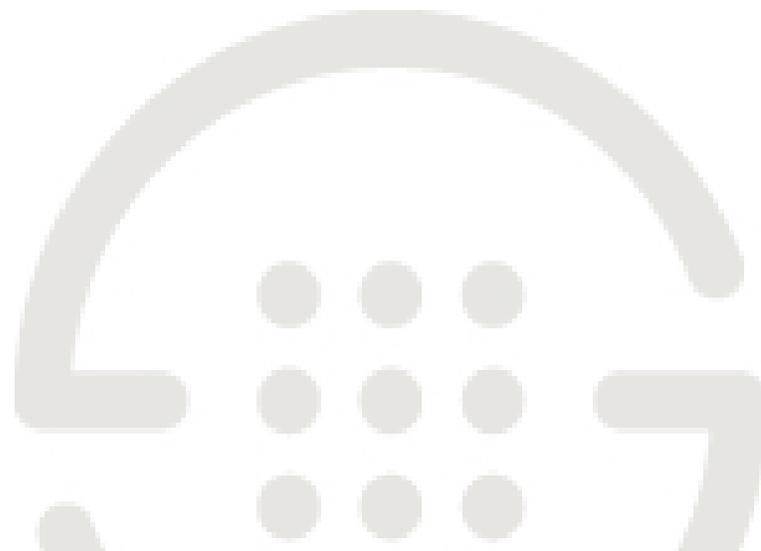




Installing or Upgrading and Configuring Oracle 12c R1 (12.1.0.2) on Windows for Use with the ETM[®] System

v7.1.1 Build 41 or Later



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Contents

Installing the Oracle 12c R1 (12.1.0.2) Software	3
Installing and Configuring Oracle 12c R1 (12.1.0.2) for the ETM [®] System v7.1.1	
Build 41 or Later	3
Installing Oracle 12c Enterprise Edition	3
Verifying ActivePerl is in Your System PATH	16
Running the Oracle Database Configuration Script	17
Sample output of running oracle_install.pl	17
Configure the TNS Listener	25
Copy the Database Driver to Required Locations	25
Edit Configuration Files	25
ETM Server Configuration File	26
Report Server Configuration File	26
Database Maintenance Tool Configuration File	27
Where to Go From Here	27
Install the Oracle Client	27
Installing the Oracle Client Tools	28
Edit the tnsnames.ora File	35
Connect with the ETM [®] Database Maintenance Tool	36



Installing the Oracle 12c R1 (12.1.0.2) Software

Installing and Configuring Oracle 12c R1 (12.1.0.2) for the ETM[®] System v7.1.1 Build 41 or Later

This document explains how to install the Oracle 12c R1 (12.1.0.2) software on Windows and then run the Perl scripts to prepare the database for use with the ETM[®] System. Enterprise Edition, Standard Edition, and Standard Edition One are supported. XE is not supported. This document describes Enterprise Edition installation. Minor variations may occur when installing other editions. To use these instructions, you must have ETM System v7.1.1 Build 41 or later installed.

IMPORTANT: This document applies to Oracle 12.1.0.2 ONLY.

Note: If you are upgrading an existing ETM System v7.1.1 Database installation from 11g to 12.1.0.2, refer to “[Updating the ETM[®] System v7.1.1 Build 41 or Later Database When Upgrading from Oracle 11g to 12c R1 \(12.1.0.2\)](#)” in the SecureLogix Knowledge Base instead.

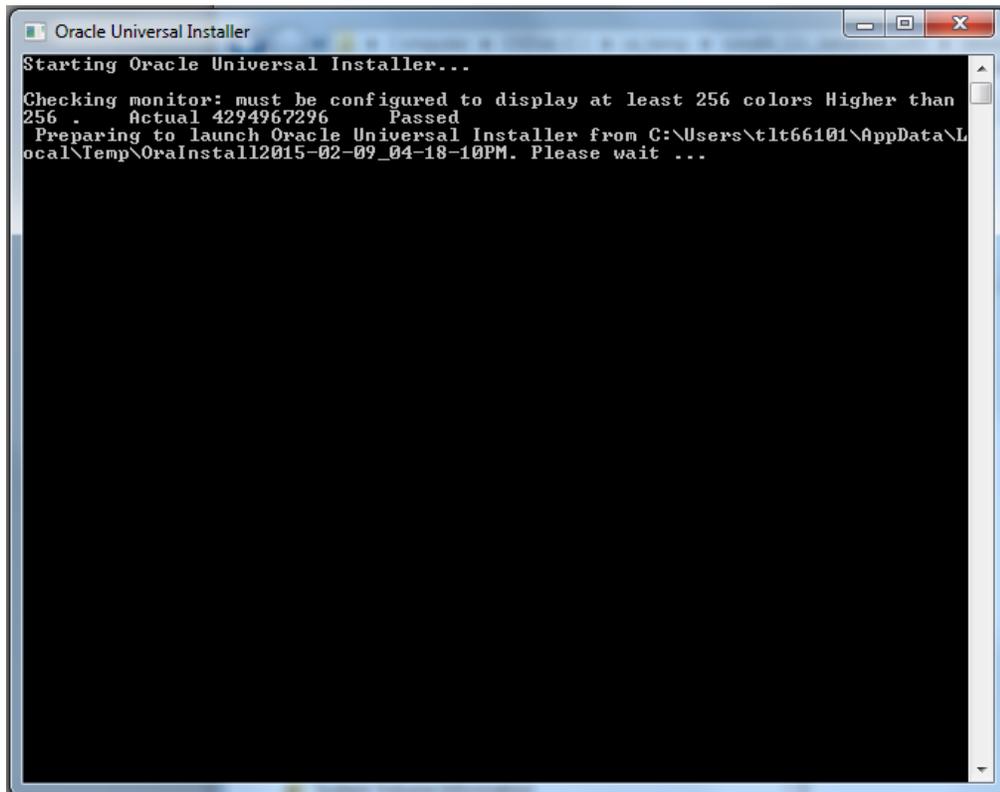
NOTES::

- Ensure that no Windows Scheduler jobs run while you are running the Oracle Universal Installer or you may encounter installation problems, particularly if temporary files used in the installation are cleaned up before it completes.
- Do not install Oracle Database 12c software into an existing Oracle home.

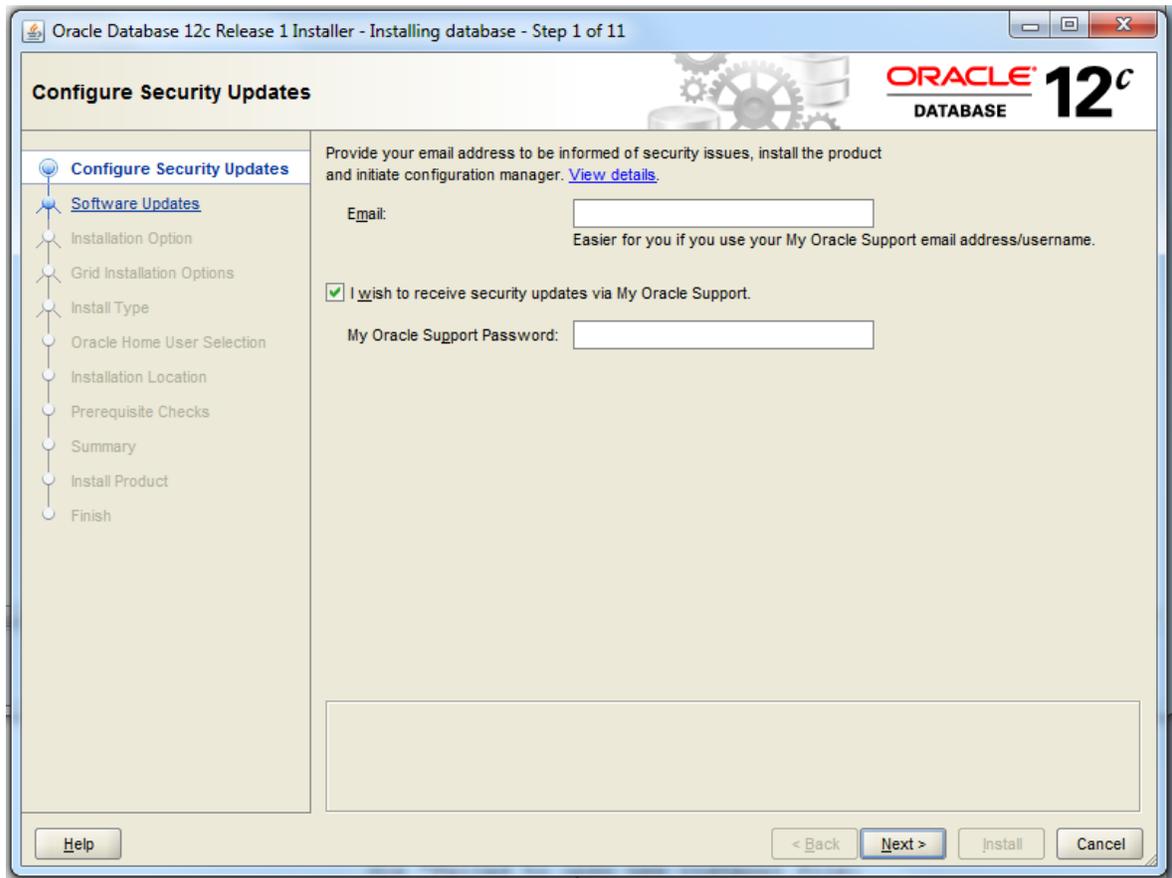
Installing Oracle 12c Enterprise Edition

To install the software

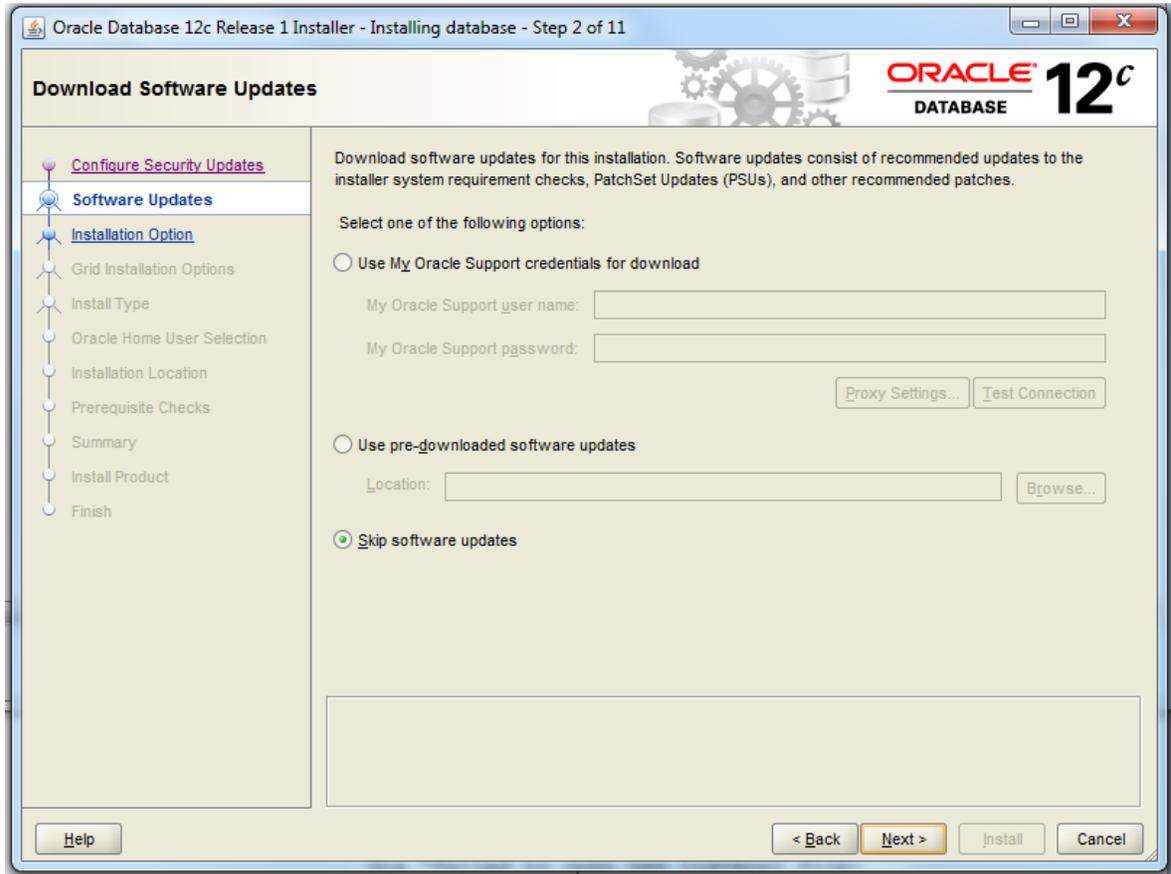
1. Execute **setup.exe** as Administrator to start the Oracle 12c Universal Installer:



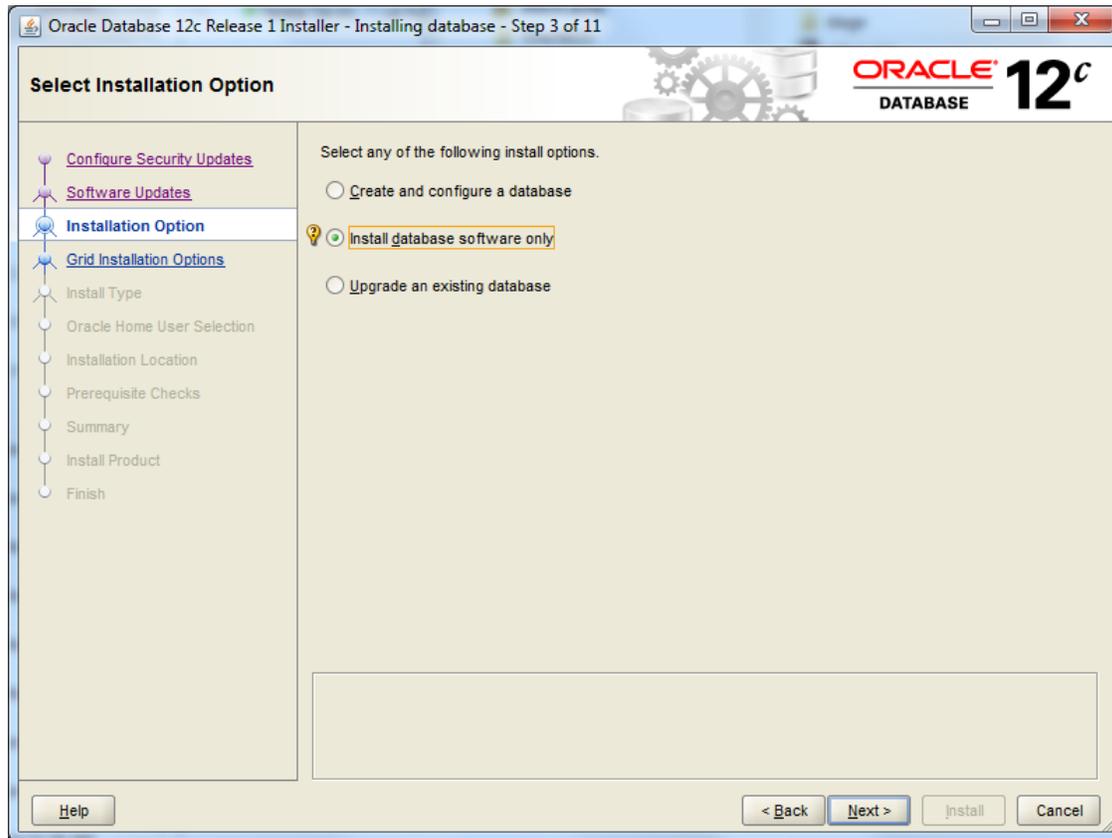
2. The **Configure Security Updates** dialog box appears.



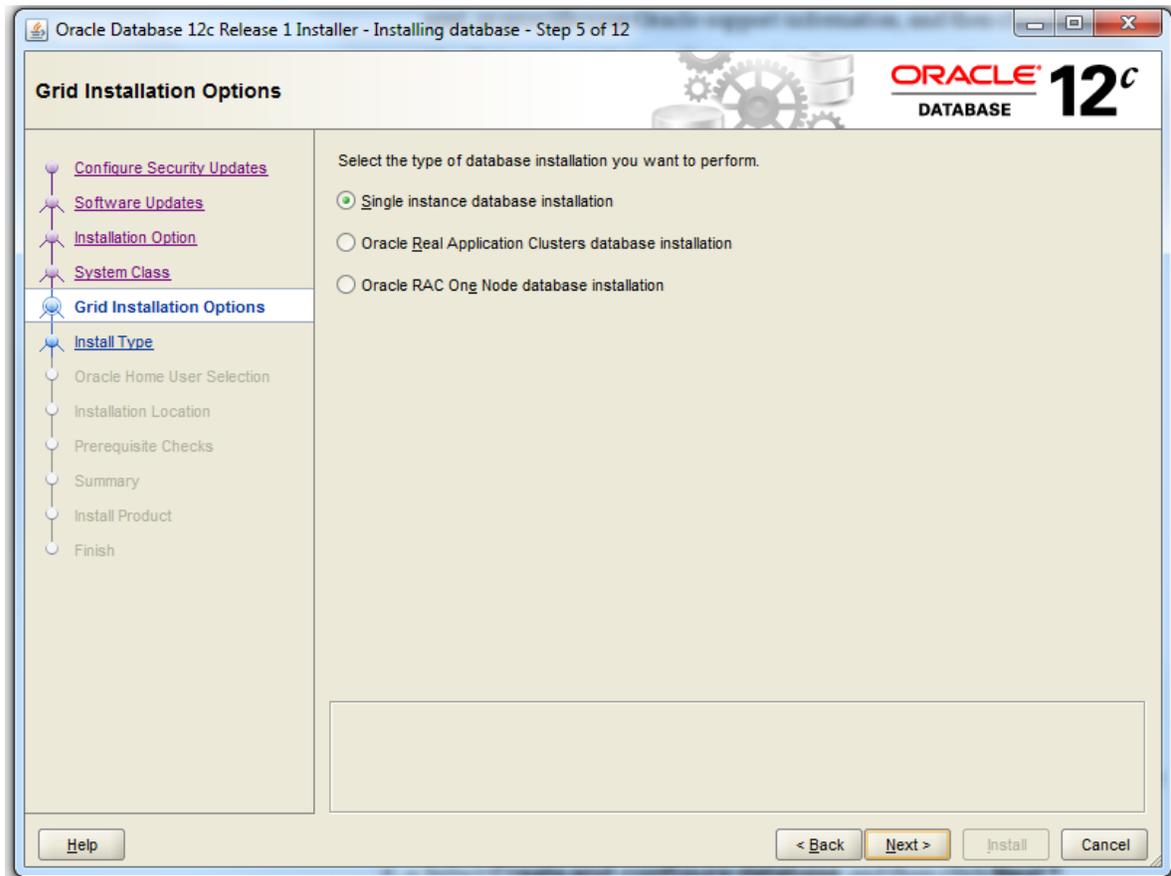
3. Optionally, type the email address to which security updates are to be sent, or provide your Oracle support information, and then click **Next**.
4. The **Download Software Updates** dialog box appears. Select an option and then click **Next**.



The **Select Installation Option** dialog box appears.

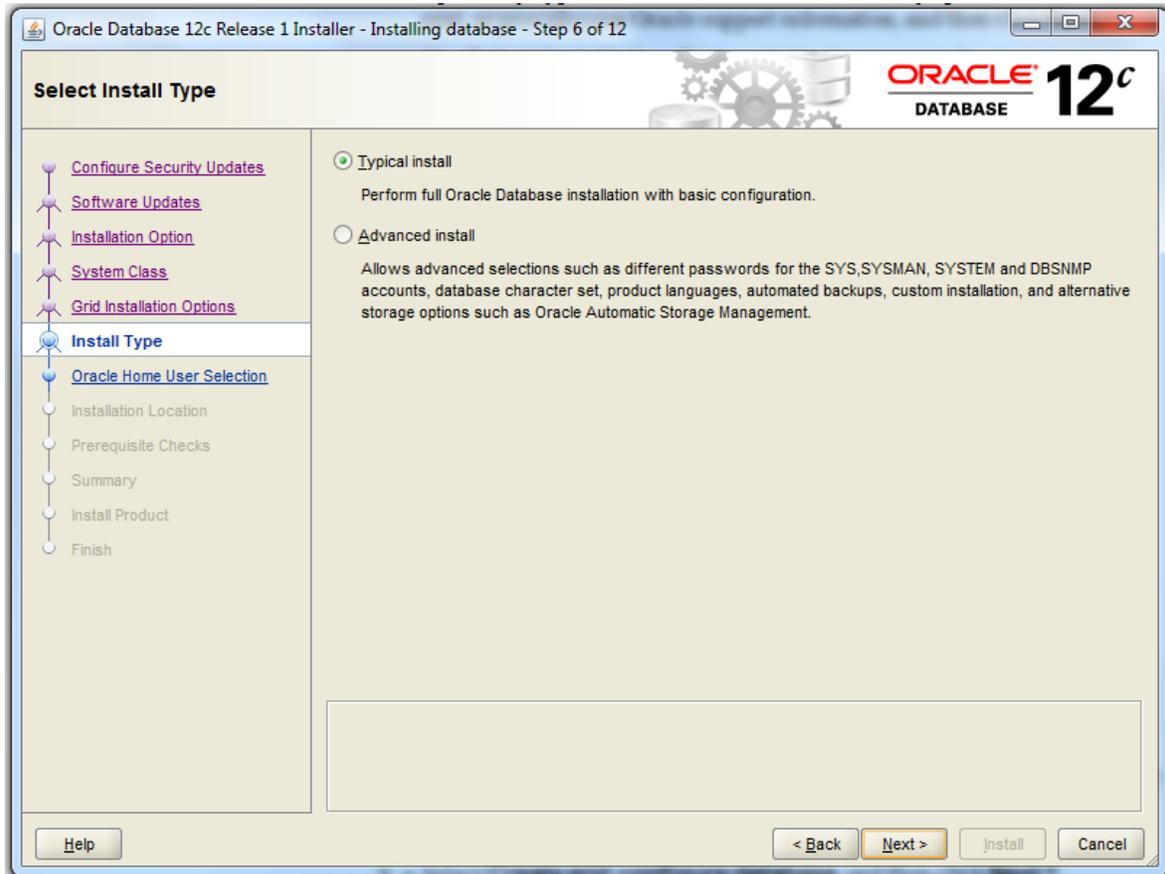


5. Select **Install database software only** and then click **Next**.
The **System Class** dialog box appears.

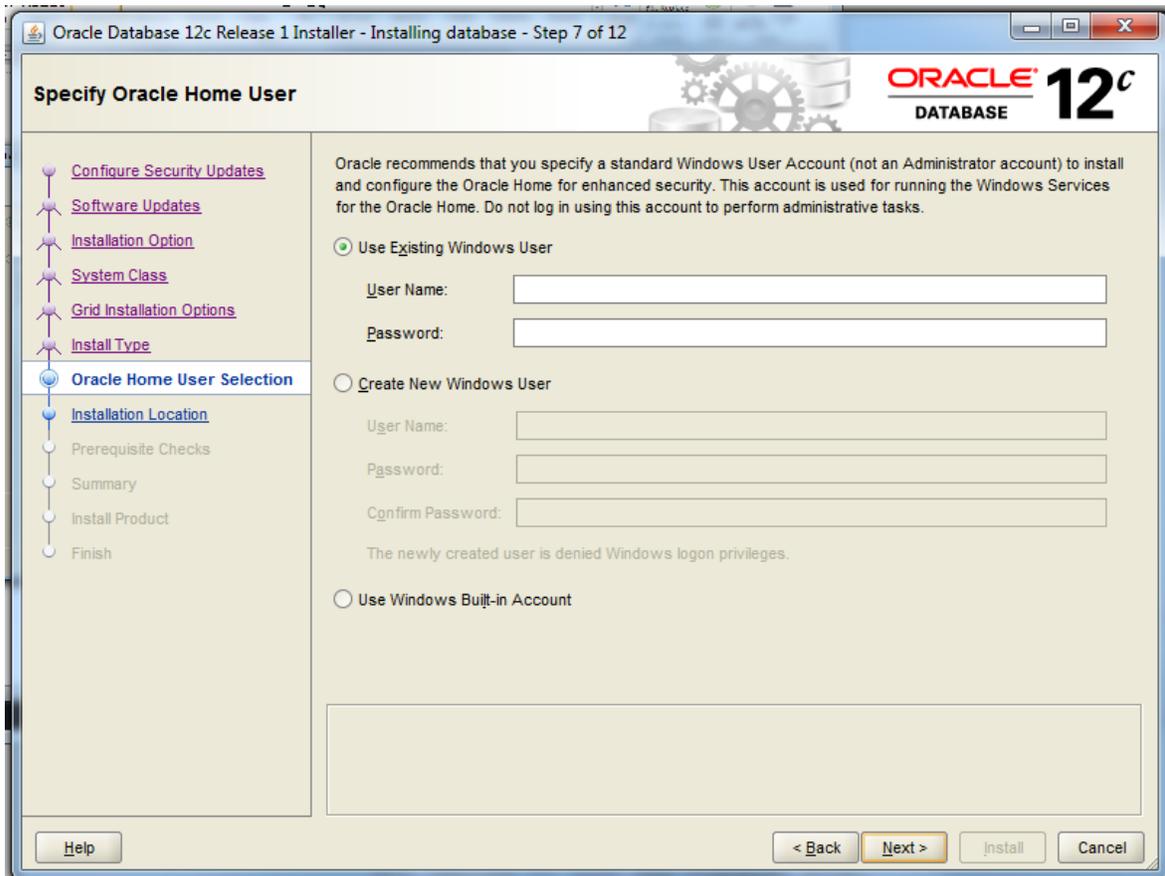


8. Select **Single instance database installation** and then click **Next**.
9. If you are prompted to set a language option, leave the default of English and click **Next**.

The **Select Install Type** dialog box appears.

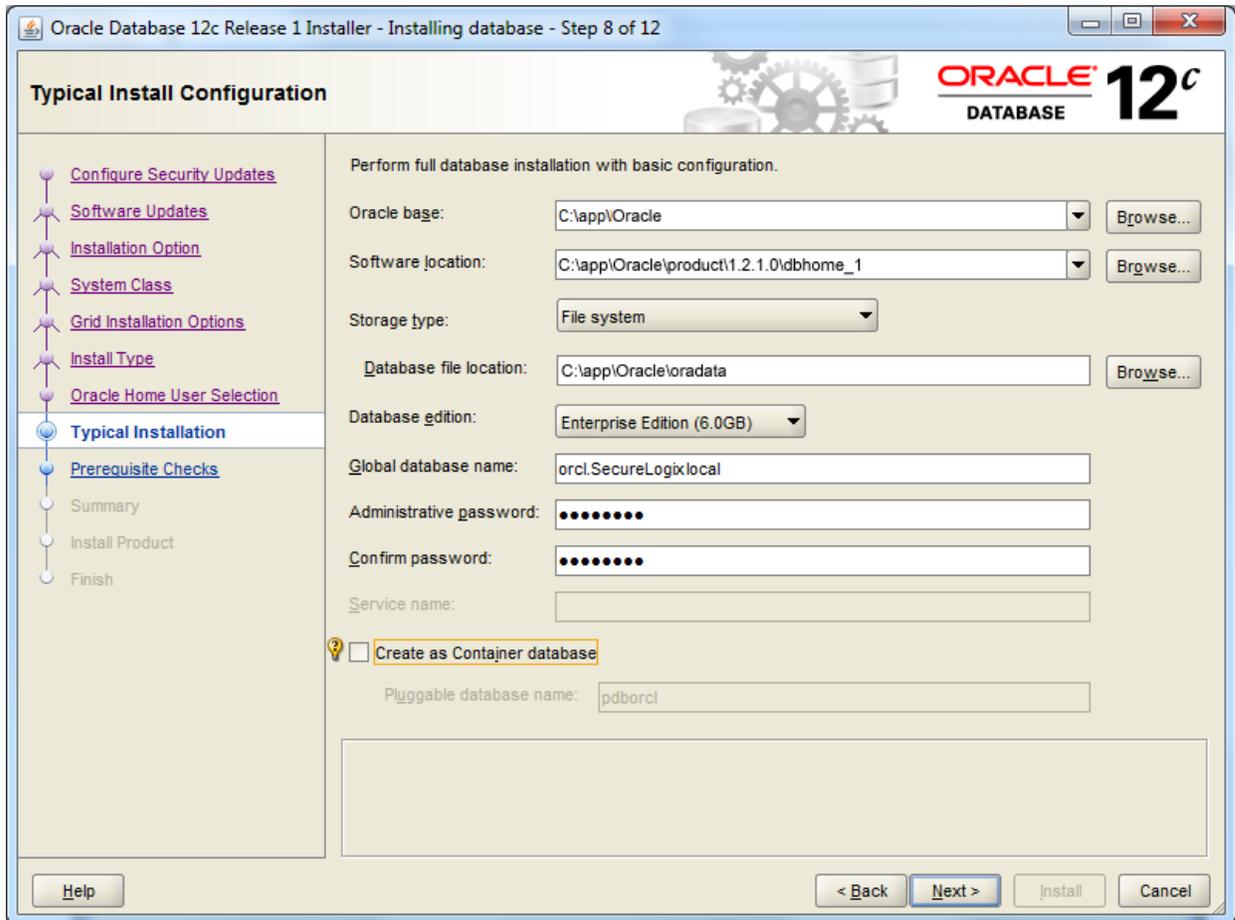


10. Select **Typical Install** and then click **Next**. The **Specify Oracle Home User** dialog box appears.



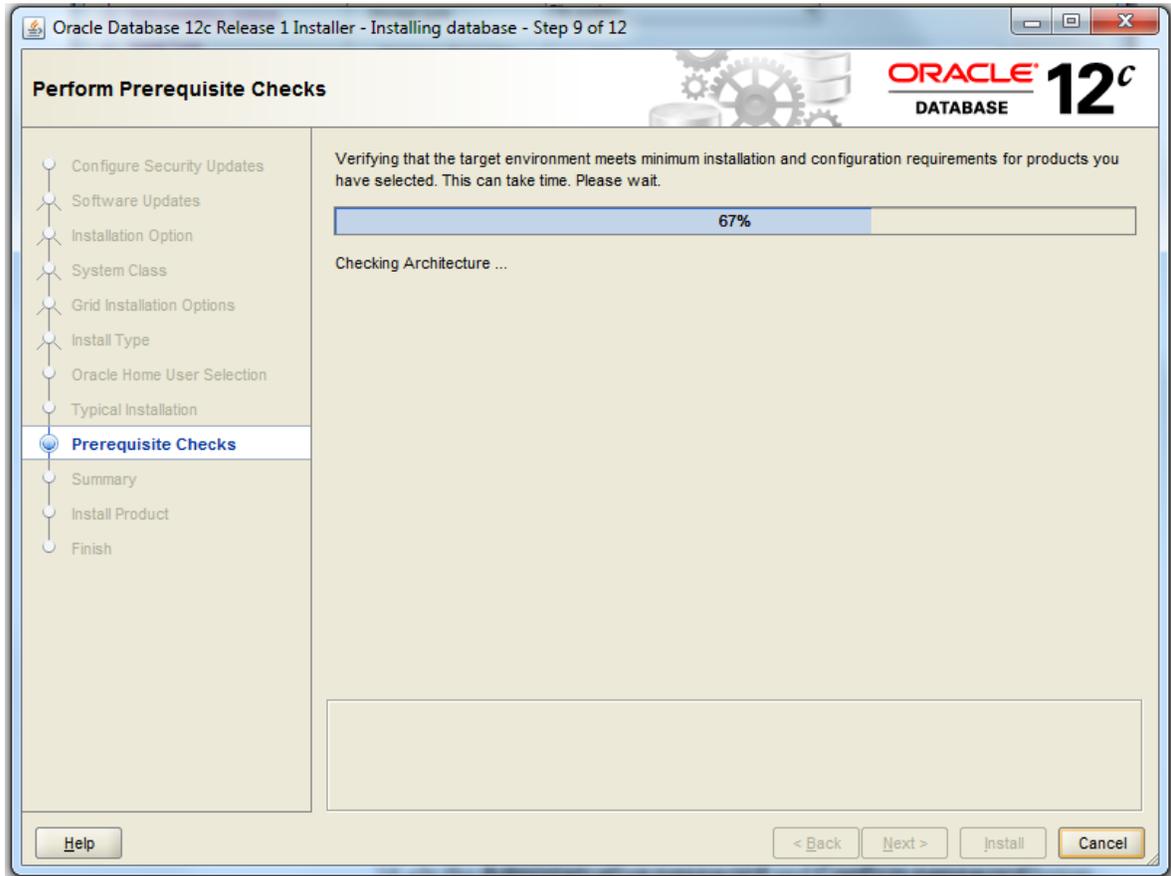
11. Select the Windows user account you want to use and specify the username and password if required, and then click **Next**.

The **Typical Install Configuration** dialog box appears.

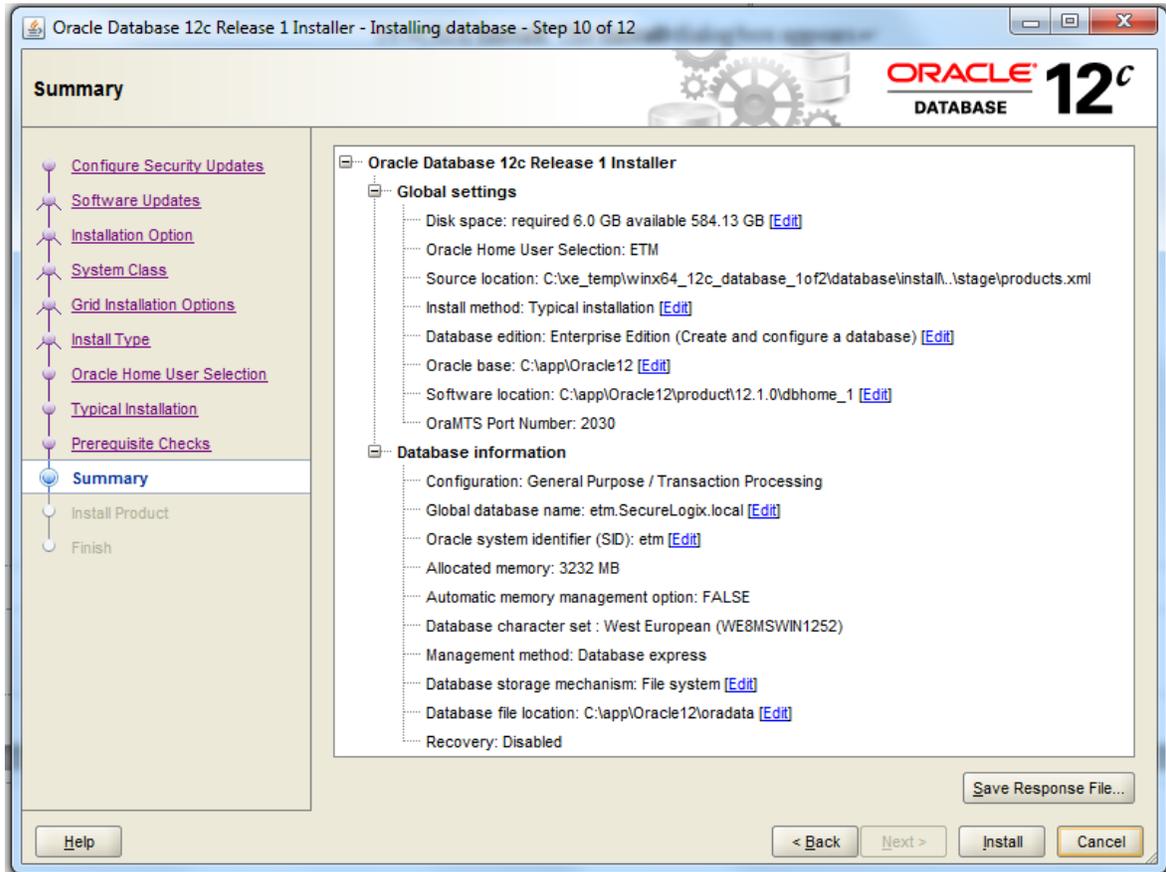


Note: Personal Edition is not supported with the ETM System.

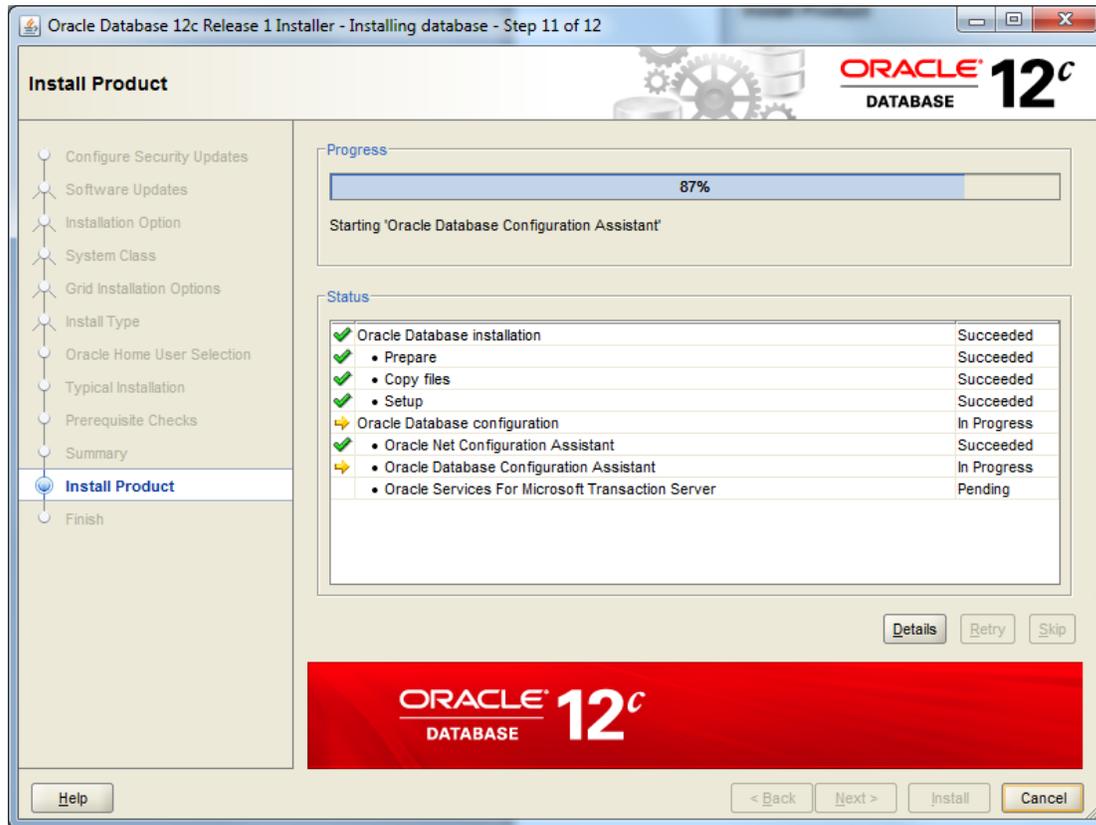
12. Verify the paths and make any needed changes.
13. Storage type defaults to **File System**. If you are using Oracle Automated Storage Management (ASM) click the down arrow and select it.
14. Next to **Database edition**, click the down arrow and select the applicable edition—**Enterprise**, **Standard**, or **Standard One**. These instructions describe Enterprise Edition installation. Minor variations to the screens may occur if you are using a different edition.
15. In the **Administrative password** and **Confirm password** boxes, type the password.
16. Clear the **Create as Container database** check box and then click **Next**. The **Product-Specific Prerequisite Checks** dialog box appears.



17. The **Summary** dialog box appears reflecting the settings you chose.

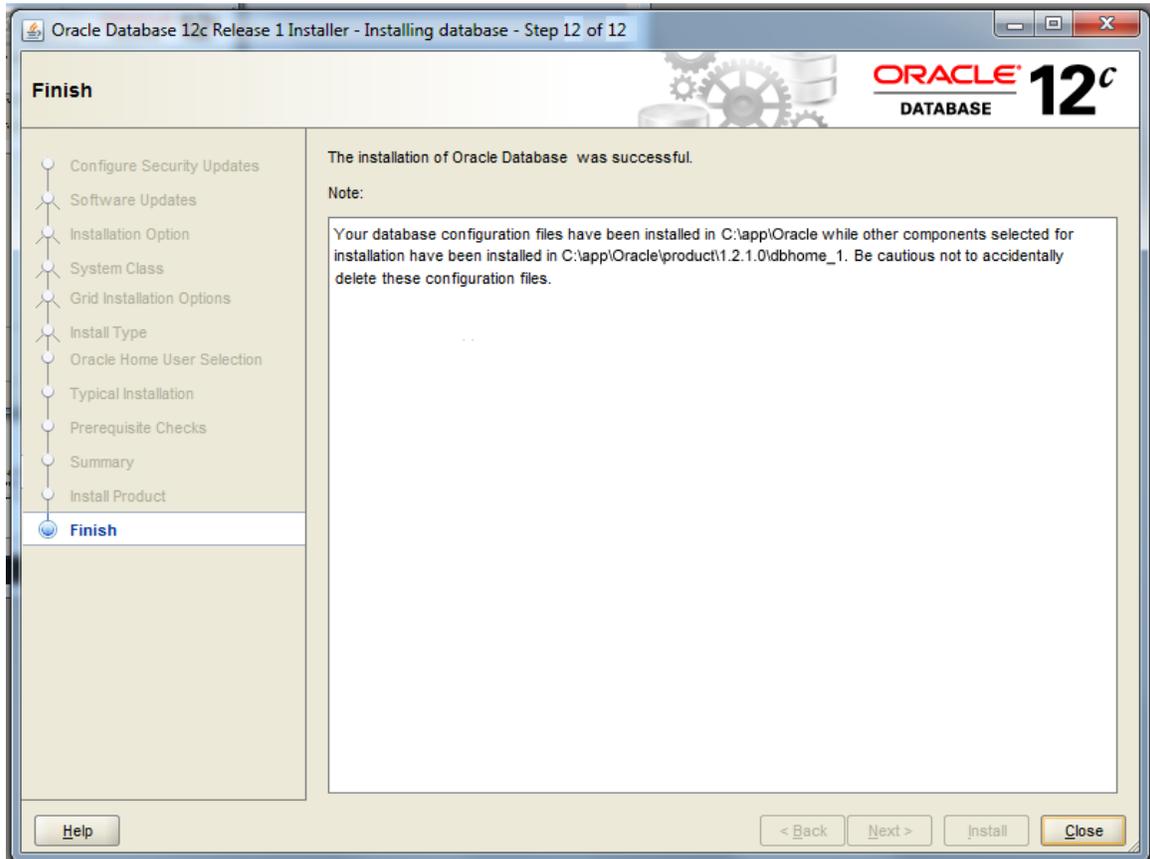


18. Click **Install**. The **Install Product** dialog box appears.



19. When installation is complete, click **Next**.

The **Finish** dialog box appears.



20. Make note of the paths shown and then click **Close**.

Verifying ActivePerl is in Your System PATH

Active Perl is used to run the database creation and configuration scripts. Oracle 12c (Enterprise and Standard) includes a version of ActivePerl with the installation.

IMPORTANT Be sure that the ActivePerl "bin" directory is in your system PATH variable.

Running the Oracle Database Configuration Script

Ensure you use **Run as Administrator** to run the script.

To run the database creation and configuration script

1. Open a command prompt as Administrator in the ETM scripts directory: **<INSTALL_DIR>\scripts\Oracle**.
2. At the prompt, type: **oracle_install.pl**
3. Follow the onscreen prompts.
 - Some prompts provide default values that you can accept by pressing ENTER. These are denoted by square brackets.
 - Example input is denoted by parentheses. You must type a value for these items; no default values are provided.

Sample output of running oracle_install.pl

```
C:\Program Files\SecureLogix\ETM\scripts\Oracle> perl
oracle_install.pl
```

```
Please enter your OS Type (DOS/UNIX) [DOS]:
Please enter your Domain Name (securelogix.com): securelogix.com
securelogix.com - Is this correct? (y/n) [n]: y
Please enter your Host Address [10.1.25.149]:
10.1.25.149 - Is this correct? (y/n) [n]: y
Please Enter the value for ORACLE_BASE (C:\app\oracle\): c:\app\
oracle\
Are you sure you want to set ORACLE_BASE to c:\app\oracle\? (y/n): y
Please Specify the Oracle version. (11 or 12): 12
Found directory c:\app\oracle\product\12.1.0\dbhome_1\
Set ORACLE_HOME to: 'c:\app\oracle\product\12.1.0\dbhome_1\'? (y/n)
[y]:
Set ORACLE_DATA to: 'c:\app\oracle\oradata\'? (y/n) [y]:
Please Enter the value for ORACLE SID: ETMDB
```

```
ETMDB - Is this correct? (y/n) [Y]:
Please enter the listener port for Oracle [1521]:
1521 - Is this correct? (y/n) [y]:
Creating Data Directories for SID: ETMDB
Attempting to create directory: c:\app\oracle\admin\ETMDB\
...Success.
Attempting to create directory: c:\app\oracle\admin\ETMDB\adhoc\
...Success.
Attempting to create directory: c:\app\oracle\admin\ETMDB\arch\
...Success.
Attempting to create directory: c:\app\oracle\admin\ETMDB\bdump\
...Success.
Attempting to create directory: c:\app\oracle\admin\ETMDB\cdump\
...Success.
Attempting to create directory: c:\app\oracle\admin\ETMDB\create\
...Success.
Attempting to create directory: c:\app\oracle\admin\ETMDB\exp\
...Success.
Attempting to create directory: c:\app\oracle\admin\ETMDB\pfile\
...Success.
Attempting to create directory: c:\app\oracle\admin\ETMDB\udump\
...Success.
Attempting to create directory: c:\app\oracle\oradata\ETMDB\
...Success.
Would you like the script to create the orapwd file? (y/n) [y]:
Would you like the script to modify the listener.ora file? (y/n)
[y]:
Would you like the script to modify the tnsnames.ora file? (y/n)
[y]:
Would you like to create the init.ora file for this database? (y/n)
[y]:
Would you like the script to create the Database Service for
Windows? (y/n) [y]:

Enter password for Oracle service user:
Instance created.
Would you like to generate the Oracle scripts to generate the
database? (y/n) [y]:
```

Please enter the preferred Tablespace name [ETM]:
Please enter the ETM User name [etmuser]:
Please specify the password for the ETM User: <password>
Please re-enter the password for the ETM User: <password>
Would you like to generate the Oracle scripts to generate a non-owner ETM application user? (y/n) [n]:
Create Database Sql script written to:
c:\app\oracle\admin\ETMDB\create\create_db_ETMDB.sql
These scripts contain the details of how the database will be created. If you would like to configure the tablespaces, redo files, rollback segments, or other parameters, please modify this file before running it.
Would you like to run the Oracle scripts to generate the database? (y/n) [y]:
Please enter the password for database user 'sys' [change_on_install]: <password>
c:\app\oracle\product\12.1.0\dbhome_1\bin\sqlplus "sys/<password> AS SYSDBA" @c:\app\oracle\admin\ETMDB\create\create_db_ETMDB.sql

SQL*Plus: Release 12.1.0.1.0 Production on Mon Feb 9 14:29:18 2015

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Connected to an idle instance.

SQL>

SQL> REM * Actually starts the database instance

SQL> startup nomount

pfile="c:\app\oracle\admin\ETMDB\pfile\init.ora"

ORACLE instance started.

Total System Global Area 534462464 bytes

Fixed Size 2404704 bytes

Variable Size 176164512 bytes

Database Buffers 348127232 bytes

Redo Buffers 7766016 bytes

SQL>

SQL> REM * Creates the physical database. Feel free to customize the redo logs here.

SQL> CREATE DATABASE ETMDB

2 MAXLOGFILES 32

3 MAXLOGMEMBERS 2

4 MAXLOGHISTORY 1

5 MAXDATAFILES 254

6 MAXINSTANCES 1

7 MAXLOGHISTORY 5000

8 DATAFILE 'c:\app\oracle\oradata\ETMDB\system01.dbf' SIZE 150M
REUSE AUTOEXTEND

ON NEXT 10240K MAXSIZE UNLIMITED

9 EXTENT MANAGEMENT LOCAL

10 SYSAUX DATAFILE 'c:\app\oracle\oradata\ETMDB\sysaux01.dbf' SIZE
120M REUSE AUT

OEXTEND ON NEXT 10240K MAXSIZE UNLIMITED

11 SMALLFILE DEFAULT TEMPORARY TABLESPACE TEMP TEMPFILE
'c:\app\oracle\oradata\ET

MDB\temp01.dbf' SIZE 500M REUSE AUTOEXTEND ON

12 SMALLFILE UNDO TABLESPACE "UNDOTBS1" DATAFILE
'c:\app\oracle\oradata\ETMDB\undotbs01.dbf' SIZE 500M REUSE
AUTOEXTEND ON

13 LOGFILE 'c:\app\oracle\oradata\ETMDB\redo01.log' SIZE 10M,

14 'c:\app\oracle\oradata\ETMDB\redo02.log' SIZE 10M,

15 'c:\app\oracle\oradata\ETMDB\redo03.log' SIZE 10M;

Database created.

SQL>

SQL> CREATE TABLESPACE "ETM" LOGGING

2 DATAFILE 'c:\app\oracle\oradata\ETMDB\ETM01.dbf' SIZE 100M

3 AUTOEXTEND ON NEXT 10M

```
4     EXTENT MANAGEMENT LOCAL;
```

Tablespace created.

```
SQL>
```

```
SQL> REM * Create the default user for use with the system.
```

```
SQL> CREATE USER etmuser PROFILE "DEFAULT" IDENTIFIED BY "etmuser"
```

```
2     DEFAULT
```

```
3     TABLESPACE "ETM" TEMPORARY
```

```
4     TABLESPACE "TEMP" ACCOUNT UNLOCK;
```

User created.

```
SQL>
```

```
SQL> REM * Explicitly grant the required system privileges. We explicitly grant
```

```
SQL> REM * the privileges as opposed to granting them via roles due to the fact
```

```
SQL> REM * that when running jobs via DBMS_JOB.RUN() roles are ignored. Since
```

```
SQL> REM * we use DBMS_JOB to run various maintenance procedures, we go ahead
```

```
SQL> REM * and explicitly grant the privileges to cover all our bases. (For more
```

```
SQL> REM * information refer to the Oracle Database documentation sets for the
```

```
SQL> REM * corresponding Oracle version regarding the DBMS_JOB package).
```

```
SQL> GRANT ALTER SESSION TO etmuser;
```

Grant succeeded.

```
SQL> GRANT CREATE PROCEDURE TO etmuser;
```

Grant succeeded.

```
SQL> GRANT CREATE SEQUENCE TO etmuser;
```

Grant succeeded.

```
SQL> GRANT CREATE SESSION TO etmuser;
```

Grant succeeded.

```
SQL> GRANT CREATE MATERIALIZED VIEW TO etmuser;
```

Grant succeeded.

```
SQL> GRANT CREATE TABLE TO etmuser;
```

Grant succeeded.

```
SQL> GRANT CREATE TRIGGER TO etmuser;
```

Grant succeeded.

```
SQL> GRANT CREATE VIEW TO etmuser;
```

Grant succeeded.

```
SQL> GRANT CREATE ANY SYNONYM TO etmuser;
```

Grant succeeded.

```
SQL> GRANT DROP ANY SYNONYM TO etmuser;
```

Grant succeeded.

```
SQL> GRANT SELECT ANY DICTIONARY TO etmuser;
```

Grant succeeded.

```
SQL>
```

```
SQL> REM * By default, just grant the user unlimited use of the  
tablespaces.
```

```
SQL> REM * DBAs may optionally revoke this grant and set up specific  
quotas
```

```
SQL> REM * for the various tablespaces.
```

```
SQL> GRANT UNLIMITED TABLESPACE TO etmuser;
```

Grant succeeded.

SQL>

SQL>

SQL>

SQL> spool off

SQL> EXIT

Disconnected from Oracle Database 12c Release 12.1.0.1.0 - 64bit
Production

Database creation script executed. Verify output and press 'y' to
continue (y/n) [y]:

Would you like to generate the initialization script that needs to
be run by sys? (y/n) [y]:

Sys Init Sql script written to:

c:\app\oracle\admin\ETMDB\create\sys_init_ETMDB.sql

Would you like to run the 'sys db init' scripts to initialize the
database? (y/n) [y]:

Depending on the system, this script may require up to 30 minutes to
complete.

Please be patient. To verify script is running, you can check the
log file at:

c:\app\oracle\admin\ETMDB\create\sys_init_ETMDB.log and make sure
data is being written to file.

c:\app\oracle\product\12.1.0\dbhome_1\bin\sqlplus "sys/<password>
AS SYSDBA" @c:\app\oracle\admin\ETMDB\create\sys_init_ETMDB.sql >
NUL

Sys Init Sql script executed. Check sys_init_ETMDB.log to verify
status

Would you like to generate the initialization script that needs to
be run by system? (y/n) [y]:

System Init Sql script written to:

c:\app\oracle\admin\ETMDB\create\system_init_ETMDB.sql

Would you like to run the 'system db init' scripts to initialize the
database? (y/n) [y]:

```
Please enter the password for database user 'system' [manager]:
<password>

c:\app\oracle\product\12.1.0\dbhome_1\bin\sqlplus "system/PWD123 "
@c:\app\oracle\admin\ETMDB\create\system_init_ETMDB.sql > NUL

System Init Sql script executed.  Check system_init_etm10g.log to
verify status

Would you like the script to update the Database Service to restart
automatically? (y/n) [y]:

End of SecureLogix Corporation's DB Creation Utility
```

Configure the TNS Listener

A listener with a default name of LISTENER is created when you install the Oracle software, but it must be started or restarted to update it with the configuration for the ETM Database.

To configure the TNS Listener

1. Open a command prompt as Administrator.
2. Type: `lsnrctl status`
3. If a message similar to the following appears, the listener is not running.

```
Connecting to (ADDRESS=(PROTOCOL=TCP) (HOST=127.0.0.1) (PORT=1521))
TNS-12541: TNS: no listener
TNS-12560: TNS: protocol adapter error
TNS-00511: No listener
64-bit Windows Error: 61: Unknown error
```

4. If the listener is not running, type: `lsnrctl start`
5. If the listener is running, stop it by typing: `lsnrctl stop`
6. When it stops, restart it by typing: `lsnrctl start`
7. When it restarts, output should appear showing that it is listening for the ETM instance.

Copy the Database Driver to Required Locations

After installing and configuring the database, copy the database driver, **ojdbc6.jar**, from **<ORACLE_HOME>\jdbc\lib** in your Oracle 12c database installation to each of the following ETM System installation directories:

- The ETM Server.
- Any remote Report Server.
- Any remote ETM Database Maintenance Tool.

Remote ETM System Clients do not require the driver file.

IMPORTANT: This is necessary even if an existing driver from an earlier version and the new driver have the same name.

Edit Configuration Files

Due to changes in the Oracle 12c driver, configuration files for the ETM Server, Report Server, and ETM Database Maintenance Tool must be edited to enable the ETM System to connect to the database.

ETM Server Configuration File

To edit the ETM Server configuration file

1. On the ETM Server host, open the file **ETMManagementService.cfg** in a text editor. This file is at the root of the ETM Management Server installation directory.
2. Locate the line labeled :

```
# Java switches to supply to the Java Virtual Machine.
```

3. At the end of the line, append the following switch:

```
-Doracle.jdbc.autoCommitSpecCompliant=false
```

4. The new line should look like the following:

```
switches=-Xmx512M -Djava.rmi.server.useLocalHostName=true -  
Dsun.java2d.noddraw=true -Doracle.jdbc.autoCommitSpecCompliant=false
```

5. Save the file.

Report Server Configuration File

To edit the Report Server configuration file

1. On the Report Server host, open the file **ETMReportService.cfg** in a text editor. This file is at the root of the ETM System installation directory.
2. Locate the line labeled:

```
# The switches to use when creating the java environment that will run the  
# ServerActivator.
```

3. At the end of the line, append the following switch:

```
-Doracle.jdbc.autoCommitSpecCompliant=false
```

4. The new line should look like the following::

```
App_Switches=-Djava.security.policy=policy -Dsun.java2d.noddraw=true -  
Doracle.jdbc.autoCommitSpecCompliant=false
```

5. Locate the line labeled:

```
# The switches to use when launching the rmid executable
```

6. At the end of the line, append the following switch:

```
-Doracle.jdbc.autoCommitSpecCompliant=false
```

7. The new line should look like the following::

```
RMID_Switches=-J-Xrs -J-Djava.rmi.server.useLocalHostName=true -J-  
Djava.security.policy=policy -J-Dsun.java2d.noddraw=true -J-  
Djava.rmi.server.logCalls=true -C-server -C-Xmx512M -C-  
Djava.rmi.server.useLocalHostName=true -C-Djava.security.policy=policy  
-C-Dsun.java2d.noddraw=true -C-  
Djava.class.path=".;.;activation.jar;comm.jar;jakarta-oro-  
2.0.jar;log4j-
```

```
1.2.8.jar;mail.jar;ojdbc6.jar;ojdbc14.jar;report11_pro.jar;report12_pro
.jar;slc-crypt.jar;TeleWall.jar" -C-
Doracle.jdbc.autoCommitSpecCompliant=false
```

8. Save the file.

Database Maintenance Tool Configuration File

To edit the Database Maintenance Tool configuration file

1. On the Database Maintenance Tool host, open the file **ETMDBMaintTool.cfg** in a text editor. This file is at the root of the ETM System installation directory.
2. Locate the line labeled:

```
# Java switches to supply to the Java Virtual Machine.
```

1. At the end of the line, append the following switch:

```
-Doracle.jdbc.autoCommitSpecCompliant=false
```

The new line should look like the following:

```
switches=-client -Xmx200M -Dsun.java2d.noddraw=true
-Doracle.jdbc.autoCommitSpecCompliant=false
```

2. Save the file.

Where to Go From Here

The Oracle 12c Enterprise Edition database is now installed, running, and configured with the ETM System user and necessary permissions and privileges. If the ETM Management Server is installed on a different computer from the database, see "Install the Oracle Client" below. If the ETM Server is on the same computer as the database, continue with "Connect with the ETM[®] Database Maintenance Tool" on page 36.

See the *ETM[®] System Installation Guide* for complete ETM Software installation and configuration instructions.

Install the Oracle Client

If the ETM[®] Management Server is installed on the same computer as Oracle, you do not need to install the Oracle Client separately, since they are installed as part of the database software. Continue with the next topic. However, if the ETM Management Server is installed on a different computer from the database, you need to install the Oracle Client on the computer on which the ETM Management Server is installed. The Client is used for CCMI and Directory imports.

Notes:

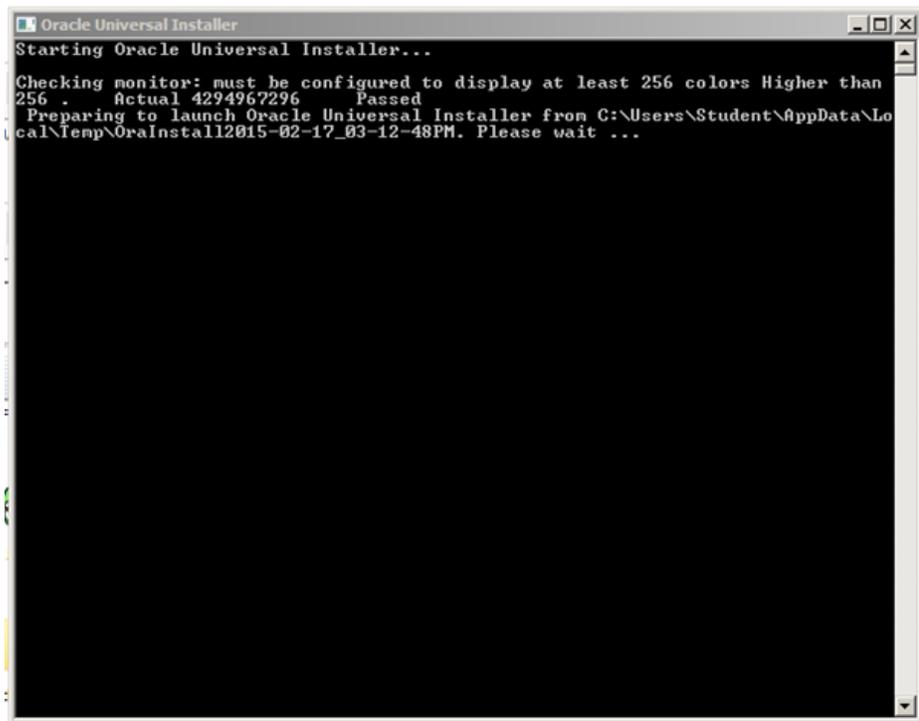
- Ensure you log on as a member of the Administrators group to install the software and use **Run as Administrator**.
- Oracle Database Client 12c Release 1 (12.1) cannot share Oracle base with Oracle homes from earlier database versions, such as Oracle Database 11g Release 2 (11.2) and earlier.

- The Oracle Database Client software is available on installation media or you can download it from the Oracle Technology Network (OTN) website, or Oracle Software Delivery Cloud Web site.

Installing the Oracle Client Tools

To install the Oracle Client Tools

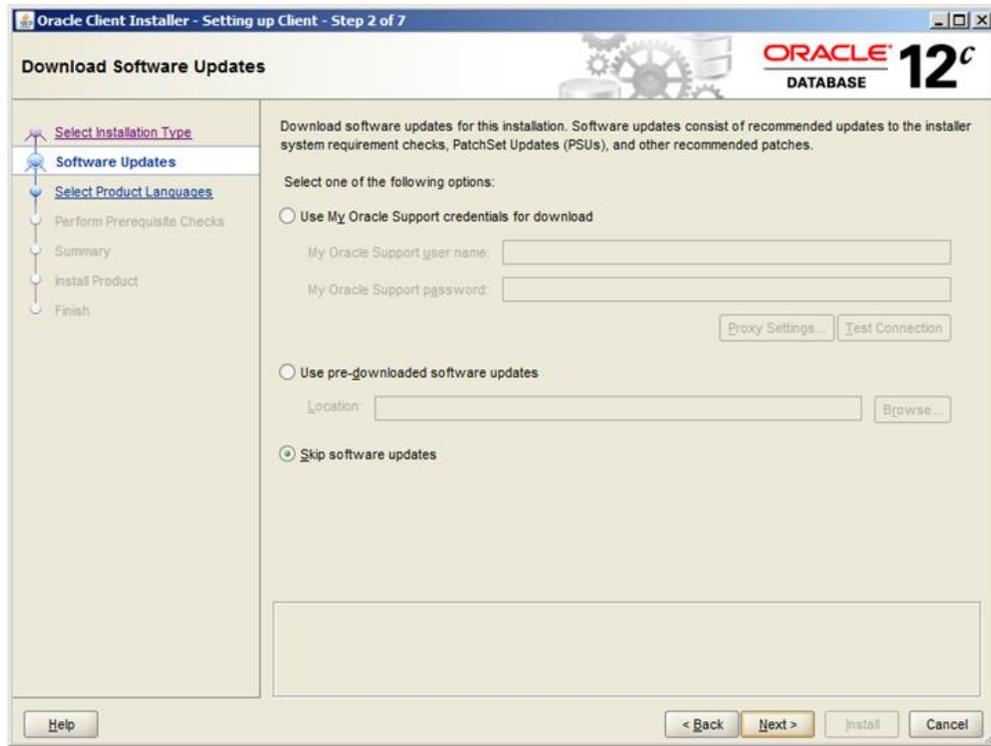
1. Insert the Oracle Database Client installation media and navigate to the **client** directory. Alternatively, navigate to the directory where you downloaded and unzipped the installation files.
2. Right-click **setup.exe** and select Run as Administrator to start the Oracle UI.



3. The **Select Installation Type** dialog box appears.

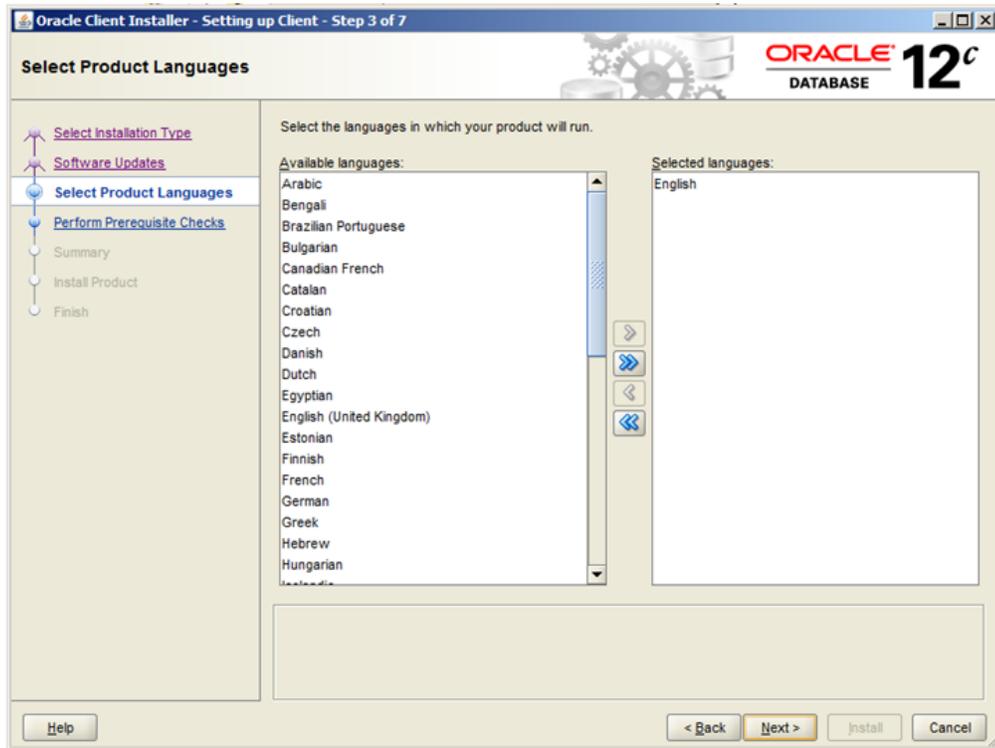


4. Select Administrator and click **Next**.



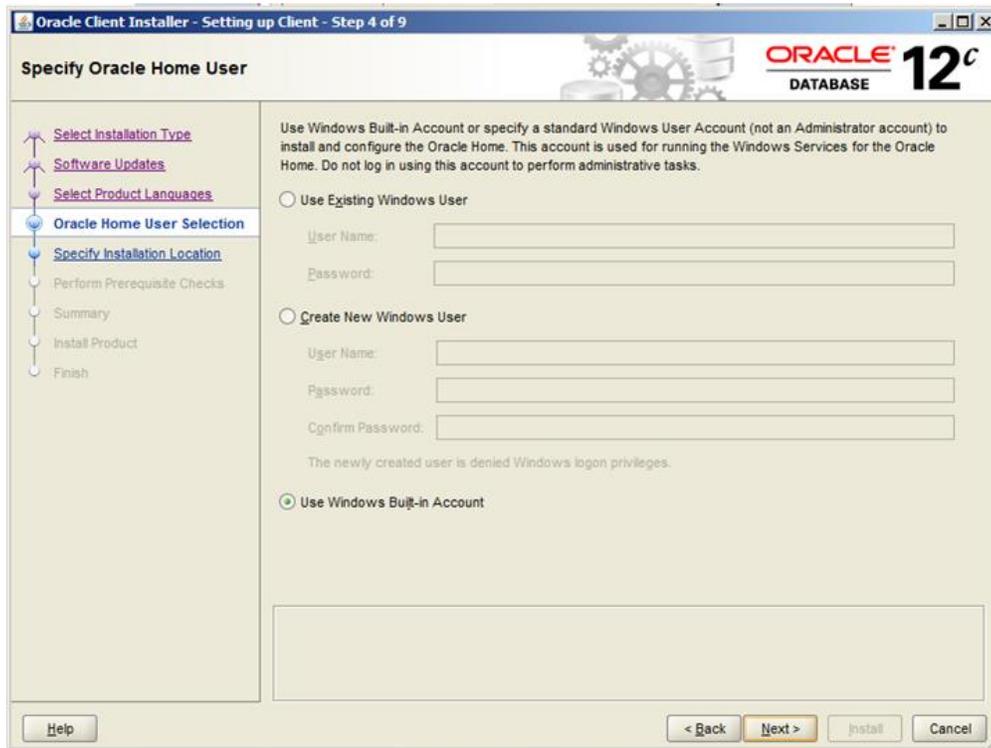
5. The **Download Software Updates** dialog box appears. Make an applicable selection and click **Next**.

The **Select Product Languages** dialog box appears.



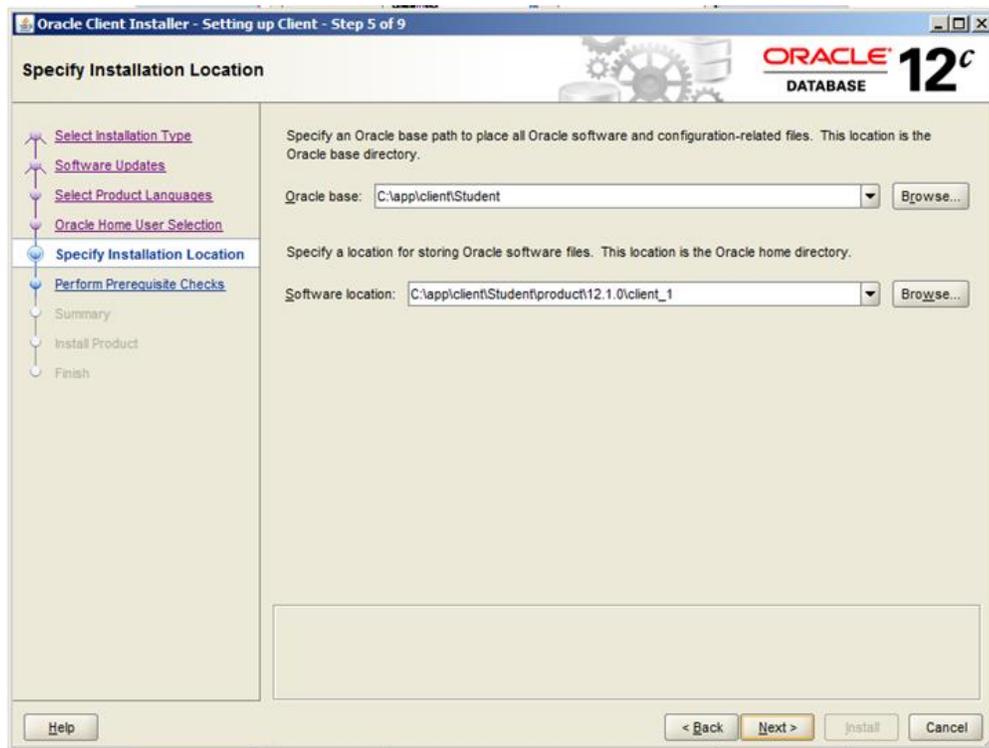
6. Leave it set to English and click **Next**.

The **Specify Oracle Home User** dialog box appears.



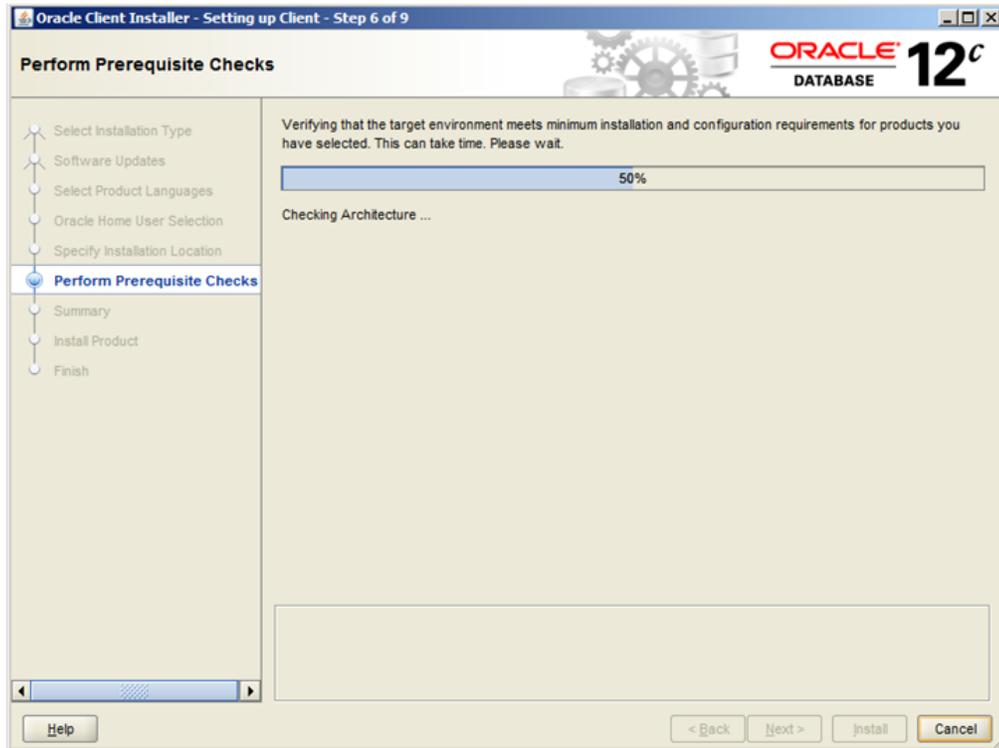
7. Make your selection and provide the requested information for that selection (if any) and click **Next**.

The **Specify Installation Location** dialog box appears.

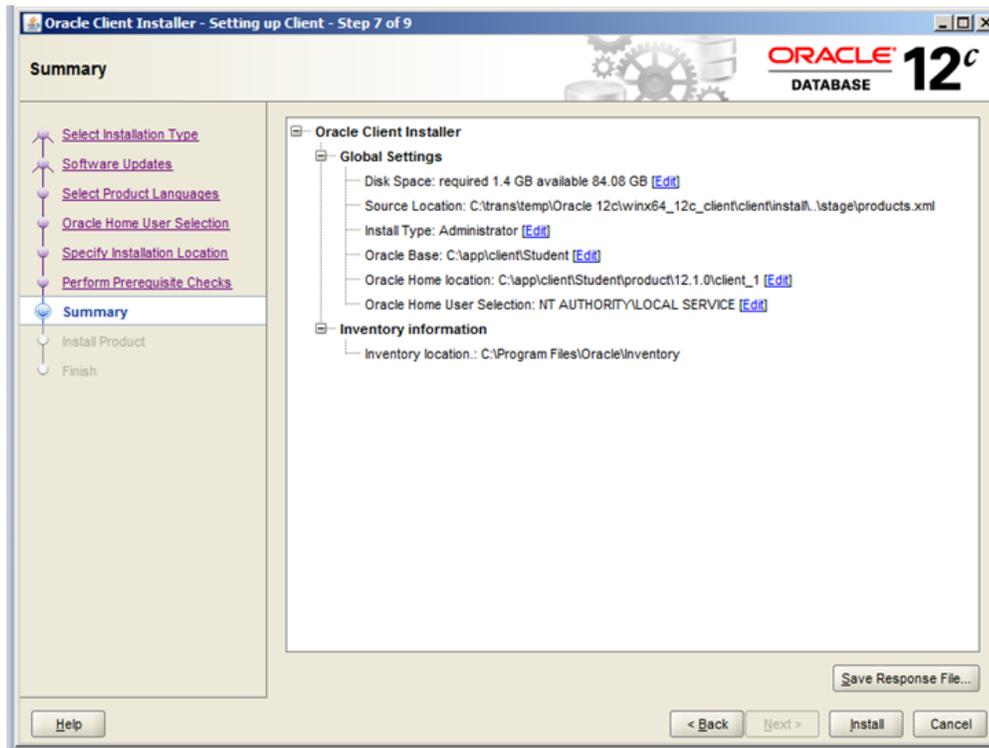


8. Specify paths or leave the defaults and click **Next**.

The **Perform Prerequisite Checks** dialog box appears showing a summary of your installation selections.



When the prerequisite checks complete, the **Summary** dialog box appears showing a summary of your installation choices.



9. Verify the information is correct and then click **Install**. The **Install** dialog box appears and shows progress of the installation. Installation begins and may take some time.
10. When installation completes, click **Finish**.
11. Continue with "Edit the **tnsnames.ora** File" below.

Edit the tnsnames.ora File

The **tnsnames.ora** file tells the ETM[®] Server where to find the ETM Database. The **tnsnames.ora** file is in the directory **<ORACLE_HOME>network\admin** and can be edited in a text editor such as Notepad. When the Database is on the same system as the Management Server, the script edits this file. When they are on separate systems, the file must be edited after you install the Oracle Client.

The **tnsnames.ora** file appears similar to the following:

```
Jackson_10.1.1.173 =
  (DESCRIPTION =
    (ADDRESS_LIST =
      (ADDRESS = (PROTOCOL = TCP) (HOST =
        10.1.1.173) (PORT = 1521))
    )
  )
(CONNECT_DATA = (SID = Jackson) (SERVER = DEDICATED))
```

where `Jackson` is the database SID, `10.1.1.173` is the IP address of the database host computer, and `1521` is the TCP/IP port used by the Listener.

To edit the `tnsnames.ora` file

- Edit the database instance name, IP address, and port number to reflect your database configuration.

Connect with the ETM[®] Database Maintenance Tool

You connect to the database with the ETM Database Maintenance Tool to complete database configuration. See the *ETM[®] System Installation Guide* for instructions. The instructions vary depending on whether you are creating a standalone database or a database repository for managed databases.