1 Introduction:

This guide aims to help users easily download and set up Oracle Database using Docker on 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:

```
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:

Commands:

```
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

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):

Commands:

• Finding SeedPath:

```
sqlplus sys/<container_password>@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
```

sqlplus sys/1234@localhost/TP_3BDD 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/'
ALTER PLUGGABLE DATABASE TP_3BDD OPEN;
exit;
```