Oracle 19c Installation

• Before installing the oracle database it's a good practice to update the package lists on your system using the update command.

sudo apt update

• To Clone the repository to your server use the following command.

git clone https://github.com/oracle/docker-images.git

```
chandrababu@DESKTOP-C275ADE:~$ git clone https://github.com/oracle/docker-images.git
Cloning into 'docker-images'...
remote: Enumerating objects: 17180, done.
remote: Counting objects: 100% (1872/1872), done.
remote: Compressing objects: 100% (450/450), done.
remote: Total 17180 (delta 1536), reused 1603 (delta 1399), pack-reused 15308
Receiving objects: 100% (17180/17180), 10.80 MiB | 3.25 MiB/s, done.
Resolving deltas: 100% (10122/10122), done.
```

The repository has been successfully cloned to our server

cd docker-images/

Go to the docker-images as shown below.

```
Chandrababu@DESKTOP-C275ADE:~$ cd docker-images/
Chandrababu@DESKTOP-C275ADE:~/docker-images$ ls

Archive NoSQL OracleEssbase OracleLinuxDevelopers OracleUnifiedDirectorySM SECURITY.md

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```

cd docker-images/OracleDatabase/SingleInstance/dockerfiles/19.3.0/ls

```
chandrababu@DESKTOP-C275ADE:~/docker-images/OracleDatabase/SingleInstance/dockerfiles/19.3.0$ ls

Checksum.ee Dockerfile configTcps.sh db_inst.rsp relinkOracleBinary.sh setPassword.sh

Checksum.ee.arm64 checkDBStatus.sh createDB.sh dbca.rsp.tmpl runOracle.sh setupLinuxEnv.sh

Checksum.se2 checkSpace.sh createObserver.sh installDBBinaries.sh runUserScripts.sh startDB.sh
```

- Download the Oracle Database 19c binary from http://www.oracle.com/technetwork/database/enterprise-edition/downloads/index.html
 - o For X86, get LINUX.X64_193000_db_home.zip.
 - o For ARM, get LINUX.ARM64_1919000_db_home.zip.

https://www.oracle.com/database/technologies/oracle-database-software-downlo ads.html#db free

• Once the oracle database 19c binary is downloaded. You can build the image.

```
chandrababu@DESKTOP-C275ADE:~/docker-images/OracleDatabase/SingleInstance/dockerfiles/19.3.0$ lsChecksum.eeDockerfilecheckSpace.shcreateObserver.shinstallDBBinaries.shrunUserScripts.shstartDB.shChecksum.ee.arm64LINUX.X64_193000_db_home.zipconfigTcps.shdb_inst.rsprelinkOracleBinary.shsetPassword.shChecksum.se2checkDBStatus.shcreateDB.shdbca.rsp.tmplrunOracle.shsetupLinuxEnv.sh
```

./buildcontainerimage.sh -e -v 19.3.0

• With the command provided above, you can build the oracle docker image.

• Once the image has been downloaded successfully. You can create the docker container using the docker image.

```
docker run -d --name oracle2 -p 1521:1521 -p 5500:5500 -e ORACLE_SID=ORCL -e ORACLE_PDB=ORCLCDB -e ORACLE_PWD=Chandu0616 oracle/database:19.3.0-ee
```

• Check the docker container using docker ps command.

```
chandrababu@DESKTOP-C275ADE:-$ docker run -d --name oracle2 -p 1521:1521 -p 5500:5500 -e ORACLE_SID=ORCL -e ORACLE_PWD=Chandu0616 or acle/database:19.3.0-ee
7a1df482fc8fe8fae0451826612e68ec78f4b43999bc43d647639f969fddc071
chandrababu@DESKTOP-C275ADE:-$ docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS
NAMES
7a1df482fc8f oracle/database:19.3.0-ee "/bin/bash -c 'exec ..." 7 seconds ago Up 6 seconds (health: starting) 0.0.0.0:1521->1
521/tcp, 0.0.0.0:5500->5500/tcp oracle2
```

docker logs -f 7a1df482fc8f

```
chandrababu@DESKTOP-C275ADE:~$ docker logs -f 7a1df482fc8f

ORACLE EDITION: ENTERPRISE

LSNRCTL for Linux: Version 19.0.0.0.0 - Production on 09-SEP-2023 09:35:23

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Starting /opt/oracle/product/19c/dbhome_1/bin/tnslsnr: please wait...

TNSLSNR for Linux: Version 19.0.0.0 - Production
System parameter file is /opt/oracle/product/19c/dbhome_1/network/admin/listener.ora
Log messages written to /opt/oracle/diag/tnslsnr/7a1df482fc8f/listener/alert/log.xml
Listening on: (DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=EXTPROC1)))
Listening on: (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=0.0.0.0)(PORT=1521)))
```

 Once the docker container has been running we can connect to the oracle database using the following command.

```
docker exec -it oracle2 /bin/bash
```

chandrababu@DESKTOP-C275ADE:~\$ docker exec -it oracle2 /bin/bash

 After that you need to run the sqlplus command with username and password.

sqlplus sys/Chandu0616@ORCL as sysdba

```
bash-4.2$ sqlplus sys/Chandu0616@ORCL as sysdba

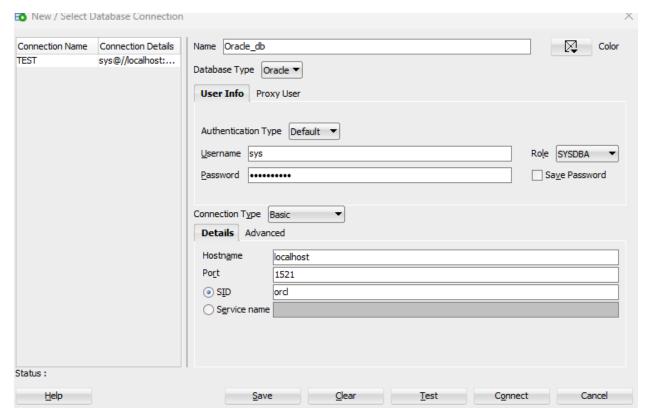
SQL*Plus: Release 19.0.0.0.0 - Production on Sun Sep 10 14:07:33 2023

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
```

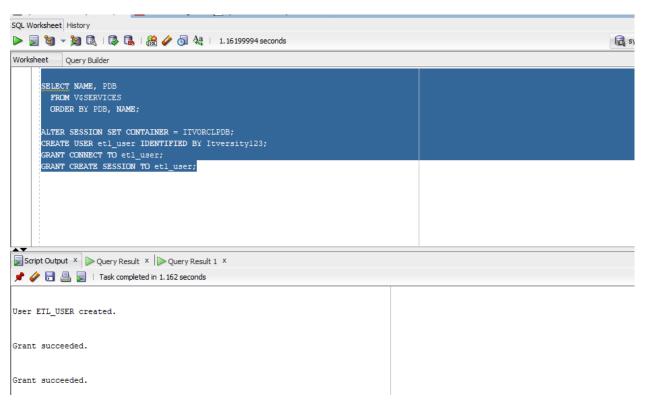
• Once the user is created you can connect to the sql developer tool using username and password.



• After logging in to the sql developer you can create another user using the following command.

```
SELECT NAME, PDB
FROM V$SERVICES
ORDER BY PDB, NAME;

ALTER SESSION SET CONTAINER = ITVORCLPDB;
CREATE USER etl_user IDENTIFIED BY Itversity123;
GRANT CONNECT TO etl_user;
GRANT CREATE SESSION TO etl_user;
ALTER USER etl_user QUOTA UNLIMITED ON USERS;
GRANT ALL PRIVILEGES TO etl_user IDENTIFIED BY Itversity123;
```



• Once a new user is created we can connect to the new user using the following command.

