Standalone Database Creation

We can create oracle database using graphical method, silent method and Manual method

Pre-Checks:

Oracle Installation Prerequisites

Perform either the Automatic Setup or the Manual Setup to complete the basic prerequisites. The Additional Setup is required for all installations.

1. Oracle Database Software should be installed on the server.

2. Automatic Setup

If our plan to use the "oracle-database-preinstall-19c" package to perform all your prerequisite setup, issue the following command.

yum install -y oracle-database-preinstall19c

3. Sufficient space should be there on the server.

4. RAM, SWAP and TEMP memory as per below

RAM	2GB is recommended by oracle	-	-
SWAP	Swap space allocation relative to RAM	RAM 2GB to 16 GB	RAM 16GB
	RAM 1GB to 2 GB RAM	Equal to the size of the RAM	SWAP 16GB
	1.5 times the size of the RAM		
TEMP	568 MB recommended by oracle	-	-

5. Space for ORACLE database as per below.

ORACLE INVENTORY	53 MB recommended by oracle
ORACLE_HOME	6.5 GB recommended by oracle
DATAFILES(FRA,admin,logs)	4.5 GB recommended by oracle

- 6. Set the default file mode creation mask (umask) to 022 in the shell startup file.
- 7. Set the DISPLAY environment variable --> export DISPLAY=:0.0

```
oracle@swatos ~]$
 u01/app/oracle/product/19.3.0/db_1/bin/sqlplus
oracle@swatos ~]$
oracle@swatos ~]$ sqlplus -v
SOL*Plus: Release 19.0.0.0.0 - Production
Version 19.3.0.0.0
[oracle@swatos ~]$
oracle@swatos ~]$ env|grep ORA
 ACLE_SID=orcl
 RACLE_HOME=/u01/app/oracle/product/19.3.0/db_1
oracle@swatos ~]$
oracle@swatos ~]$ echo $PATH
u01/app/oracle/product/19.3.0/db_1/bin:/u01/app/oracle/product/19.3.0/db_1/OPatch:/usr/local/bin:/usr/bin:/usr/local/sbin:
oracle@swatos ~1$
 oracle@swatos ~]$
oracle@swatos ~]$ cd $ORACLE HOME/bin
oracle@swatos bin]$
 oracle@swatos bin]$ ./dbca
 oracle@swatos bin]$
 oracle@swatos bin|$
 oracle@swatos bin]$
oracle@swatos bin]$
oracle@swatos bin]$ export DISPLAY=:0.0
 oracle@swatos bin]$
 oracle@swatos bin]$ ./dbca
```

Now we can start the actual database installation now,

1. Set the ENVIRONMENT VARIABLES

ORACLE_HOME, PATH, ORACLE_BASE etc.

```
export ORACLE_BASE=

export ORACLE_HOME=

export PATH=$ORACLE_HOME/bin:$PATH
```

2. Verify the software details using below commands

```
which sqlplus
```

3. Now go to the bin directory and start database creation using dbca (graphical method)

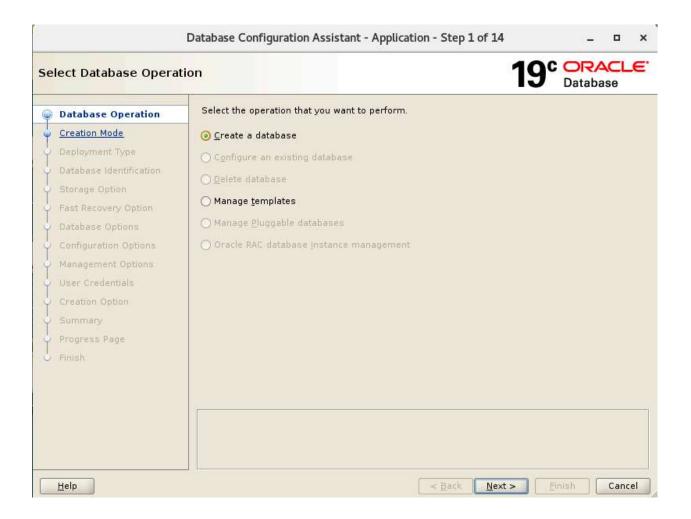
```
Cd $ORACLE_HOME/bin
./dbca
```

1. Step 1

The installer asks to provide an email address to get the latest security issues and updates. We can **ignore** it by clicking the **Next button**

2. Step 2

In step 2, the Oracle installer asks whether we want to **create database** and manage templates. Because we are installing the Oracle database for the first time, **choose option 1** and **click the Next** button.

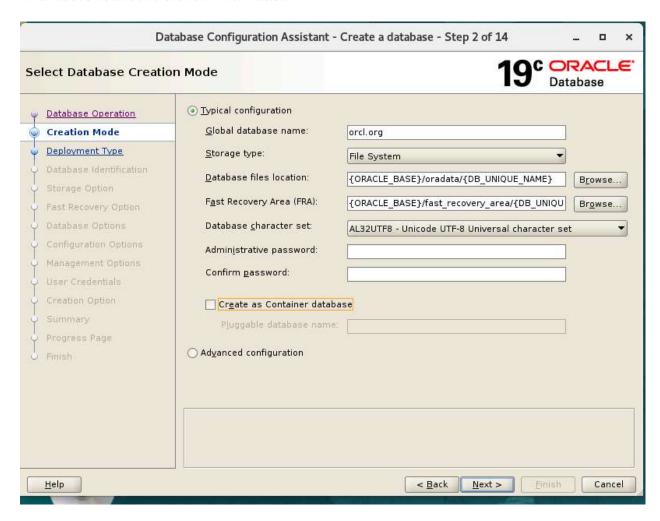


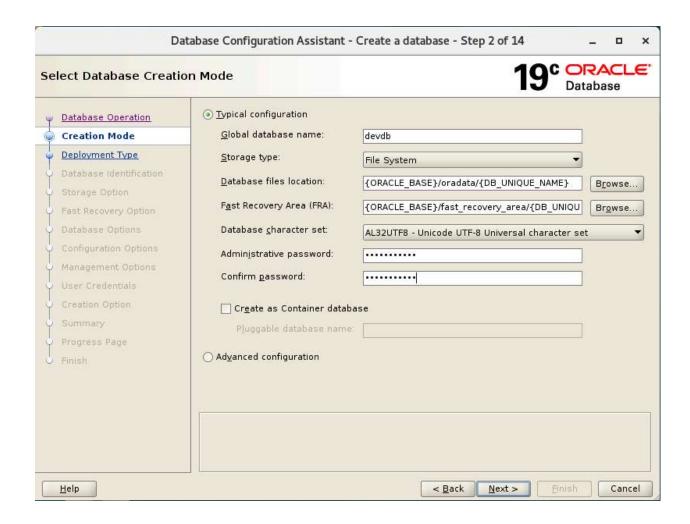
3. Step 3

in this step we can

- (1) Chose Database Name, storage type (ASM or File System),
- (2) Choose the folder on which Oracle database will be installed,
- (3) Global database name and password,
- (4) pluggable database name.(Optional)

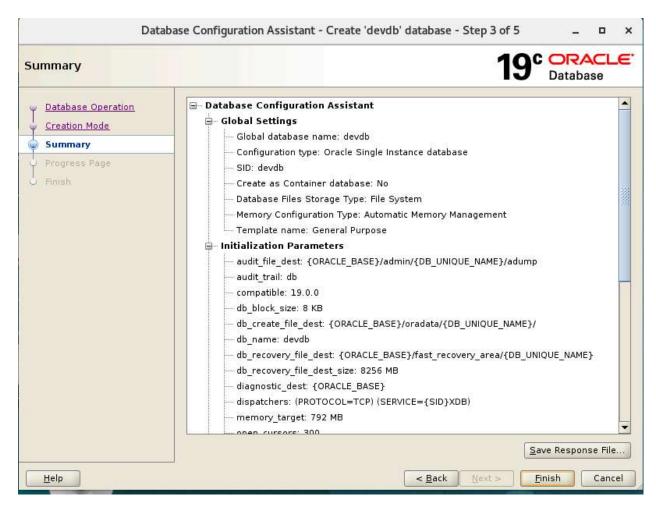
Fill all above details and click on **NEXT Button**

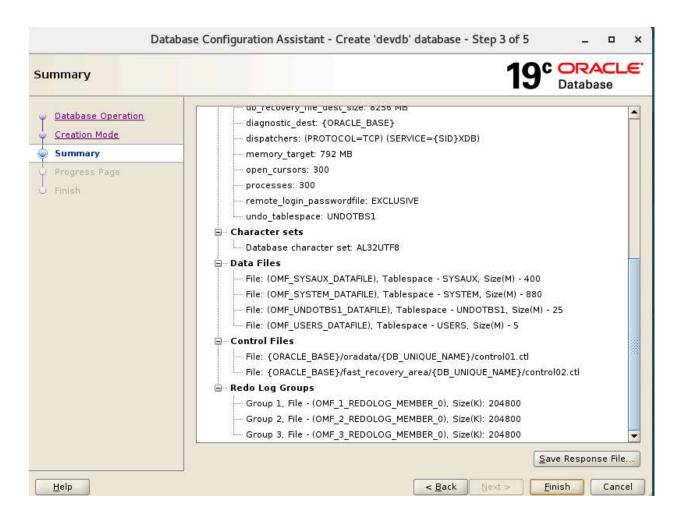




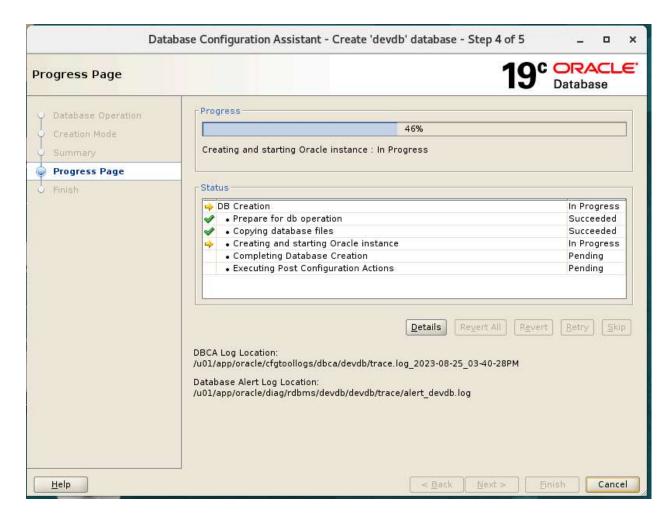
4. Step 4

The installer shows us the summary of the information such as global settings, database information, etc. We need to review the information and **click the Finish button** if everything is fine.





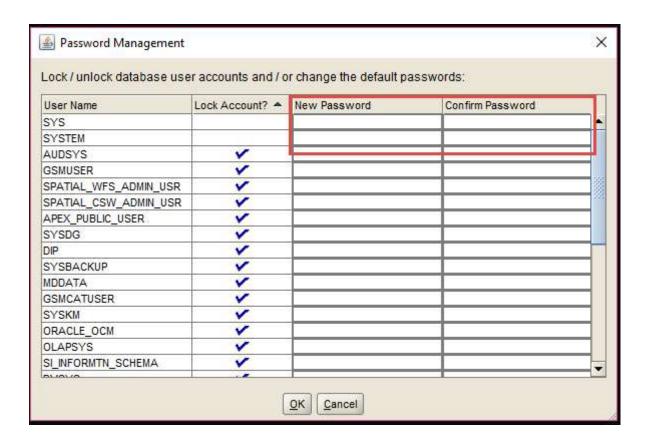
The installer starts installing the Oracle database. It will take a few minutes to complete, depending on our computer.



We will see the Database Configuration Assistant window. Click the *Password management...* button to enter the password for Oracle database accounts.



Enter the password for SYS and SYSTEM accounts and then click the OK button.



5. Now connect to the database and check details.

```
export ORACLE_SID=
sqlplus / as sysdba
```

```
[oracle@swatos bin]$ export ORACLE SID=devdb
oracle@swatos bin]$
oracle@swatos bin]$ sqlplus / as sysdba
5QL*Plus: Release 19.0.0.0.0 - Production on Fri Aug 25 17:05:53 2023
Version 19.3.0.0.0
Copyright (c) 1982, 2019, Oracle. All rights reserved.
Connected to:
racle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production
Version 19.3.0.0.0
SQL>
SQL> select name, open mode, log mode, status from v$database, v$instance;
NAME
         OPEN MODE
                               LOG MODE
                                            STATUS
EVDB
         READ WRITE
                              NOARCHIVELOG OPEN
```