**25 Oracle 19c installation**

## **Hosts File:**

* The "/etc/hosts" file must contain a fully qualified name for the server.
* Set the correct hostname in the "/etc/hostname" file.
* 127.0.0.1 localhost localhost.localdomain localhost4 localhost4.localdomain4
* : :1 localhost localhost.localdomain localhost6 localhost6.localdomain6
* 10.171.0.25 localhost.localdomain localhost

1. **Automatic Setup:**

* perform all your prerequisite setup " oracle-database-preinstall-19c "
* **dnf install -y oracle-database-preinstall-19c**
* This automatic setup will create oracle user and assign groups to it.

1. **Its worth running the all the DNF commands listed in the manual setup section.**

* If you are 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.
* curl -o oracle-database-preinstall-19c-1.0-2.el8.x86\_64.rpm <https://yum.oracle.com/repo/OracleLinux/OL8/appstream/x86_64/getPackage/oracle-database-preinstall-19c-1.0-2.el8.x86_64.rpm>
* dnf -y localinstall oracle-database-preinstall-19c-1.0-2.el8.x86\_64.rpm

1. **IF Groups Not Assigned:**

* usermod -aG oinstall,dba oracle

1. **Set the password for the "oracle" user.**

* passwd oracle

1. **Set secure Linux to permissive by editing "/etc/selinux/config" file.**

* **SELINUX=permissive**
* Once the change is complete, restart the server or run the following command.
* **setenforce Permissive**

1. **Disable the Linux firewall.**

* systemctl stop firewalld
* systemctl disable firewalld

1. **Create the required directories:**

* mkdir -p /home/oracle/app/oracle/product/19c/dbhome\_1
* chown -R oracle:oinstall /home
* chmod -R 775 /home

1. **Add the following lines to "/home/oracle/.bash\_profile" file.**

* PATH=$PATH:$HOME/.local/bin:$HOME/bin

export PATH

export ORACLE\_HOME=/data/oracle/app/oracle/product/11.2.0/dbhome\_2

export PATH=$ORACLE\_HOME/bin:$PATH

export LD\_LIBRARY\_PATH=$ORACLE\_HOME/lib

export ORACLE\_SID=jms

* After adding lines to bash\_profile source the file to applicable.
* Source .bash\_profile (or) . .bash\_profile
* To check the ENV ( env |grep ORA)\

1. **Copy the 19c software to server and unzip.**

* cp 19c\_file\_to /home/app/oracle/product/19c/dbhome\_1
* unzip LINUX.X64\_193000\_db\_home

1. **Start the Oracle Universal Installer (OUI)**

* cd /home/oracle/app/oracle/product/19c/dbhome\_1
* **./runInstaller**
* GUI will open go with install software and configure database.

1. **The following scripts need to be executed as the “root” user**.

* based on directory structure path will change
* /home/oracle/app/oraInventory/orainstRoot.sh
* /home/oracle/app/oracle/product/11.2.0.4/dbhome\_2/root.sh

### **Key Purposes of the root.sh Script**

* Adjusts file ownership and permissions for key Oracle directories.
* Modifies or verifies system kernel parameters to meet Oracle's requirements
* Sets up scripts for automatic startup and shutdown of Oracle services.
* May create entries in /etc/oratab to help manage instances

**Manual Database Creation Method**

1. **Install only software.**
2. **Login to server as oracle user.**
3. **Create required directories.**

* /SSD/19c/oradata

1. **Set env file (vi /SSD/11g/abc.env)**

[oracle@EIS2APPT 19c]$ cat abc.env

export ORACLE\_HOME=/SSD/oracle/app/oracle/product/19c/dbhome\_2

export PATH=$ORACLE\_HOME/bin:$PATH

export LD\_LIBRARY\_PATH=$ORACLE\_HOME/lib

export ORACLE\_SID=abc

* Save the file and execute it (. abc.env)
* Try to connect sql prompt as (sqlplus / as sysdba)

1. **Create pfile**

* Cd $ORACLE\_HOME/dbs/Initsid.ora ( vi initabc.ora )
* [oracle@EIS2APPT dbs]$ cat initabc.ora

db\_name=abc

control\_files=/SSD/19c/oradata/control01.ctl

compatible=19.0.0.0.0

diagnostic\_dest=/SSD/11g/admin

sga\_target=500m

pga\_aggregate\_target=100m

undo\_tablespace=undotbs

undo\_management=AUTO

db\_block\_size=8192

* Save the file and connect to sql prompt and start db in nomount state.

SQL>startup nomount;

* **Check the instance status.**

SQL> select instance\_name,status from v$instance;

1. **Create db creation script.( vi /SSD/19c/creation.sql)**

* [oracle@EIS2APPT 19c]$ cat creation.sql

create database abc

datafile '/SSD/19c/oradata/system01.dbf' size 300m

sysaux datafile '/SSD/19c/oradata/sysaux01.dbf' size 200m

undo tablespace undotbs datafile '/SSD/19c/oradata/undotbs01.dbf' size 100m

default tablespace users datafile '/SSD/19c/oradata/users01.dbf' size 100m

default temporary tablespace temp tempfile '/SSD/19c/oradata/temp01.dbf' size 100m

logfile

group 1 '/SSD/19c/oradata/redo\_01.log' size 50m,

group 2 '/SSD/19c/oradata/redo\_02.log' size 50m,

group 3 '/SSD/19c/oradata/redo\_03.log' size 50m

character set UTF8;

1. **Run the db creation script in nomount state.**

* Connect to the database from where you have created the database creation script.

SQL> @creation.sql

Database created.

1. **Post database creation steps**

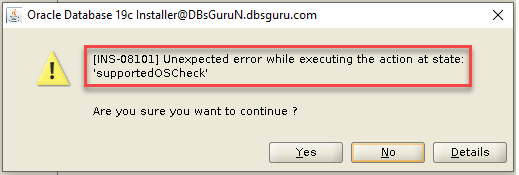
* @?/rdbms/admin/catalog.sql (this script will create default views and synamons in the database)
* @?/rdbms/admin/catproc.sql (this script will create default procedure and packages in the database)

1. **Connect to system user (system/manager) manager is the default password.**

* @?/sqlplus/admin/pupbld.sql

**Issues while installing 19c**

* **[INS-08101] Unexpected error while executing the action at state: ‘supportedOSCheck’.**



**Check the linux version ( cat /etc/os-release),(uname –r)**

* REDHAT\_SUPPORT\_PRODUCT\_VERSION="8.10"
* Kenral : 4.18.0-553.37.1.el8\_10.x86\_64

**Edit file $ORACLE\_HOME/cv/admin/cvu\_config**

* add a new line **CV\_ASSUME\_DISTID=RHEL8.10**

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* Start **./runInstaller**  now error will be cleared