

## Installing and Configuring Oracle 19c on Windows for Use with

the ETM® System

For Use with the ETM® System v9.x



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## Contents

Oracle 19c: Installation and Configuration for the ETM <sup>®</sup> Database	3
Introduction	3
Installation and Configuration	
Installing Oracle 19c Enterprise Edition	
Verifying Perl is in Your System PATH	
Running the ETM <sup>®</sup> Database Configuration Script	14
Sample Output of Running oracle_install.pl	
Configure the TNS Listener	22
Copy the Database Driver to Required Locations	23
Edit Configuration Files	24
ETM Server Configuration File	24
Report Server Configuration File	24
Database Maintenance Tool Configuration File	25
Where to Go From Here	
Install the Oracle Client	
Installing the Oracle Client Tools	
Edit the tnsnames.ora File	
Connect with the ETM <sup>®</sup> Database Maintenance Tool	



# Oracle 19c: Installation and Configuration for the ETM<sup>®</sup> Database

#### Introduction

This document explains how to install the Oracle 19c software on Windows and then run the Perl scripts to prepare the database for use with the ETM<sup>®</sup> System.

Oracle 19c Enterprise Edition, Standard Edition, and Standard Edition One are supported. This document describes Enterprise Edition installation. Minor variations may occur when installing other editions.

#### NOTES::

Edition

- 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 19c software into an existing Oracle home.

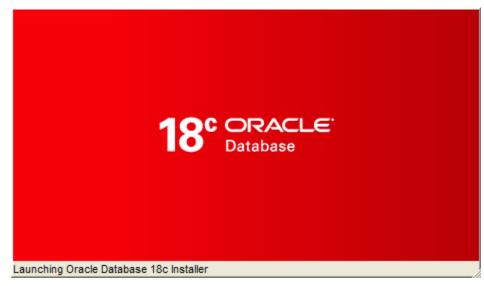
#### Installation and Configuration

**Installing Oracle 19c Enterprise** Note: the screenshots below show Oracle 18c, but the procedure is the same for 19c.

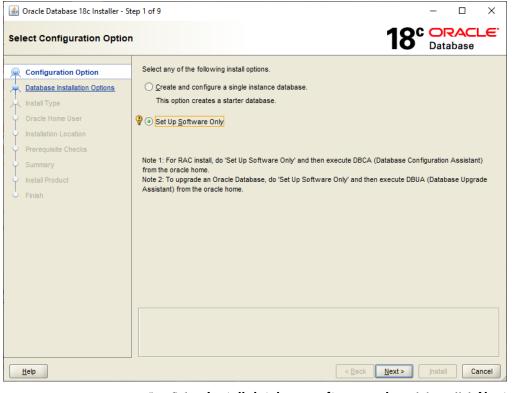
#### To install the Oracle software

- 1. Download the Oracle 19c zip-file distribution (<u>WINDOWS.X64\_193000\_db\_home.zip</u>) from the Oracle web site. <u>https://www.oracle.com/database/technologies/oracle19c-windows-downloads.html</u>
  - 2. Unzip the contents of the Oracle zip-file into your preferred Oracle installation location. For example: C:\app\oracle\product\WINDOWS.X64\_193000\_db\_ home
- 3. Right-click **setup.exe** and select **Run as Administrator** to start the Oracle UI.

Oracle 19c: Installation and Configuration for the ETM® Database



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



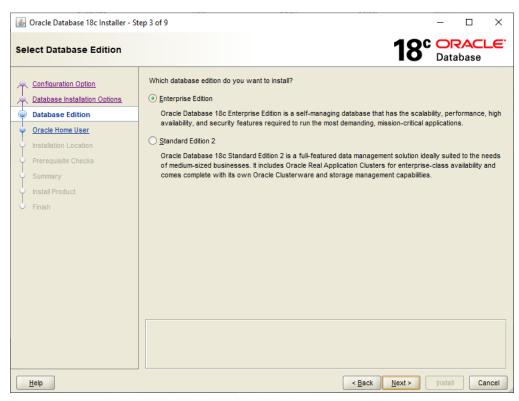
5. Select **Install database software only** and then click **Next**.

4 • Oracle 19c: Installation and Configuration for the ETM® Database



The Select Database Installation Option dialog box appears.

- 6. Select Single instance database installation and then click Next.
- 7. If you are prompted to set a language option, leave the default of English and click **Next**.
- 8. The Select Database Edition dialog box appears.



- 9. Select the edition you are licensing. These instructions illustrate installation of Enterprise Edition. Then click **Next**.
- 10. The **Specify Oracle Home User** dialog box appears.

🙆 Oracle Database 18c Installer - St	ep 4 of 9 – 🗆 🗙
Specify Oracle Home User	18° ORACLE Database
Configuration Option     Database Installation Options     Database Edition     Oracle Home User	For enhanced security, you may choose to run Windows Services from this Oracle home with a non-administrator account. Oracle recommends that you choose a Virtual Account or specify a standard Windows User Account for this purpose. O Use <u>V</u> irtual Account
Installation Location Prerequisite Checks Summary Install Product Finish	● Use Existing Windows User         User Name:
Help	< <u>Back</u> <u>Next&gt;</u> install Cancel

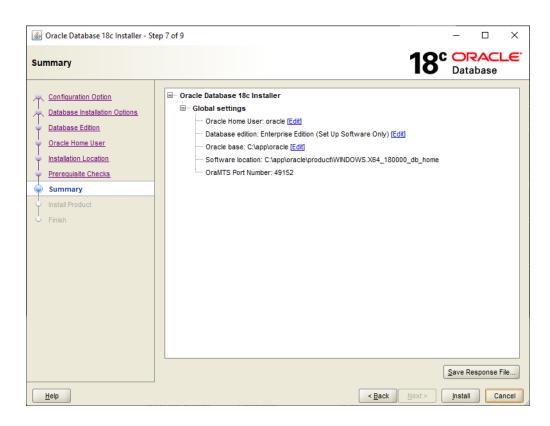
- 11. Select the Windows user account you want to use and specify the username and password if required, and then click **Next**.
- 12. The **Specify Installation Location** dialog box appears.

🕌 Oracle Database 18c Installer - St	ep 5 of 9	-		$\times$
Specify Installation Location	18°	OR Datak		-E.
Configuration Option Database Installation Options Database Edition Oracle Home User Installation Location Prerequisite Checks Summary Install Product Finish	Specify a path to place all Oracle software and configuration-related files installed by this in This location is the Oracle base directory for the installation owner. <u>O</u> racle base: C:\app\oracle This software directory is the Oracle Database home directory. Software location: C:\app\oracle\product\WINDOWS.X64_180000_db_home	Data	1030	
Help	< <u>B</u> ack <u>N</u> ext >	Install	Car	ncel

- 13. The software installation location you select is referred to as ORACLE\_HOME. Keep the defaults or make changes and then click **Next**.
- 14. The **Perform Prerequisite Checks** dialog box appears.

🙆 Oracle Database 18c Installer - St	ep 6 of 9	- 🗆 🗙
Perform Prerequisite Check	<sup>15</sup> 18 <sup>c</sup>	ORACLE Database
Configuration Option Database Installation Options Database Edition Oracle Home User Installation Location Prerequisite Checks	Verifying that the target environment meets minimum installation and configuration requirement have selected. This can take time. Please wait.           80%           Checking Architecture	ts for products you
Summary Install Product Finish		
Help	< <u>B</u> ack	Install Cancel

15. After the prerequisite checks complete, the **Summary** dialog box appears reflecting the settings you chose.



16. Click Install. The Install Product dialog box appears.

🙆 Oracle Database 18c Installer - Ste	ep 8 of 9	- 🗆 X
Install Product		18° ORACLE Database
Configuration Option Database Installation Options Database Edition Oracle Home User Installation Location Prerequisite Checks Summary Install Product Finish	Status       Configure Local Node       • Prepare       • Setup       Setup Oracle Base	18% Pending Pending Pending Pending Pending
	18° ORACLE Database	Details Revert All Revert Retry Skip
Неір	18° ORACLE Database	< <u>B</u> ack <u>N</u> ext > Install C

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

The **Finish** dialog box appears.

🙆 Oracle Database 18c Installer - St	ep 9 of 9	- 🗆 X
Finish		18° ORACLE Database
Configuration Option Database Installation Options Database Edition Oracle Home User Installation Location Prerequisite Checks Summary Install Product Prinish	The registration of Oracle Database was successful.	
Help		< <u>Back</u> <u>Next</u> <u>Install</u> <u>Close</u>

18. Click Close.

Verifying Perl is in Your System PATH Perl is used to run the database creation and configuration scripts. Oracle 19c (Enterprise and Standard) includes a version of Perl with the installation.

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

C:\opt\oracle\bin C:\ProgramData\Oracle\Java\javapath SystemRoot%\system32 %SystemRoot% SystemRoot%\System32\Wbem %SYSTEMROOT%\System32\WindowsPowerShell\v1.0\ %SYSTEMROOT%\System32\OpenSSH\ C:\Program Files\Git\cmd C:\Program Files\SecureLogix\ETM\\JRE\1.8.0_161\bin C:\Program Files\SecureLogix\ETM\\JRE\1.8.0_161\bin C:\Program Files\SecureLogix\ETM\\JRE\1.8.0_162\bin c:\app\oracle\product\WINDOWS.X64_180000_db_home\perl\bin Edit text	C:\app\oracle\product\WINDOWS.X64_180000_db_hom	ne\bin	New
%SystemRoot%\system32         %SystemRoot%         %SystemRoot%\System32\Wbem         %SystemRoot%\System32\WindowsPowerShell\v1.0\         %SYSTEMROOT%\System32\OpenSSH\         C:\Program Files\Git\cmd         C:\Program Files\Git\cmd         C:\Program Files\SecureLogix\ETM\\JRE\1.8.0_161\bin         Move Up         C:\Program Files\Nother         C:\Program Files\SecureLogix\ETM\\JRE\1.8.0_161\bin         Move Down         C:\Program Files\Intel\Intel(R) Management Engine Components         C:\Program Files\Intel\Intel(R) Management Engine Components.DAL         C:\Program Files\SecureLogix\ETM\JRE\1.8.0_162\bin	C:\opt\oracle\bin		
%SystemRoot%       Browse         %SystemRoot%\System32\Wbem       Delete         %SYSTEMROOT%\System32\OpenSSH\       Delete         %SYSTEMROOT%\System32\OpenSSH\       C:\Program Files\Git\cmd         C:\Program Files\Git\cmd       Move Up         C:\Program Files\PuTTY\       Move Up         C:\Program Files (x86)\Intel\Intel(R) Management Engine Component       Move Down         C:\Program Files\Intel\Intel(R) Management Engine Components\DAL       C:\Program Files\SecureLogix\ETM\JRE\1.8.0_162\bin	C:\ProgramData\Oracle\Java\javapath		Edit
%SystemRoot%\System32\Wbem         %SYSTEMROOT%\System32\WindowsPowerShell\v1.0\         %SYSTEMROOT%\System32\OpenSSH\         C:\Program Files\Git\cmd         C:\Program Files\SecureLogix\ETM\\JRE\1.8.0_161\bin         C:\Program Files\PuTTY\         C:\Program Files (x86)\Intel\Intel(R) Management Engine Components         C:\Program Files\Intel\Intel(R) Management Engine Components         C:\Program Files\SecureLogix\ETM\JRE\1.8.0_162\bin	%SystemRoot%\system32		
%SYSTEMROOT%\System32\WindowsPowerShell\v1.0\       Delete         %SYSTEMROOT%\System32\OpenSSH\       C:\Program Files\Git\cmd         C:\Program Files\Git\cmd       Move Up         C:\Program Files\PuTTY\       Move Up         C:\Program Files\NIntel\Intel(R) Management Engine Components       Move Down         C:\Program Files\Intel\Intel(R) Management Engine Components       Move Down         C:\Program Files\SecureLogix\ETM\JRE\1.8.0_162\bin       Time	%SystemRoot%		Browse
%SYSTEMROOT%\System32\OpenSSH\         C:\Program Files\Git\cmd         C:\Program Files\SecureLogix\ETM\\JRE\1.8.0_161\bin         C:\Program Files\PuTTY\         C:\Program Files\(Intel\Intel(R))         Move Up         C:\Program Files\(Intel\Intel(R))         Move Down         C:\Program Files\Intel\Intel(R)         Move Down         C:\Program Files\Intel\Intel(R)         C:\Program Files\SecureLogix\ETM\JRE\1.8.0_162\bin	%SystemRoot%\System32\Wbem		
C:\Program Files\Git\cmd C:\Program Files\SecureLogix\ETM\\JRE\1.8.0_161\bin C:\Program Files\PuTTY\ C:\Program Files (x86)\Intel\Intel(R) Management Engine Component C:\Program Files\Intel\Intel(R) Management Engine Components\DAL C:\Program Files\SecureLogix\ETM\JRE\1.8.0_162\bin	%SYSTEMROOT%\System32\WindowsPowerShell\v1.0\		Delete
C:\Program Files\SecureLogix\ETM\\JRE\1.8.0_161\bin Move Up C:\Program Files\PuTTY\ C:\Program Files (x86)\Intel\Intel(R) Management Engine Components C:\Program Files\Intel\Intel(R) Management Engine Components\DAL C:\Program Files\SecureLogix\ETM\JRE\1.8.0_162\bin	%SYSTEMROOT%\System32\OpenSSH\		
C:\Program Files\PuTTY\ C:\Program Files (x86)\Intel\Intel(R) Management Engine Component C:\Program Files\Intel\Intel(R) Management Engine Components\DAL C:\Program Files\SecureLogix\ETM\JRE\1.8.0_162\bin	C:\Program Files\Git\cmd		
C:\Program Files (x86)\Intel\Intel(R) Management Engine Component C:\Program Files\Intel\Intel(R) Management Engine Components\DAL C:\Program Files\SecureLogix\ETM\JRE\1.8.0_162\bin	C:\Program Files\SecureLogix\ETM\\JRE\1.8.0_161\bin		Move Up
C:\Program Files\Intel\Intel(R) Management Engine Components\DAL C:\Program Files\SecureLogix\ETM\JRE\1.8.0_162\bin			
C:\Program Files\SecureLogix\ETM\JRE\1.8.0_162\bin		-	Move Down
		mponents\DAL	
c:\app\oracle\product\WINDOWS.X64_180000_db_home\perl\bin			<b>E</b> 1944 - 4
	c:\app\oracle\product\WINDOWS.X64_180000_db_hom	e\perl\bin	Edit text

#### Running the ETM<sup>®</sup> Database Configuration Script

#### **IMPORTANT**: You must run this script as **Administrator**.

#### To run the ETM<sup>®</sup> Database creation and configuration script

1. Open the following script in a text editor:

#### <INSTALL\_DIR>\scripts\Oracle\ oracle\_install.pl

2. Locate the line that reads:

\$cmd = \$ORACLE\_BIN."orapwd file=\$ORAPWD\_FILE
password=change on install";

This is a temporary password for script execution only; it is not retained in the system. Oracle 19 enforces minimum password complexity requirements and requires the password to contain at least one digit and 1 special character. At a minimum, append a digit and a special character to the end of the supplied password, or replace it with a password that meets Oracle's minimum password complexity requirements.

\$cmd = \$ORACLE\_BIN."orapwd file=\$ORAPWD\_FILE
password= ThisIsATempPassword123!";

- 3. Save the file.
- 4. Open a command prompt as **Administrator** in the ETM **Scripts** directory: **<INSTALL\_DIR>\scripts\Oracle**.
- 5. At the prompt, type: perl oracle\_install.pl
- 6. 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.

**Note**: The ETM Database requires the DBMS\_JOB package, and uses the CREATE JOB privilege to support DBMS\_JOB jobs for backward compatibility with DBMS\_SCHEDULER.

#### Sample Output of Running oracle install.pl

SecureLogix Corporation's DB Creation Utility

Version: 3.0 Supports Oracle 12, 18, and 19 Please enter your OS Type (DOS/UNIX) [DOS]: Please enter your Domain Name (securelogix.com): slc.com slc.com - Is this correct? (y/n) [n]: y Please enter your Host Address [127.0.0.1]: 127.0.0.1 - 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  $c:\langle app \rangle oracle \rangle$ ? (y/n): yPlease Specify the Oracle version. (12, 18, or 19): 19 Found directory c:\app\oracle\product\WINDOWS.X64 193000 db home\ Set ORACLE HOME to: 'c:\app\oracle\product\WINDOWS.X64 193000 db home\'? (y/n) [y]: y Unable to find admin directory under Oracle Base. Now checking Oracle Home. Set ORACLE DATA to: 'c:\app\oracle\product\WINDOWS.X64 193000 db home\oradata\'? (y/n) [y]: y Please Enter the value for ORACLE SID: ORA19 ORA19 - Is this correct? (y/n) [Y]: y Please enter the listener port for Oracle [1521]: 1521 - Is this correct? (y/n) [y]: y Creating Data Directories for SID: ORA19 Would you like the script to create the orapwd file? (y/n) [y]: 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]: specified during installation of Oracle 19

#### 

Would you like to generate the Oracle scripts to generate the database? (y/n) [y]: y Please enter the preferred Tablespacename [ETM]: Please enter the ETM User name [etmuser]: Please specify the password for the ETM User: etmpass Please re-enter the password for the ETM User: etmpass 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\product\WINDOWS.X64 193000 db home\admin\ORA19\create\create d b ORA19.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]: ChangeMe123! c:\app\oracle\product\WINDOWS.X64 193000 db home\bin\\sqlplus "sys/ChangeMe123! AS SYSDBA" @c:\app\oracle\product\WINDOWS.X64 193000 db home\admin\ORA19\create\create db ORA19.sql SQL\*Plus: Release 19.0.0.0.0 - Production on Thu Jun 4 09:06:49 2020 Version 19.3.0.0.0 Copyright (c) 1982, 2018, Oracle. All rights reserved. Connected to an idle instance. SOL> SQL> REM \* Actually starts the database instance

16 • Oracle 19c: Installation and Configuration for the ETM® Database

```
Total System Global Area 536868376 bytes
Fixed Size
                           8791576 bytes
Variable Size
                         201326592 bytes
Database Buffers
                         318767104 bytes
Redo Buffers
                           7983104 bytes
SOL>
SQL> REM * Creates the physical database. Feel free to customize the redo
logs here.
SQL> CREATE DATABASE ORA19
 2 MAXLOGFILES 32
 3 MAXLOGMEMBERS 2
 4 MAXLOGHISTORY 1
 5 MAXDATAFILES 254
 6 MAXINSTANCES 1
 7 MAXLOGHISTORY 5000
 8 DATAFILE
'c:\app\oracle\product\WINDOWS.X64 193000 db home\oradata\ORA19\system01.dbf
' SIZE 150M REUSE AUTOEXTEND ON NEXT 10240K MAXSIZE UNLIMITED
 9 EXTENT MANAGEMENT LOCAL
10 SYSAUX DATAFILE
'c:\app\oracle\product\WINDOWS.X64 193000 db home\oradata\ORA19\sysaux01.dbf
' SIZE 120M REUSE AUTOEXTEND ON NEXT 10240K MAXSIZE UNLIMITED
11 SMALLFILE DEFAULT TEMPORARY TABLESPACE TEMP TEMPFILE
'c:\app\oracle\product\WINDOWS.X64 193000 db home\oradata\ORA19\temp01.dbf'
SIZE 500M REUSE AUTOEXTEND ON
12 SMALLFILE UNDO TABLESPACE "UNDOTBS1" DATAFILE
'c:\app\oracle\product\WINDOWS.X64 193000 db home\oradata\ORA19\undotbs01.db
f' SIZE 500M REUSE AUTOEXTEND ON
13 LOGFILE
'c:\app\oracle\product\WINDOWS.X64 193000 db home\oradata\ORA19\redo01.log'
SIZE 10M,
```

```
ORACLE instance started.
```

```
SQL> startup nomount
pfile="c:\app\oracle\product\WINDOWS.X64_193000_db_home\admin\ORA19\pfile\in
it.ora"
```

14 'c:\app\oracle\product\WINDOWS.X64 193000 db home\oradata\ORA19\redo02.log' SIZE 10M, 15 'c:\app\oracle\product\WINDOWS.X64 193000 db home\oradata\ORA19\redo03.log' SIZE 10M; Database created. SQL> SQL> CREATE TABLESPACE "ETM" LOGGING 2 DATAFILE 'c:\app\oracle\product\WINDOWS.X64 193000 db home\oradata\ORA19\ETM01.dbf' SIZE 100M 3 AUTOEXTEND ON NEXT 10M 4 EXTENT MANAGEMENT LOCAL; Tablespace created. SOL> SQL> REM \* Create the default user for use with the system. SQL> CREATE USER etmuser PROFILE "DEFAULT" IDENTIFIED BY "etmpass" 2 DEFAULT 3 TABLESPACE "ETM" TEMPORARY TABLESPACE "TEMP" ACCOUNT UNLOCK; 4 User created.

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

18 • Oracle 19c: Installation and Configuration for the ETM® Database

```
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> GRANT EXECUTE ON DBMS\_LOCK to etmuser;

Grant succeeded.

SQL> GRANT CREATE JOB TO etmuser;

Grant succeeded.

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> spool off

20 • Oracle 19c: Installation and Configuration for the ETM® Database

SQL> EXIT

Disconnected from Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production

Version 19.3.0.0.0

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\product\WINDOWS.X64\_193000\_db\_home\admin\ORA19\create\sys\_init ORA19.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\product\WINDOWS.X64\_193000\_db\_home\admin\ORA19\create\sys\_init ORA19.log and make sure data is being written to file.

c:\app\oracle\product\WINDOWS.X64\_193000\_db\_home\bin\\sqlplus
"sys/ChangeMe123! AS SYSDBA"
@c:\app\oracle\product\WINDOWS.X64 193000 db home\admin\ORA19\create\sys ini

t ORA19.sql > NUL

Sys Init Sql script executed. Check sys init ORA19.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\product\WINDOWS.X64\_193000\_db\_home\admin\ORA19\create\system\_i nit ORA19.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]:

#### Please enter the password for database user 'system' [manager]:

c:\app\oracle\product\WINDOWS.X64\_193000\_db\_home\bin\\sqlplus
"system/manager "
@c:\app\oracle\product\WINDOWS.X64\_193000\_db\_home\admin\ORA19\create\system\_
init ORA19.sql > NUL

System Init Sql script executed. Check system\_init\_ORA19.log to verify
status
c:\app\oracle\product\WINDOWS.X64\_193000\_db\_home\bin\\sqlplus
"sys/ChangeMe123! AS SYSDBA"
@c:\app\oracle\product\WINDOWS.X64\_193000\_db\_home\admin\ORA19\create\post\_cr
eate grants.sql

SQL\*Plus: Release 19.0.0.0.0 - Production on Thu Jun 4 11:18:13 2020 Version 19.3.0.0.0

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Connected to:

Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production Version 19.3.0.0.0

Disconnected from Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production

Version 19.3.0.0.0

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

End of SecureLogix Corporation's DB Creation Utility

Configure the<br/>TNS ListenerA listener with a default name of LISTENER is created when you install the<br/>Oracle software, but it must be started or restarted to update it with the<br/>configuration for the ETM Database.

#### To configure the TNS Listener

- 1. Open a command prompt as Administrator.
- 2. Type: c:\app\oracle\product\WINDOWS.X64\_193000\_db\_hom e\bin\lsnrctl.exe 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:

c:\app\oracle\product\WINDOWS.X64\_193000\_db\_hom
e\bin\lsnrctl.exe start

Starting tnslsnr: please wait...

## Enter oracle's password : ← Enter the password of the user specified during Oracle installation

- 5. If the listener is running, stop it by typing: c:\app\oracle\product\WINDOWS.X64\_193000\_db\_hom e\bin\lsnrctl.exe stop
- 6. When it stops, restart it by typing: c:\app\oracle\product\WINDOWS.X64\_193000\_db\_hom e\bin\lsnrctl.exe start

Starting tnslsnr: please wait...

Enter oracle's password : ← Enter the password of the user specified during Oracle installation

7. When it starts, output should appear showing that it is listening for the ETM instance.

After installing and configuring the database, copy the supported database driver to each of the following ETM System installation directories:

• The ETM Server.

Copy the

Locations

Database Driver to Required

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

Remote ETM System Clients do not require the driver file.

#### Only the following configuration is supported with Oracle 19c:

- **ETM<sup>®</sup> System 9.x** using the following driver:
  - **ojdbc8** from Oracle 19c

You can download the supported driver from the Oracle website.

Edit Configuration	Ser	e to changes in that Oracle 19c driver, configuration files for the ETM ver, Report Server, and ETM Database Maintenance Tool must be edited mable the ETM System to connect to the database.
Eiles ETM Server	То	edit the ETM Server configuration file
Configuration File	1.	On the ETM Server host, open the file <b>ETMManagementService.cfg</b> in a text editor. This file is at the root of the ETM Management Server installation directory.
	2.	Locate the line labeled :
# Java swi	tch	es 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:
		a.rmi.server.useLocalHostName=true - e -Doracle.jdbc.autoCommitSpecCompliant=false
	5.	Save the file.
Report Server	То	edit the Report Server configuration file
Configuration File	1.	On the Report Server host, open the file <b>ETMReportService.cfg</b> 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 wi	nen	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 Doracle.jdbc.autoCom		urity.policy=policy -Dsun.java2d.noddraw=true - SpecCompliant=false
	5.	Locate the line labeled:
# The swite	che	s 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::
Djava.security.polic	y=p	-Djava.rmi.server.useLocalHostName=true -J- olicy -J-Dsun.java2d.noddraw=true -J- ls=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	To edit the Database Maintenance Tool configuration file
Maintenance Tool Configuration File	<ol> <li>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.</li> </ol>

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 19c 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<sup>®</sup> Database Maintenance Tool" on page 33.

See the *ETM*<sup>®</sup> *System Installation Guide* for complete ETM Software installation and configuration instructions.

**Install the Oracle Client** If the ETM<sup>®</sup> Management Server is installed on the same computer as Oracle, you do not need to install the Oracle Client Tools 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 Tools 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 19c cannot share Oracle base with Oracle homes from earlier database versions.
- 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.

## **Note**: the screenshots below show Oracle 18c, but the procedure is the same for 19c.

#### To install the Oracle Client Tools

Installing the

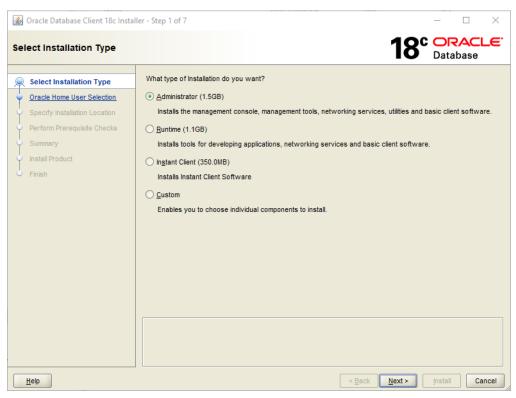
**Oracle Client** 

Tools

- 1. Download the Oracle 19c Client Tools zip-file distribution (WINDOWS.X64\_193000\_client.zip) from the Oracle web site. https://www.oracle.com/database/technologies/oracle19c-windowsdownloads.html
- 2. Unzip the contents of the Oracle zip-file into your preferred Oracle installation location. Example: C:\app\oracle\product\WINDOWS.X64\_193000\_client \client
- 3. Right-click **setup.exe** and select **Run as Administrator** to start the Oracle UI.



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



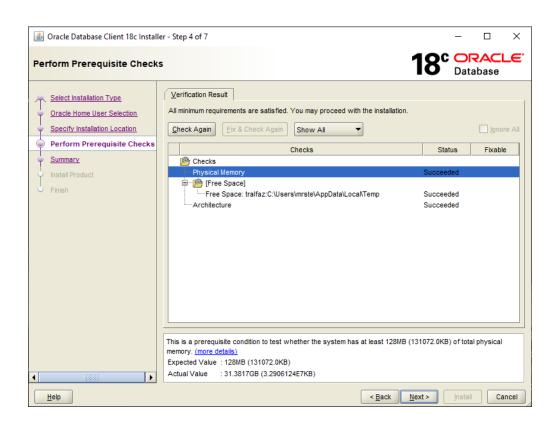
5. Select **Administrator** and click **Next**.

🕌 Oracle Database Client 18c Install	er - Step 2 of 7		_		×
Specify Oracle Home User		18	<b>3° </b>	RAC	LE.
Select Installation Type Oracle Home User Selection Specify Installation Location Perform Prerequisite Checks Summary Install Product Finish	install and configure the Home. Do not log in using Use Existing Window: User Name: Password: User Name: User Name: Password: Confirm Password:	oracle			
Help		< Back Next >	Inst	all Ca	ancel

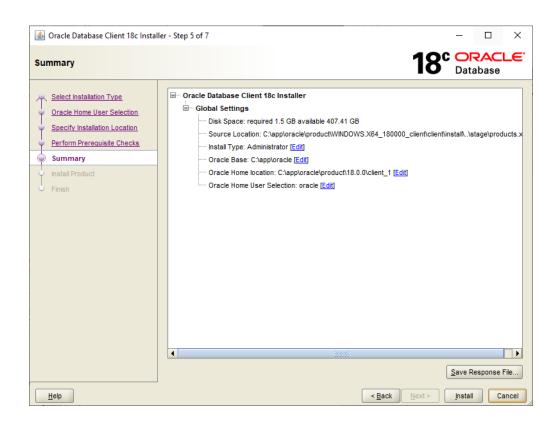
6. The **Download Software Updates** dialog box appears. Make an applicable selection and click **Next**.

🕌 Oracle Database Client 18c Instal	ler - Step 3 of 7					-		×
Specify Installation Location					18	C OF Data		Ľ€.
Select Installation Type     Oracle Home User Selection	Specify an Or Oracle base d		place all Oracle soft	ware and configu	ration-related files	. This loca	tion is the	
Specify Installation Location	Oracle base:	C:\app\oracle				-	Brows	e
Perform Prerequisite Checks								
Summary	Specify a loca	ation for storing Or	acle software files.	This location is the	ne Oracle home dir	ectory.		
Install Product	Software loca	tion: C:\app\orac	:le\product\18.0.0\cli	ent 1		•	Brows	e
- Finish		diappiorae		un_1			0.00	·
Help				< <u>B</u> a	ck <u>N</u> ext >	Install	Ca	incel

7. The **Specify Installation Location** dialog box appears. Make an applicable selection and click **Next**.



8. The **Perform Prerequisite Checks** dialog box appears. When it completes, click **Next**.



9. After the prerequisite checks complete, the **Summary** dialog box appears reflecting the settings you chose.. Make applicable changes and click **Install.** `

🕌 Oracle Database Client 18c	installer - Step 6 of 7	– 🗆 X
Install Product		18° ORACLE Database
Select Installation Type	r Progress	
	0%	
Oracle Home User Selection		
Specify Installation Location	Central Inventory is not locked.	
Perform Prerequisite Checks		
↓ ♀ Summary	⊂ Status	
Install Product	Oracle Client Installation	In Program
Ť	Prepare	In Progress Pending
<ul> <li>Finish</li> </ul>	Copy files	Pending
	Setup	Pending
	Setup Oracle Base	Pending
	Oracle Client Configuration	Pending
	Details F	Revert All Revert Retry Skip
Help		Next > Install Cancel
	10. When installation completes, click <b>Close</b>	<b>e</b> .
	11. Continue with "Edit the <b>tnsnames.ora</b>	File" below.
t the names.ora File	The <b>tnsnames.ora</b> file tells the ETM <sup>®</sup> Serv Database. The <b>tnsnames.ora</b> file is in the d <b><oracle_home>\network\admin</oracle_home></b> and such as Notepad. When the Database is on the Management Server, the script edits this file. systems, the file must be edited after you insta	irectory can be edited in a text ed e same system as the When they are on separa
	The <b>tnsnames.ora</b> file appears similar to the	e following:
	<pre>ORA19_10.1.1.173 =   (DESCRIPTION =     (ADDRESS_LIST =         (ADDRESS = (PROTOCOL = TC</pre>	
(0	CONNECT_DATA = (SID = ORA19)(SER	VER = DEDICATED)

where ORA19 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<sup>®</sup> Database Maintenance Tool You connect to the database with the ETM Database Maintenance Tool to complete database configuration. See the *ETM<sup>®</sup> System Installation Guide* for instructions. The instructions vary depending on whether you are creating a standalone database or a database repository for managed databases.