1 Introduction :

This documentation has for purpose to guide people to easily download oracle data base using docker in linux

2 Requirements :

Installing Docker

Arch Based :
sudo pacman -S docker

Debian and Ubuntu Based :
sudo apt install apt-transport-https ca-certificates curl software-properties-common
curl -fsSL https://download.docker.com/linux/ubuntu/gpg — sudo apt-key add -
sudo add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu $(lsb_release -cs) stable"
sudo apt update
sudo apt install docker-ce

3 Docker :

3.1 Start Docker :

starting docker

Systemctl Distro (arch,ububtu,debian based) :
sudo systemctl start docker
sudo systemctl enable docker

3.2 Pulling Oracle Image :

Pulling oracle-xe

sudo docker pull gvenzl/oracle-xe

3.3 Enable Root Right

sudo usermod -aG docker $USER

3.4 Starting Oracle Container And Executing It :

sudo docker run -d -privileged -p 1521:1521 -e ORACLE_PASSWORD=<password>gvenzl/oracle-xe
sudo docker ps
sudo docker exec -it <container_id>bash

Exemple :

```
[rabah@chadArch oracle]$ sudo docker run -d --privileged -p 1521:1521 -e ORACLE_PASSWORD=1234 gvenzl/oracle-xe
1f93a69a3fbc956ee53cdaecde1656859df139c51aed9b3fa2aeac702ce0cb84

[rabah@chadArch oracle]$ sudo docker ps
CONTAINER ID   IMAGE              COMMAND                 CREATED         STATUS
1f93a69a3fbc   gvenzl/oracle-xe   "container-entrypoin..."   4 seconds ago   Up 2 seconds


 PORTS                                    NAMES
0.0.0.0:1521->1521/tcp, :::1521->1521/tcp   infallible_lamport


[rabah@chadArch oracle]$ sudo docker exec -it 1f93a69a3fbc bash
bash-4.4$
```

3.5 Setting Up Plugged Data Base (PDB) :

Finding SeedPath
sqlplus sys/1234@localhost/XE as sysdba
SELECT file_name FROM dba_data_files WHERE tablespace_name = 'SYSTEM';
expected output : /opt/oracle/oradata/XE/system01.dbf
exit;
Creating Folder For New PDB
cd /opt/oracle/oradata/XE
mkdir /opt/oracle/oradata/XE/TP_3BDD
sqlplus sys/1234@localhost/XE as sysdba
Creating And Altering To New PDB
CREATE   PLUGGABLE   DATABASE   TP_3BDD   ADMIN   USER   RABAH   IDENTIFIED   BY   1234
FILE_NAME_CONVERT('/opt/oracle/oradata/XE/XEPDB1/' , '/opt/oracle/oradata/XE/TP_3BDD');
ALTER PLUGGABLE DATABASE TP_3BDD OPEN;
exit;
sqlplus sys/1234@localhost/TP_3BDD as sysdba