ORACLE 19C-RAC DBMS INSTALLATION

Environment Details:

No. of servers : 2 (node 1, node2).

Version : Oracle linux 7.9

ASM configuration: Yes, refer steps from:

https://www.linkedin.com/posts/umesh-shinde-989187209_oracle-grid-setup-activity-7144377605201231874-owGr?utm_source=share&utm_medium=member_desktop

Ssh and network configuration complted on both the node.

Linux 7.9 installation:

Follow the steps for configuring Network between two node RAC from below mentioned link:

https://www.linkedin.com/posts/umesh-shinde-989187209_oracle-linux-installation-activity-7141727733537046528-OGsK?utm_source=share&utm_medium=member_desktop

- Database Installation
- > Database configuration
- Creating CDB and PDB database.

Setting up directories.

mkdir -p /oracle/app/oracle mkdir -p /oracle/app/oracle/product/19.0.0/db_home chown -R oracle:oinstall /oracle

1. Setting up bash profile

Node 1:

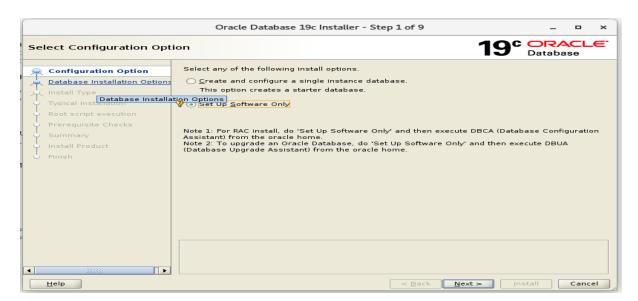
```
if [ -f ~/.bashrc ]; then
. ~/.bashrc
fi
ORACLE_SID=PRODCDB1; export ORACLE_SID
```

```
ORACLE_BASE=/oracle/app/oracle; export ORACLE_BASE
ORACLE HOME=/oracle/app/oracle/product/19.0.0/db home; export ORACLE HOME
ORACLE TERM=xterm; export ORACLE TERM
JAVA_HOME=/usr/bin/java; export JAVA_HOME
TNS ADMIN=$ORACLE HOME/network/admin; export TNS ADMIN
PATH=.:${JAVA HOME}/bin:${PATH}:$HOME/bin:$ORACLE HOME/bin
PATH=${PATH}:/usr/bin:/usr/local/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=$ORACLE HOME/JRE:$ORACLE HOME/jlib:$ORACLE HOME/rdbms/jlib:$ORACLE HOM
E/network/jlib
export CLASSPATH
TEMP=/tmp;export TMP
TMPDIR=$tmp; export TMPDIR
umask 022
_______
Node 2:
if [ -f ~/.bashrc ]; then
. ~/.bashrc
fi
ORACLE_SID=PRODCDB2; export ORACLE_SID
ORACLE_BASE=/oracle/app/oracle; export ORACLE_BASE
ORACLE HOME=/oracle/app/oracle/product/19.0.0/db home; export ORACLE HOME
ORACLE_TERM=xterm; export ORACLE_TERM
JAVA HOME=/usr/bin/java; export JAVA HOME
TNS ADMIN=$ORACLE HOME/network/admin; export TNS ADMIN
PATH=.:${JAVA HOME}/bin:${PATH}:$HOME/bin:$ORACLE HOME/bin
PATH=${PATH}:/usr/bin:/usr/local/bin
export PATH
LD_LIBRARY_PATH=$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:$ORACLE_HOME/jlib:$ORACLE_HOME/rdbms/jlib:$ORACLE_HOM
```

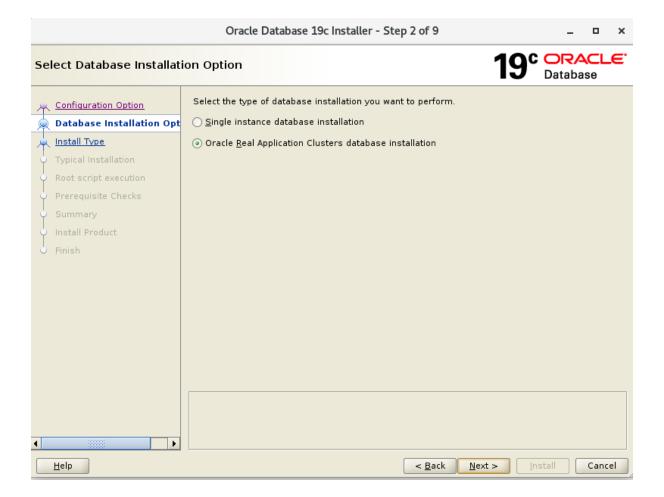
E/network/jlib export CLASSPATH ______

2. Install and Configure Oracle 19c Software binary

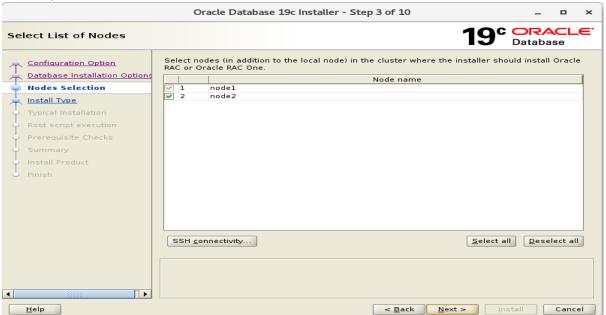
- > copy the database zip file in \$ORACLE_HOME location and then unzip it.
- cd \$ORACLE_HOME Now run runinstaller for database installation.
- ./runInstaller
- 1. Choose 2nd option **Install database software only** option and click **Next**.



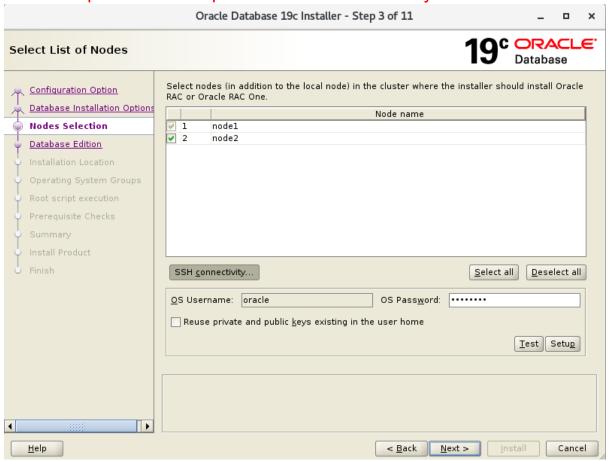
2. Choose 2nd option Oracle Real Application Clusters database installation and click Next.



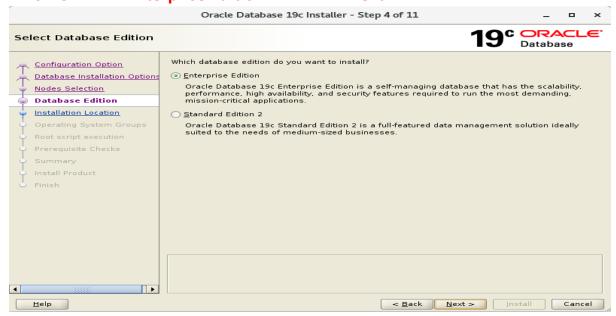
3. Make sure all the nodes are selected otherwise software will only install in single nodes and click on SSH connectivity to create password less connections between the nodes



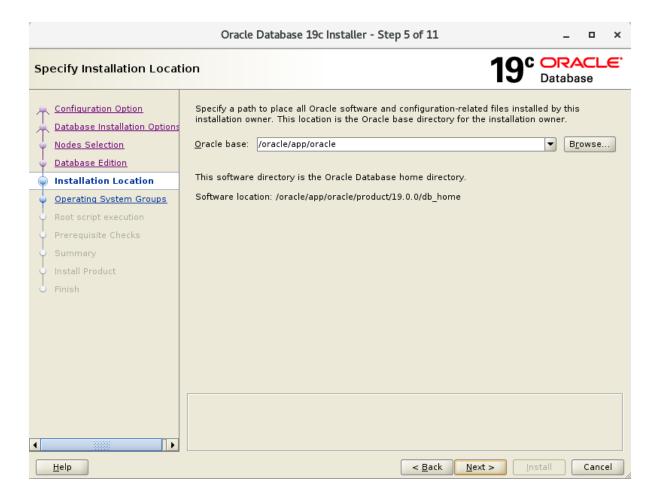
4. Give the Oracle password which you have created and click on setup to create the password less connectivity.



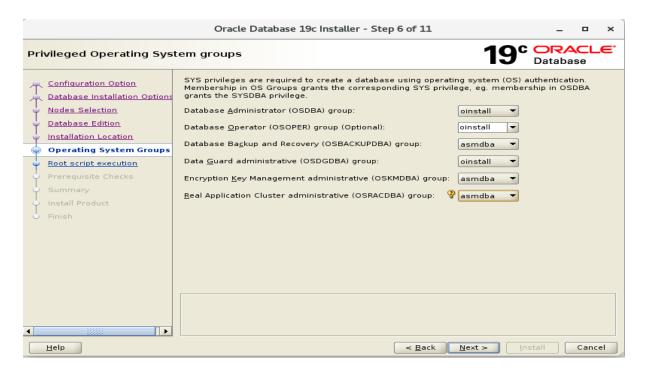
5. Choose Enterprise Edition and click Next.



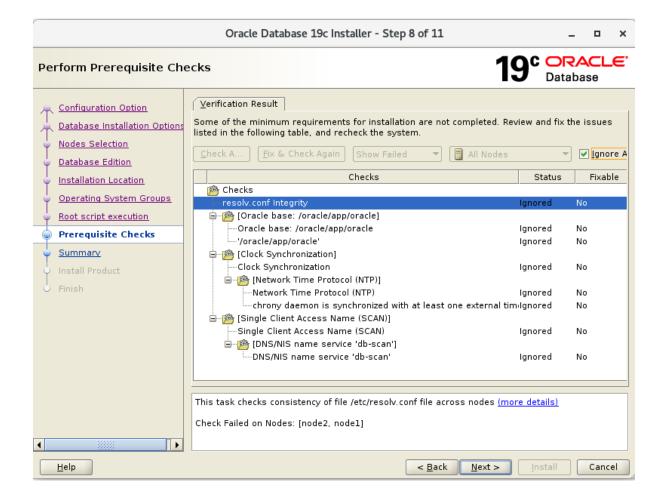
6. Choose the **location** for **Oracle base** and **Software location** as per the requirement.



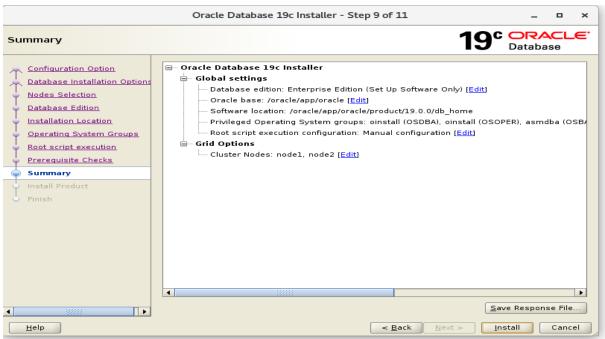
7. Give the privilegedOperating system groups as per your requirement.

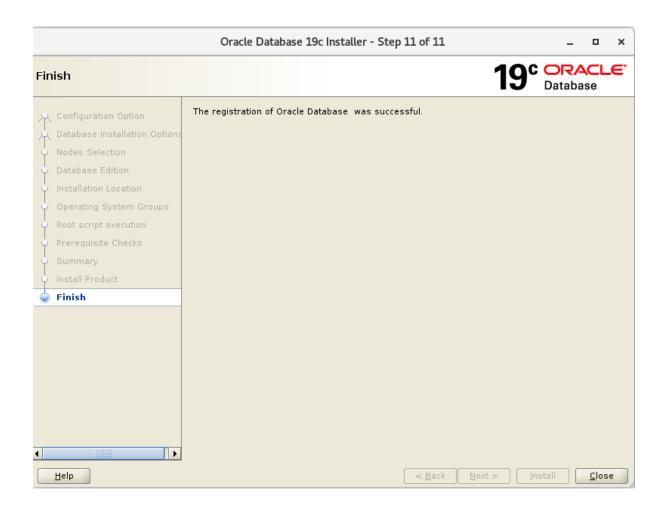


- 8. Uncheck auto execution of root Script >NEXT>
- 9. Ignore all and next



10. Check the **Summary and click on Next to proceed** with the installation.





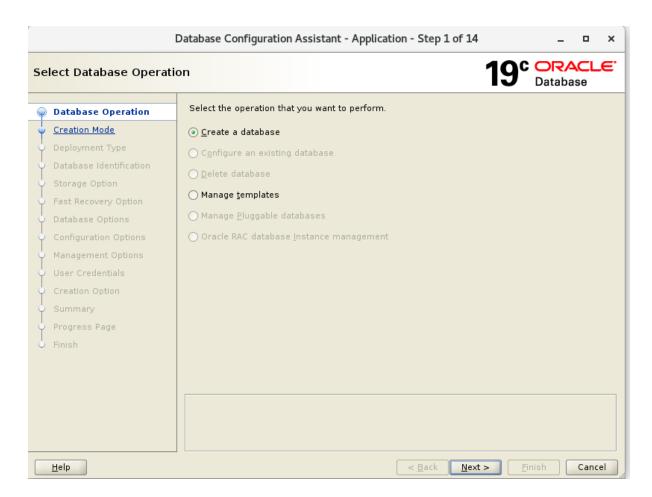
Database Installation Completed.

Database Creation Steps:

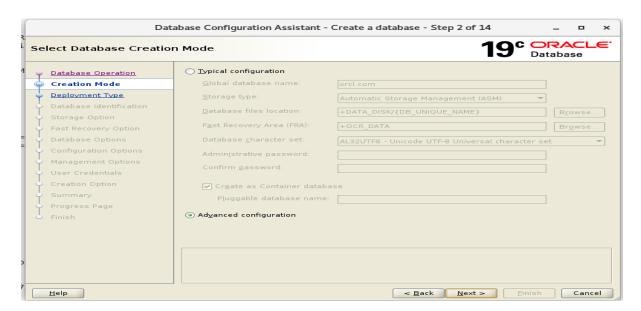
Login as oracle User and go to ORACLE_HOME/bin directory and execute ./dbca command.

```
oracle 15433 5697 0 11:25 pts/0 00:00:00 (
[oracle@node1 db_home]$
[oracle@node1 db_home]$ dbca
```

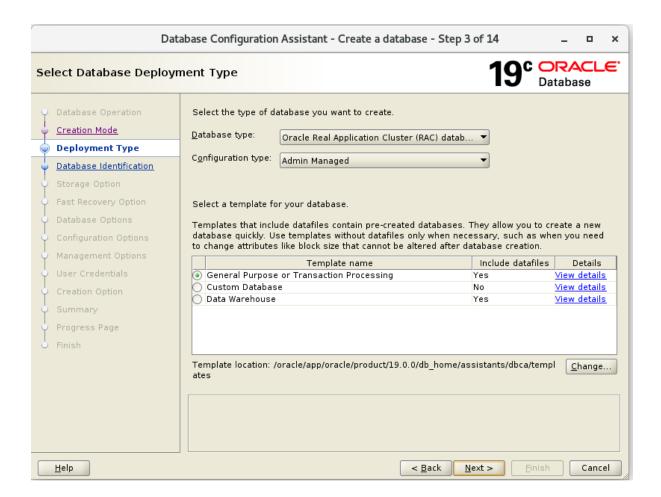
1. Choose the **Create a Database** Option and Click on **Next** button.



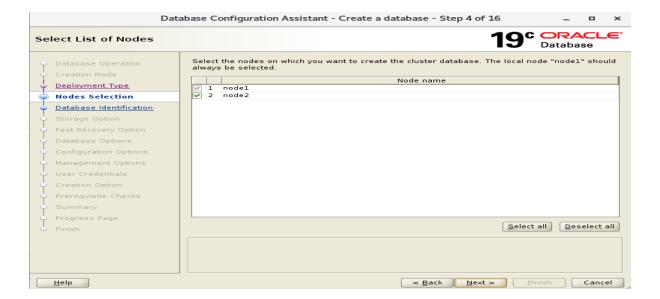
2. Choose Option Advanced Configuration and Click on Next Button.



3. Choose **General purpose or Transaction processing** Option and Click on **Next** button.

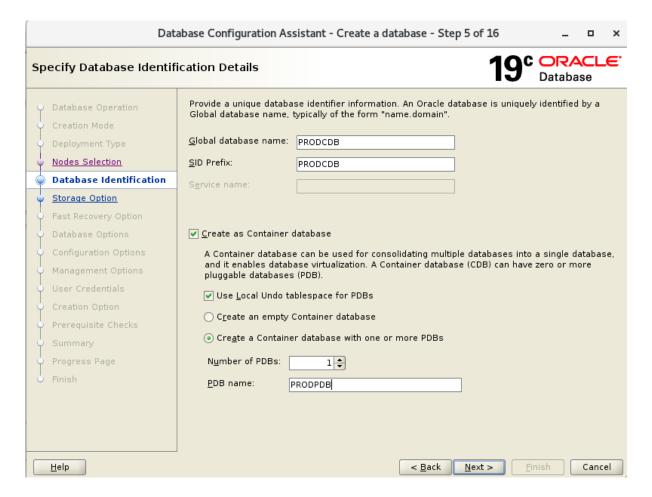


4. Select all the nodes and click on Next.

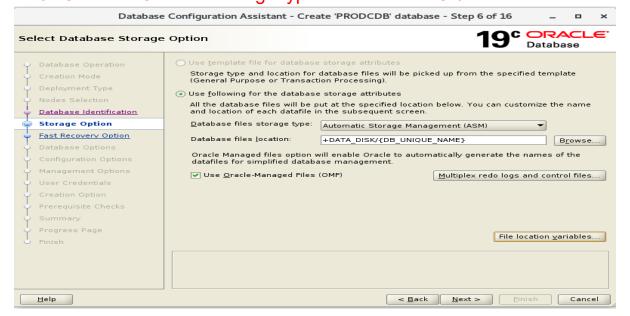


5. Choose your Global Database name and select both the nodes.

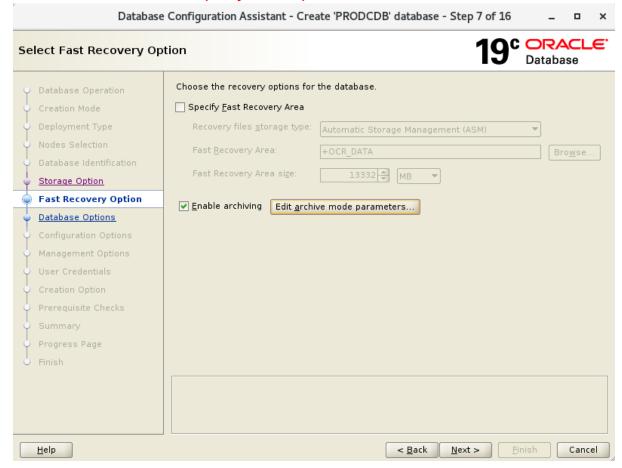
Note: Here we are creating container database with one Pluggable database.



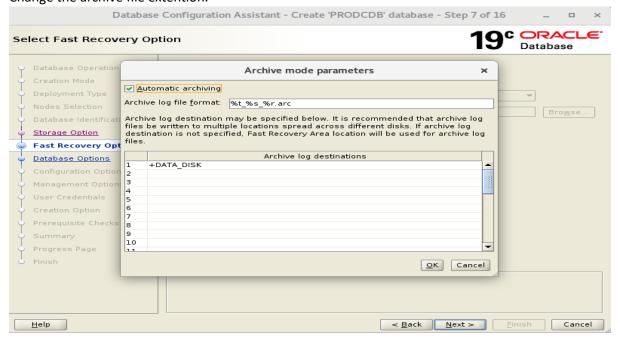
6. Choose ASM as a storage type and click on Next button



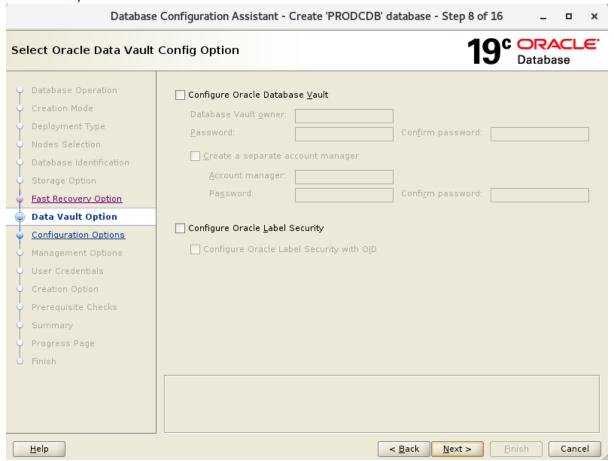
7. Select the FRAas per your requirement



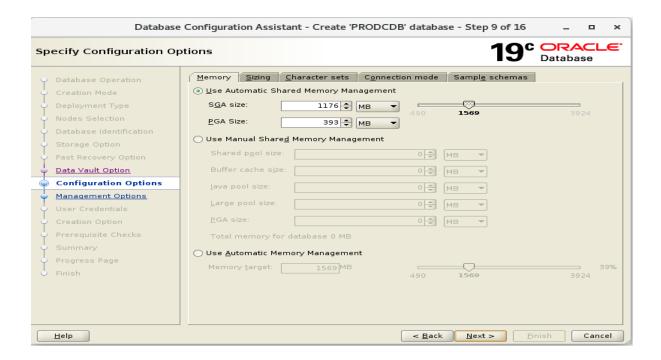
Change the archive file extention.



8. Choose "Database Vault" and "Oracle Label Security" as per your requirement



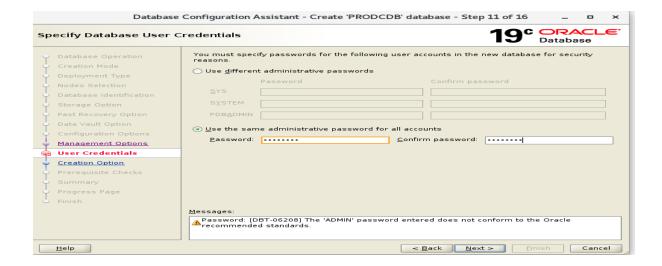
9. Define **Memory, Character sets, Connection mode, Sample schemas** as per your requirements.



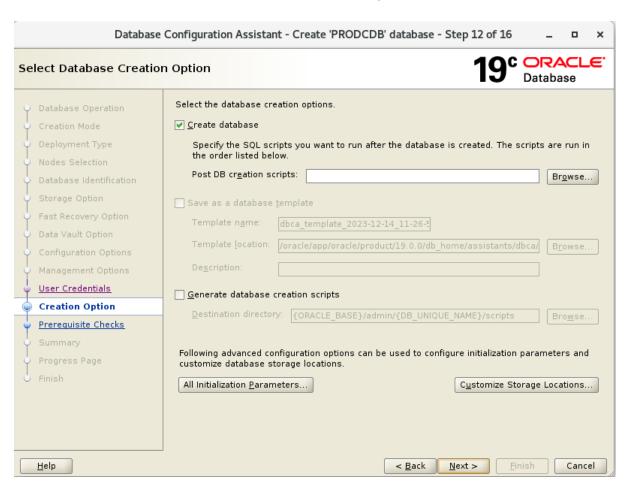
10. Choose EM options as per your requirement,

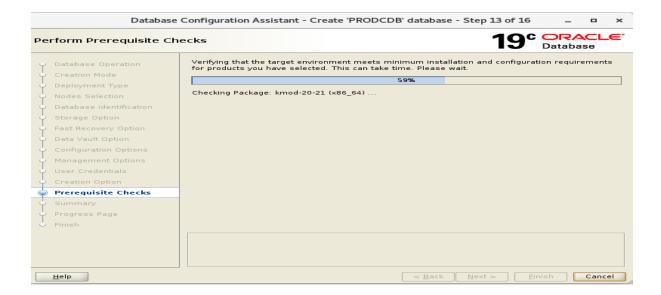
Database	Configuration Assistant - Create 'PRODCDB' databa	se - Step 10 of 16	_ 0 ×
Specify Management Opt	tions	19°	ORACLE' Database
Database Operation Creation Mode Deployment Type Nodes Selection Database Identification Storage Option Fast Recovery Option	Specify the management options for the database. Run Cluster Verification Utility (CVU) checks periodically Configure Enterprise Manager (EM) database express EM database express port: Configure EM database express port as global port Register with Enterprise Manager (EM) cloud control	5500	
Data Vault Option Configuration Options Management Options User Credentials Creation Option Prerequisite Checks Summary Progress Page Finish	OMS host: OMS port: EM admin username: EM admin password: ASMSNMP user password:		
Help	< <u>B</u> ack	<u>N</u> ext > <u>F</u> ir	iish Cancel

11. Set the password of **SYS**

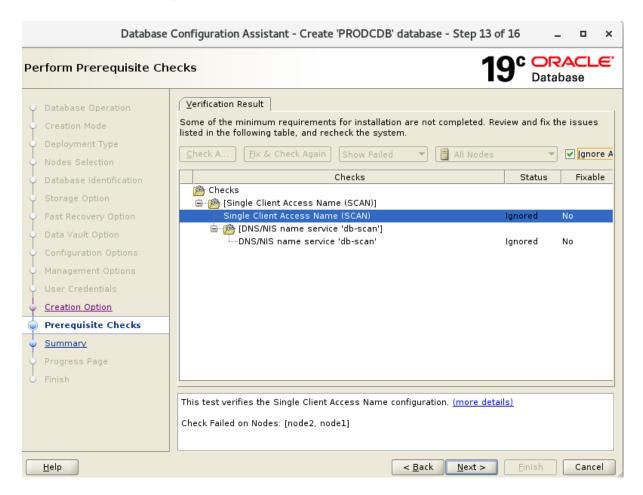


12. Select "CREATE DATABASE " option.

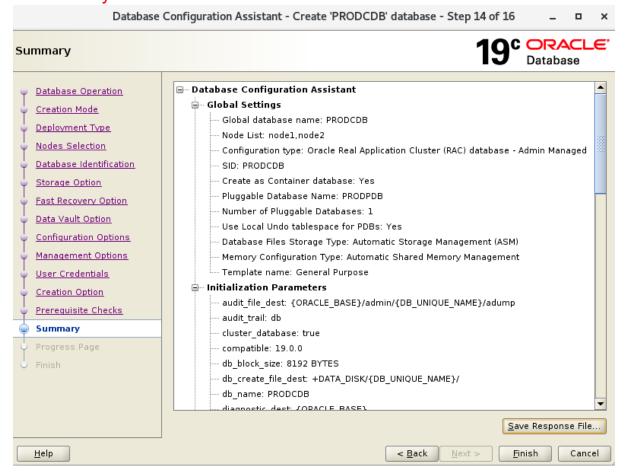




13. Click Ignore all and next > .



14. Check the Summary report, if something went wrong you can rectify and resolve it.



After Progress page complete the configuration by clicking on >FINISH.

Database has been created successfully

Connect to server as oracle oracle:

Sqlplus / as sysdba.



Container Database PRODCDB with pluggable database PRODPDB has been created.