQDN_PREV with the name of the server the previous repository was stored on.

- Update the MDS_DB_PORT_PREV with the port of the database server the previous repository was stored on.

- Update the MDS_DB_SERVICE_NAME_PREV with the connection info the previous repository was created in.

Note - You can manually export and import the data from your existing 6.4.3 or above instance to the new 6.5.x instance by following these steps.
1. Go to the existing OTM Home and run the following commands to collect data for the export commands.

```
grep var.WL_HOME webserver/weblogic.conf
grep var.WL_PW webserver/weblogic.conf
grep webserver= glog/config/glog.properties
grep glog.web.serverURL glog/config/glog.properties
```

2. Create a directory you want to export the screen data.

```
mkdir <location you want the export info written to>
```
3. Use the values to run the commands below and export the data from each repository

```
cd <WL_HOME>/../oracle_common/common/bin
./wlst.sh
connect('weblogic','<value associated with var.WL_PW in weblogic.conf>','t3://<Value of webserver in
glog.properties>:<port mentioned in the glog.web.serverURL of glog.properties>')
exportMetadata(application='gc3webapp',server=<value of var.SERVER_NAME  in weblogic.conf>
',toLocation='<location you want the export info written to>',docs='/**')
disconnect()
```

Import the data into the new instance after running the installer and the migration scripts using these steps.

1. Go to the new OTM Home and run the following commands to collect data for the import commands.

```
grep var.WL_HOME webserver/weblogic.conf
grep var.WL_PW webserver/weblogic.conf
grep webserver= glog/config/glog.properties
grep glog.web.serverURL glog/config/glog.properties
```

2. Copy the files exported from the existing instance to a new directory on the new instance.

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3. Use the values to run the commands below and export the data from each repository

```
cd <WL_HOME>/../oracle_common/common/bin
./wlst.sh
connect('weblogic','<value associated with var.WL_PW in weblogic.conf on the primary
machine>','t3://<Value of webserver in glog.properties on the primary machine>:<port mentioned in the
glog.web.serverURL of glog.properties on the primary machine>')
importMetadata(application='gc3webapp',server='<value of var.SERVER_NAME  in weblogic.conf on the
primary machine> ',fromLocation='<location you have the files you want to import>',docs='/**')
disconnect()
```

Installing 6.5.1 and 6.5.2 on OEL 8

Clients that are moving from 6.4.3 to 6.5.3 need to install each of the 6.5.x versions and complete the migration process for each version, in order to successfully migrate to 6.5.3. This can be challenging due to the differences in operating systems supported for each version.

Use the following command before running the 6.5.1 or 6.5.2 installer if you want to install these versions on OEL 8.

```
export OTM_SKIP_OS_VERSION_CHECK=true
```
This will allow the 6.5.1 and 6.5.2 installer to skip the operating system check, which looks for OEL 7.

Note - It is not recommended you run these OTM versions on OEL 8, but they can be installed and you can run the migration steps that are required to get to the latest release.

Running the OTM Silent Installer for 6.5.1 and 6.5.2

Start the silent install by running the following command. Notice the "-f" and name of the installer properties file is listed in the command line.

```
 ./otmv651_linux.bin -i silent -f <path and file name of the otm651.installer.properties file>
./otmv652_linux.bin -i silent -f <path and file name of the otm652.installer.properties file>
./otmv653_linux.bin -i silent -f <path and file name of the otm653.installer.properties file>
```

Note: The path is only needed if the installer.properties file is not in the same directory as the OTM installer.

The information you see on the screen is slightly different depending on the version you are installing. When installing 6.5.1 or 6.5.2 you will see a screen similar to this.

ORACLE

```
Preparing to install...
Extracting the JRE from the installer archive...
Unpacking the JRE...
Extracting the installation resources from the installer archive...
Configuring the installer for this system's environment...

Launching installer...

Preparing SILENT Mode Installation...

==========================================================================
Oracle Transportation Management v6.5.1 GA      (created with InstallAnywhere)
--------------------------------------------------------------------------




==========================================================================
Installing...
-------------

 [=================|=================|=================|=================]
 [
```

Once the installation reaches this point, it will start creating the OHS domain and configuring the instance. During this portion of the installation, WebLogic will restart several times.

```
Preparing to install...
Extracting the JRE from the installer archive...
Unpacking the JRE...
Extracting the installation resources from the installer archive...
Configuring the installer for this system's environment...

Launching installer...

Preparing SILENT Mode Installation...

==========================================================================
Oracle Transportation Management v6.5.1 GA       (created with InstallAnywhere)
--------------------------------------------------------------------------




==========================================================================
Installing...
-------------

 [=================|=================|=================|=================]
 [-----------------|-----------------|-----------------|-----------------]
```

To follow the installation during this time you can run the following command.

`tail -f <OTM_INSTALL_DIR>/logs/web_app_python_exec.log`

Information similar to this should be displayed.

```
Fri Jan 14 17:22:14 GMT 2022
Start Running the CreateDomain.py script
Command executed /u01/otm/Middleware_12.2.1.4.0/oracle_common/common/bin/wlst.sh
/u01/otm/otm651/wlst/webapp/CreateDomain.py


Initializing WebLogic Scripting Tool (WLST) ...


Jython scans all the jar files it can find at first startup. Depending on the system, this process may
take a few minutes to
complete, and WLST may not return a prompt right away.
```

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```
Welcome to WebLogic Server Administration Scripting Shell

Type help() for help on available commands

Exiting WebLogic Scripting Tool.

CreateDomain.py script completed: 0
```

At this point WebLogic will restart and another step in the configuration process will be run.

Once all of the process complete the following will be displayed.

```
Preparing to install...
Extracting the JRE from the installer archive...
Unpacking the JRE...
Extracting the installation resources from the installer archive...
Configuring the installer for this system's environment...

Launching installer...

Preparing SILENT Mode Installation...

==============================================================================
Oracle Transportation Management v6.5.1 GA      (created with InstallAnywhere)
------------------------------------------------------------------------------




==============================================================================
Installing...
-------------

 [==================|==================|==================|==================]
 [------------------|------------------|------------------|------------------]

Installation Complete.
```

You can run the following command in the < OTM_INSTALL_DIR>/logs to see if the installation was successful.

```
grep "script completed:" web_app_python_exec.log
```

The following should be displayed.

```
CreateDomain.py script completed: 0

CreateOHS.py script completed: 0

MDSConfig.py script completed: 0

UserGroup.py script completed: 0

DomainConfig.py script completed: 0

Deploy.py script completed: 0

AuthenticatorAuthorizer.py script completed: 0
```

Note: You should also use the "more" command and scan the entire file for possible errors that may be missed by the automated checks built into the installer.

Be sure and review the <OTM_INSTALL_DIR>/Oracle_Transportation_Management_v6.5.x_GA_Install_Log.log for possible errors during the install.

Running the OTM Silent Installer for 6.5.3

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Start the silent install by running the following command. Notice the "-f" and name of the installer properties file is listed in the command line.

```
./otmv653_linux.bin -i silent -f <path and file name of the otm653.installer.properties file>
```

Unlike other versions of 6.5.x, you will only see limited information on the screen during the installation process for 6.5.3.

When the installer starts, you will only see the cursor move down on the screen, no other indication that the installer is running is displayed.

You can monitor the progress by logging in to another ssh session and checking the contents of the <OTM_INSTALL_DIR> and then checking the logs after the <OTM_INSTALL_DIR>/logs directory is created by the installer.

The creation of the web_app_python_exec.log indicates the installer is creating the OHS domain and configuring the instance. WebLogic will be restarted several times during the domain creation and configuration process.

You can run the following command to follow the configuration process.

```
tail -f <OTM_INSTALL_DIR>/logs/web_app_python_exec.log
```

Information similar to this should be displayed.

```
Wed Mar  6 10:13:13 MST 2024
Start Running the CreateDomain.py script
Command executed /u01/bea_12.2.1.4/oracle_common/common/bin/wlst.sh
/u01/otm653/wlst/webapp/CreateDomain.py

Initializing WebLogic Scripting Tool (WLST) ...
Welcome to WebLogic Server Administration Scripting Shell
Type help() for help on available commands
Exiting WebLogic Scripting Tool.
CreateDomain.py script completed: 0
```

Note - WebLogic will restart several times as other steps in the configuration process run.

Once the installation completes the command prompt will return.

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You can run the following command in the <OTM_INSTALL_DIR>/logs to do a quick check to see if the installation was successful.

grep "script completed:" web_app_python_exec.log

The following should be displayed.

```
CreateDomain.py script completed: 0
CreateOHS.py script completed: 0
MDSConfig.py script completed: 0
UserGroup.py script completed: 0
DomainConfig.py script completed: 0
Deploy.py script completed: 0
AuthenticatorAuthorizer.py script completed: 0
```

Note: You should also review the web_app_python_exec.log and the <OTM_INSTALL_DIR>/Logs/Oracle_Transportation_Management_v6.5.3_GA_Install_Log.log file for possible errors that may be missed by the automated checks built into the installer.

The install log will show some basic information about the installation method being used, basic environment information, summary of the install and any failures during the installation process.

Note - The following NonFatalErrors can be ignored per the information on this MOS note.

glog.util.install.GetHostName Error Generated While Installing 6.5.3 (Doc ID 2992082.1)

```
Summary
-------


Installation: Successful with errors.


37168 Successes
0 Warnings
1 NonFatalErrors
0 FatalErrors


The error reported is the following.


Custom Action:          glog.util.install.GetHostName
                        Status: ERROR
                        Additional Notes: ERROR -    class glog.util.install.GetHostName.install()
runtime exception:
```

Post-Install Setup

After installing OTM you need to download and install the Commons Net 3.6 library.

1. Go to http://commons.apache.org/proper/commons-net/

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2. Click on Download

3. Scroll down and look for Archive

4. Click on binaries

5. Scroll down and click on commons-net-3.6-bin.tar.gz

6. Save the file

7. Copy the file to the /tmp directory on the server where you installed OTM

8. Extract the contents of the commons-net-3.6-bin.tar.gz file in a /tmp directory

```
gunzip commons-net-3.6-bin.tar.gz
tar -xvf commons-net-3.6-bin.tar
```

9. Go into the commons-net-3.6 directory and copy the commons-net-3.6.jar file to the <otm_install_dir>/glog/gc3webapp.ear/APP-INF/lib/3rdparty directory.

Installation Problems

Not Enough Drive Space

If there is not enough space in the /tmp, the UNIX_USER_HOME, or the USER_INSTALL_DIR to complete the installation, the installer may fail part way through the installation process without generating an obvious error in the logs.

The first log to be created will be generated in the /tmp dir and have a filename similar to "7b4d2c815221a227f9.details". Do an "ls -ltr" in the tmp directory and look for the latest file ending with ".details" to check the beginning of the installation process if needed.

This file will be renamed to"Oracle_Transportation_Management_v6.5.x_GA_Install_Log.log" and copied to the USER_INSTALL_DIR, or the USER_INSTALL_DIR/Logs directory, later during the install process.

Password Requirements

If any of the passwords do not meet the required length or don't have a number the installer will stop the installation process immediately.

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```
Preparing to install...
Extracting the JRE from the installer archive...
Unpacking the JRE...
Extracting the installation resources from the installer archive...
Configuring the installer for this system's environment...

Launching installer...

Preparing SILENT Mode Installation...


========================================================================
Oracle Transportation Management v6.5.1 GA      (created with InstallAnywhere)
------------------------------------------------------------------------
```

Check in your users home directory for the Oracle_Transportation_Management_v6.5.x_GA_Install_Log.log. You will likely find an error similar to this at the end of the file.

FATAL ERROR - Please enter the valid password for MDS STB Schema account. A valid password is 1) At least 8 characters long 2) Contains at least one number or special character. {ExitCode: -106}

Update the password to the required length and character requirements and re-run the installer.

Rerunning the OTM 6.5.x Installer

If you encounter errors during the installation, you will need to do the following before running the OTM installer again.

1. Go to the <BEA_HOME>/oracle_common/bin directory and drop the repository by running the rcu command mentioned earlier and using the dropRepository option.

    ./rcu -silent -dropRepository -connectString
    <MDS_DB_FQDN>:<MDS_DB_PORT>:<MDS_DB_SERVICE_NAME> -dbUser sys -dbRole sysdba -
    skipTablespaceDrop Yes -schemaPrefix <MDS_PREFIX> -component MDS -component IAU -component
    IAU_APPEND -component IAU_VIEWER -component OPSS -component UCSUMS -component WLS -
    component STB

    You will be prompted for the database sys user password at runtime.

2. Then run the rcu command again and re-create a repository for the installation.

    ./rcu -silent -createRepository -databaseType ORACLE -connectString
    <MDS_DB_FQDN>:<MDS_DB_PORT>:<MDS_DB_SERVICE_NAME> -dbUser sys -dbRole sysdba -
    schemaPrefix <MDS_PREFIX> -component MDS -component IAU -component IAU_APPEND -component
    IAU_VIEWER -component OPSS -component UCSUMS -component WLS -component STB

    You will be prompted for the database sys user password at runtime.

3. Kill any remaining Java process running like nodeManager, which were started during the installation. The following command can be used to check for running processes.

    ps -ef | grep java | grep NodeManager

    otm653   19312 19263 0 Nov10 ?   00:40:45 /u01/otm653/jdk/bin/java -server -Xms32m -Xmx200m -
    Djdk.tls.ephemeralDHKeySize=2048 -
    Dcoherence.home=/u01/bea_12.2.1.4/Middleware/infra/wlserver/../coherence -

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Dbea.home=/u01/bea_12.2.1.4/Middleware/infra/wlserver/.. -
Dohs.product.home=/u01/bea_12.2.1.4/Middleware/infra/ohs -DListenAddress=localhost -
DNodeManagerHome=/u01/bea_12.2.1.4/Middleware/infra/user_projects/domains/otm653/nodemanager -
DQuitEnabled=true -DListenPort=5556 -
Dweblogic.RootDirectory=/u01/bea_12.2.1.4/Middleware/infra/user_projects/domains/otm653 -
Doracle.security.jps.config=/u01/bea_12.2.1.4/Middleware/infra/user_projects/domains/otm653/config/fmwco
nfig/jps-config-jse.xml -Dcommon.components.home=/u01/bea_12.2.1.4/Middleware/infra/oracle_common -
Dopss.version=12.2.1.3 -
Dweblogic.RootDirectory=/u01/bea_12.2.1.4/Middleware/infra/user_projects/domains/otm653 -
Djava.system.class.loader=com.oracle.classloader.weblogic.LaunchClassLoader -
Djava.security.policy=/u01/bea_12.2.1.4/Middleware/infra/wlserver/server/lib/weblogic.policy -
Dweblogic.nodemanager.JavaHome=/u01/otm653/jdk weblogic.NodeManager –v

Use the kill -9 command to stop any processes started during the install.

kill -9 <processID1> <ProcessID2>
kill -9 19312 19263

4. Go to the < BEA_HOME >/user_projects/domains dir and delete the domain you created for the installation.
5. Delete the contents of the <OTM_INSTALL_DIR> directory
6. Go to the user's home directory that is doing the installation and edit the .bashrc file. Remove the reference for the OTM installation or comment it out by adding a # in front of the command line calling gc3env.sh.
7. Re-run the OTM installer

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