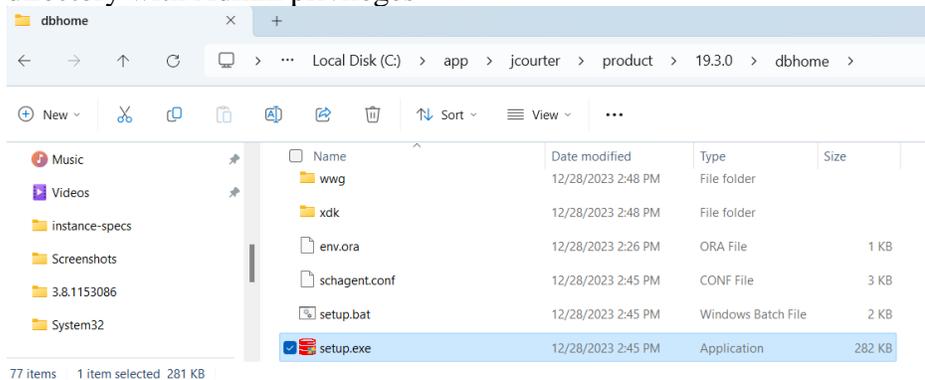
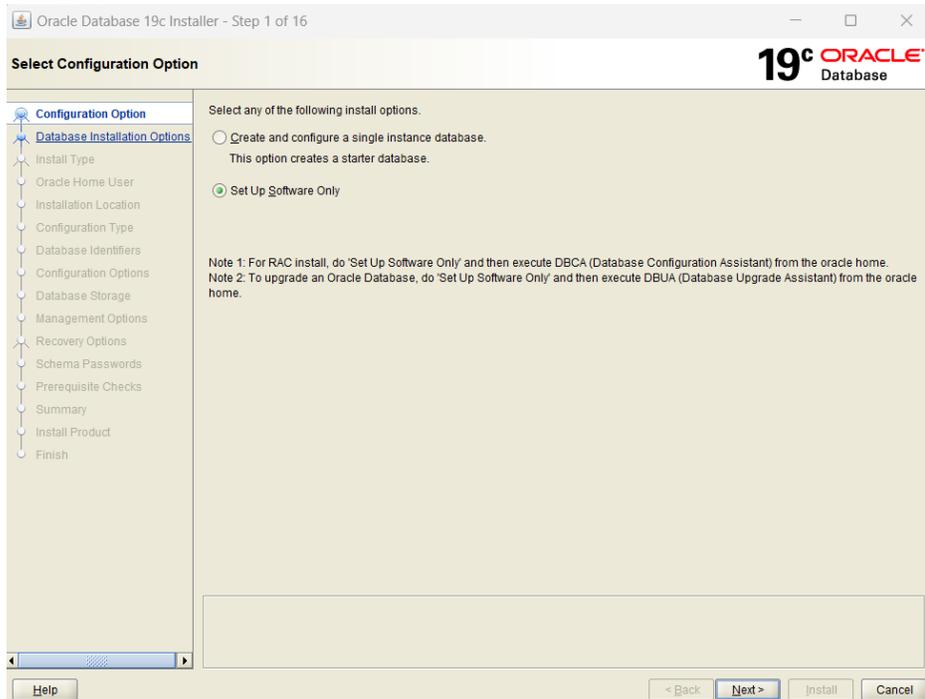


Oracle 19c Installation

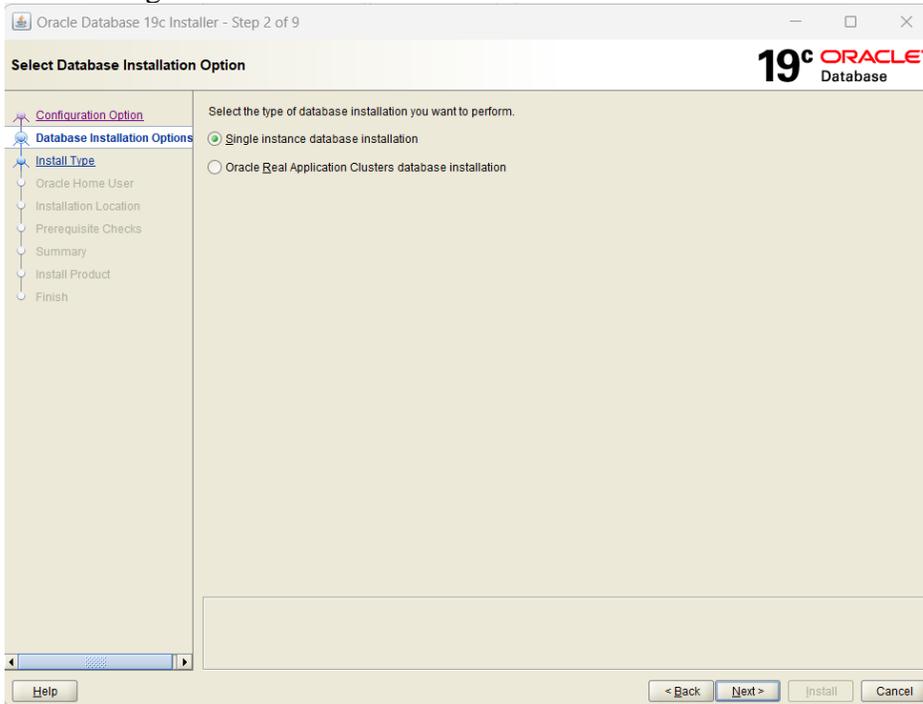
1. Download Oracle 19c from <https://www.oracle.com/database/technologies/oracle19c-windows-downloads.html>
2. Oracle Home location will be the location that the content is extracted too. In our example, I have created the location C:/app/**userName**/product/19.3.0/dbhome to house my Oracle 19c home
3. Once extraction is complete, run the setup.exe file located within your Oracle home directory with Admin privileges



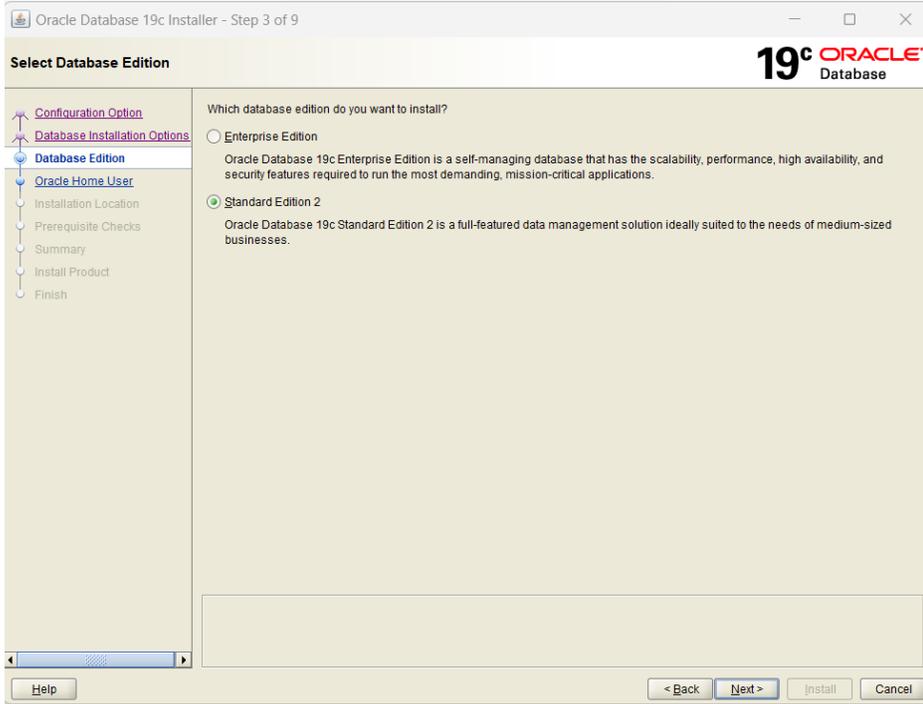
4. Within the Oracle Database Installer window, select "Set Up Software Only". Click "Next".



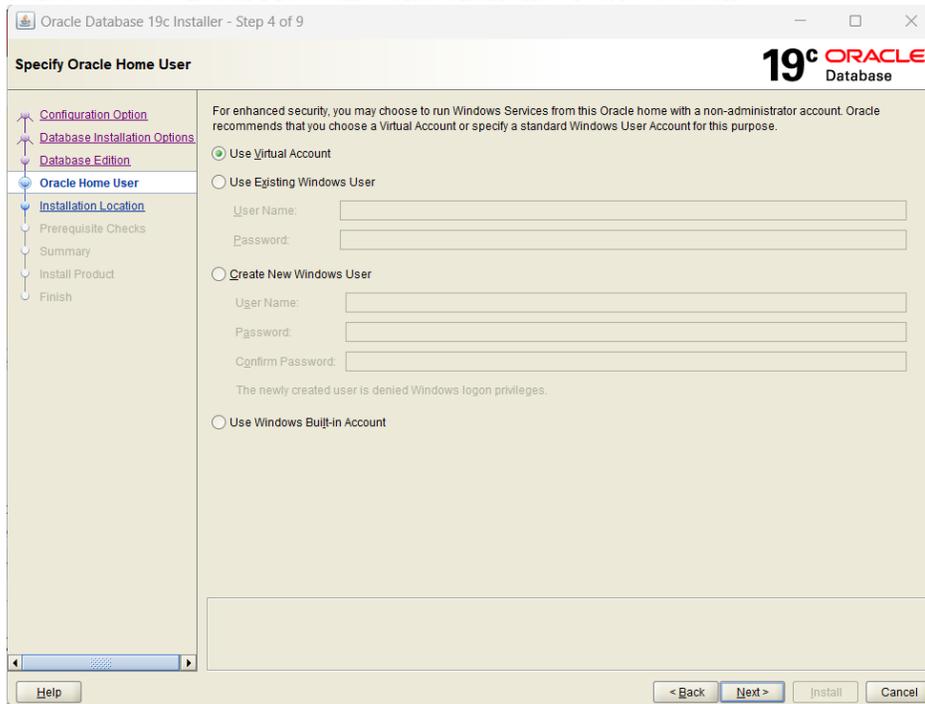
5. Select "Single instance database installation" and click the "Next" button.



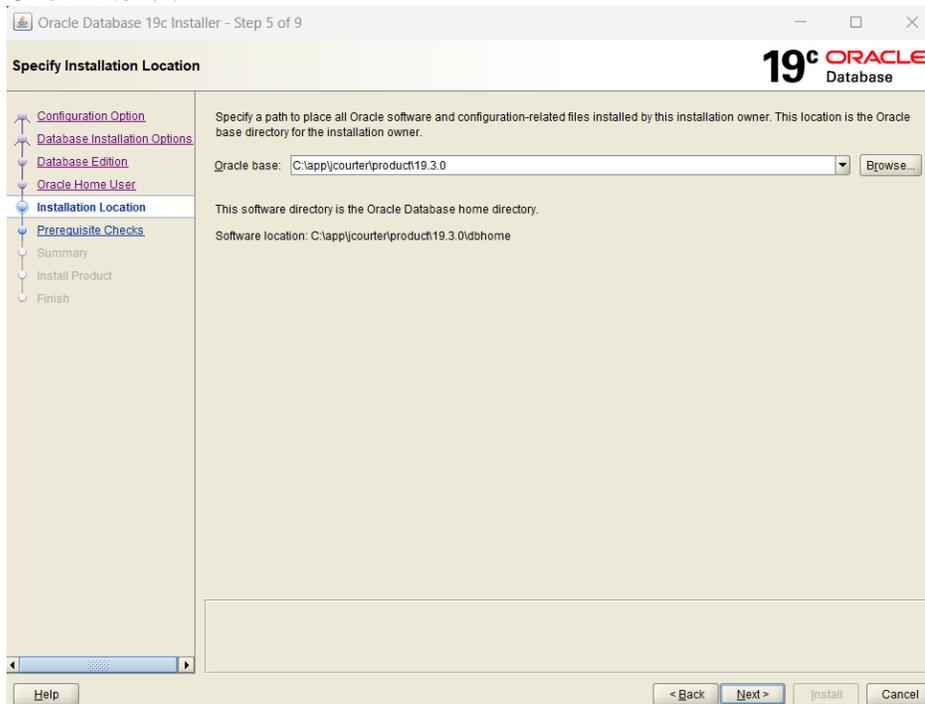
6. Select "Standard Edition 2" and click the "Next" button



7. Select "Use Virtual Account" and click the "Next" button

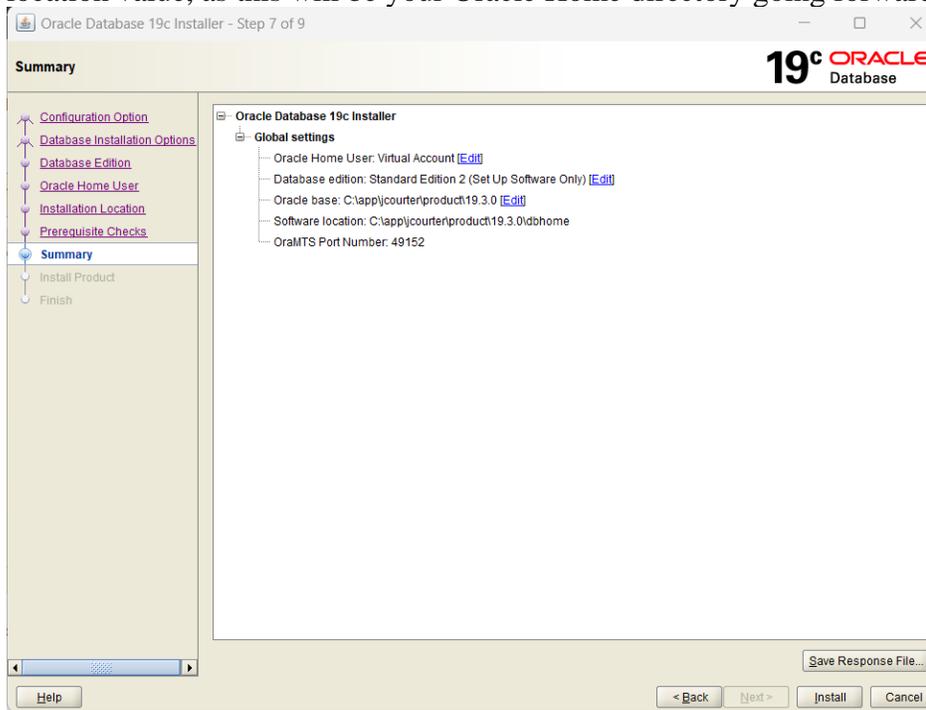


8. Set the Oracle base directory. For this example, I will set the base in the same directory that I created the dbhome directory which houses the Oracle Home extraction content. Click "Next".



9. Oracle will run Prerequisite Checks and then provide a Summary of the information you have provided up until this point. **IMPORTANT**-You should record the Software

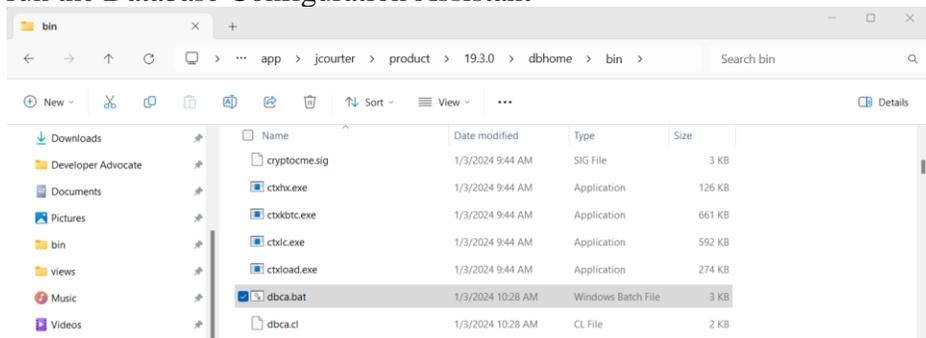
location value, as this will be your Oracle Home directory going forward



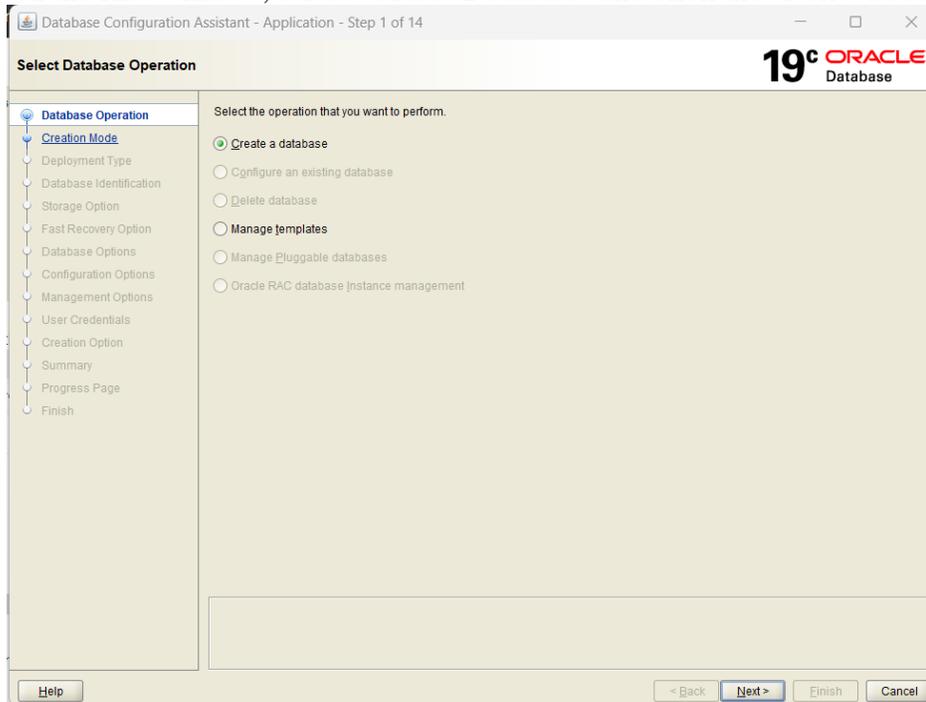
10. Click the "Install" button. Once complete, you should see the success message below. At this point, click the "Close" button



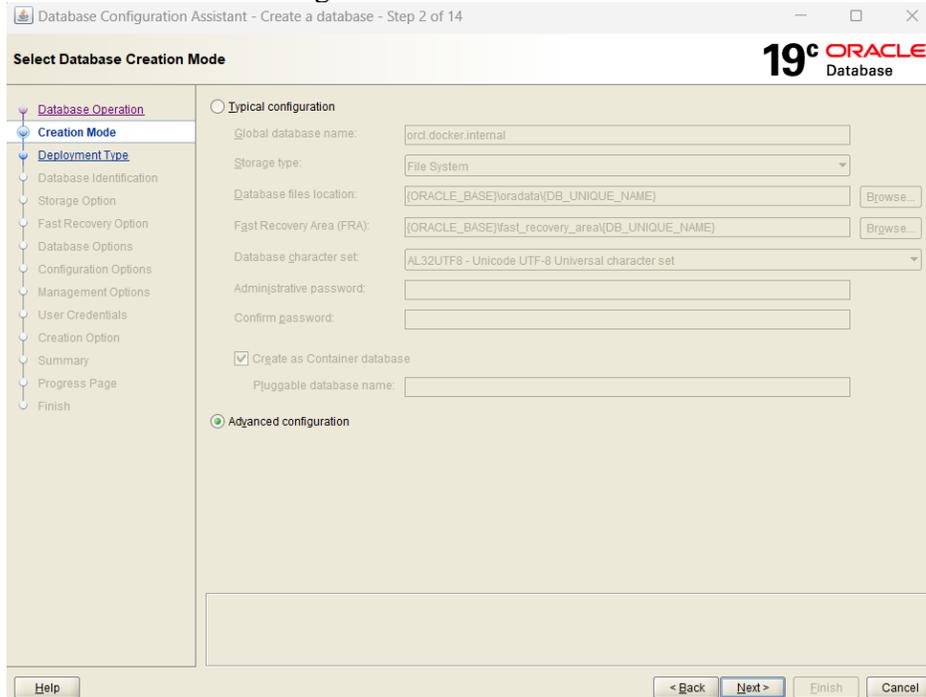
11. Next, you will execute the dbca.bat file. Ensure that you run this as an Admin. This will run the Database Configuration Assistant



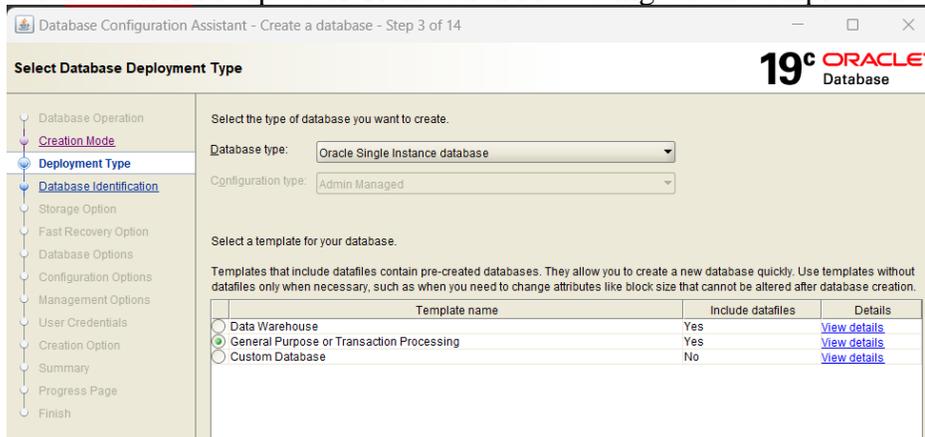
12. On the first window, select "Create Database" and click the "Next" button



13. Select "Advanced Configuration" and click "Next"

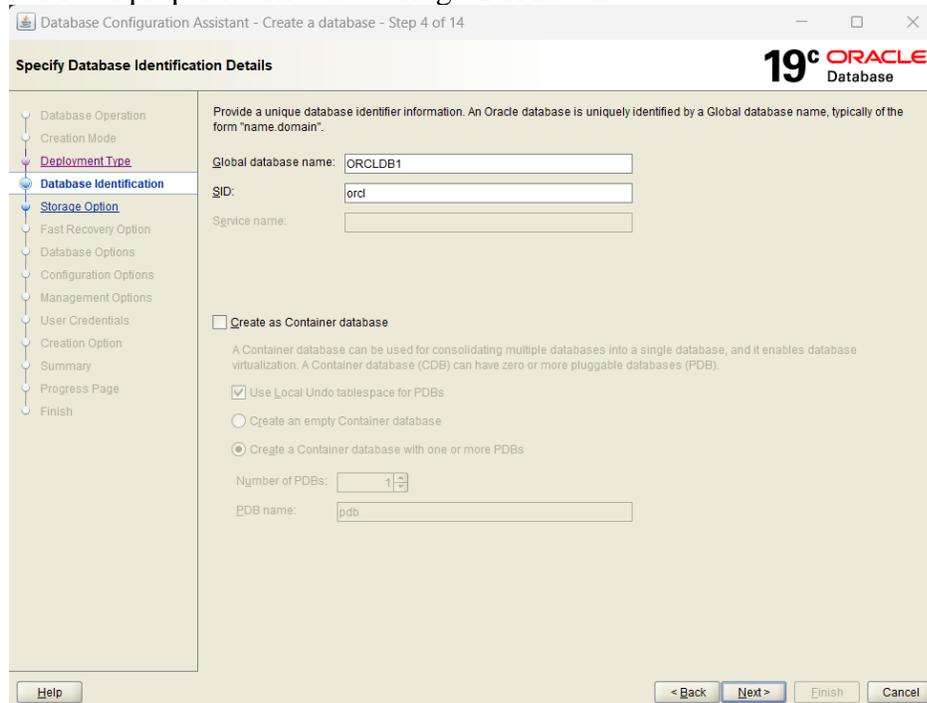


14. Select "General Purpose or Transaction Processing" as the template and click "Next"



15. Deselect the option "Create as Container database". Set your "Global database name" and "SID" values as follows:

- Global database name = ORCLDB1
- SID = orcl
- **IMPORTANT** - Record these values. Global database name will be used within our local.properties file and during SDK install



16. Select the option "Use following for the database storage attributes". Leave the default values as-is. Click "Next"

Database Configuration Assistant - Create 'orc' database - Step 5 of 14

Select Database Storage Option

19^c ORACLE Database

Database Operation
Creation Mode
Deployment Type
Database Identification
Storage Option
Fast Recovery Option
Database Options
Configuration Options
Management Options
User Credentials
Creation Option
Summary
Progress Page
Finish

Use template file for database storage attributes
Storage type and location for database files will be picked up from the specified template (General Purpose or Transaction Processing).

Use following for the database storage attributes
All the database files will be put at the specified location below. You can customize the name and location of each datafile in the subsequent screen.

Database files storage type: File System

Database files location: {ORACLE_BASE}\oradata\{DB_UNIQUE_NAME} Browse...

Oracle Managed files option will enable Oracle to automatically generate the names of the datafiles for simplified database management.

Use Oracle-Managed Files (OMF) Multiplex redo logs and control files...

17. Skip the Fast Recovery Option screen

18. On the "Network Configuration" screen, select the "Create a new listener" checkbox. Provide the Listener Name = LISTENER and the Listener Port = 1521. Click "Next"

Database Configuration Assistant - Create 'orc' database - Step 7 of 14

Specify Network Configuration Details

19^c ORACLE Database

Database Operation
Creation Mode
Deployment Type
Database Identification
Storage Option
Fast Recovery Option
Network Configuration
Configuration Options
Management Options
User Credentials
Creation Option
Summary
Progress Page
Finish

Listener selection

Listeners from current Oracle home are listed below. Specify the listener name and port to create a new listener in current Oracle home.

Name	Port	Oracle home	Status
------	------	-------------	--------

Create a new listener

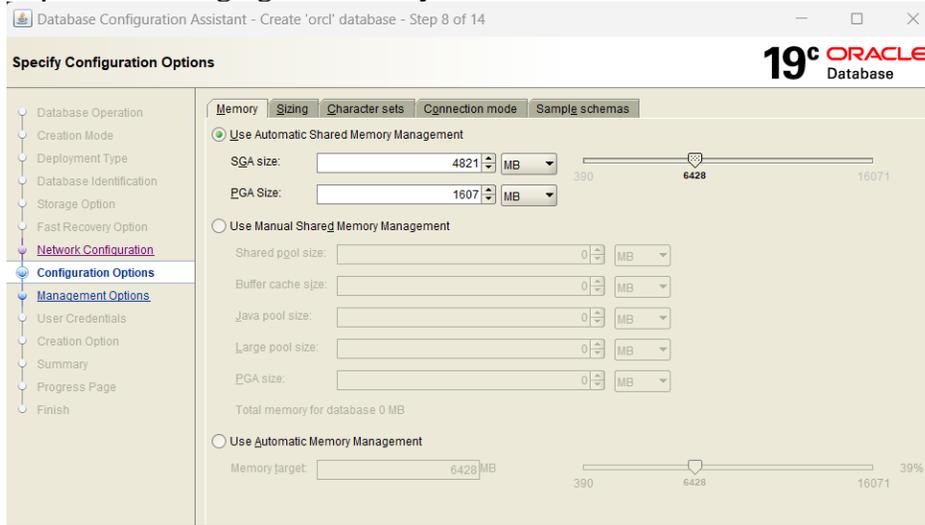
Listener name: LISTENER

Listener port: 1521

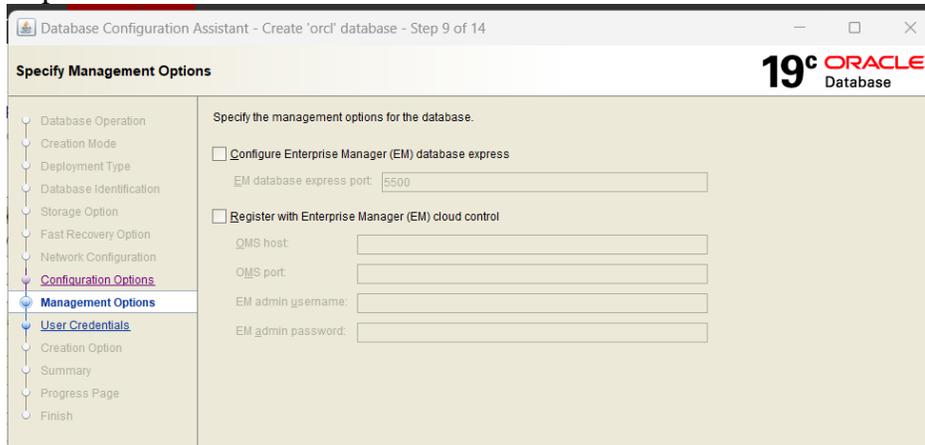
Oracle home: C:\app\courter\product19.3.0\dbhome

Help < Back Next > Finish Cancel

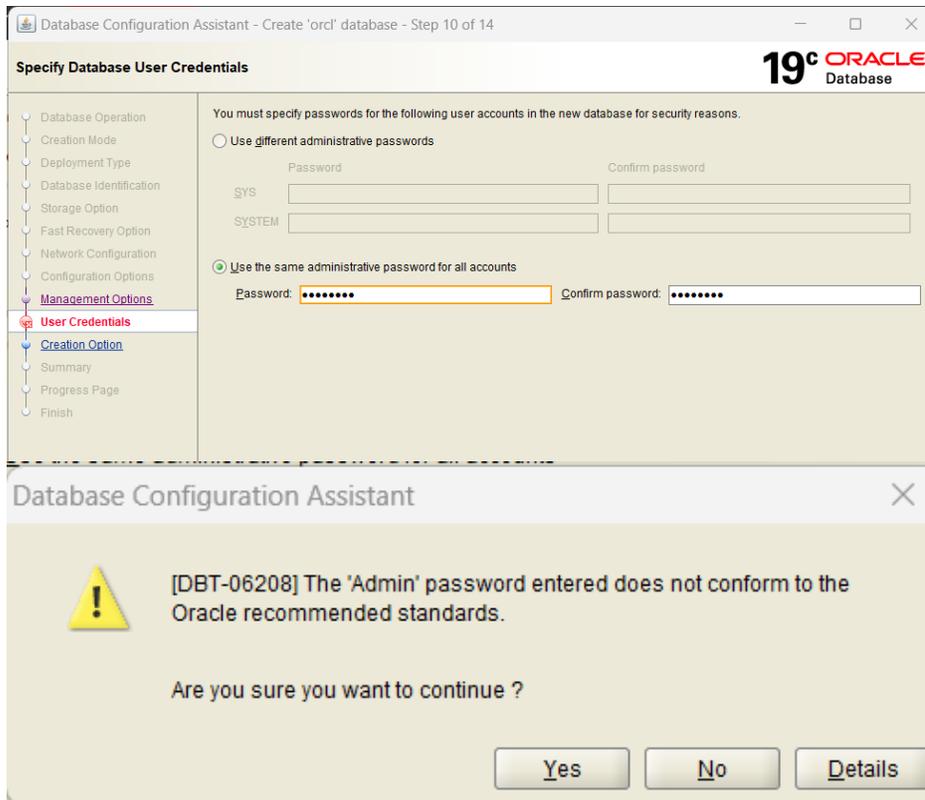
19. Keep the default values for the Configuration Options unless you are familiar with the impact that changing a value may cause



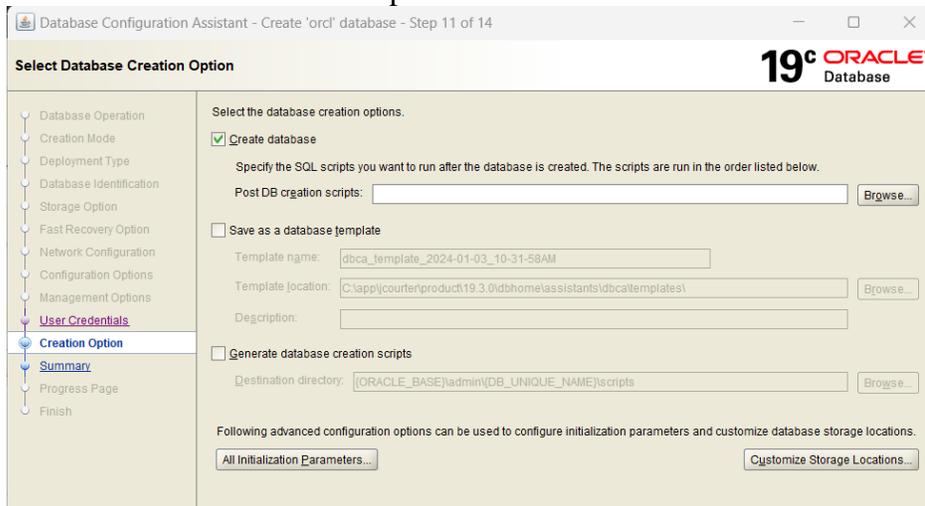
20. For Management Options, deselect "Configure Enterprise Manager (EM) database Express" and the select the "Next" button



21. For "User Credentials", select "Use the same administrative password for all accounts". For the password, use "**password**". A warning will be thrown that the password does not conform to Oracle's recommended password complexity. Click "Yes" to continue despite the warning

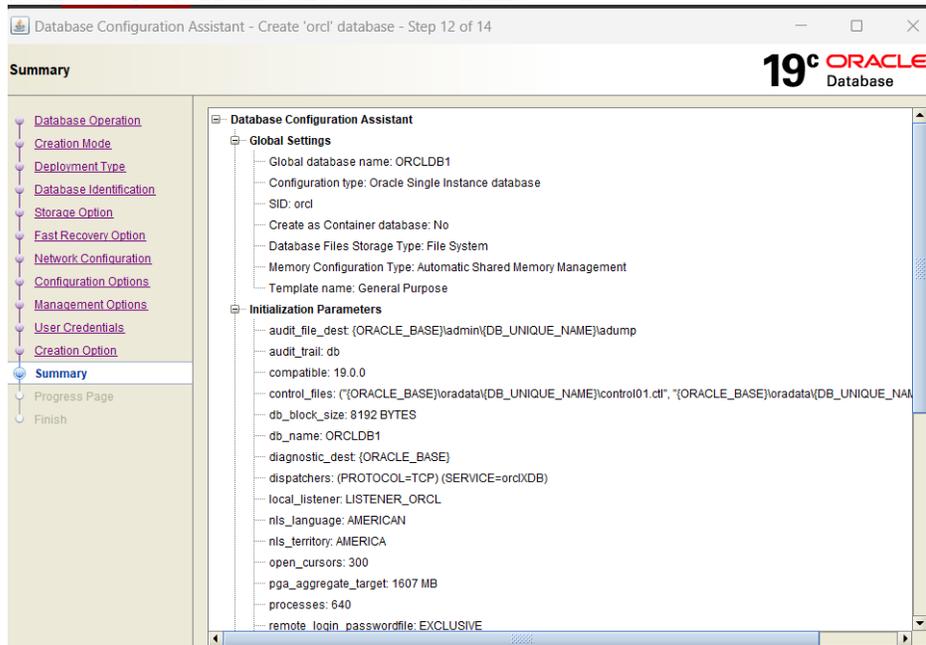


22. Select the "Create database" option and then click "Next".

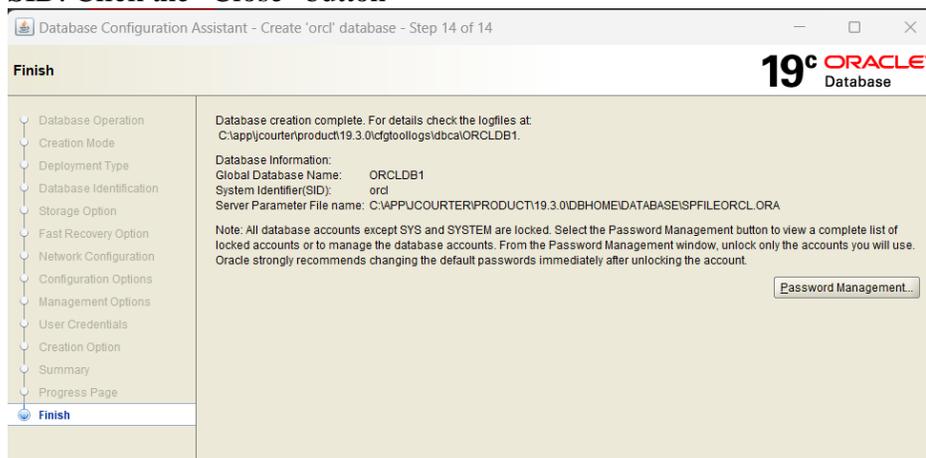


23. A Summary will be provided based on the information you have provided. It is recommended that you save the values listed here as they contain important information

such as Oracle Home and database name



24. Click "Finish" to start the process of creating the database. Once complete, you will see the screen below. It again lists important information such as global database name and SID. Click the "Close" button



25. With installation done, we can check the SQL Connection. Open a command window and use the following command "sqlplus system/password@localhost:1521/ORCLDB1" - The value ORCLDB1 comes from **step 15**, Global database name. You should see a successful SQL connection without prompting you for any other information such as user

name or password

```
Command Prompt - sqlplus s x + v
Microsoft Windows [Version 10.0.22621.2792]
(c) Microsoft Corporation. All rights reserved.

C:\Users\jcourter>sqlplus system/password@localhost:1521/ORCLDB1

SQL*Plus: Release 19.0.0.0.0 - Production on Wed Jan 3 11:08:59 2024
Version 19.3.0.0.0

Copyright (c) 1982, 2019, Oracle. All rights reserved.

Connected to:
Oracle Database 19c Standard Edition 2 Release 19.0.0.0.0 - Production
Version 19.3.0.0.0

SQL>
```

26. Check that the TNS Listener is running as expected. Open a command prompt as an Admin and run the command "**lsnrctl status**". You should see the following information

```
LSNRCTL for 64-bit Windows: Version 19.0.0.0.0 - Production on 03-JAN-2024 11:10:38

Copyright (c) 1991, 2019, Oracle. All rights reserved.

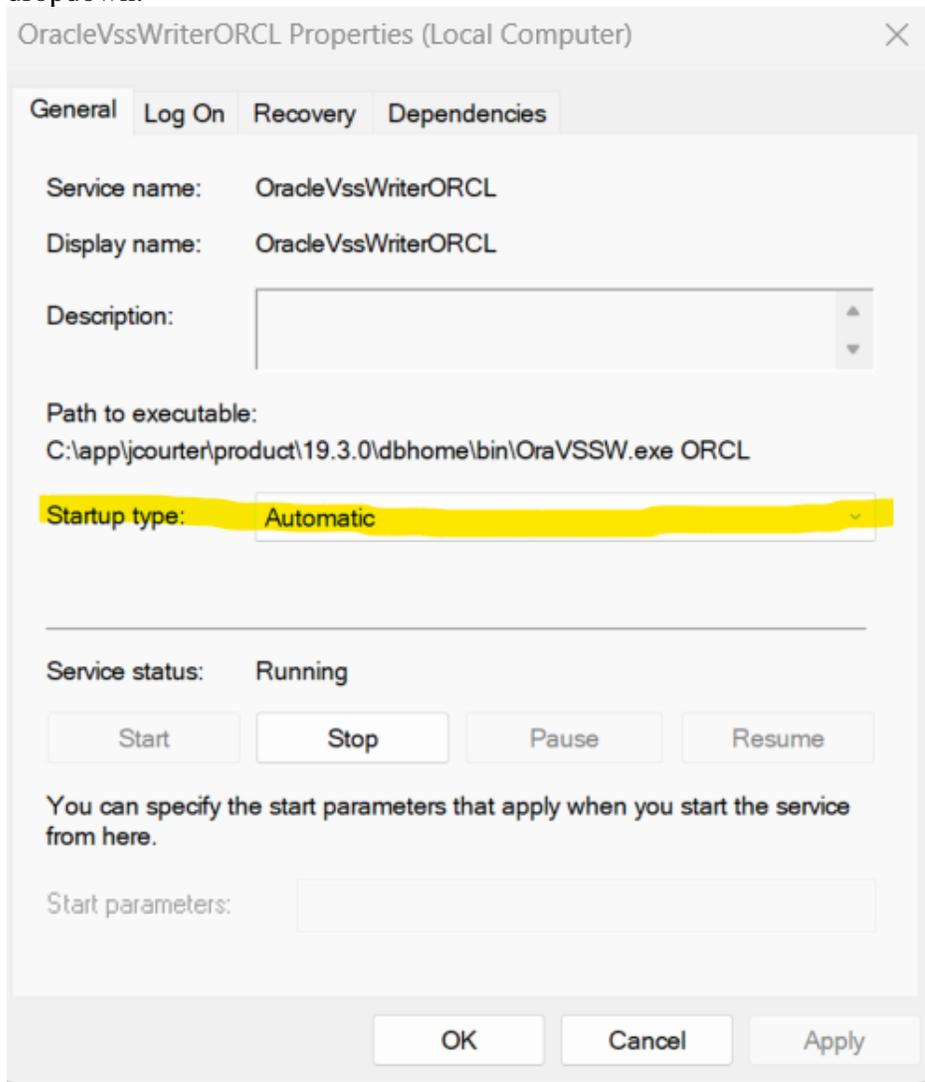
Connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=host.docker.internal)(PORT=1521)))
STATUS of the LISTENER
-----
Alias                     LISTENER
Version                   TNSLSNR for 64-bit Windows: Version 19.0.0.0.0 - Production
Start Date                03-JAN-2024 10:56:50
Uptime                    0 days 0 hr. 13 min. 51 sec
Trace Level               off
Security                  ON: Local OS Authentication
SNMP                      OFF
Listener Parameter File   C:\app\jcourter\product\19.3.0\dbhome\network\admin\listener.ora
Listener Log File         C:\app\jcourter\product\19.3.0\diag\tnslsnr\lap-jcourter\listener\alert\log.xml
Listening Endpoints Summary...
  (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=lap-jcourter.elogex.com)(PORT=1521)))
  (DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(PIPENAME=\\.\pipe\EXTPROC1521ipc)))
Services Summary...
Service "CLRExtProc" has 1 instance(s).
  Instance "CLRExtProc", status UNKNOWN, has 1 handler(s) for this service...
Service "ORCLDB1" has 1 instance(s).
  Instance "orcl", status READY, has 1 handler(s) for this service...
Service "orclXDB" has 1 instance(s).
  Instance "orcl", status READY, has 1 handler(s) for this service...
The command completed successfully
```

27. Double check that the Oracle services that have been created are scheduled to run automatically. To do this, press "Windows Key + r" to open the run prompt. Type in services.msc and press enter. Find the following entries and ensure the Startup Type is set to Automatic:

1. OracleOraDB19Home1TNSListener
2. OracleServiceORCL
3. OracleVssWriterORCL

28. If one of the entries above does not have "Automatic" set for the Startup Type, right-click the attribute, select "Properties", and set the "Startup type" to Automatic from the

dropdown.



29. At this point, Oracle 19c is installed and you are able to download the SDK