# Oracle setup:

## Oracle software install:

* Install oracle binaries
  + /u01/app/oracle
  + Chown –R {username} {groupname {path}
  + Chown –R oracle oinstall /u01
  + Chmod –R 755 /u01

## Oracle Storage directory:

* Stores Datafiles, Redo log files
* Mkdir –p /mnt/san\_storage/oradata
* Chown –R oracle oinstall /mnt/san\_storage/oradata
* Chmod –R 755 /mnt/san\_storage/oradata

## Environment Variables:

* Export ORACLE\_BASE=/u01/app/oracle
* Export ORACLE\_HOME=$ORACLE\_BASE/product/12.0.01/db\_home
* Export ORACLE\_SID=ORCL
* Export PATH=/usr/bin:$PATH
* Export PATH=$ORACLE\_HOME/bin:$PATH

# Use NETCA to create Listener:

* Cd $ORACLE\_HOME/bin
* Netca
* Listener configuration:
  + Add
  + Listener
  + TCP
  + 1521 port number
  + No
  + Next -> Finish
* Lsnrctl
* Lsnrctl status

# Use DBCA to create a database

* Cd $ORACLE\_HOME/bin
* Dbca
  + Create database
  + Sid: ORCL
  + Oracle enterprice manager port no. 5500
  + Sys & system password set
  + Listener selection
  + Oracle database storage
    - Location: /mnt/san\_storage/oradata
    - Backups: /u01/app/oracle/fast\_recovery\_area
  + Enable Archiving
  + Initializing parameter
    - SGA & PGA memory => 70%
    - SGA > PGA memory (for ex: 1Gb(SGA), 512MB(PGA))
  + Sizing:
    - 300 concurrent session
  + Character set:
    - Unicode
  + Connection mode:
    - Dedicated: Each user session gets 1 dedicated server process.
    - Shared Server: Use Connection pool
  + Generate database Script to reuse same database configuration to next database.

# Start & Stop Oracle listener

* Lsnrctl status
* Lsnrctl stop
* Lsnrctl start

# View & set parameters (SP file)

* Show parameter SGA\_TARGET
* Show parameter SGA\_
* Alter system set SGA\_TARGET = 1024M scope=memory
  + Scope = memeory : modify temporarily and reflect previous value upon database restart.
  + Scope = spfile : Store spfile & reflect upon restart.
  + Scope = both
* Create pfile=’/home/oracle/my\_spfile.ora’ from spfile;