Oracle 19c Installation

- 1. Download Oracle 19c from <u>https://www.oracle.com/database/technologies/oracle19c-windows-downloads.html</u>
- 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.

🛓 Oracle Database 19c Insta	aller - Step 2 of 9	- 🗆 X
Select Database Installation	Option	19° ORACLE Database
Representation Option	Select the type of database installation you want to perform.	
Database Installation Options	Single instance database installation	
💻 Install Type	Oracle Real Application Clusters database installation	
 Oracle Home User 	0	
Installation Location		
 Prerequisite Checks 		
Summary		
Install Product		
5 Finish		
•		
Help		<back next=""> Install Cancel</back>

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

🛓 Oracle Database 19c Installer - S	itep 3 of 9	—	
Select Database Edition		19 °	Database
Configuration Option Database installation Options Oracle Home User Installation Location Prerequisite Checks Summary Instal Product Finish	n database edition do you want to instali? Iterprise Edition ade Database 19c Enterprise Edition is a self-managing data curity features required to run the most demanding, mission-c andard Edition 2 ade Database 19c Standard Edition 2 is a full-featured data m sinesses.	base that has the scalability, performance, high a ritical applications.	vailability, and f medium-sized
		< Back Next >	nstall Cancel

The select obe thread the sound and energine sound outlos	7.	Select	"Use	Virtual	Account"	and click	the	"Next"	button
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🛓 Oracle Database 19c Inst	taller - Step 4 of 9 — 🗆 🗙
Specify Oracle Home User	19° CRACLE Database
Configuration Option Database Installation Options Database Edition Oracle Home User Installation Loser Prerequisite Checks Summary Install Product Finish	Or 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 Use gisting Windows User User Rame: gaseword Greate New Windows User Uger Name: Gassword Grate New Windows User User Vindows User User User Vindows User Use
•	
Help	< <u>Back</u> Next> Install Cancel

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".

1	Oracle Database 19c Insta	aller - Step 5 of 9 —		×
Sp	ecify Installation Location	19°	DRA	e E LE .
ŤŤŤ	Configuration Option Database Installation Options Database Edition	Specify a path to place all Oracle software and configuration-related files installed by this installation owner. This locati base directory for the installation owner. Qracle base: Ctappicourter/product19.3.0	on is the O	racle wse
-	Oracle Home User Installation Location	This software directory is the Oracle Database home directory.		
+ − − − − − − − − − − − − − − − − − − −	Summary Install Product Finish	Software location: C:\app\jcourteriproduct19.3.0idbhome		
•	► Help	<back next=""> Ins</back>	tall	Cancel

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

🛓 Oracle Database 19c Insta	ller - Step 7 of 9	—		\times
Summary		19 °	ORAC Database	LE.
Configuration Option Database Edition Oracle Home User Installation Location Prerequisite Checks Unstall Product Finish	Oracle Database 19c Installer Global settings Oracle Home User: Virtual Account [Edit] Database edition: Standard Edition 2 (Set Up Software Only) [Edit] Oracle base: Chappicounter/product19.3.0 [Edit] Software location: Chappicounter/product19.3.0 Odbhome OraMTS Port Number: 49152			
		Sa	ve Response f	File
Help	< <u>B</u> ack	: Next > In	stall Ca	ancel

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

\$	Oracle Database 19c Inst	ıller - Step 9 of 9 − □ ×
Fir	nish	19° DATABASE
兇	Configuration Option	The registration of Oracle Database was successful.
k	Database Installation Options	
Ý	Database Edition	
ģ	Oracle Home User	
ģ	Installation Location	
ģ	Prerequisite Checks	
ģ	Summary	
Ý	Install Product	
6	Finish	

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

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$\leftarrow \rightarrow \uparrow \complement$	Q	> ··· app > jcourter > product >	19.3.0 > dbhom	e ≻ bin ≻	Sei	arch bin	٩
🕀 New - 🔏 🗘	lì		ew ~ •••			De	etails
	*	□ Name	Date modified	Туре	Size		
Developer Advocate	*	Cryptocme.sig	1/3/2024 9:44 AM	SIG File	3 KB		1
Documents	*	Ctxhx.exe	1/3/2024 9:44 AM	Application	126 KB		
Rictures	*	ctxkbtc.exe	1/3/2024 9:44 AM	Application	661 KB		
🚞 bin	- e	ctxic.exe	1/3/2024 9:44 AM	Application	592 KB		
views		ctxload.exe	1/3/2024 9:44 AM	Application	274 KB		
🚱 Music		🛃 🕞 dbca.bat	1/3/2024 10:28 AM	Windows Batch File	3 KB		
📔 Videos	*	🗋 dbca.cl	1/3/2024 10:28 AM	CL File	2 KB		

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

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

Database Configuration	Assistant - Application - Step 1 of 14	- L X
Select Database Operatio	n	19° DRACLE Database
Database Operation	Select the operation that you want to perform.	
Creation Mode Deployment Type Database Identification Storage Option Database Options Configuration Options Management Options User Credentiats Creation Option Summary Progress Page Finish	Greate a dalabase Configure an existing database Delete database Manage templates Manage Pluggable databases Oracle RAC database Instance management	
Help		< Back Next > Finish Cancel

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

Database Configuration Select Database Creation M	Assistant - Create a database - Node	Step 2 of 14	- • ×
Database Operation Creation Mode Database Identification Storage Option Database Identification Database Options Configuration Options Management Options User Credentials Creation Option Summary Progress Page Finish	Dylical configuration Global database name: Storage type: Database files location: Fast Recovery Area (FRA): Database gharacter set Administrative password: Confirm gassword: Confirm gassword: Orgate as Container datal Pluggable database name Image: Adganced configuration	orcl.docker.internal File System [ORACLE_BASE]/oradata(IDB_UNIQUE_NAME) [ORACLE_BASE]/tast_recovery_area(DB_UNIQUE_NAME) [AL32UTF8 - Unicode UTF-8 Universal character set [Browse Browse Browse
Help		< Back	Next > Einish Cancel

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

\$	Database Configuration A	—	\Box \times		
Se	elect Database Deploymen	19 °	Database		
() - C	Database Operation <u>Creation Mode</u> Deployment Type	Select the type of da	tabase you want to create. Oracle Single Instance database		
	Database Identification Storage Option Fast Recovery Option Database Options Configuration Options	Configuration type: Select a template for Templates that includatafiles only when	Admin Managed ryour database. Ide datafiles contain pre-created databases. They allow you to create a createsary, such as when you need to change attributes like block size	new database quickly. Us that cannot be altered afte	e templates without r database creation.
0-0-0-0-0-0	Management Options User Credentials Creation Option Summary Progress Page Finish	Data Warehous General Purpos Custom Databa	Template name e or Transaction Processing se	Include datafiles Yes Yes No	Details View details View details View details

- 15. Deselect the option "Create as Container database". Set your "Global database name" and "SID" values as follows:
 - Global database name = ORCLDB1
 - \circ SID = orcl
 - **IMPORTANT** Record these values. Global database name will be used within our local.properties file and during SDK install

Database Configuration A	Assistant - Create a data	abase - Step 4 of 14		_		\times
Specify Database Identifica	tion Details		19	9° (ORAC Database	LE.
Database Operation Creation Mode Deployment Type Database Identification Fast Recovery Option Database Options Configuration Options Management Options User Creation Option Summary Progress Page Finish	Provide a unique databas form "name.domain". Global database name: SID: Sgruice name: Create as Container of A Container databass wirtualization. A Contai Create an empty Create an empty Create a Container Nymber of PDBs: EDB name:	se identifier information. An Oracle database is uniquely ORCLDB1 orcl se can be used for consolidating multiple databases into iner database (CDB) can have zero or more pluggable d ablespace for PDBs Container database or database with one or more PDBs 1 = 1 = 3	identified by a Global database	e name,	Database typically of the	ne
Help			< Back Next >	Eini	ish C	ancel

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

Jatabase Configuration Assistant - Create 'orcl' database - Step 5 of 14				
select Database Storage Option				LE.
Use template file for database Storage type and location for of Processing). Use following for the databas All the database files will be p subsequent screen. Database files storage type: Database files torage type: Oracle Managed files option to management. Use Oracle-Managed File	e storage attributes database files will be picked up from the specified template (Gen- e storage attributes ut at the specified location below. You can customize the name a File System [(ORACLE_BASE) oradata(OB_UNIQUE_NAME) will enable Oracle to automatically generate the names of the data s (OMF)	and location of each of a second s	saction latafile in the	(Se
E	 istant - Create 'orcl' databas Use jemplate file for databas Storage type and location for of Processing). Use following for the databas All the database files will be p subsequent screen. Database files storage type: Database files location: Oracle Managed files option of management. Use Qracle-Managed File 	sistant - Create 'ord' database - Step 5 of 14 Use template file for database storage attributes Storage type and location for database files will be picked up from the specified template (Gene 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 a subsequent screen. Database files storage type: File System Database files location: [ORACLE_BASE]toradatat(DB_UNIQUE_NAME) Oracle Managed files option will enable Oracle to automatically generate the names of the data management. Use Qracle-Managed Files (OMF)	sistant - Create 'ord' database - Step 5 of 14 1900 1900 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 Tran 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 or subsequent screen. Database files location: [ORACLE_BASE]Joradata(DB_UNIQUE_NAME) Oracle Managed files option will enable Oracle to automatically generate the names of the datafiles for simplified d management. Use Qracle-Managed Files (OMF) Multiplex redo logs	sistant - Create 'orcl' database - Step 5 of 14

- 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 'orcl' database - Step 7 of 14 - - ×

Specify Network Configura	ation Details			19 °	Database
Database Operation Creation Mode	Listener selection	Oracle home are listed be	low. Specify the listener name a	and port to create a new listener in c	urrent Oracle home.
O Deployment Type	Name	Port	Ora	acle home	Status
Database Identification					
 Storage Option 					
Fast Recovery Option					
Network Configuration					
Configuration Options					
Management Options					
User Credentials					
Creation Option					
y Summary					
Progress Page					
5 Finish					
	Create a new lister	ner			
	Listener n <u>a</u> me:	LISTENER]	
	Listener <u>p</u> ort:	1521]	
	Oracle home: O	C:\app\jcourter\product\19.3	.0\dbhome	<i>.</i>	
Help				< Back Next > F	inish Cancel

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

Database Configuration A	Assistant - Create 'orcl' database - Step 8 of 14	- 🗆 X
Specify Configuration Option	ons	19° ORACLE Database
Database Operation Creation Mode Deployment Type Database Identification	Memory Sizing Character sets Connection mode Sample schemas Image: Signal Character sets Connection mode Sample schemas Image: Signal Character sets Connection mode Sample schemas Signal Size: 4821 Image: MB Image 3300 6	228 15071
Storage Option Fast Recovery Option	EGA Size: 1607 국 MB Use Manual Shared Memory Management Shared pgol size:	
Configuration Options Management Options User Credentials Creation Option	Buffer cache size: 0 + MB + Java pool size: 0 + MB + Large pool size: 0 + MB +	
V Summary Progress Page Finish	PGA size: 0 WB Total memory for database 0 MB	
	Memory target. 6428 MB 390 6	39% 428 16071

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

\$	Database Configuration A	- 🗆 X	
Spe	ecify Management Option	19° DRACLE Database	
	Database Operation Creation Mode Deployment Type Database Identification Storage Option Fast Recovery Option	Specify the management options for the database. Configure Enterprise Manager (EM) database express EM database express port Begister with Enterprise Manager (EM) cloud control QMS host.	
- -	Configuration Options Management Options	OMS port	
)	User Credentials Creation Option Summary Progress Page Finish	EM <u>a</u> dmin password:	

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

Database Configuration	on Assistant - Create 'orcl' database - Step 10 of 14 Credentials		19° ORACLE Database
Database Operation Creation Node Deployment Type Database Identification Storage Option Network Configuration Configuration Options User Credentials Creation Option Summary Progress Page Finish	You must specify passwords for the following user acc Use gifferent administrative passwords Password SYS SYSTEM © Use the same administrative password for all acco Password:	Confirm password	ns.
Database Cor	nfiguration Assistant		×
<u> </u>	[DBT-06208] The 'Admin' passwo Oracle recommended standards Are you sure you want to continue	ord entered does not c e ?	onform to the
		Yes <u>N</u>	Details

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

	j batababe configuration i		
Se	elect Database Creation C	Deption 19° Da	RACLE [®] tabase
	Database Operation Creation Mode Deployment Type Database Identification	Select the database creation options. Create database Specify the SQL scripts you want to run after the database is created. The scripts are run in the order listed below.	
IJ	Storage Option	Post DB creation scripts:	Browse
	Fast Recovery Option Network Configuration Configuration Options	Save as a database template Template ngme: dbca_template_2024-01-03_10-31-58AM	
J	Management Options	Template location: C:\app\jcourter\product\19.3.0\dbhome\assistants\dbca\templates\	Browse
	User Credentials	Description:	
	Creation Option Summary Progress Page	Qenerate database creation scripts Destination directory: [(ORACLE_BASE)tadmin(DB_UNIQUE_NAME)tscripts	Bro <u>w</u> se
	Finish	Following advanced configuration options can be used to configure initialization parameters and customize database stor All Initialization Parameters	age locations. e Locations

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

🛓 Database Configuration	Assistant - Create 'orcl' database - Step 12 of 14 - 🛛 🕹 🕹
Summary	19° DRACLE Database
Database Operation Creation Mode Deployment Type Database Identification Storage Option East Recovery Option Network Configuration Configuration Options User Credentials Creation Option Summary Progress Page Finish	

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

Database Configuration	Assistant - Create 'orcl' database - Step 14 of 14 - 🛛 🗙
Finish	19° Database
 Database Operation Creation Mode Deployment Type Database Identification Storage Option Fast Recovery Option Network Configuration Configuration Options User Credentials Creation Option Summary Progress Page Finish 	Database creation complete. For details check the logfiles at C:tappi/courter/product19.3.0/c/gtoollogs/dbca/ORCLDB1. Database Information: Global Database Name: ORCLDB1 System Identifier(SID): ord Server Parameter File name: C:WPPUCOURTER/PRODUCT19.3.0/DBHOMEIDATABASE/SPFILEORCL.ORA Note: All database accounts create 19YS and SYSTEM are locked. Select the Password Management budow, unlock only the accounts you will use. Oracle strongly recommends changing the default passwords immediately after unlocking the account. <u>Password ManagementL.</u>

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



26. Check that the TNS Listener is running as expected. Open a command prompt as an Admin and run the command "**Isnrctl status**". You should see the following information LSNRCTL for 64-bit Windows: Version 19.0.0.0 - Production on 03-JAN-2024 11:10:38

Copyright (c) 1991, 2019,	Oracle. All rights reserved.				
Connecting to (DESCRIPTIO STATUS of the LISTENER	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 Summa	ry				
(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.

OracleVs	sWriterOf	RCL Proper	ties (Local Com	iputer)	\times	
General	Log On	Recovery	Dependencies			
Service	name:	OracleVss\	VriterORCL			
Display	name:	OracleVss\	VriterORCL			
Descrip	tion:				*	
Path to C:\app\	executable jcourter\pro	e: oduct\19.3.0	\dbhome\bin\Ora	VSSW.exe ORCI	L	
Startup	type:	Automatic			~	
Service	status:	Running				
S	Start	Stop	Pa	ause F	Resume	
You can specify the start parameters that apply when you start the service from here.						
Start pa	rameters:					
			ОК	Cancel	Apply	

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