Installation of Oracle 19c with ASM on RedHat Linux 8.4

In this Document we will start with Redhat linux 8.4 installation, then move to apply the prerequisites for both GI and DB, after that we going to proceed to Oracle Grid Infrastructure installation with ASM then Oracle 19.3 Database software only installation, once we finish the installation, we will create database.

Software used

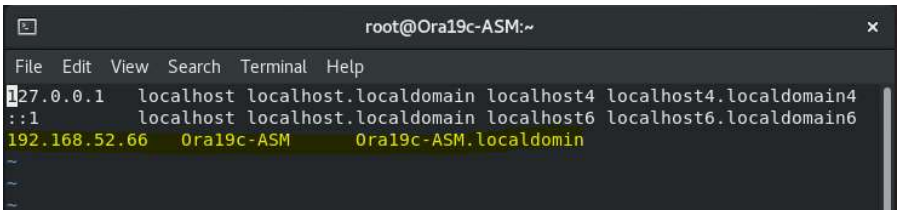
1. Redhat Linux 8.4
2. Oracle 19.3 Grid Infrastructure (GI)
3. Oracle 19.3 Database (DB)
   https://www.oracle.com/database/technologies/oracle19c-linux-downloads.html
4. VMWARE / vSphere 7.3
5. VM Resources
   8 GB Ram
   4 Core CPU
   40 GB disk for OS
   5 GB disk for OCR
   30 GB disk for DATA

Steps to be performed

1. Prepare OS for Grid and DB Installation.
2. Installation of Oracle Grid Infrastructure 19.3 software
3. Create Data and FRA Disk.
4. Installation of Oracle Software
5. Using dbca, creating database.
6. Linux commands used in configuration

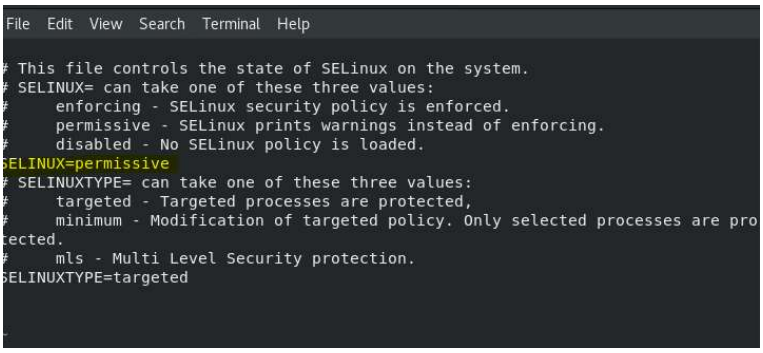
1). Preparing Linux OS for Oracle Installation.

a). updating /etc/hosts with required hostname



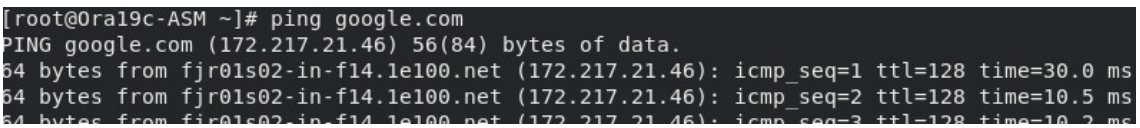
b). setting firewall/disabling

vi /etc/selinux/config
SELINUX=permissive

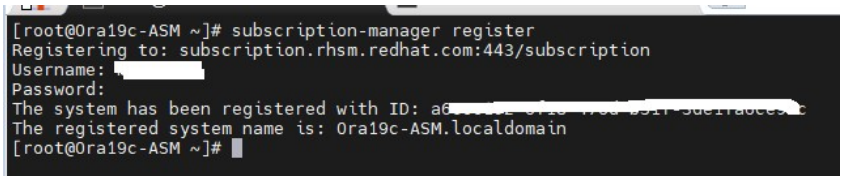


firewall-cmd --state
systemctl stop firewalld
systemctl disable firewalld

c). Updating DNS resolver file (if not reaching to RedHat repositories)

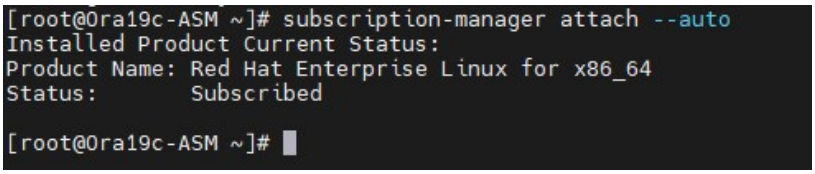


d). Register with redhat subscription to get packages



After registration, use the following command to attach any available subscription that matches the current system.

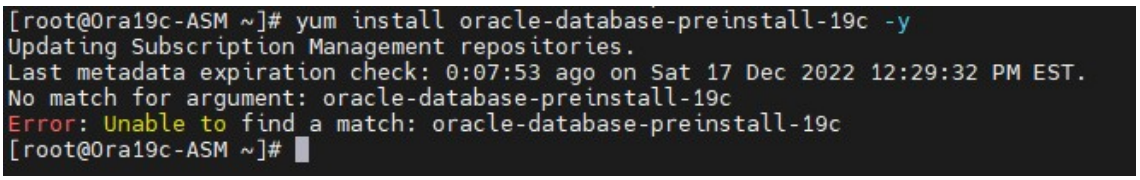
subscription-manager attach --auto



 # Install oracle prerequisites

yum install oracle-database-preinstall-19c -y

if in case it fails then



Then run following command to update the repository

--skip-broken will skip all unresolved dependencies

yum update -y --skip-broken

While using RHEL8 or CentOS8, you can pick up the RPM from the OL8 repository and install it. It will pull the dependencies from your normal repositories.

sudo wget https://public-yum.oracle.com/repo/OracleLinux/OL8/appstream/x86_64/getPackage/oracle-database-preinstall-19c-1.0-1.el8.x86_64.rpm

sudo wget https://public-yum.oracle.com/repo/OracleLinux/OL8/appstream/x86_64/getPackage/oracle-database-preinstall-19c-1.0-2.el8.x86_64.rpm

sudo dnf -y localinstall oracle-database-preinstall-19c-1.0-1.el8.x86_64.rpm
sudo dnf -y localinstall oracle-database-preinstall-19c-1.0-2.el8.x86_64.rpm

Do a reboot

Setting up Environment Variables for OS Accounts: grid and oracle

oracle-database-preinstall created “oracle” user.

Change the password for oracle user.
 # passwd oracle
Connect/switch with oracle user

Create grid user and related groups

su -
groupadd asmadmin
groupadd oinstall
groupadd asmdba
usermod -g oinstall oracle
usermod -a -G asmdba oracle
useradd -u 54323 -g oinstall -G asmadmin,asmdba grid
passwd grid

Create Oracle/Grid home directories
mkdir -p /u01/app/oracle/product/19.0.0/db_1
mkdir -p /u01/app/grid
mkdir -p /u01/app/19.0.0/grid
chown -R grid:oinstall /u01
chown -R oracle:oinstall /u01/app/oracle
chmod -R 775 /u01

Change grid user password
#passwd grid

Update .bash_profile for oracle user

su - oracle
mv ~/.bash_profile ~/.bash_profile_bkp

Open the .bash_profile file with the vi editor
vi ~/.bash_profile

Paste following code in new .bash_profile
vi .bash_profile

```
# .bash_profile
# OS User: oracle
# Application: Oracle Database Software Owner
# Version: Oracle 19c
# ----------------------------------------------------
# Get the aliases and functions
if [ -f ~/.bashrc ]; then
. ~/.bashrc
fi
ORACLE_BASE=/u01/app/oracle; export ORACLE_BASE
ORACLE_SID=oradb; export ORACLE_SID
ORACLE_HOME=$ORACLE_BASE/product/19.0.0/db_1; export ORACLE_HOME
NLS_DATE_FORMAT="DD-MON-YYYY HH24:MI:SS"; export NLS_DATE_FORMAT
TNS_ADMIN=$ORACLE_HOME/network/admin; export TNS_ADMIN
PATH=$PATH:$HOME/.local/bin:$HOME/bin
PATH=${PATH}:/usr/bin:/bin:/usr/local/bin
PATH=.:${PATH}:$ORACLE_HOME/bin
export PATH
LD_LIBRARY_PATH=$ORACLE_HOME/lib
LD_LIBRARY_PATH=${LD_LIBRARY_PATH}:$ORACLE_HOME/oracm/lib
LD_LIBRARY_PATH=${LD_LIBRARY_PATH}:/lib:/usr/lib:/usr/local/lib
export LD_LIBRARY_PATH
CLASSPATH=$ORACLE_HOME/JRE
CLASSPATH=${CLASSPATH}:$ORACLE_HOME/jlib
CLASSPATH=${CLASSPATH}:$ORACLE_HOME/rdbms/jlib
CLASSPATH=${CLASSPATH}:$ORACLE_HOME/network/jlib
export CLASSPATH
export TEMP=/tmp
export TMPDIR=/tmp
umask 022
```

Checking Environment for oracle user

```
[oracle@Ora19c-ASM ~]$ source /home/oracle/.bash_profile
[oracle@Ora19c-ASM ~]$ env | grep ORACLE
ORACLE_SID=oradb
ORACLE_BASE=/u01/app/oracle
ORACLE_HOME=/u01/app/oracle/product/19.0.0/db_1
[oracle@Ora19c-ASM ~]$
```

Switch to grid user and modify its bash profile

su – grid
mv ~/.bash_profile ~/.bash_profile_bkp
vi ~/.bash_profile

vi .bash_profile

```
# .bash_profile
# Get the aliases and functions
if [ -f ~/.bashrc ]; then
. ~/.bashrc
fi
ORACLE_SID=+ASM; export ORACLE_SID
ORACLE_BASE=/u01/app/grid; export ORACLE_BASE
ORACLE_HOME=/u01/app/19.0.0/grid; export ORACLE_HOME
ORACLE_TERM=xterm; export ORACLE_TERM
TNS_ADMIN=$ORACLE_HOME/network/admin; export TNS_ADMIN
PATH=.:${JAVA_HOME}/bin:${PATH}:$HOME/bin:$ORACLE_HOME/bin
PATH=${PATH}:/usr/bin:/bin:/usr/local/bin
export PATH
export TEMP=/tmp
export TMPDIR=/tmp
umask 022
```

Checking Environment for grid user

```
[grid@Ora19c-ASM ~]$ source /home/grid/.bash_profile
[grid@Ora19c-ASM ~]$ env | grep ORACLE
ORACLE_SID=+ASM
ORACLE_BASE=/u01/app/grid
ORACLE_HOME=/u01/app/19.0.0/grid
ORACLE_TERM=xterm
[grid@Ora19c-ASM ~]$
```

Preparing for Oracle ASMLib package and creation asm disks

su –
yum install oracleasm-support (it may partially fail on RedHat linux 8.4) then use following rpm
wget https://public-yum.oracle.com/repo/OracleLinux/OL8/addons/x86_64/getPackage/oracleasm-support-2.1.12-1.el8.x86_64.rpm
yum install oracleasm-support-2.1.12-1.el8.x86_64.rpm
the following command may take some time to finish:
yum install kmod-oracleasm

Configure and load the ASM kernel module

[root@Ora19c-ASM ~]# *oracleasm configure -i*

Configuring the Oracle ASM library driver.
This will configure the on-boot properties of the Oracle ASM library
driver. The following questions will determine whether the driver is
loaded on boot and what permissions it will have. The current values
will be shown in brackets ('[]'). Hitting <ENTER> without typing an
answer will keep that current value. Ctrl-C will abort.

Default user to own the driver interface []: grid
Default group to own the driver interface []: oinstall
Start Oracle ASM library driver on boot (y/n) [n]: y
Scan for Oracle ASM disks on boot (y/n) [y]: y
Writing Oracle ASM library driver configuration: done

Load the oracleasm kernel module

[root@Ora19c-ASM ~]# */usr/sbin/oracleasm init*
Creating /dev/oracleasm mount point: /dev/oracleasm
Loading module "oracleasm": oracleasm
Configuring "oracleasm" to use device physical block size
Mounting ASMlib driver filesystem: /dev/oracleasm
[root@Ora19c-ASM ~]#

Preparing disks for ASM

```
[root@Ora19c-ASM ~]# lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINT
sda           8:0    0   40G  0 disk
├─sda1        8:1    0  600M  0 part /boot/efi
├─sda2        8:2    0    1G  0 part /boot
└─sda3        8:3    0 38.4G  0 part
  ├─rhel-root 253:0    0 33.4G  0 lvm  /
  └─rhel-swap 253:1    0    5G  0 lvm  [SWAP]
sdb           8:16   0    5G  0 disk
sdc           8:32   0   30G  0 disk
sr0          11:0    1  9.4G  0 rom
[root@Ora19c-ASM ~]#
```

Use Fdisk for sdb/sdc

fdisk /dev/sdb

then press: n, p, 1, ENTER, ENTER, w – to apply changes

fdisk /dev/sbclsb

then press: n, p, 1, ENTER, ENTER, w – to apply changes

```
[root@Ora19c-ASM ~]# lsblk
NAME        MAJ:MIN RM  SIZE RO TYPE MOUNTPOINT
sda           8:0    0   40G  0 disk
├─sda1        8:1    0  600M  0 part /boot/efi
├─sda2        8:2    0    1G  0 part /boot
└─sda3        8:3    0 38.4G  0 part
  ├─rhel-root 253:0    0 33.4G  0 lvm  /
  └─rhel-swap 253:1    0    5G  0 lvm  [SWAP]
sdb           8:16   0    5G  0 disk
└─sdb1        8:17   0    5G  0 part
sdc           8:32   0   30G  0 disk
└─sdc1        8:33   0   30G  0 part
sr0          11:0    1  9.4G  0 rom
[root@Ora19c-ASM ~]#
```

Create the ASM disks

```
[root@Ora19c-ASM ~]# oracleasm createdisk OCRDISK1 /dev/sdb1
Writing disk header: done
Instantiating disk: done
[root@Ora19c-ASM ~]# oracleasm createdisk DATADISK1 /dev/sdc1
Writing disk header: done
Instantiating disk: done
[root@Ora19c-ASM ~]# oracleasm listdisks
DATADISK1
OCRDISK1
[root@Ora19c-ASM ~]#
```

Run the following code to install further packages required by Oracle software.

yum install ksh

yum install libaio-devel.x86_64

Installing Oracle Grid Infrastructure Software (Oracle Restart)

In the following steps, you will install Oracle Grid Infrastructure software. The installation procedure automatically creates and start the Clusterware services.

Copy the Oracle Grid Infrastructure software installation file to the staging folder

As grid user

 # su – grid

$ unzip /tmp/soft/LINUX.X64_193000_grid_home.zip -d $ORACLE_HOME

Update Fallback to this distribution id in cvu_config file

/u01/app/19.0.0/grid/cv/admin

vi cvu_config

CV_ASSUME_DISTIR=8.1

Install the cvuqdisk as root

[root@Ora19c-ASM sysctl.d]# cd /u01/app/19.0.0/grid/cv/rpm/

[root@Ora19c-ASM rpm]# pwd

/u01/app/19.0.0/grid/cv/rpm

[root@Ora19c-ASM rpm]# CVUQDISK_GRP=oinstall

[root@Ora19c-ASM rpm]# export CVUQDISK_GRP

[root@Ora19c-ASM rpm]# rpm -iv cvuqdisk-1.0.10-1.rpm

Verifying packages...

Preparing packages...

cvuqdisk-1.0.10-1.x86_64

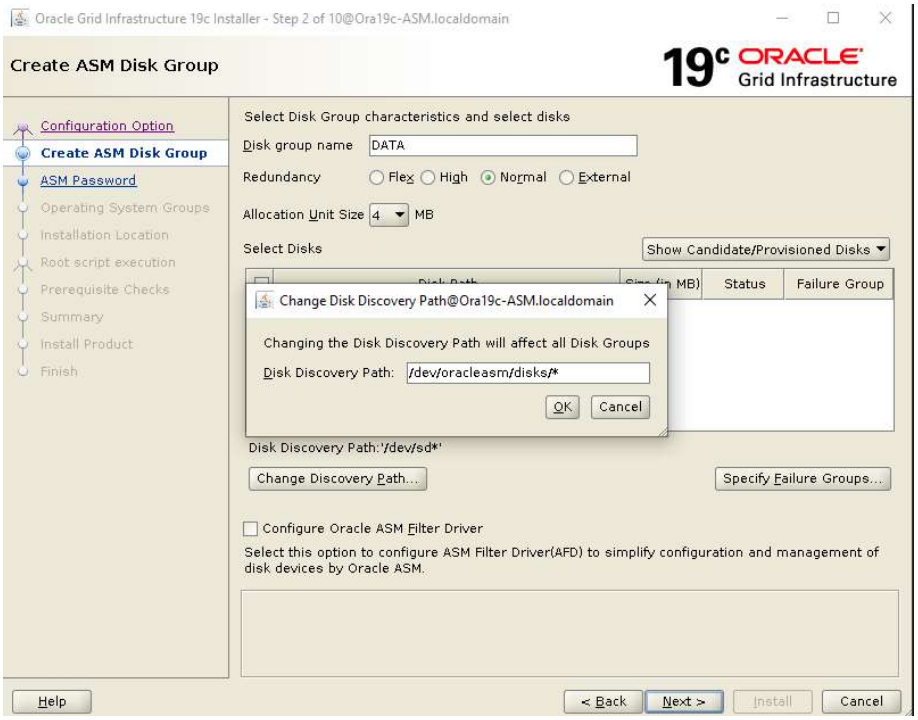
[root@Ora19c-ASM rpm]#

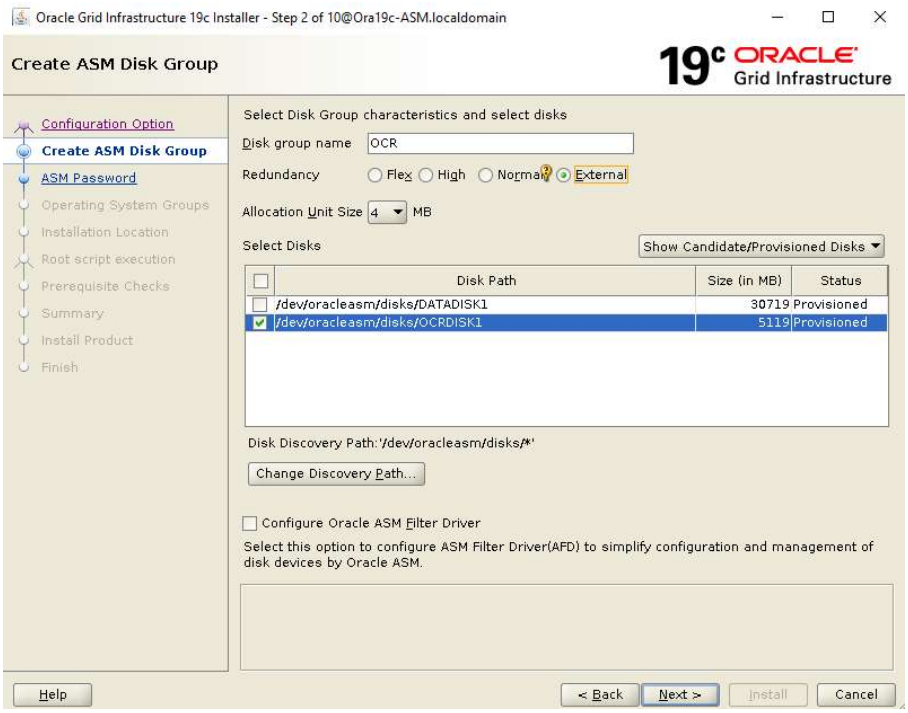
Launching gridSetup

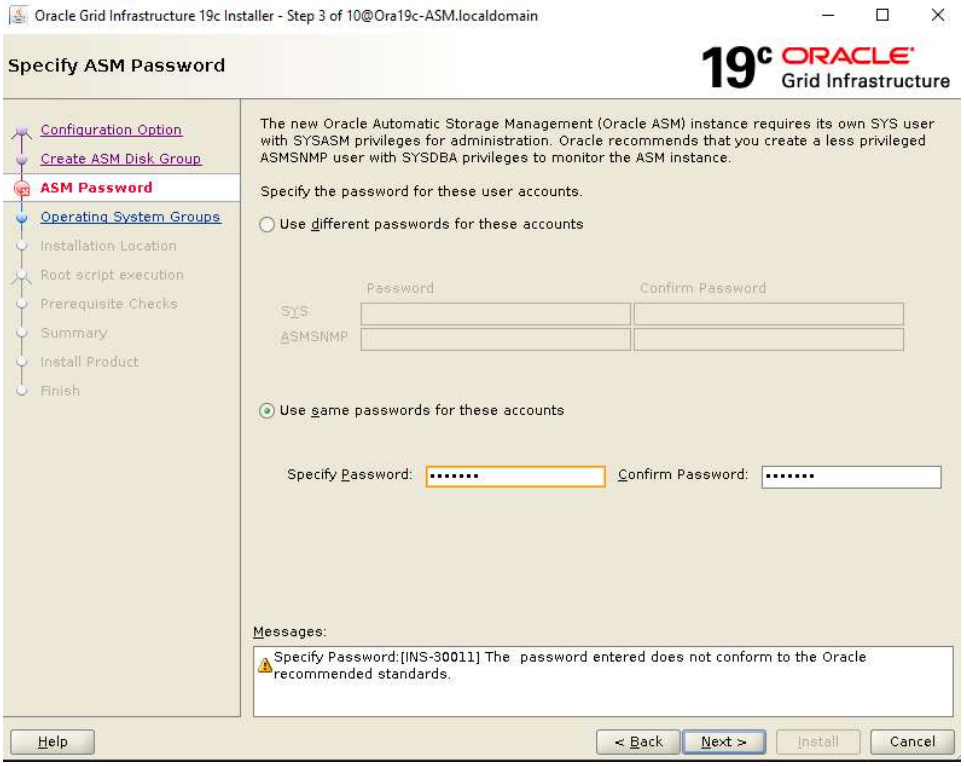
[grid@Ora19c-ASM grid]$ export DISPLAY=192.168.0.127:0.0

[grid@Ora19c-ASM grid]$ ./gridSetup.sh

Enter the Discovery Path as follows:
/dev/oracleasm/disks/*






Oracle Grid Infrastructure 19c Installer - Step 3 of 10@Ora19c-ASM.localdomain
Specify ASM Password
19c ORACLE Grid Infrastructure
Configuration Option
Create ASM Disk Group
ASM Password
Operating System Groups
Installation Location
Root script execution
Prerequisite Checks
Summary
Install Product
Finish
The new Oracle Automatic Storage Management (Oracle ASM) instance requires its own SYS user with SYSASM privileges for administration. Oracle recommends that you create a less privileged ASMSNMP user with SYSDBA privileges to monitor the ASM instance.
Specify the password for these user accounts.
Use different passwords for these accounts
Password
Confirm Password
SYS
ASMSNMP
Use same passwords for these accounts
Specify Password:
Confirm Password:
Messages:
Specify Password:[INS-30011] The password entered does not conform to the Oracle recommended standards.
Help
< Back
Next >
Install
Cancel


Oracle Grid Infrastructure 19c Installer - Step 5 of 11@Ora19c-ASM.localdomain
Privileged Operating System Groups
19c ORACLE Grid Infrastructure
Configuration Option
Create ASM Disk Group
ASM Password
Management Options
Operating System Groups
Installation Location
Root script execution
Prerequisite Checks
Summary
Install Product
Finish
Select the name of the operating system group, that you want to use for operating system authentication to Oracle Automatic Storage Management.
Oracle ASM Administrator (OSASM) Group
asmadmin
Oracle ASM DBA (OSDBA for ASM) Group
asmdba
Oracle ASM Operator (OSOPER for ASM) Group (Optional)
Help
< Back
Next >
Install
Cancel


Oracle Grid Infrastructure 19c Installer - Step 6 of 11@Ora19c-ASM.localdomain
Specify Installation Location
19c ORACLE Grid Infrastructure
Configuration Option
Create ASM Disk Group
ASM Password
Management Options
Operating System Groups
Installation Location
Root script execution
Prerequisite Checks
Summary
Install Product
Finish
Specify the Oracle base. The Oracle base directory for the Oracle Grid Infrastructure installation is the location where diagnostic and administrative logs, and other logs associated with Oracle ASM and Oracle Clusterware are stored. This location would also contain files pertaining to the configuration of Oracle Clusterware.
Oracle base: /u01/app/grid
Browse...
This software directory is the Oracle Grid Infrastructure home directory.
Software location: /u01/app/19.0.0/grid
Help
< Back
Next >
Install
Cancel


Oracle Grid Infrastructure 19c Installer - Step 7 of 12@Ora19c-ASM.localdomain
Create Inventory
19c ORACLE Grid Infrastructure
Configuration Option
Create ASM Disk Group
ASM Password
Management Options
Operating System Groups
Installation Location
Create Inventory
Root script execution
Prerequisite Checks
Summary
Install Product
Finish
You are starting your first installation on this host. Specify a directory for installation metadata files (for example, install log files). This directory is called the "inventory directory". The installer automatically sets up subdirectories for each product to contain inventory data. The subdirectory for each product typically requires 150 kilobytes of disk space.
Inventory Directory: /u01/app/oraInventory
Browse...
Members of the following operating system group (the primary group) will have write permission to the inventory directory (oraInventory).
oraInventory Group Name: oinstall
Help
< Back
Next >
Install
Cancel

Fixing swap issue

sudo swapon --show

free -h

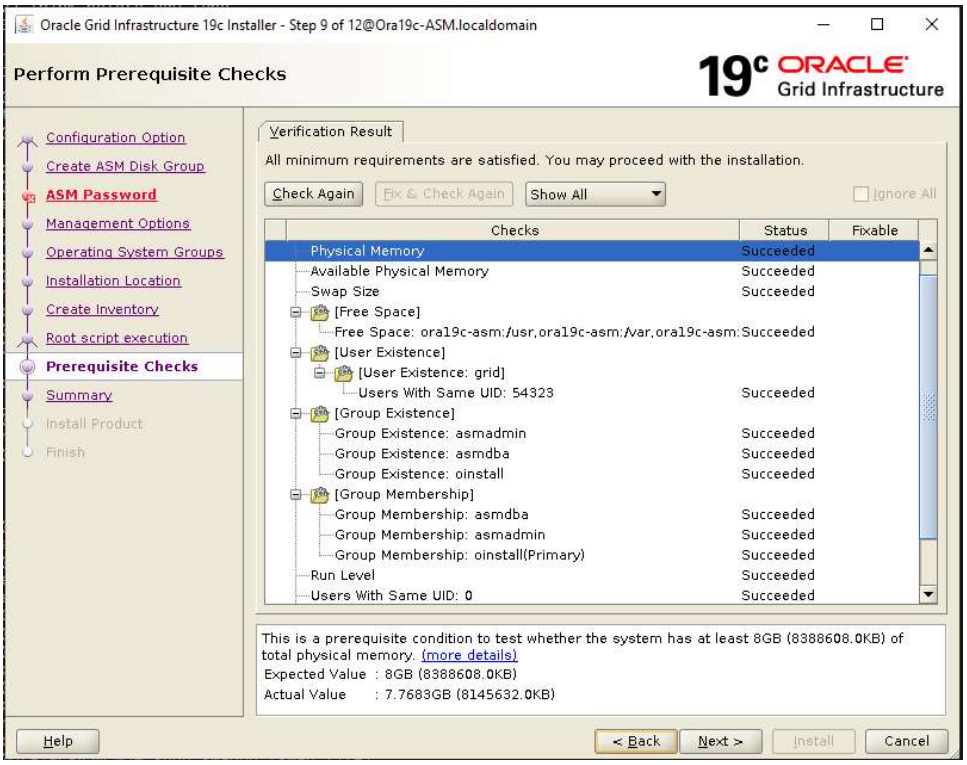
sudo dd if=/dev/zero of=/swap_file1 bs=3GB count=1

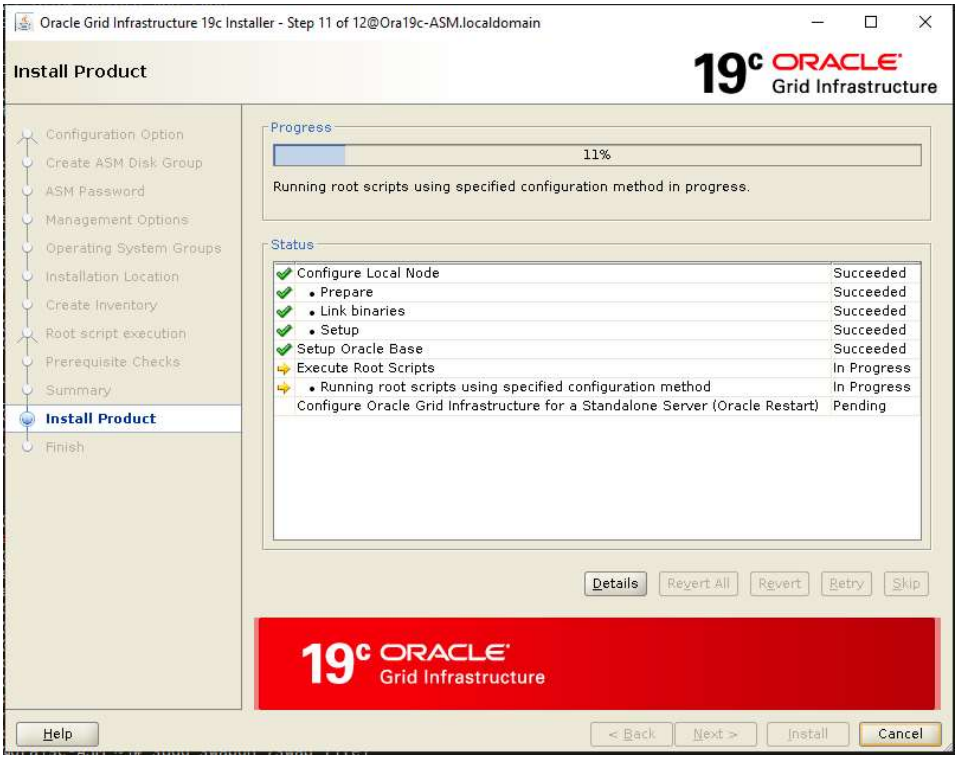
sudo chmod 600 /swap_file

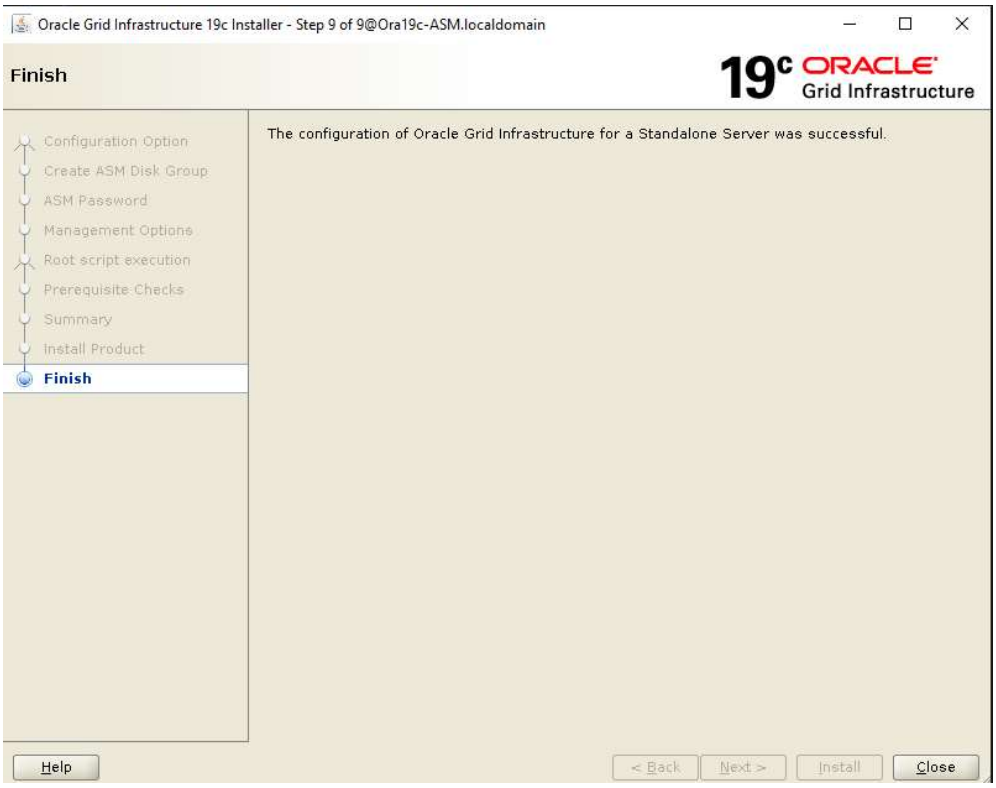
sudo mkswap /swap_file

sudo swapon /swap_file

free –h


Oracle Grid Infrastructure 19c Installer - Step 9 of 12@Ora19c-ASM.localdomain
Perform Prerequisite Checks
19c ORACLE Grid Infrastructure
Configuration Option
Create ASM Disk Group
ASM Password
Management Options
Operating System Groups
Installation Location
Create Inventory
Root script execution
Prerequisite Checks
Summary
Install Product
Finish
Verification Result
All minimum requirements are satisfied. You may proceed with the installation.
Check Again
Fix & Check Again
Show All
Ignore All
Checks
Status
Fixable
Physical Memory Succeeded
Available Physical Memory Succeeded
Swap Size Succeeded
[Free Space]
Free Space: ora19c-asm:/usr,ora19c-asm:/var,ora19c-asm: Succeeded
[User Existence]
[User Existence: grid]
Users With Same UID: 54323 Succeeded
[Group Existence]
Group Existence: asmadmin Succeeded
Group Existence: asmdba Succeeded
Group Existence: oinstall Succeeded
[Group Membership]
Group Membership: asmdba Succeeded
Group Membership: asmadmin Succeeded
Group Membership: oinstall(Primary) Succeeded
Run Level Succeeded
Users With Same UID: 0 Succeeded
This is a prerequisite condition to test whether the system has at least 8GB (8388608.0KB) of total physical memory. (more details)
Expected Value : 8GB (8388608.0KB)
Actual Value : 7.7683GB (8145632.0KB)
Help
< Back
Next >
Install
Cancel


Oracle Grid Infrastructure 19c Installer - Step 11 of 12@Ora19c-ASM.localdomain
Install Product
19c ORACLE Grid Infrastructure
Configuration Option
Create ASM Disk Group
ASM Password
Management Options
Operating System Groups
Installation Location
Create Inventory
Root script execution
Prerequisite Checks
Summary
Install Product
Finish
Progress
11%
Running root scripts using specified configuration method in progress.
Status
Configure Local Node Succeeded
• Prepare Succeeded
• Link binaries Succeeded
• Setup Succeeded
Setup Oracle Base Succeeded
Execute Root Scripts In Progress
• Running root scripts using specified configuration method In Progress
Configure Oracle Grid Infrastructure for a Standalone Server (Oracle Restart) Pending
Details
Revert All
Revert
Retry
Skip
19c ORACLE Grid Infrastructure
Help
< Back
Next >
Install
Cancel


Oracle Grid Infrastructure 19c Installer - Step 9 of 9@Ora19c-ASM.localdomain
Finish
19c ORACLE Grid Infrastructure
Configuration Option
Create ASM Disk Group
ASM Password
Management Options
Root script execution
Prerequisite Checks
Summary
Install Product
Finish
The configuration of Oracle Grid Infrastructure for a Standalone Server was successful.
Help
< Back
Next >
Install
Close

Launching asmca for configuring asm disk

 # su – grid

$asmca

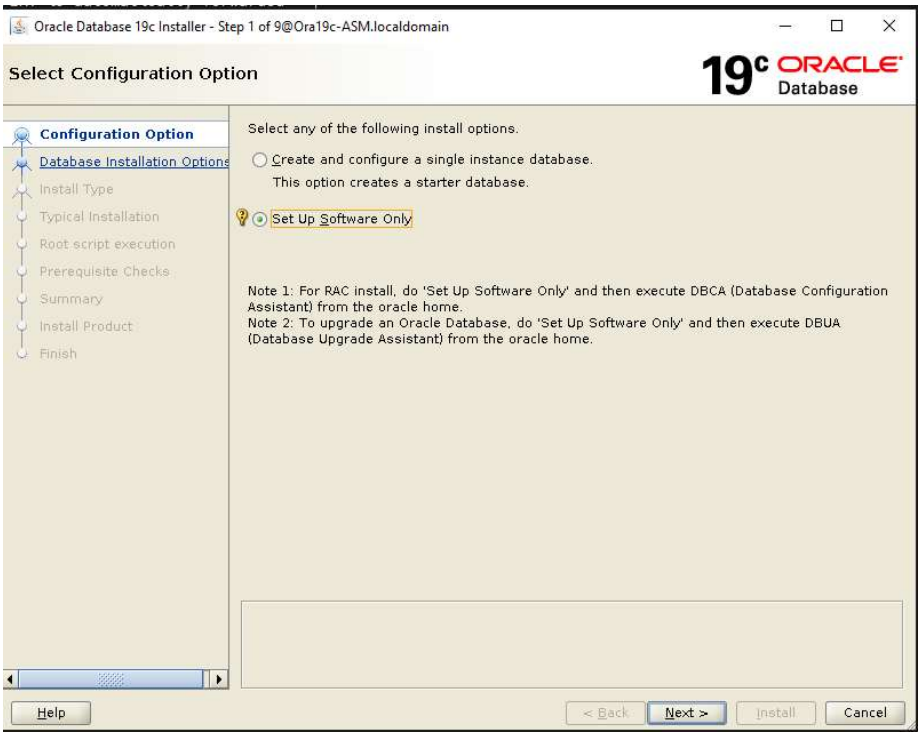

```
[grid@Ora19c-ASM ~]$ crsctl status resource -t
--------------------------------------------------------------------------------
Name           Target  State        Server                   State details
--------------------------------------------------------------------------------
Local Resources
--------------------------------------------------------------------------------
ora.DATA.dg
               ONLINE  ONLINE       ora19c-asm               STABLE
ora.LISTENER.lsnr
               ONLINE  INTERMEDIATE ora19c-asm               Not All Endpoints Re
                                                             gistered,STABLE
ora.OCR.dg
               ONLINE  ONLINE       ora19c-asm               STABLE
ora.asm
               ONLINE  ONLINE       ora19c-asm               Started,STABLE
ora.ons
               OFFLINE OFFLINE      ora19c-asm               STABLE
--------------------------------------------------------------------------------
Cluster Resources
--------------------------------------------------------------------------------
ora.cssd
      1        ONLINE  ONLINE       ora19c-asm               STABLE
ora.diskmon
      1        OFFLINE OFFLINE                               STABLE
ora.evmd
      1        ONLINE  ONLINE       ora19c-asm               STABLE
--------------------------------------------------------------------------------
[grid@Ora19c-ASM ~]$
```

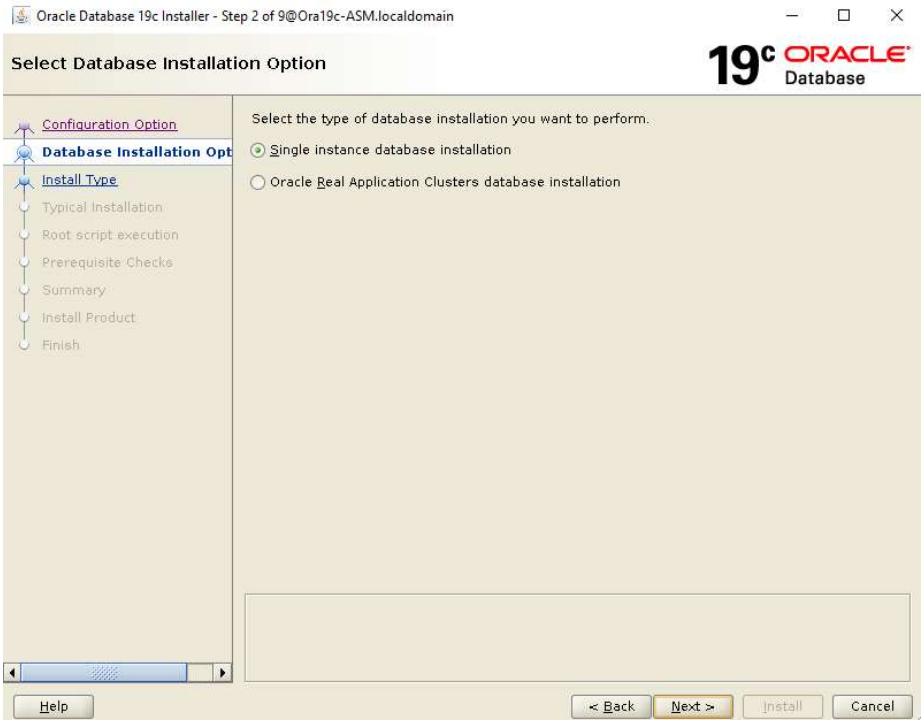
Installing database software

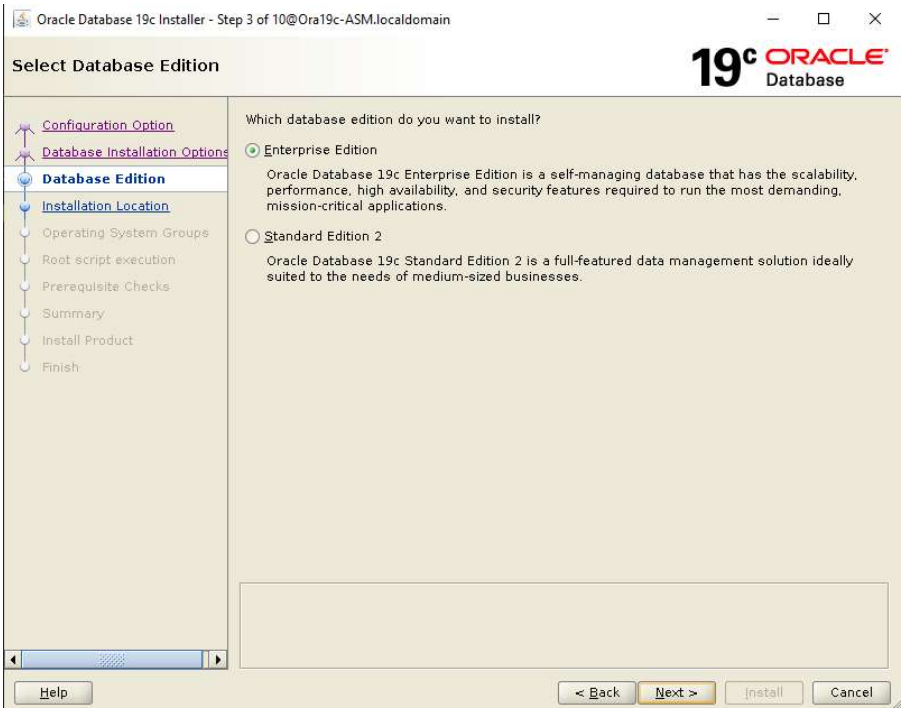
#su – oracle

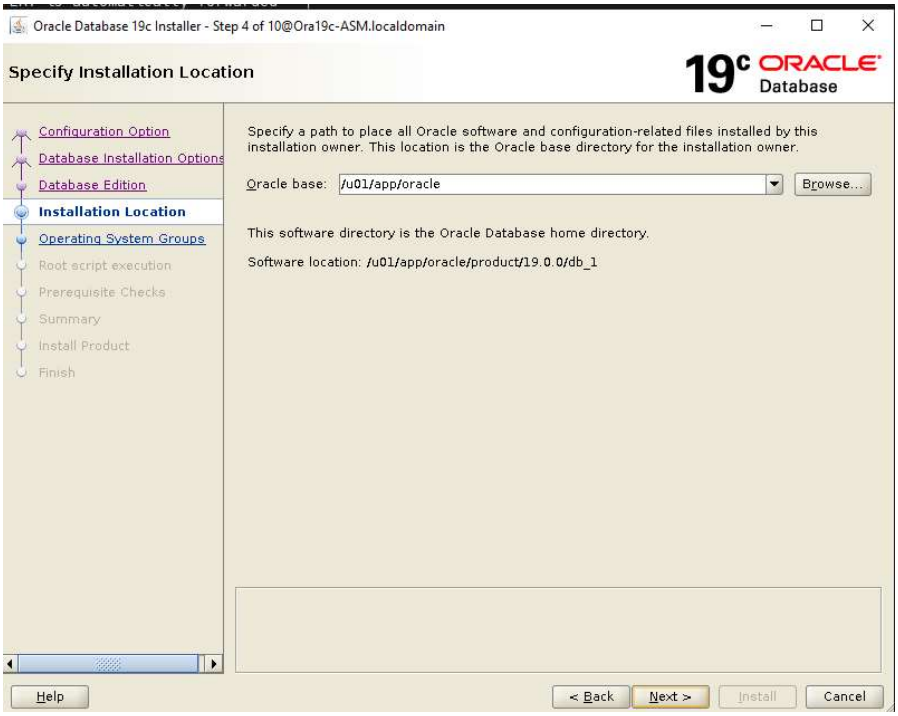
$cd $ORACLE_HOME

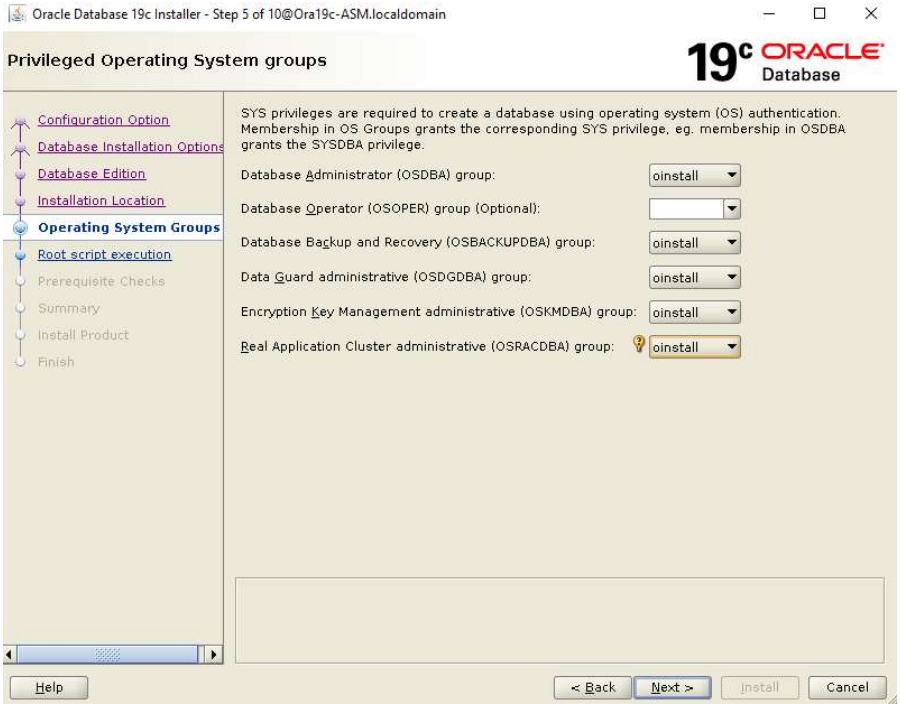
$./runInstaller

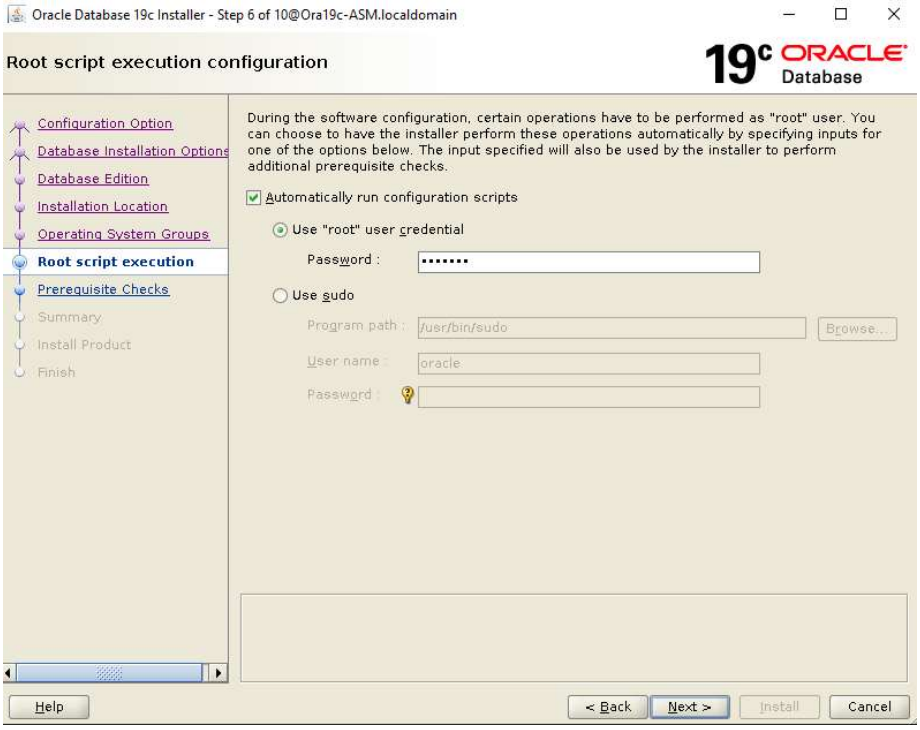

Oracle Database 19c Installer - Step 1 of 9@Ora19c-ASM.localdomain
Select Configuration Option
19c ORACLE Database
Configuration Option
Database Installation Options
Install Type
Typical Installation
Root script execution
Prerequisite Checks
Summary
Install Product
Finish
Select any of the following install options.
Create and configure a single instance database.
This option creates a starter database.
Set Up Software Only
Note 1: For RAC install, do 'Set Up Software Only' and then execute DBCA (Database Configuration Assistant) from the oracle home.
Note 2: To upgrade an Oracle Database, do 'Set Up Software Only' and then execute DBUA (Database Upgrade Assistant) from the oracle home.
Help
< Back
Next >
Install
Cancel

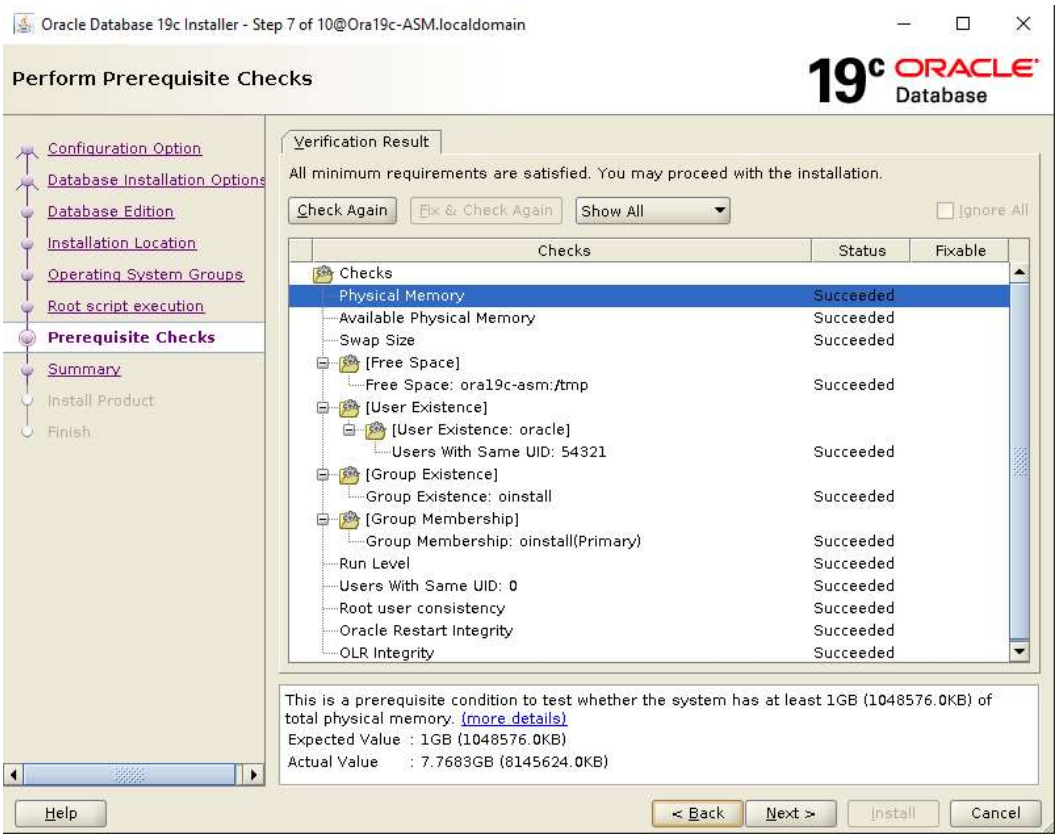

Oracle Database 19c Installer - Step 2 of 9@Ora19c-ASM.localdomain
Select Database Installation Option
19c ORACLE Database
Configuration Option
Database Installation Opt
Install Type
Typical Installation
Root script execution
Prerequisite Checks
Summary
Install Product
Finish
Select the type of database installation you want to perform.
Single instance database installation
Oracle Real Application Clusters database installation
Help
< Back
Next >
Install
Cancel

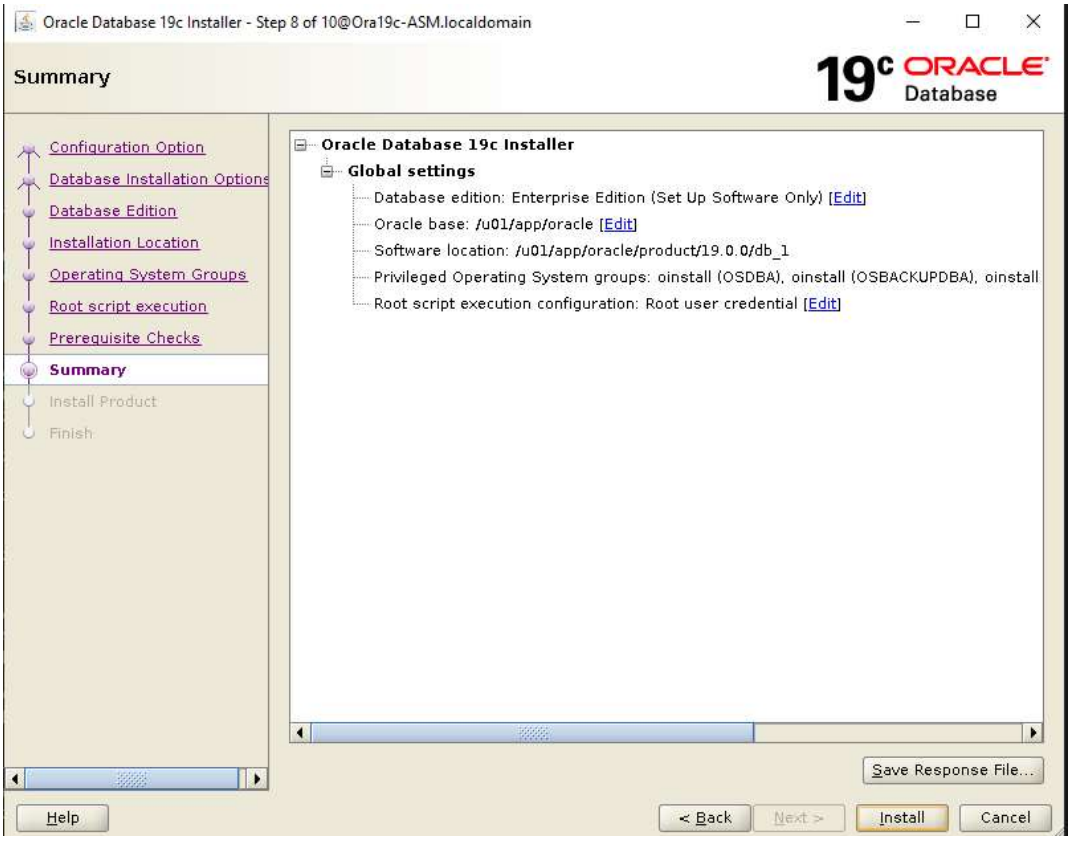

Oracle Database 19c Installer - Step 3 of 10@Ora19c-ASM.localdomain
Select Database Edition
19c ORACLE Database
Configuration Option
Database Installation Options
Database Edition
Installation Location
Operating System Groups
Root script execution
Prerequisite Checks
Summary
Install Product
Finish
Which database edition do you want to install?
Enterprise Edition
Oracle Database 19c Enterprise Edition is a self-managing database that has the scalability, performance, high availability, and security features required to run the most demanding, mission-critical applications.
Standard Edition 2
Oracle Database 19c Standard Edition 2 is a full-featured data management solution ideally suited to the needs of medium-sized businesses.
Help
< Back
Next >
Install
Cancel

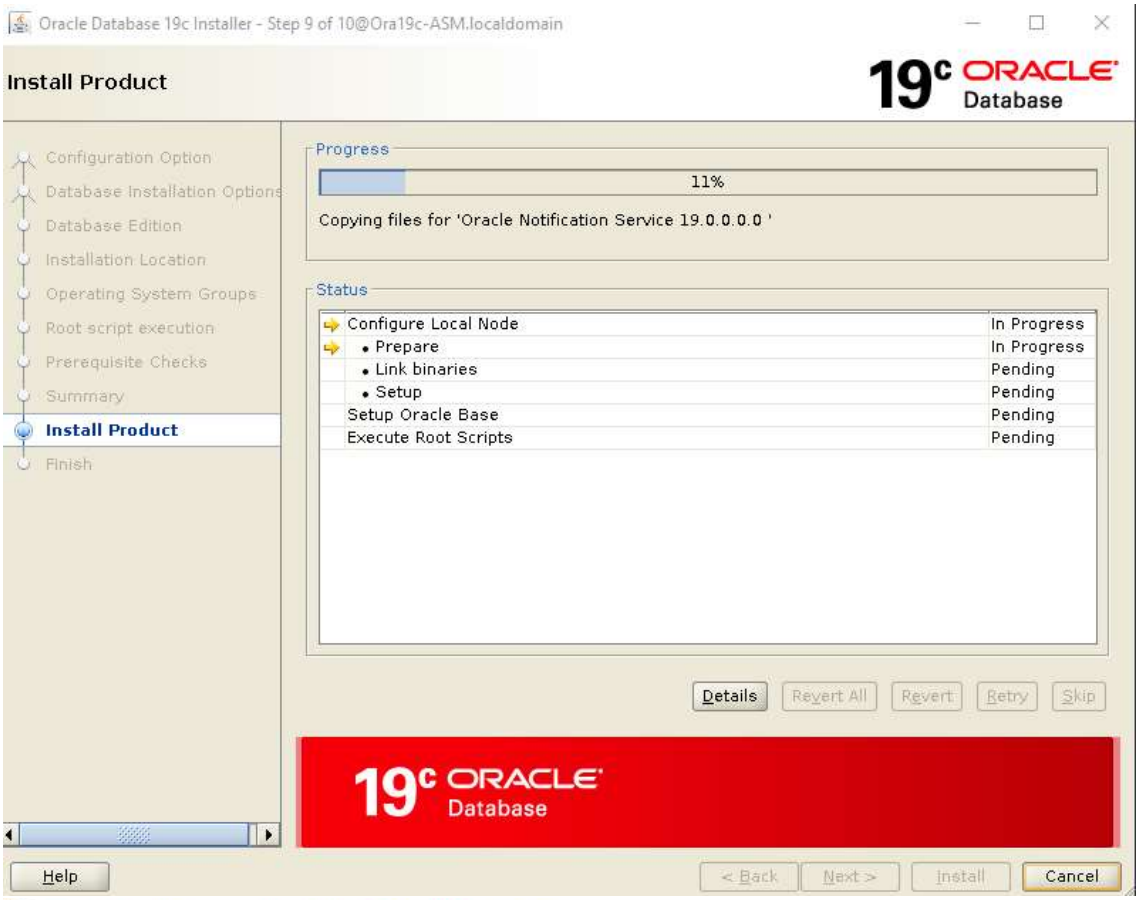

Oracle Database 19c Installer - Step 4 of 10@Ora19c-ASM.localdomain
Specify Installation Location
19c ORACLE Database
Configuration Option
Database Installation Options
Database Edition
Installation Location
Operating System Groups
Root script execution
Prerequisite Checks
Summary
Install Product
Finish
Specify a path to place all Oracle software and configuration-related files installed by this installation owner. This location is the Oracle base directory for the installation owner.
Oracle base: /u01/app/oracle
Browse...
This software directory is the Oracle Database home directory.
Software location: /u01/app/oracle/product/19.0.0/db_1
Help
< Back
Next >
Install
Cancel

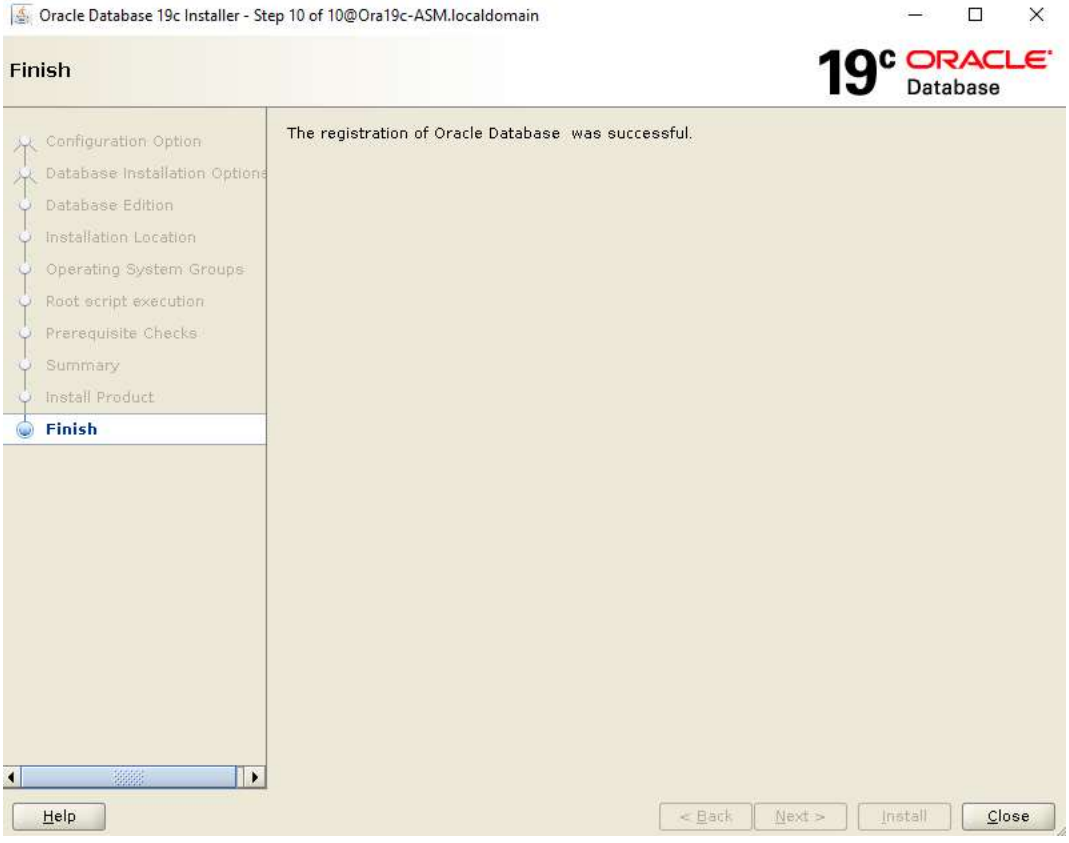

Oracle Database 19c Installer - Step 5 of 10@Ora19c-ASM.localdomain
Privileged Operating System groups
19c ORACLE Database
Configuration Option
Database Installation Options
Database Edition
Installation Location
Operating System Groups
Root script execution
Prerequisite Checks
Summary
Install Product
Finish
SYS privileges are required to create a database using operating system (OS) authentication. Membership in OS Groups grants the corresponding SYS privilege, eg. membership in OSDBA grants the SYSDBA privilege.
Database Administrator (OSDBA) group: oinstall
Database Operator (OSOPER) group (Optional):
Database Backup and Recovery (OSBACKUPDBA) group: oinstall
Data Guard administrative (OSDGDBA) group: oinstall
Encryption Key Management administrative (OSKMDBA) group: oinstall
Real Application Cluster administrative (OSRACDBA) group: oinstall
Help
< Back
Next >
Install
Cancel


Oracle Database 19c Installer - Step 6 of 10@Ora19c-ASM.localdomain
Root script execution configuration
19c ORACLE Database
Configuration Option
Database Installation Options
Database Edition
Installation Location
Operating System Groups
Root script execution
Prerequisite Checks
Summary
Install Product
Finish
During the software configuration, certain operations have to be performed as "root" user. You can choose to have the installer perform these operations automatically by specifying inputs for one of the options below. The input specified will also be used by the installer to perform additional prerequisite checks.
Automatically run configuration scripts
Use "root" user credential
Password :
Use sudo
Program path : /usr/bin/sudo
Browse...
User name : oracle
Password :
Help
< Back
Next >
Install
Cancel


Oracle Database 19c Installer - Step 7 of 10@Ora19c-ASM.localdomain
Perform Prerequisite Checks
19c ORACLE Database
Configuration Option
Database Installation Options
Database Edition
Installation Location
Operating System Groups
Root script execution
Prerequisite Checks
Summary
Install Product
Finish
Verification Result
All minimum requirements are satisfied. You may proceed with the installation.
Check Again
Fix & Check Again
Show All
Ignore All
Checks
Status
Fixable
Checks
Physical Memory
Succeeded
Available Physical Memory
Succeeded
Swap Size
Succeeded
[Free Space]
Free Space: ora19c-asm:/tmp
Succeeded
[User Existence]
[User Existence: oracle]
Users With Same UID: 54321
Succeeded
[Group Existence]
Group Existence: oinstall
Succeeded
[Group Membership]
Group Membership: oinstall(Primary)
Succeeded
Run Level
Succeeded
Users With Same UID: 0
Succeeded
Root user consistency
Succeeded
Oracle Restart Integrity
Succeeded
OLR Integrity
Succeeded
This is a prerequisite condition to test whether the system has at least 1GB (1048576.0KB) of total physical memory. (more details)
Expected Value : 1GB (1048576.0KB)
Actual Value : 7.7683GB (8145624.0KB)
Help
< Back
Next >
Install
Cancel


Oracle Database 19c Installer - Step 8 of 10@Ora19c-ASM.localdomain
Summary
19c ORACLE Database
Configuration Option
Database Installation Options
Database Edition
Installation Location
Operating System Groups
Root script execution
Prerequisite Checks
Summary
Install Product
Finish
Oracle Database 19c Installer
Global settings
Database edition: Enterprise Edition (Set Up Software Only) [Edit]
Oracle base: /u01/app/oracle [Edit]
Software location: /u01/app/oracle/product/19.0.0/db_1
Privileged Operating System groups: oinstall (OSDBA), oinstall (OSBACKUPDBA), oinstall
Root script execution configuration: Root user credential [Edit]
Save Response File...
Help
< Back
Next >
Install
Cancel

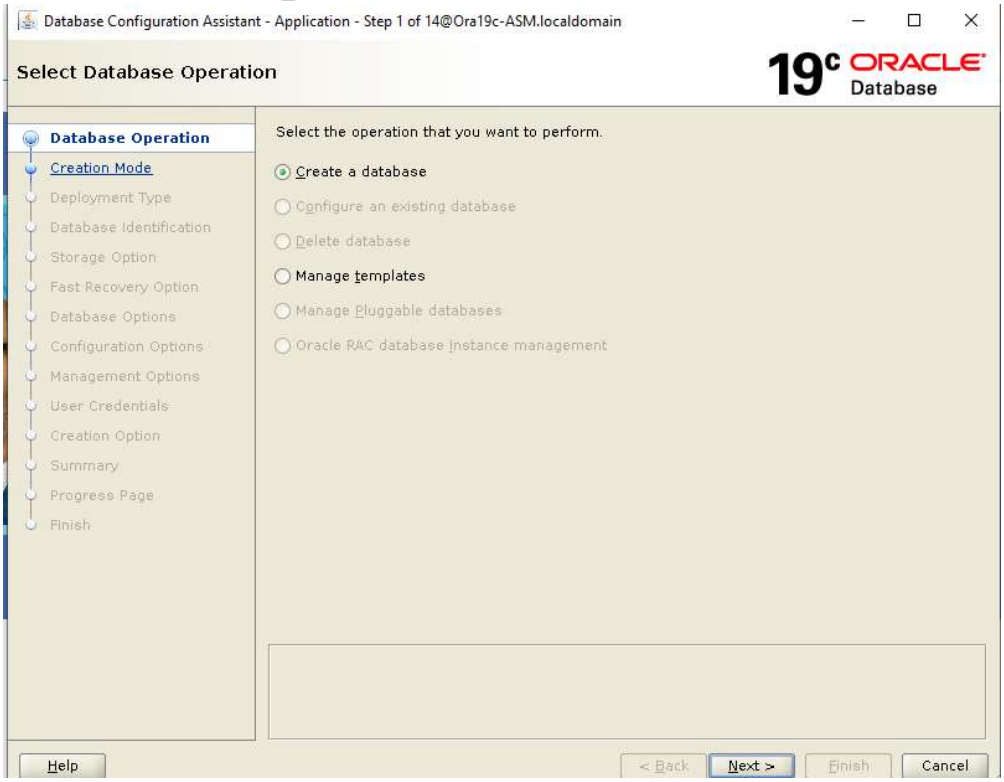

Oracle Database 19c Installer - Step 9 of 10@Ora19c-ASM.localdomain
Install Product
19c ORACLE Database
Configuration Option
Database Installation Options
Database Edition
Installation Location
Operating System Groups
Root script execution
Prerequisite Checks
Summary
Install Product
Finish
Progress
11%
Copying files for 'Oracle Notification Service 19.0.0.0.0 '
Status
Configure Local Node
In Progress
• Prepare
In Progress
• Link binaries
Pending
• Setup
Pending
Setup Oracle Base
Pending
Execute Root Scripts
Pending
Details
Revert All
Revert
Retry
Skip
19c ORACLE Database
Help
< Back
Next >
Install
Cancel

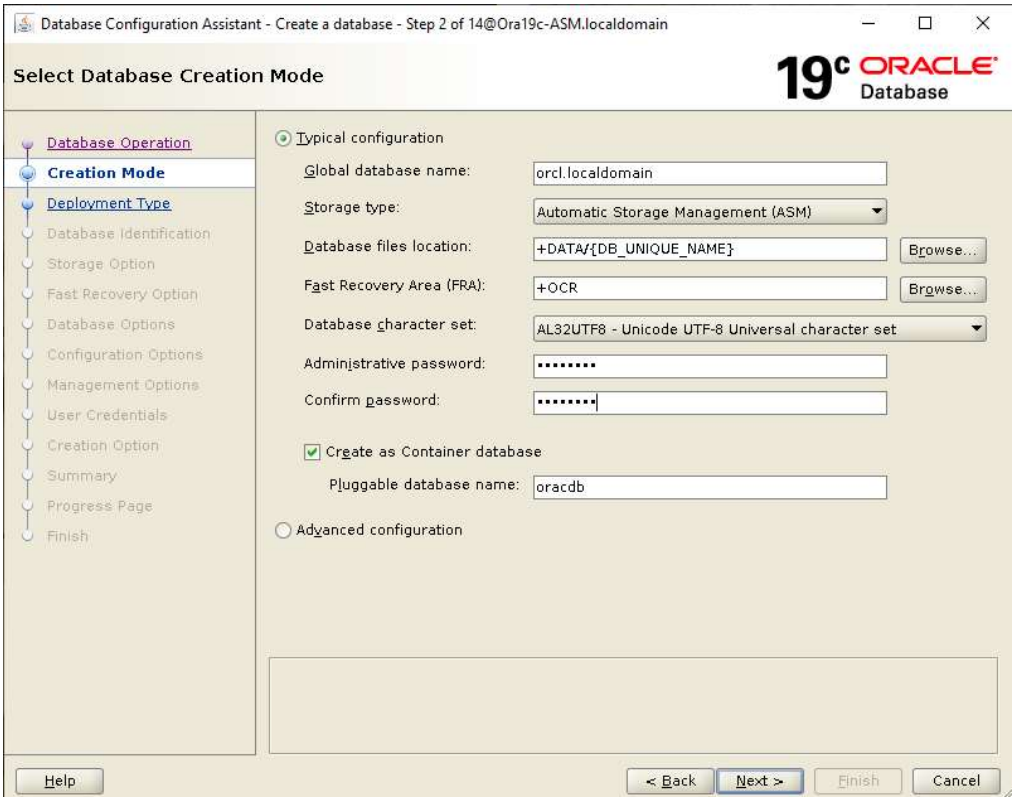

Oracle Database 19c Installer - Step 10 of 10@Ora19c-ASM.localdomain
Finish
19c ORACLE Database
Configuration Option
Database Installation Options
Database Edition
Installation Location
Operating System Groups
Root script execution
Prerequisite Checks
Summary
Install Product
Finish
The registration of Oracle Database was successful.
Help
< Back
Next >
Install
Close

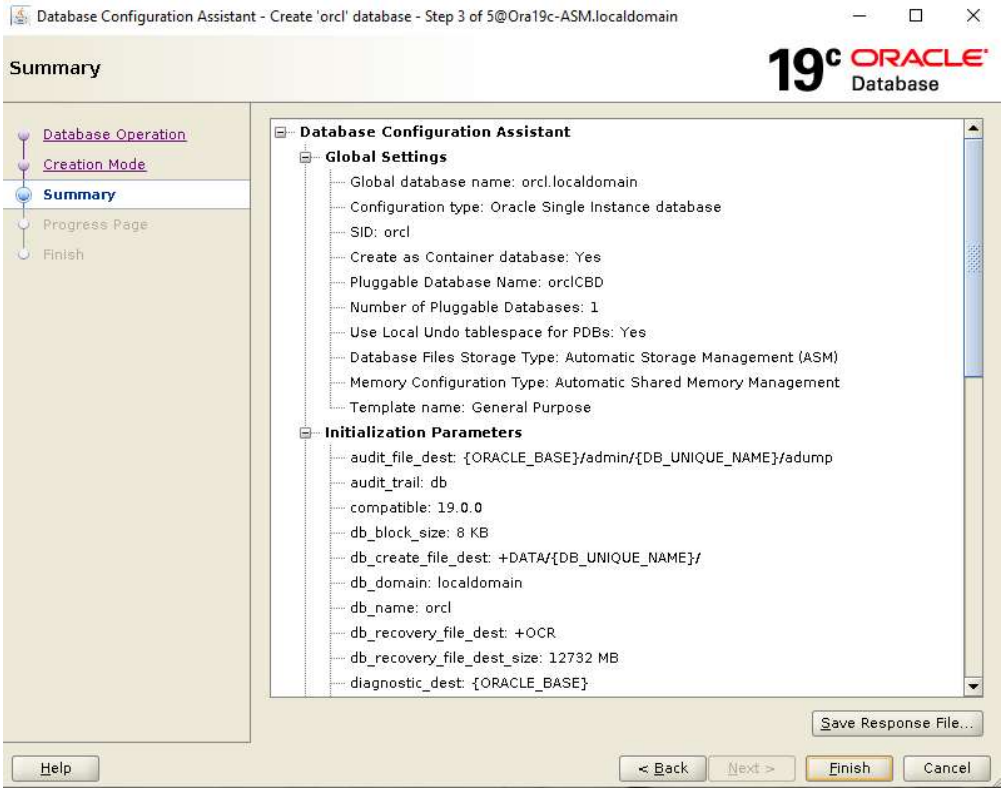
Installing database using dbca

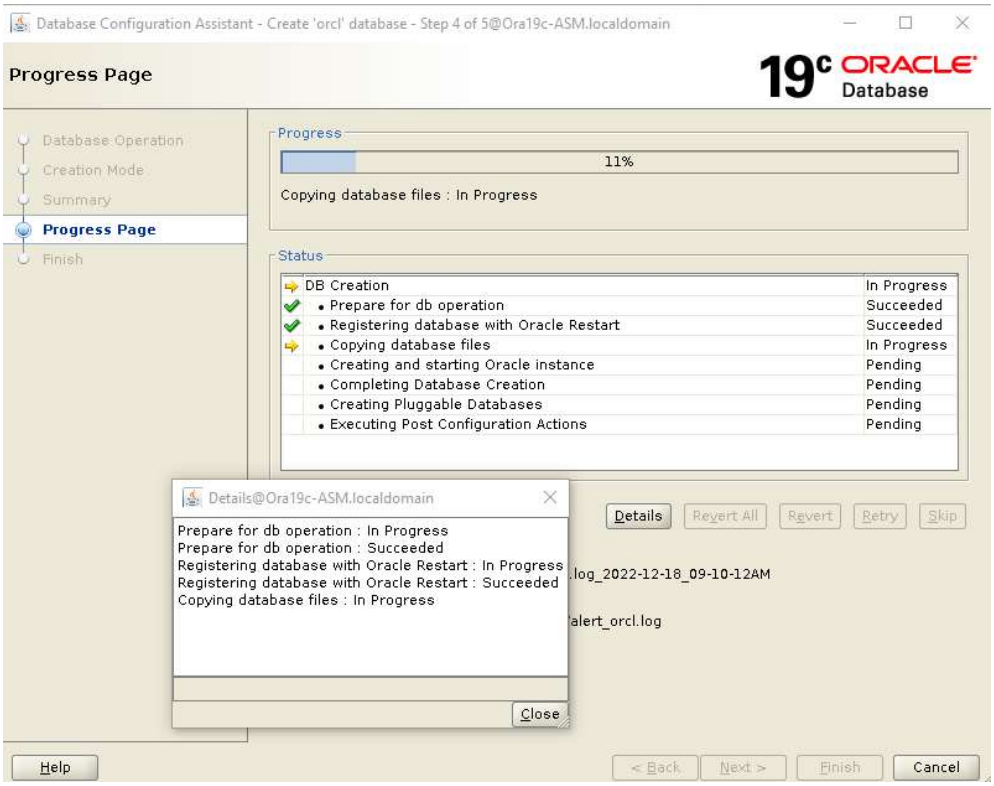
Launch dbca

[oracle@Ora19c-ASM db_1]$ dbca






Database Configuration Assistant - Create 'orcl' database - Step 3 of 5@Ora19c-ASM.localdomain
Summary
19c ORACLE Database
Database Operation
Creation Mode
Summary
Progress Page
Finish
Database Configuration Assistant
Global Settings
Global database name: orcl.localdomain
Configuration type: Oracle Single Instance database
SID: orcl
Create as Container database: Yes
Pluggable Database Name: orclCBD
Number of Pluggable Databases: 1
Use Local Undo tablespace for PDBs: Yes
Database Files Storage Type: Automatic Storage Management (ASM)
Memory Configuration Type: Automatic Shared Memory Management
Template name: General Purpose
Initialization Parameters
audit_file_dest: {ORACLE_BASE}/admin/{DB_UNIQUE_NAME}/adump
audit_trail: db
compatible: 19.0.0
db_block_size: 8 KB
db_create_file_dest: +DATA/{DB_UNIQUE_NAME}/
db_domain: localdomain
db_name: orcl
db_recovery_file_dest: +OCR
db_recovery_file_dest_size: 12732 MB
diagnostic_dest: {ORACLE_BASE}
Save Response File...
Help
< Back
Next >
Finish
Cancel


Database Configuration Assistant - Create 'orcl' database - Step 4 of 5@Ora19c-ASM.localdomain
Progress Page
19c ORACLE Database
Database Operation
Creation Mode
Summary
Progress Page
Finish
Progress
11%
Copying database files : In Progress
Status
DB Creation In Progress
Prepare for db operation Succeeded
Registering database with Oracle Restart Succeeded
Copying database files In Progress
Creating and starting Oracle instance Pending
Completing Database Creation Pending
Creating Pluggable Databases Pending
Executing Post Configuration Actions Pending
Details@Ora19c-ASM.localdomain
Prepare for db operation : In Progress
Prepare for db operation : Succeeded
Registering database with Oracle Restart : In Progress
Registering database with Oracle Restart : Succeeded
Copying database files : In Progress
Close
Details
Revert All
Revert
Retry
Skip
.log_2022-12-18_09-10-12AM
alert_orcl.log
Help
< Back
Next >
Finish
Cancel


Database Configuration Assistant - Create 'orcl' database - Step 5 of 5@Ora19c-ASM.localdomain
Finish
19c ORACLE Database
Database Operation
Creation Mode
Summary
Progress Page
Finish
Database creation complete. For details check the logfiles at:
/u01/app/oracle/cfgtoollogs/dbca/orcl.
Database Information:
Global Database Name: orcl.localdomain
System Identifier(SID): orcl
Server Parameter File name: +DATA/ORCL/PARAMETERFILE/spfile.269.1123758261
Note: All database accounts except SYS and SYSTEM are locked. Select the Password Management button to view a complete list of locked accounts or to manage the database accounts. From the Password Management window, unlock only the accounts you will use. Oracle strongly recommends changing the default passwords immediately after unlocking the account.
Password Management...
Help
< Back
Next >
Finish
Close