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| Oracle Restart and DB Upgrade 12cR2 to 19c  Document Guide for DBA Internal Only | Technical Consultant  Aziz Prastyo Wibowo  PT Mitra Integrasi Informatika |

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Oracle Restart and DB Upgrade 12cR2 to 19c on RHEL7.7 x86\_64

This activity based on Doc ID 2539778.1 and proven successful in Bank Indonesia. Upgrade path for 19c Oracle Database:

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| --- | --- |
| **Source** | **Target** |
| 11.2.0.4 | 19c |
| 12.1.0.2 | 19c |
| 12.2.0.1 | 19c |
| 18.1 | 19c |

# Gathering Information and Backup Database

The scripts available on: <https://github.com/AzizPW/Oracle/blob/master/OraDBInfo.sql> and <https://github.com/AzizPW/Oracle/blob/master/RMAN-Fullbackup.sh>

1. Gathering Information

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| --- |
| [oracle@dc1sssdbo01 ~]$ **. .db-profile**  [oracle@dc1sssdbo01 ~]$ **env|grep ORA**  ORACLE\_SID=sss  ORACLE\_BASE=/oracle  ORACLE\_HOSTNAME=DC1SSSDBO01.corp.bi.go.id  ORACLE\_TERM=xterm  ORACLE\_HOME=/oracle/product/12.2.0.1/db\_1  [oracle@dc1sssdbo01 ~]$ **srvctl config database -db sss**  Database unique name: sss  Database name: sss  Oracle home: /oracle/product/12.2.0.1/db\_1  Oracle user: oracle  Spfile: +SSS\_DATA/SSS/PARAMETERFILE/spfile.266.1022348097  Password file:  Domain: corp.bi.go.id  Start options: open  Stop options: immediate  Database role: PRIMARY  Management policy: AUTOMATIC  Disk Groups: SSS\_FRA,SSS\_DATA  Services:  OSDBA group:  OSOPER group:  Database instance: sss  [oracle@dc1sssdbo01 ~]$ **. .grid-profile**  [oracle@dc1sssdbo01 ~]$ **crsctl stat res -t**  --------------------------------------------------------------------------------  Name Target State Server State details  --------------------------------------------------------------------------------  Local Resources  --------------------------------------------------------------------------------  ora.LISTENER.lsnr  ONLINE ONLINE dc1sssdbo01 STABLE  ora.LISTENER\_GTW.lsnr  ONLINE ONLINE dc1sssdbo01 STABLE  ora.SSS\_DATA.dg  ONLINE ONLINE dc1sssdbo01 STABLE  ora.SSS\_FRA.dg  ONLINE ONLINE dc1sssdbo01 STABLE  ora.asm  ONLINE ONLINE dc1sssdbo01 Started,STABLE  ora.ons  OFFLINE OFFLINE dc1sssdbo01 STABLE  --------------------------------------------------------------------------------  Cluster Resources  --------------------------------------------------------------------------------  ora.cssd  1 ONLINE ONLINE dc1sssdbo01 STABLE  ora.diskmon  1 OFFLINE OFFLINE STABLE  ora.driver.afd  1 ONLINE ONLINE dc1sssdbo01 STABLE  ora.evmd  1 ONLINE ONLINE dc1sssdbo01 STABLE  ora.sss.db  1 ONLINE ONLINE dc1sssdbo01 Open,HOME=/oracle/pr  oduct/12.2.0.1/db\_1,  STABLE  --------------------------------------------------------------------------------  [oracle@dc1sssdbo01 ~]$ **sqlplus / as sysdba**  SQL\*Plus: Release 12.2.0.1.0 Production on Mon Jan 6 10:42:36 2020  Copyright (c) 1982, 2016, Oracle. All rights reserved.  Connected to:  Oracle Database 12c Enterprise Edition Release 12.2.0.1.0 - 64bit Production  SQL> **@OraDBInfo.sql** |

1. Backup Database

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| [oracle@dc1sssdbo01 ~]$ **. .db-profile**  [oracle@dc1sssdbo01 ~]$ **sqlplus / as sysdba**  SQL\*Plus: Release 12.2.0.1.0 Production on Mon Jan 6 10:42:36 2020  Copyright (c) 1982, 2016, Oracle. All rights reserved.  Connected to:  Oracle Database 12c Enterprise Edition Release 12.2.0.1.0 - 64bit Production  SQL> **create pfile=’/backup/rman/initsss\_20200101.ora’ from spfile;**  File created  SQL> **exit**  Disconnected from Oracle Database 12c Enterprise Edition Release 12.2.0.1.0 - 64bit Production  [oracle@dc1sssdbo01 ~]$ **vi RMAN-Fullbackup.sh; chmod +x RMAN-Fullbackup.sh; cat RMAN-Fullbackup.sh;**  #!/bin/bash  . /home/oracle/.db-profile; export NLS\_DATE\_FORMAT='DD-Mon-RR HH24:MI:SS';  $ORACLE\_HOME/bin/rman target=/ log=/backup/rman/RMAN-Fullbackup\_`date +%Y%m%d`.log << EOF  run{  CONFIGURE DEVICE TYPE DISK PARALLELISM 16;  CROSSCHECK BACKUP;  DELETE NOPROMPT EXPIRED BACKUP;  CROSSCHECK ARCHIVELOG ALL;  DELETE NOPROMPT EXPIRED ARCHIVELOG ALL;  BACKUP AS COMPRESSED BACKUPSET SPFILE TAG 'SPFile' FORMAT '/backup/rman/SPF\_%I%d%T\_%s\_%p.bkp';  SQL 'ALTER SYSTEM ARCHIVE LOG CURRENT';  BACKUP AS COMPRESSED BACKUPSET DATABASE TAG 'FULLDB' FORMAT '/backup/rman/DB\_%I%d%T\_%s\_%p.bkp';  BACKUP AS COMPRESSED BACKUPSET ARCHIVELOG ALL DELETE ALL INPUT TAG 'ARCHIVELOGS' FORMAT '/backup/rman/ARC\_%I%d%T\_%s\_%p.bkp';  BACKUP AS COMPRESSED BACKUPSET CURRENT CONTROLFILE TAG 'PRIMCTRL' FORMAT '/backup/rman/CTRL\_%I%d%T\_%s\_%p.bkp';  BACKUP AS COMPRESSED BACKUPSET CURRENT CONTROLFILE FOR STANDBY TAG 'STBYCTRL' FORMAT '/backup/rman/STBY\_%I%d%T\_%s\_%p.bkp';  CONFIGURE DEVICE TYPE DISK CLEAR;}  EOF  [oracle@dc1sssdbo01 ~]$ **nohup ./RMAN-Fullbackup.sh >> /backup/rman/nohupRMAN-Fullbackup\_`date +%Y%m%d`.log 2>&1 &**  [1] 25376  [oracle@dc1sssdbo01 ~]$ **tail -100f /backup/rman/RMAN-Fullbackup\_20200106.log** |

# Drop Database

You can choose drop database by using DBCA or SQL command line. If you wanna drop **RAC** DB by SQL command line, please ensure the **cluster\_database=false** on the DB parameter.

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| [oracle@dc1sssdbo01 ~]$ **. .db-profile**  [oracle@dc1sssdbo01 ~]$ **srvctl stop database -db sss**  [oracle@dc1sssdbo01 ~]$ **env|grep ORA; rlwrap sqlplus / as sysdba**  ORACLE\_SID=sss  ORACLE\_BASE=/oracle  ORACLE\_HOSTNAME=DC1SSSDBO01.corp.bi.go.id  ORACLE\_TERM=xterm  ORACLE\_HOME=/oracle/product/12.2.0.1/db\_1  SQL\*Plus: Release 12.2.0.1.0 Production on Mon Jan 6 11:16:31 2020  Copyright (c) 1982, 2016, Oracle. All rights reserved.  Connected to an idle instance.  SQL> **STARTUP MOUNT EXCLUSIVE RESTRICT;**  ORACLE instance started.  Total System Global Area 8.1068E+10 bytes  Fixed Size 29864808 bytes  Variable Size 1.3959E+10 bytes  Database Buffers 6.6840E+10 bytes  Redo Buffers 238567424 bytes  Database mounted.  SQL> **SELECT NAME,DB\_UNIQUE\_NAME,DATABASE\_ROLE FROM V$DATABASE;**  NAME DB\_UNIQUE\_NAME DATABASE\_ROLE  --------- ------------------------------ ----------------  SSS sss PRIMARY  SQL> **select instance\_name,status,host\_name from v$instance;**  INSTANCE\_NAME STATUS HOST\_NAME  ---------------- ------------ ----------------------------------------------------------------  sss MOUNTED dc1sssdbo01.corp.bi.go.id  SQL> **drop database;**  Database dropped.  Disconnected from Oracle Database 12c Enterprise Edition Release 12.2.0.1.0 - 64bit Production  SQL> **exit** |

# Deinstall Oracle DB Software 12cR2

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| [oracle@dc1sssdbo01 ~]$ **cd $ORACLE\_HOME/deinstall; pwd;**  /oracle/product/12.2.0.1/db\_1/deinstall  [oracle@dc1sssdbo01 deinstall]$ **env|grep ORA**  ORACLE\_SID=sss  ORACLE\_BASE=/oracle  ORACLE\_HOSTNAME=DC1SSSDBO01.corp.bi.go.id  ORACLE\_TERM=xterm  ORACLE\_HOME=/oracle/product/12.2.0.1/db\_1  [oracle@dc1sssdbo01 deinstall]$ **./deinstall**  Checking for required files and bootstrapping ...  Please wait ...  Location of logs /oracle/oraInventory/logs/  ############ ORACLE DECONFIG TOOL START ############  ######################### DECONFIG CHECK OPERATION START #########################  ## [START] Install check configuration ##  Checking for existence of the Oracle home location /oracle/product/12.2.0.1/db\_1  Oracle Home type selected for deinstall is: Oracle Single Instance Database  Oracle Base selected for deinstall is: /oracle  Checking for existence of central inventory location /oracle/oraInventory  ## [END] Install check configuration ##  Network Configuration check config START  Network de-configuration trace file location: /oracle/oraInventory/logs/netdc\_check2020-01-06\_11-20-35-AM.log  Network Configuration check config END  Database Check Configuration START  Database de-configuration trace file location: /oracle/oraInventory/logs/databasedc\_check2020-01-06\_11-20-36-AM.log  Use comma as separator when specifying list of values as input  Specify the list of database names that are configured in this Oracle home [sss]: **sss**  ###### For Database 'sss' ######  Specify the type of this database (1.Single Instance Database|2.Oracle Restart Enabled Database) [2]: **2**  Specify the list of nodes on which this database has instances [dc1sssdbo01]: **dc1sssdbo01**  Specify the diagnostic destination location of the database [/oracle/diag/rdbms/sss]:  Specify the storage type used by the Database ASM|FS []: **ASM**  Specify if database Archive Mode is Enabled. y/n [n]: **y**  Database Check Configuration END  Oracle Configuration Manager check START  OCM check log file location : /oracle/oraInventory/logs//ocm\_check2258.log  Oracle Configuration Manager check END  ######################### DECONFIG CHECK OPERATION END #########################  ####################### DECONFIG CHECK OPERATION SUMMARY #######################  Oracle Home selected for deinstall is: /oracle/product/12.2.0.1/db\_1  Inventory Location where the Oracle home registered is: /oracle/oraInventory  The following databases were selected for de-configuration : sss  Database unique name : sss  Storage used : ASM  Checking the config status for CCR  Oracle Home exists with CCR directory, but CCR is not configured  CCR check is finished  Do you want to continue (y - yes, n - no)? [n]: **y**  A log of this session will be written to: '/oracle/oraInventory/logs/deinstall\_deconfig2020-01-06\_11-20-35-AM.out'  Any error messages from this session will be written to: '/oracle/oraInventory/logs/deinstall\_deconfig2020-01-06\_11-20-35-AM.err'  ######################## DECONFIG CLEAN OPERATION START ########################  Database de-configuration trace file location: /oracle/oraInventory/logs/databasedc\_clean2020-01-06\_11-22-36-AM.log  Database Clean Configuration START sss  This operation may take few minutes.  Database Clean Configuration END sss  Network Configuration clean config START  Network de-configuration trace file location: /oracle/oraInventory/logs/netdc\_clean2020-01-06\_11-23-18-AM.log  De-configuring Local Net Service Names configuration file...  Local Net Service Names configuration file de-configured successfully.  De-configuring backup files...  Backup files de-configured successfully.  The network configuration has been cleaned up successfully.  Network Configuration clean config END  Oracle Configuration Manager clean START  OCM clean log file location : /oracle/oraInventory/logs//ocm\_clean2258.log  Oracle Configuration Manager clean END  ######################### DECONFIG CLEAN OPERATION END #########################  ####################### DECONFIG CLEAN OPERATION SUMMARY #######################  Successfully de-configured the following database instances : sss  Cleaning the config for CCR  As CCR is not configured, so skipping the cleaning of CCR configuration  CCR clean is finished  #######################################################################  ############# ORACLE DECONFIG TOOL END #############  Using properties file /tmp/deinstall2020-01-06\_11-20-18AM/response/deinstall\_2020-01-06\_11-20-35-AM.rsp  Location of logs /oracle/oraInventory/logs/  ############ ORACLE DEINSTALL TOOL START ############  ####################### DEINSTALL CHECK OPERATION SUMMARY #######################  A log of this session will be written to: '/oracle/oraInventory/logs/deinstall\_deconfig2020-01-06\_11-20-35-AM.out'  Any error messages from this session will be written to: '/oracle/oraInventory/logs/deinstall\_deconfig2020-01-06\_11-20-35-AM.err'  ######################## DEINSTALL CLEAN OPERATION START ########################  ## [START] Preparing for Deinstall ##  Setting LOCAL\_NODE to dc1sssdbo01  Setting CRS\_HOME to false  Setting oracle.installer.invPtrLoc to /tmp/deinstall2020-01-06\_11-20-18AM/oraInst.loc  Setting oracle.installer.local to false  ## [END] Preparing for Deinstall ##  Setting the force flag to false  Setting the force flag to cleanup the Oracle Base  Oracle Universal Installer clean START  Detach Oracle home '/oracle/product/12.2.0.1/db\_1' from the central inventory on the local node : Done  Delete directory '/oracle/product/12.2.0.1/db\_1' on the local node : Done  The Oracle Base directory '/oracle' will not be removed on local node. The directory is in use by Oracle Home '/oracle/product/12.2.0.1/grid'.  The Oracle Base directory '/oracle' will not be removed on local node. The directory is in use by central inventory.  Oracle Universal Installer cleanup was successful.  Oracle Universal Installer clean END  ## [START] Oracle install clean ##  ## [END] Oracle install clean ##  ######################### DEINSTALL CLEAN OPERATION END #########################  ####################### DEINSTALL CLEAN OPERATION SUMMARY #######################  Successfully detached Oracle home '/oracle/product/12.2.0.1/db\_1' from the central inventory on the local node.  Successfully deleted directory '/oracle/product/12.2.0.1/db\_1' on the local node.  Oracle Universal Installer cleanup was successful.  Review the permissions and contents of '/oracle' on nodes(s) 'dc1sssdbo01'.  If there are no Oracle home(s) associated with '/oracle', manually delete '/oracle' and its contents.  Oracle deinstall tool successfully cleaned up temporary directories.  #######################################################################  ############# ORACLE DEINSTALL TOOL END #############  [oracle@dc1sssdbo01 deinstall]$ **cd ~**  [oracle@dc1sssdbo01 ~]$ |

# Deinstall Oracle Gateways 12cR2 (if exists)

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| [oracle@dc1sssdbo01 ~]$ **ps -ef|grep tnsl**  oracle 12288 1 0 2019 ? 00:01:40 /oracle/product/12.2.0.1/grid/bin/tnslsnr LISTENER -no\_crs\_notify -inherit  oracle 12300 1 0 2019 ? 00:03:32 /oracle/product/12.2.0.1/GW1\_HOME/bin/tnslsnr LISTENER\_GTW -no\_crs\_notify -inherit  oracle 32428 28008 0 11:26 pts/2 00:00:00 grep --color=auto tnsl  [oracle@dc1sssdbo01 ~]$ **export ORACLE\_HOME=/oracle/product/12.2.0.1/GW1\_HOME**  [oracle@dc1sssdbo01 ~]$ **cd $ORACLE\_HOME/**  [oracle@dc1sssdbo01 GW1\_HOME]$ **bin/lsnrctl status LISTENER\_GTW**  LSNRCTL for Linux: Version 12.2.0.1.0 - Production on 06-JAN-2020 11:28:30  Copyright (c) 1991, 2016, Oracle. All rights reserved.  Connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=dc1sssdbo01.corp.bi.go.id)(PORT=1522)))  STATUS of the LISTENER  ------------------------  Alias LISTENER\_GTW  Version TNSLSNR for Linux: Version 12.2.0.1.0 - Production  Start Date 28-OCT-2019 10:05:44  Uptime 70 days 1 hr. 22 min. 46 sec  Trace Level off  Security ON: Local OS Authentication  SNMP OFF  Listener Parameter File /oracle/product/12.2.0.1/GW1\_HOME/network/admin/listener.ora  Listener Log File /oracle/diag/tnslsnr/dc1sssdbo01/listener\_gtw/alert/log.xml  Listening Endpoints Summary...  (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=dc1sssdbo01.corp.bi.go.id)(PORT=1522)))  (DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=EXTPROC1522)))  The listener supports no services  The command completed successfully  [oracle@dc1sssdbo01 GW1\_HOME]$ **bin/lsnrctl stop LISTENER\_GTW**  LSNRCTL for Linux: Version 12.2.0.1.0 - Production on 06-JAN-2020 11:29:14  Copyright (c) 1991, 2016, Oracle. All rights reserved.  Connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=dc1sssdbo01.corp.bi.go.id)(PORT=1522)))  The command completed successfully  [oracle@dc1sssdbo01 GW1\_HOME]$ **ps -ef|grep tnsl**  oracle 12288 1 0 2019 ? 00:01:40 /oracle/product/12.2.0.1/grid/bin/tnslsnr LISTENER -no\_crs\_notify -inherit  oracle 32670 28008 0 11:29 pts/2 00:00:00 grep --color=auto tnsl  [oracle@dc1sssdbo01 GW1\_HOME]$ **cd deinstall/**  [oracle@dc1sssdbo01 deinstall]$ **./deinstall**  Checking for required files and bootstrapping ...  Please wait ...  Location of logs /oracle/oraInventory/logs/  ############ ORACLE DECONFIG TOOL START ############  ######################### DECONFIG CHECK OPERATION START #########################  ## [START] Install check configuration ##  Checking for existence of the Oracle home location /oracle/product/12.2.0.1/GW1\_HOME  Oracle Home type selected for deinstall is: Oracle Database Gateway  Oracle Base selected for deinstall is: /oracle  Checking for existence of central inventory location /oracle/oraInventory  ## [END] Install check configuration ##  Network Configuration check config START  Network de-configuration trace file location: /oracle/oraInventory/logs/netdc\_check2020-01-06\_11-30-29-AM.log  Specify all Oracle Restart enabled listeners that are to be de-configured. Enter .(dot) to deselect all. [LISTENER\_GTW]:**LISTENER\_GTW**  Network Configuration check config END  ######################### DECONFIG CHECK OPERATION END #########################  ####################### DECONFIG CHECK OPERATION SUMMARY #######################  Oracle Home selected for deinstall is: /oracle/product/12.2.0.1/GW1\_HOME  Inventory Location where the Oracle home registered is: /oracle/oraInventory  Do you want to continue (y - yes, n - no)? [n]: **y**  A log of this session will be written to: '/oracle/oraInventory/logs/deinstall\_deconfig2020-01-06\_11-30-29-AM.out'  Any error messages from this session will be written to: '/oracle/oraInventory/logs/deinstall\_deconfig2020-01-06\_11-30-29-AM.err'  ######################## DECONFIG CLEAN OPERATION START ########################  Network Configuration clean config START  Network de-configuration trace file location: /oracle/oraInventory/logs/netdc\_clean2020-01-06\_11-30-48-AM.log  De-configuring Oracle Restart enabled listener(s): LISTENER\_GTW  De-configuring listener: LISTENER\_GTW  Stopping listener: LISTENER\_GTW  Warning: Failed to stop listener. Listener may not be running.  Unregistering listener: LISTENER\_GTW  Listener unregistered successfully.  Deleting listener: LISTENER\_GTW  Listener deleted successfully.  Listener de-configured successfully.  De-configuring Naming Methods configuration file...  Naming Methods configuration file de-configured successfully.  De-configuring backup files...  Backup files de-configured successfully.  The network configuration has been cleaned up successfully.  Network Configuration clean config END  ######################### DECONFIG CLEAN OPERATION END #########################  ####################### DECONFIG CLEAN OPERATION SUMMARY #######################  Following Oracle Restart enabled listener(s) were de-configured successfully: LISTENER\_GTW  #######################################################################  ############# ORACLE DECONFIG TOOL END #############  Using properties file /tmp/deinstall2020-01-06\_11-30-10AM/response/deinstall\_2020-01-06\_11-30-29-AM.rsp  Location of logs /oracle/oraInventory/logs/  ############ ORACLE DEINSTALL TOOL START ############  ####################### DEINSTALL CHECK OPERATION SUMMARY #######################  A log of this session will be written to: '/oracle/oraInventory/logs/deinstall\_deconfig2020-01-06\_11-30-29-AM.out'  Any error messages from this session will be written to: '/oracle/oraInventory/logs/deinstall\_deconfig2020-01-06\_11-30-29-AM.err'  ######################## DEINSTALL CLEAN OPERATION START ########################  ## [START] Preparing for Deinstall ##  Setting LOCAL\_NODE to dc1sssdbo01  Setting CRS\_HOME to false  Setting oracle.installer.invPtrLoc to /tmp/deinstall2020-01-06\_11-30-10AM/oraInst.loc  Setting oracle.installer.local to false  ## [END] Preparing for Deinstall ##  Setting the force flag to false  Setting the force flag to cleanup the Oracle Base  Oracle Universal Installer clean START  Detach Oracle home '/oracle/product/12.2.0.1/GW1\_HOME' from the central inventory on the local node : Done  Delete directory '/oracle/product/12.2.0.1/GW1\_HOME' on the local node : Done  The Oracle Base directory '/oracle' will not be removed on local node. The directory is in use by Oracle Home '/oracle/product/12.2.0.1/grid'.  The Oracle Base directory '/oracle' will not be removed on local node. The directory is in use by central inventory.  Oracle Universal Installer cleanup was successful.  Oracle Universal Installer clean END  ## [START] Oracle install clean ##  ## [END] Oracle install clean ##  ######################### DEINSTALL CLEAN OPERATION END #########################  ####################### DEINSTALL CLEAN OPERATION SUMMARY #######################  Successfully detached Oracle home '/oracle/product/12.2.0.1/GW1\_HOME' from the central inventory on the local node.  Successfully deleted directory '/oracle/product/12.2.0.1/GW1\_HOME' on the local node.  Oracle Universal Installer cleanup was successful.  Review the permissions and contents of '/oracle' on nodes(s) 'dc1sssdbo01'.  If there are no Oracle home(s) associated with '/oracle', manually delete '/oracle' and its contents.  Oracle deinstall tool successfully cleaned up temporary directories.  #######################################################################  ############# ORACLE DEINSTALL TOOL END #############  [oracle@dc1sssdbo01 deinstall]$ **cd ~**  [oracle@dc1sssdbo01 ~]$ |

# Deinstall Grid Infrastructure 12cR2

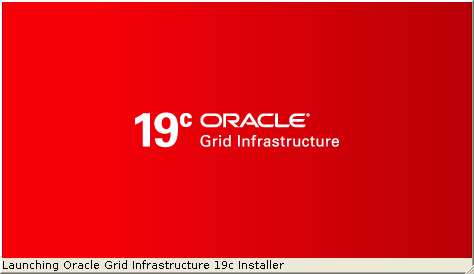
|  |
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| [oracle@dc1sssdbo01 ~]$ **. .grid-profile**  [oracle@dc1sssdbo01 ~]$ **rlwrap sqlplus / as sysasm**  SQL\*Plus: Release 12.2.0.1.0 Production on Mon Jan 6 11:36:44 2020  Copyright (c) 1982, 2016, Oracle. All rights reserved.  Connected to:  Oracle Database 12c Enterprise Edition Release 12.2.0.1.0 - 64bit Production  SQL> **set lines 250 pages 5000 timing on;**  SQL> **COL PATH FOR A50;**  SQL> **COL NAME FOR A25;**  SQL> **SELECT MOUNT\_STATUS,HEADER\_STATUS,STATE,ROUND(TOTAL\_MB/1024,2)TOTAL\_GB,ROUND(FREE\_MB/1024,2)FREE\_GB,NAME,PATH FROM V$ASM\_DISK ORDER BY NAME;**  MOUNT\_S HEADER\_STATU STATE TOTAL\_GB FREE\_GB NAME PATH  ------- ------------ -------- ---------- ---------- ------------------------- --------------------------------------------------  CACHED MEMBER NORMAL 200 199.93 FRA1 AFD:SSS\_FRA1  CACHED MEMBER NORMAL 200 199.93 FRA2 AFD:SSS\_FRA2  CACHED MEMBER NORMAL 500 499.96 SSS\_DATA1 AFD:SSS\_DATA1  CACHED MEMBER NORMAL 500 499.95 SSS\_DATA2 AFD:SSS\_DATA2  CACHED MEMBER NORMAL 500 499.97 SSS\_DATA3 AFD:SSS\_DATA3  CACHED MEMBER NORMAL 500 499.97 SSS\_DATA4 AFD:SSS\_DATA4  IGNORED MEMBER NORMAL 0 0 /dev/sddlmae1  IGNORED MEMBER NORMAL 0 0 /dev/sddlmab1  IGNORED MEMBER NORMAL 0 0 /dev/sddlmaf1  IGNORED MEMBER NORMAL 0 0 /dev/sddlmad1  IGNORED MEMBER NORMAL 0 0 /dev/sddlmaa1  IGNORED MEMBER NORMAL 0 0 /dev/sddlmac1  12 rows selected.  Elapsed: 00:00:00.05  SQL> **SELECT NAME,TYPE,ROUND(TOTAL\_MB/1024,2)TOTAL\_GB,ROUND(FREE\_MB/1024,2)FREE\_GB,ROUND(USABLE\_FILE\_MB/1024,2)USABLE\_FILE\_GB,STATE,SECTOR\_SIZE,BLOCK\_SIZE FROM V$ASM\_DISKGROUP ORDER BY NAME;**  NAME TYPE TOTAL\_GB FREE\_GB USABLE\_FILE\_GB STATE SECTOR\_SIZE BLOCK\_SIZE  ------------------------- ------ ---------- ---------- -------------- ----------- ----------- ----------  SSS\_DATA EXTERN 1999.98 1999.85 1999.85 MOUNTED 512 4096  SSS\_FRA EXTERN 399.99 399.87 399.87 MOUNTED 512 4096  Elapsed: 00:00:00.02  SQL> **COL ASMDISK FOR A15;**  SQL> **COL DISKGROUP FOR A25;**  SQL> **SELECT DG.NAME DISKGROUP,DG.TYPE,D.NAME ASMDISK,D.PATH,ROUND(D.TOTAL\_MB/1024,2)TOTAL\_GB,ROUND(D.FREE\_MB/1024,2)FREE\_GB,D.VOTING\_FILE,DG.SECTOR\_SIZE,DG.BLOCK\_SIZE FROM V$ASM\_DISKGROUP DG JOIN V$ASM\_DISK D ON DG.GROUP\_NUMBER=D.GROUP\_NUMBER ORDER BY 3;**  DISKGROUP TYPE ASMDISK PATH TOTAL\_GB FREE\_GB V SECTOR\_SIZE BLOCK\_SIZE  ------------------------- ------ --------------- -------------------------------------------------- ---------- ---------- - ----------- ----------  SSS\_FRA EXTERN FRA1 AFD:SSS\_FRA1 200 199.93 N 512 4096  SSS\_FRA EXTERN FRA2 AFD:SSS\_FRA2 200 199.93 N 512 4096  SSS\_DATA EXTERN SSS\_DATA1 AFD:SSS\_DATA1 500 499.96 N 512 4096  SSS\_DATA EXTERN SSS\_DATA2 AFD:SSS\_DATA2 500 499.95 N 512 4096  SSS\_DATA EXTERN SSS\_DATA3 AFD:SSS\_DATA3 500 499.97 N 512 4096  SSS\_DATA EXTERN SSS\_DATA4 AFD:SSS\_DATA4 500 499.97 N 512 4096  6 rows selected.  Elapsed: 00:00:00.03  SQL> **COL VOLUME\_NAME FOR A10;**  SQL> **COL USAGE FOR A10;**  SQL> **COL MOUNTPATH FOR A35;**  SQL> **COL VOLUME\_DEVICE FOR A30;**  SQL> **SELECT GROUP\_NUMBER,VOLUME\_NAME,ROUND(SIZE\_MB/1024,2)SIZE\_GB,VOLUME\_NUMBER,REDUNDANCY,STATE,FILE\_NUMBER,USAGE,VOLUME\_DEVICE,MOUNTPATH FROM V$ASM\_VOLUME;**  no rows selected  Elapsed: 00:00:00.00  SQL> **exit**  Disconnected from Oracle Database 12c Enterprise Edition Release 12.2.0.1.0 - 64bit Production  [oracle@dc1sssdbo01 ~]$ **. .grid-profile**  [oracle@dc1sssdbo01 ~]$ **env|grep ORA**  ORACLE\_SID=+ASM  ORACLE\_BASE=/oracle  ORACLE\_HOSTNAME=DC1SSSDBO01.corp.bi.go.id  ORACLE\_TERM=xterm  ORACLE\_HOME=/oracle/product/12.2.0.1/grid  [oracle@dc1sssdbo01 ~]$ **cd $ORACLE\_HOME/deinstall**  [oracle@dc1sssdbo01 deinstall]$ **./deinstall**  Checking for required files and bootstrapping ...  Please wait ...  Location of logs /tmp/deinstall2020-01-06\_11-35-51AM/logs/  ############ ORACLE DECONFIG TOOL START ############  ######################### DECONFIG CHECK OPERATION START #########################  ## [START] Install check configuration ##  Checking for existence of the Oracle home location /oracle/product/12.2.0.1/grid  Oracle Home type selected for deinstall is: Oracle Grid Infrastructure for a Standalone Server  Oracle Base selected for deinstall is: /oracle  Checking for existence of central inventory location /oracle/oraInventory  Checking for existence of the Oracle Grid Infrastructure home /oracle/product/12.2.0.1/grid  ## [END] Install check configuration ##  Traces log file: /tmp/deinstall2020-01-06\_11-35-51AM/logs//crsdc\_2020-01-06\_11-36-06-AM.log  Network Configuration check config START  Network de-configuration trace file location: /tmp/deinstall2020-01-06\_11-35-51AM/logs/netdc\_check2020-01-06\_11-36-06-AM.log  Specify all Oracle Restart enabled listeners that are to be de-configured. Enter .(dot) to deselect all. [LISTENER]:**LISTENER**  Network Configuration check config END  Asm Check Configuration START  ASM de-configuration trace file location: /tmp/deinstall2020-01-06\_11-35-51AM/logs/asmcadc\_check2020-01-06\_11-36-14-AM.log  Automatic Storage Management (ASM) instance is detected in this Oracle home /oracle/product/12.2.0.1/grid.  ASM Diagnostic Destination : /oracle  ASM Diskgroups : +SSS\_DATA,+SSS\_FRA  ASM diskstring : AFD:\*,/dev/sddlma\*1  Diskgroups will be dropped and all ASM filter driver labels will be cleared  De-configuring ASM will drop all the diskgroups and their contents at cleanup time. Also ASM filter driver labels will be cleared. This will affect all of the databases and ACFS that use this ASM instance(s).  If you want to retain the existing diskgroups and associated ASM filter driver labels or if any of the information detected is incorrect, you can modify by entering 'y'. Do you want to modify above information (y|n) [n]: n  Database Check Configuration START  Database de-configuration trace file location: /tmp/deinstall2020-01-06\_11-35-51AM/logs/databasedc\_check2020-01-06\_11-39-11-AM.log  Database Check Configuration END  ######################### DECONFIG CHECK OPERATION END #########################  ####################### DECONFIG CHECK OPERATION SUMMARY #######################  Oracle Grid Infrastructure Home is: /oracle/product/12.2.0.1/grid  Oracle Home selected for deinstall is: /oracle/product/12.2.0.1/grid  Inventory Location where the Oracle home registered is: /oracle/oraInventory  Following Oracle Restart enabled listener(s) will be de-configured: LISTENER  ASM instance will be de-configured from this Oracle home  Do you want to continue (y - yes, n - no)? [n]: y  A log of this session will be written to: '/tmp/deinstall2020-01-06\_11-35-51AM/logs/deinstall\_deconfig2020-01-06\_11-36-06-AM.out'  Any error messages from this session will be written to: '/tmp/deinstall2020-01-06\_11-35-51AM/logs/deinstall\_deconfig2020-01-06\_11-36-06-AM.err'  ######################## DECONFIG CLEAN OPERATION START ########################  Database de-configuration trace file location: /tmp/deinstall2020-01-06\_11-35-51AM/logs/databasedc\_clean2020-01-06\_11-39-21-AM.log  ASM de-configuration trace file location: /tmp/deinstall2020-01-06\_11-35-51AM/logs/asmcadc\_clean2020-01-06\_11-39-21-AM.log  ASM Clean Configuration START  ASM Clean Configuration END  Network Configuration clean config START  Network de-configuration trace file location: /tmp/deinstall2020-01-06\_11-35-51AM/logs/netdc\_clean2020-01-06\_11-41-23-AM.log  De-configuring Oracle Restart enabled listener(s): LISTENER  De-configuring listener: LISTENER  Stopping listener: LISTENER  Listener stopped successfully.  Unregistering listener: LISTENER  Listener unregistered successfully.  Deleting listener: LISTENER  Listener deleted successfully.  Listener de-configured successfully.  De-configuring Naming Methods configuration file...  Naming Methods configuration file de-configured successfully.  De-configuring backup files...  Backup files de-configured successfully.  The network configuration has been cleaned up successfully.  Network Configuration clean config END  ---------------------------------------->  Run the following command as the root user or the administrator on node "dc1sssdbo01".  /oracle/product/12.2.0.1/grid/crs/install/roothas.sh -force -deconfig -paramfile "/tmp/deinstall2020-01-06\_11-35-51AM/response/deinstall\_OraGI12Home1.rsp"  Press Enter after you finish running the above commands  <----------------------------------------  ######################### DECONFIG CLEAN OPERATION END #########################  ####################### DECONFIG CLEAN OPERATION SUMMARY #######################  ASM instance was de-configured successfully from the Oracle home  Following Oracle Restart enabled listener(s) were de-configured successfully: LISTENER  Oracle Restart was already stopped and de-configured on node "dc1sssdbo01"  Oracle Restart is stopped and de-configured successfully.  #######################################################################  ############# ORACLE DECONFIG TOOL END #############  Using properties file /tmp/deinstall2020-01-06\_11-35-51AM/response/deinstall\_2020-01-06\_11-36-06-AM.rsp  Location of logs /tmp/deinstall2020-01-06\_11-35-51AM/logs/  ############ ORACLE DEINSTALL TOOL START ############  ####################### DEINSTALL CHECK OPERATION SUMMARY #######################  A log of this session will be written to: '/tmp/deinstall2020-01-06\_11-35-51AM/logs/deinstall\_deconfig2020-01-06\_11-36-06-AM.out'  Any error messages from this session will be written to: '/tmp/deinstall2020-01-06\_11-35-51AM/logs/deinstall\_deconfig2020-01-06\_11-36-06-AM.err'  ######################## DEINSTALL CLEAN OPERATION START ########################  ## [START] Preparing for Deinstall ##  Setting LOCAL\_NODE to dc1sssdbo01  Setting CRS\_HOME to true  Setting oracle.installer.invPtrLoc to /tmp/deinstall2020-01-06\_11-35-51AM/oraInst.loc  Setting oracle.installer.local to false  ## [END] Preparing for Deinstall ##  Setting the force flag to false  Setting the force flag to cleanup the Oracle Base  Oracle Universal Installer clean START  Detach Oracle home '/oracle/product/12.2.0.1/grid' from the central inventory on the local node : Done  Delete directory '/oracle/product/12.2.0.1/grid' on the local node : Done  Delete directory '/oracle/oraInventory' on the local node : Done  Failed to delete the directory '/oracle/log/diag/asmcmd/user\_root/dc1sssdbo01.corp.bi.go.id/trace'. Either user has no permission to delete or it is in use.  The Oracle Base directory '/oracle' will not be removed on local node. The directory is not empty.  Oracle Universal Installer cleanup was successful.  Oracle Universal Installer clean END  ## [START] Oracle install clean ##  ## [END] Oracle install clean ##  ######################### DEINSTALL CLEAN OPERATION END #########################  ####################### DEINSTALL CLEAN OPERATION SUMMARY #######################  Successfully detached Oracle home '/oracle/product/12.2.0.1/grid' from the central inventory on the local node.  Successfully deleted directory '/oracle/product/12.2.0.1/grid' on the local node.  Successfully deleted directory '/oracle/oraInventory' on the local node.  Oracle Universal Installer cleanup was successful.  Run 'rm -r /etc/oraInst.loc' as root on node(s) 'dc1sssdbo01' at the end of the session.  Run 'rm -r /opt/ORCLfmap' as root on node(s) 'dc1sssdbo01' at the end of the session.  Run 'rm -r /etc/oratab' as root on node(s) 'dc1sssdbo01' at the end of the session.  Review the permissions and contents of '/oracle' on nodes(s) 'dc1sssdbo01'.  If there are no Oracle home(s) associated with '/oracle', manually delete '/oracle' and its contents.  Oracle deinstall tool successfully cleaned up temporary directories.  #######################################################################  ############# ORACLE DEINSTALL TOOL END #############  [oracle@dc1sssdbo01 deinstall]$ **cd ~**  [oracle@dc1sssdbo01 ~]$  [root@dc1sssdbo01 ~]# **cd /oracle/product/12.2.0.1/grid/crs/install**  [root@dc1sssdbo01 install]# **./roothas.sh -force -deconfig -paramfile "/tmp/deinstall2020-01-06\_11-35-51AM/response/deinstall\_OraGI12Home1.rsp"**  Using configuration parameter file: /tmp/deinstall2020-01-06\_11-35-51AM/response/deinstall\_OraGI12Home1.rsp  The log of current session can be found at:  /tmp/deinstall2020-01-06\_11-35-51AM/logs/hadeconfig.log  CRS-2791: Starting shutdown of Oracle High Availability Services-managed resources on 'dc1sssdbo01'  CRS-2673: Attempting to stop 'ora.evmd' on 'dc1sssdbo01'  CRS-2677: Stop of 'ora.evmd' on 'dc1sssdbo01' succeeded  CRS-2673: Attempting to stop 'ora.cssd' on 'dc1sssdbo01'  CRS-2677: Stop of 'ora.cssd' on 'dc1sssdbo01' succeeded  CRS-2673: Attempting to stop 'ora.driver.afd' on 'dc1sssdbo01'  CRS-2677: Stop of 'ora.driver.afd' on 'dc1sssdbo01' succeeded  CRS-2793: Shutdown of Oracle High Availability Services-managed resources on 'dc1sssdbo01' has completed  CRS-4133: Oracle High Availability Services has been stopped.  2020/01/06 11:44:49 CLSRSC-337: Successfully deconfigured Oracle Restart stack  [root@dc1sssdbo01 install]# cd /home/oracle  [root@dc1sssdbo01 oracle]# rm -r /etc/oraInst.loc  rm: remove regular file ‘/etc/oraInst.loc’?  [root@dc1sssdbo01 oracle]# **rm -rf /etc/oraInst.loc**  [root@dc1sssdbo01 oracle]# **rm -rf /opt/ORCLfmap**  [root@dc1sssdbo01 oracle]# **rm -rf /etc/oratab**  [root@dc1sssdbo01 oracle]# |

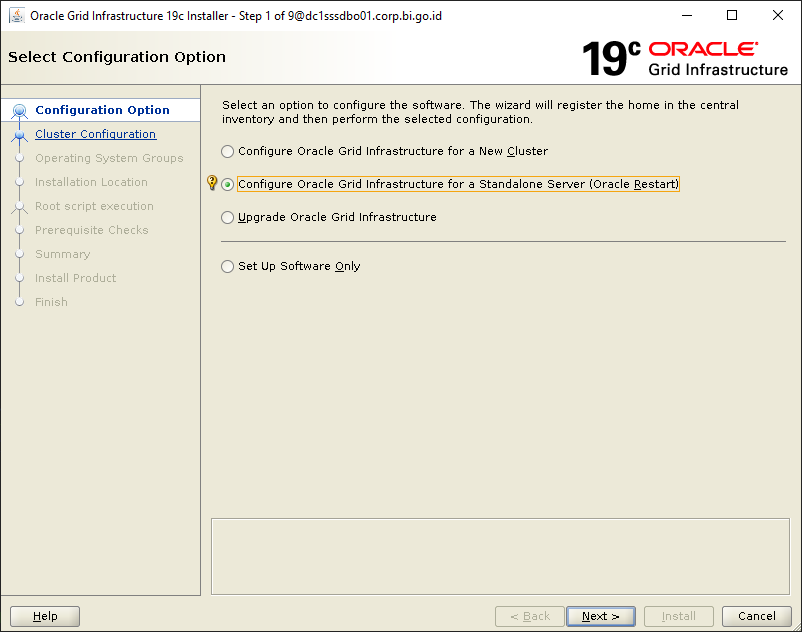
# Emptying ASM Disks and reboot

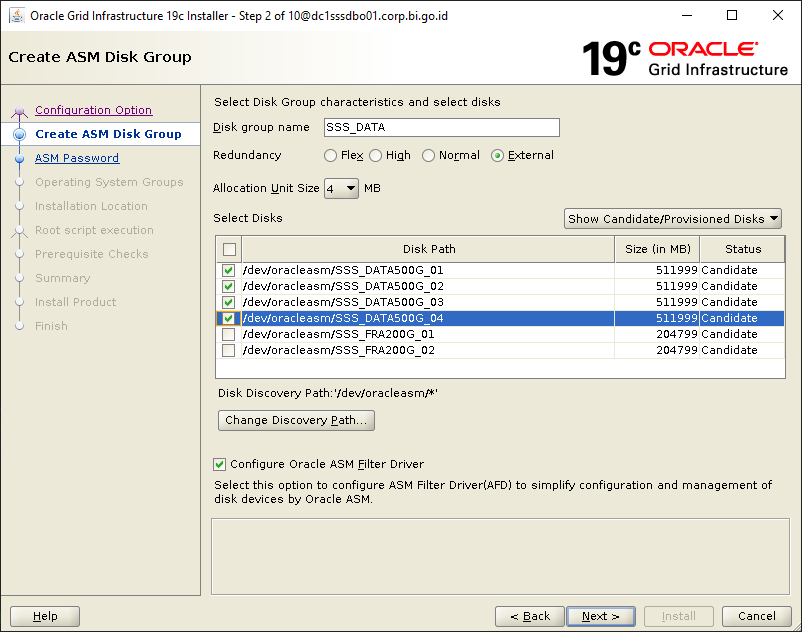
|  |
| --- |
| [root@dc1sssdbo01 oracle]# **dd if=/dev/zero of=/dev/sddlmae1 bs=1024 count=100**  [root@dc1sssdbo01 oracle]# **dd if=/dev/zero of=/dev/sddlmab1 bs=1024 count=100**  [root@dc1sssdbo01 oracle]# **dd if=/dev/zero of=/dev/sddlmaf1 bs=1024 count=100**  [root@dc1sssdbo01 oracle]# **dd if=/dev/zero of=/dev/sddlmad1 bs=1024 count=100**  [root@dc1sssdbo01 oracle]# **dd if=/dev/zero of=/dev/sddlmaa1 bs=1024 count=100**  [root@dc1sssdbo01 oracle]# **dd if=/dev/zero of=/dev/sddlmac1 bs=1024 count=100**  [root@dc1sssdbo01 oracle]# **reboot**  Connection to dc1sssdbo01.corp.bi.go.id closed by remote host.  Connection to dc1sssdbo01.corp.bi.go.id closed.  ✘   06/01/2020   11:50.11   /home/mobaxterm  |

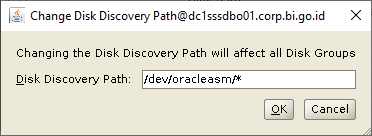
# Install Grid Infrastructure 19c

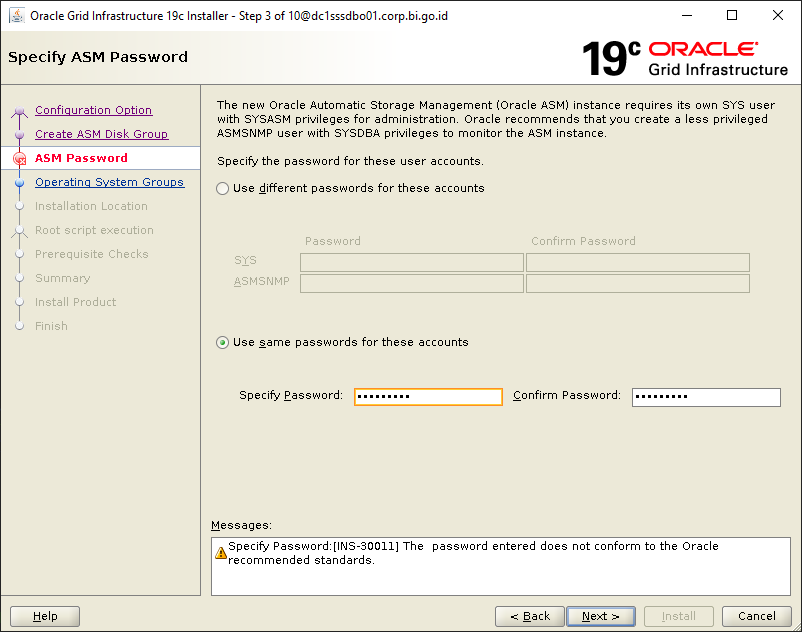
|  |
| --- |
| [oracle@dc1sssdbo01 ~]$ **vi .grid-profile**  [oracle@dc1sssdbo01 ~]$ **cat .grid-profile**  export TMP=/tmp  export TMPDIR=$TMP  export ORACLE\_HOSTNAME=DC1SSSDBO01.corp.bi.go.id  export ORACLE\_BASE=/oracle  #export ORACLE\_HOME=/oracle/product/12.2.0.1/grid  export ORACLE\_HOME=/oracle/product/19.3.0.0/grid  export ORACLE\_SID=+ASM  export ORACLE\_TERM=xterm  export BASE\_PATH=/usr/sbin:$PATH  export PATH=$ORACLE\_HOME/bin:$BASE\_PATH  export LD\_LIBRARY\_PATH=$ORACLE\_HOME/lib:/lib:/usr/lib  export CLASSPATH=$ORACLE\_HOME/JRE:$ORACLE\_HOME/jlib:$ORACLE\_HOME/rdbms/jlib  umask 022  alias alertlog='tail -200f /oracle/diag/asm/+asm/+ASM/trace/alert\_+ASM.log'  [oracle@dc1sssdbo01 ~]$ **. .grid-profile**  [oracle@dc1sssdbo01 ~]$ **env|grep ORA**  ORACLE\_SID=+ASM  ORACLE\_BASE=/oracle  ORACLE\_HOSTNAME=DC1SSSDBO01.corp.bi.go.id  ORACLE\_TERM=xterm  ORACLE\_HOME=/oracle/product/19.3.0.0/grid  [oracle@dc1sssdbo01 ~]$ **mkdir -p $ORACLE\_HOME; cd $ORACLE\_HOME; pwd**  /oracle/product/19.3.0.0/grid  [oracle@dc1sssdbo01 grid]$ **unzip ~/sources/LINUX.X64\_193000\_grid\_home.zip**  ...  extracting: md/jlib/geocoder.ear.zip  linking: bin/lbuilder -> ../nls/lbuilder/lbuilder  linking: lib/libocci.so -> libocci.so.19.1  linking: lib/libagtsh.so -> libagtsh.so.1.0  linking: lib/libodm19.so -> libodmd19.so  linking: lib/libclntsh.so -> libclntsh.so.19.1  linking: lib/libjavavm19.a -> ../javavm/jdk/jdk8/lib/libjavavm19.a  linking: javavm/lib/jce.jar -> ../../javavm/jdk/jdk8/lib/jce.jar  linking: lib/libocci.so.18.1 -> libocci.so  linking: jdk/bin/ControlPanel -> jcontrol  linking: javavm/admin/cbp.jar -> ../../javavm/jdk/jdk8/admin/cbp.jar  linking: lib/libclntshcore.so -> libclntshcore.so.19.1  linking: lib/libclntsh.so.12.1 -> libclntsh.so  linking: lib/libclntsh.so.18.1 -> libclntsh.so  linking: lib/libclntsh.so.11.1 -> libclntsh.so  linking: lib/libclntsh.so.10.1 -> libclntsh.so  linking: jdk/jre/bin/ControlPanel -> jcontrol  linking: javavm/admin/libjtcjt.so -> ../../javavm/jdk/jdk8/admin/libjtcjt.so  linking: javavm/admin/classes.bin -> ../../javavm/jdk/jdk8/admin/classes.bin  linking: javavm/admin/lfclasses.bin -> ../../javavm/jdk/jdk8/admin/lfclasses.bin  linking: javavm/lib/security/cacerts -> ../../../javavm/jdk/jdk8/lib/security/cacerts  linking: javavm/lib/sunjce\_provider.jar -> ../../javavm/jdk/jdk8/lib/sunjce\_provider.jar  linking: javavm/lib/security/README.txt -> ../../../javavm/jdk/jdk8/lib/security/README.txt  linking: javavm/lib/security/java.security -> ../../../javavm/jdk/jdk8/lib/security/java.security  linking: jdk/jre/lib/amd64/server/libjsig.so -> ../libjsig.so  extracting: install/.img.bin  finishing deferred symbolic links:  bin/lbuilder -> ../nls/lbuilder/lbuilder  lib/libocci.so -> libocci.so.19.1  lib/libagtsh.so -> libagtsh.so.1.0  lib/libodm19.so -> libodmd19.so  lib/libclntsh.so -> libclntsh.so.19.1  lib/libjavavm19.a -> ../javavm/jdk/jdk8/lib/libjavavm19.a  javavm/lib/jce.jar -> ../../javavm/jdk/jdk8/lib/jce.jar  lib/libocci.so.18.1 -> libocci.so  jdk/bin/ControlPanel -> jcontrol  javavm/admin/cbp.jar -> ../../javavm/jdk/jdk8/admin/cbp.jar  lib/libclntshcore.so -> libclntshcore.so.19.1  lib/libclntsh.so.12.1 -> libclntsh.so  lib/libclntsh.so.18.1 -> libclntsh.so  lib/libclntsh.so.11.1 -> libclntsh.so  lib/libclntsh.so.10.1 -> libclntsh.so  jdk/jre/bin/ControlPanel -> jcontrol  javavm/admin/libjtcjt.so -> ../../javavm/jdk/jdk8/admin/libjtcjt.so  javavm/admin/classes.bin -> ../../javavm/jdk/jdk8/admin/classes.bin  javavm/admin/lfclasses.bin -> ../../javavm/jdk/jdk8/admin/lfclasses.bin  javavm/lib/security/cacerts -> ../../../javavm/jdk/jdk8/lib/security/cacerts  javavm/lib/sunjce\_provider.jar -> ../../javavm/jdk/jdk8/lib/sunjce\_provider.jar  javavm/lib/security/README.txt -> ../../../javavm/jdk/jdk8/lib/security/README.txt  javavm/lib/security/java.security -> ../../../javavm/jdk/jdk8/lib/security/java.security  jdk/jre/lib/amd64/server/libjsig.so -> ../libjsig.so  [oracle@dc1sssdbo01 grid]$ **./gridSetup.sh**  Launching Oracle Grid Infrastructure Setup Wizard...  The response file for this session can be found at:  /oracle/product/19.3.0.0/grid/install/response/grid\_2020-01-06\_01-34-11PM.rsp  You can find the log of this install session at:  /tmp/GridSetupActions2020-01-06\_01-34-11PM/gridSetupActions2020-01-06\_01-34-11PM.log  You can find the log of this install session at:  /oracle/oraInventory/logs/UpdateNodeList2020-01-06\_01-34-11PM.log  Moved the install session logs to:  /oracle/oraInventory/logs/GridSetupActions2020-01-06\_01-34-11PM  [oracle@dc1sssdbo01 grid]$ crsctl query has releaseversion  Oracle High Availability Services release version on the local node is [19.0.0.0.0]  [oracle@dc1sssdbo01 grid]$ |



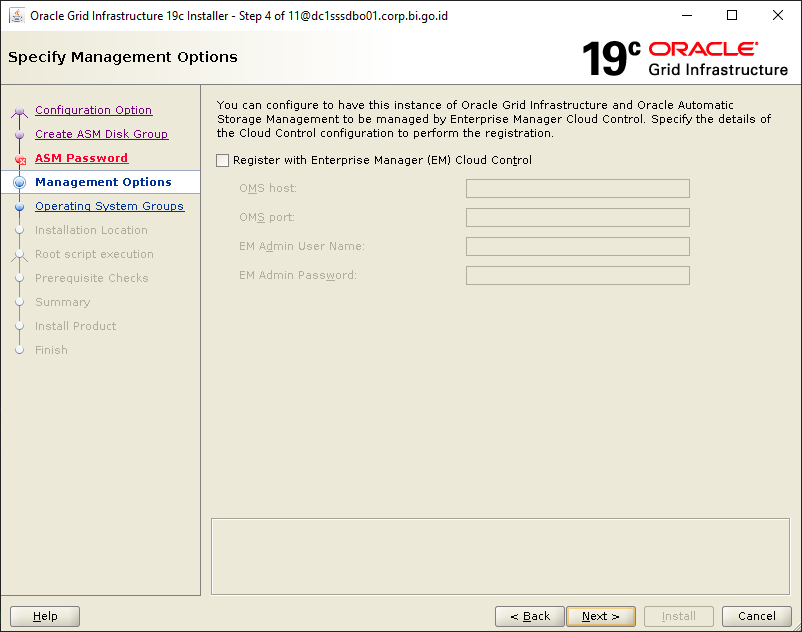


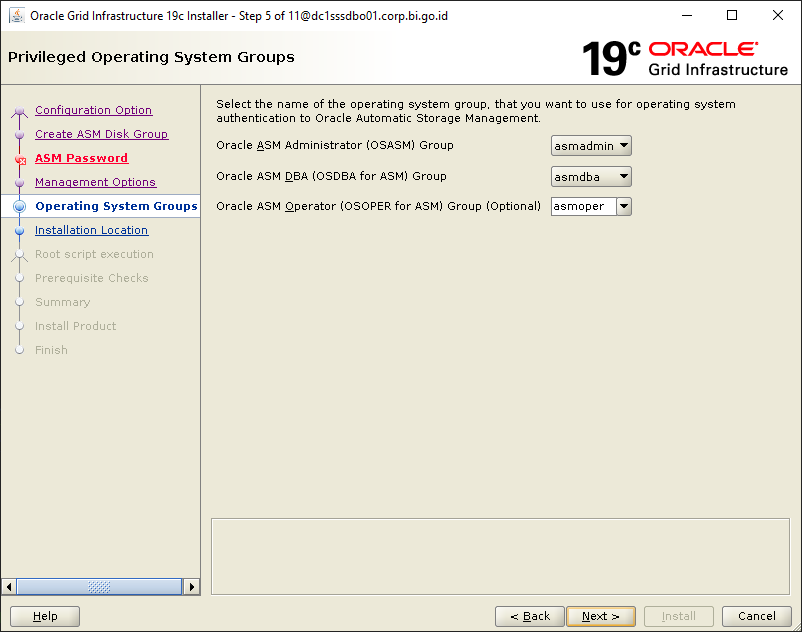


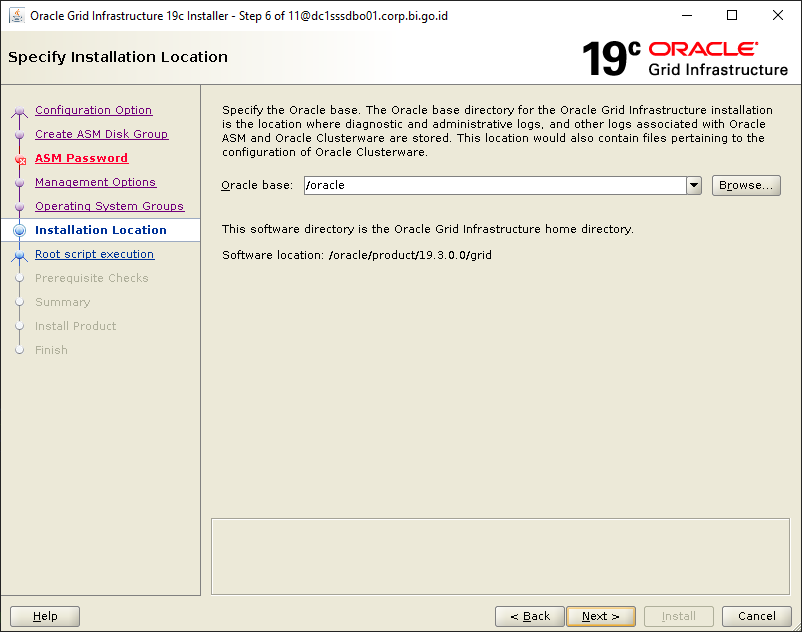


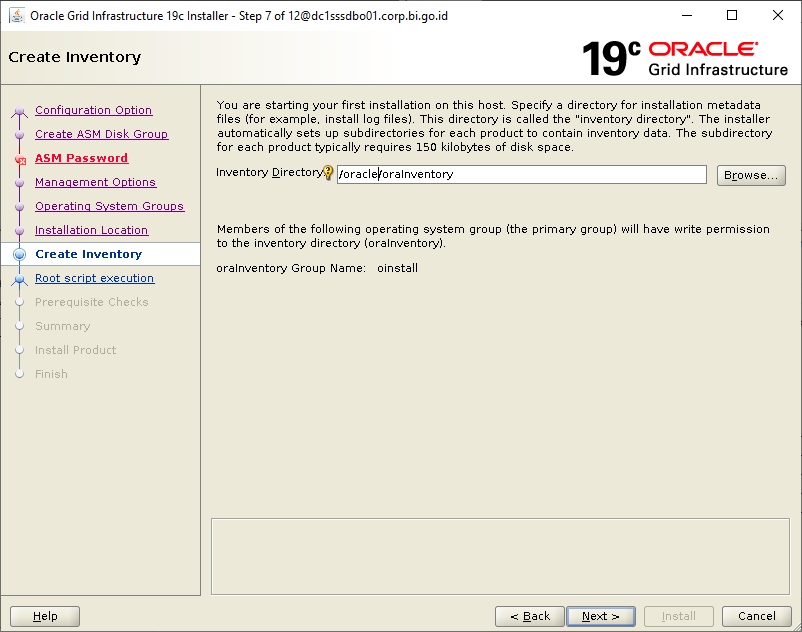


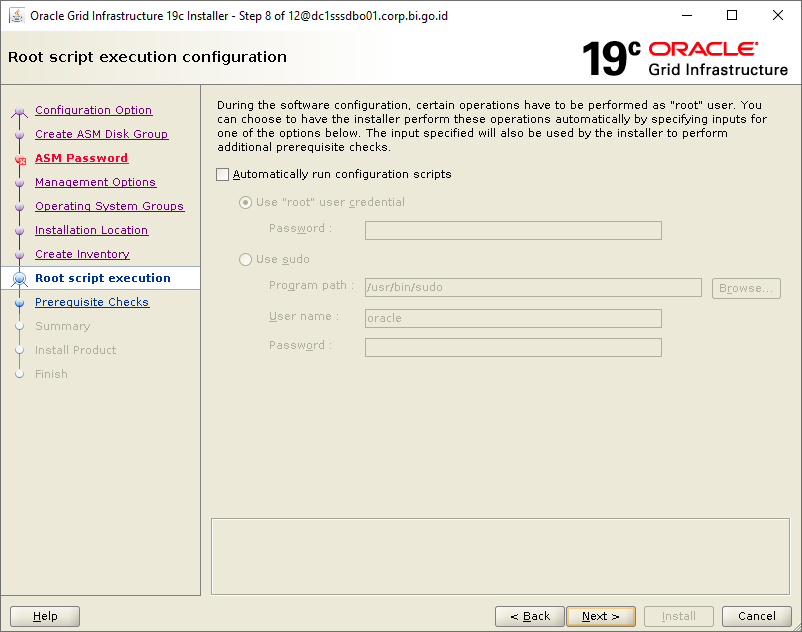
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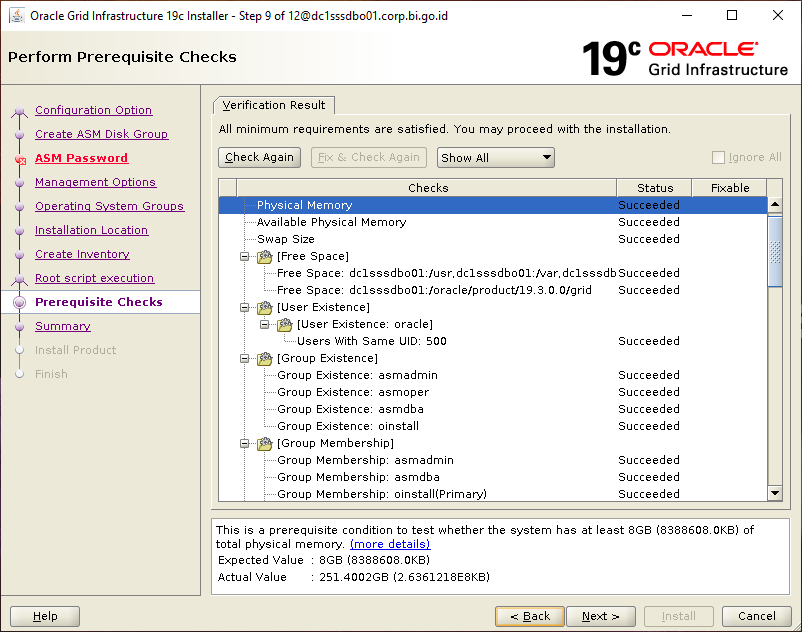


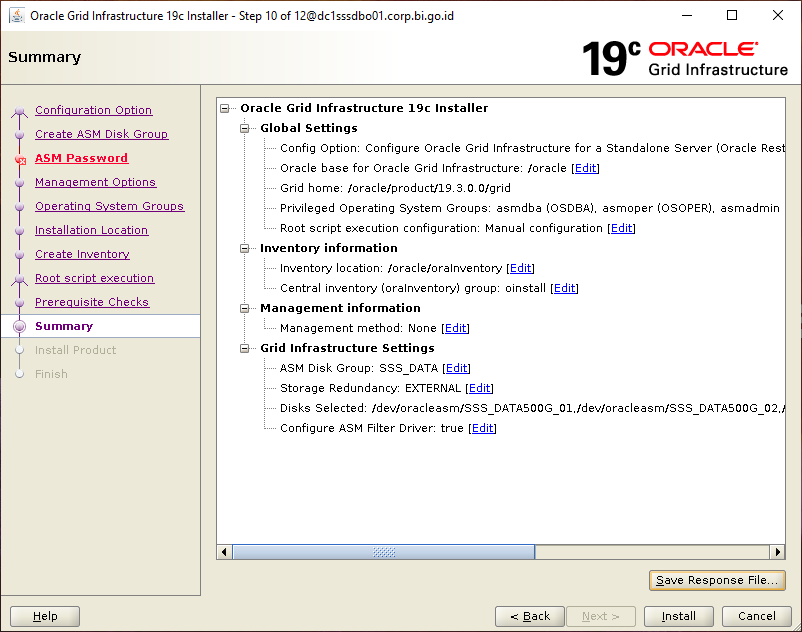


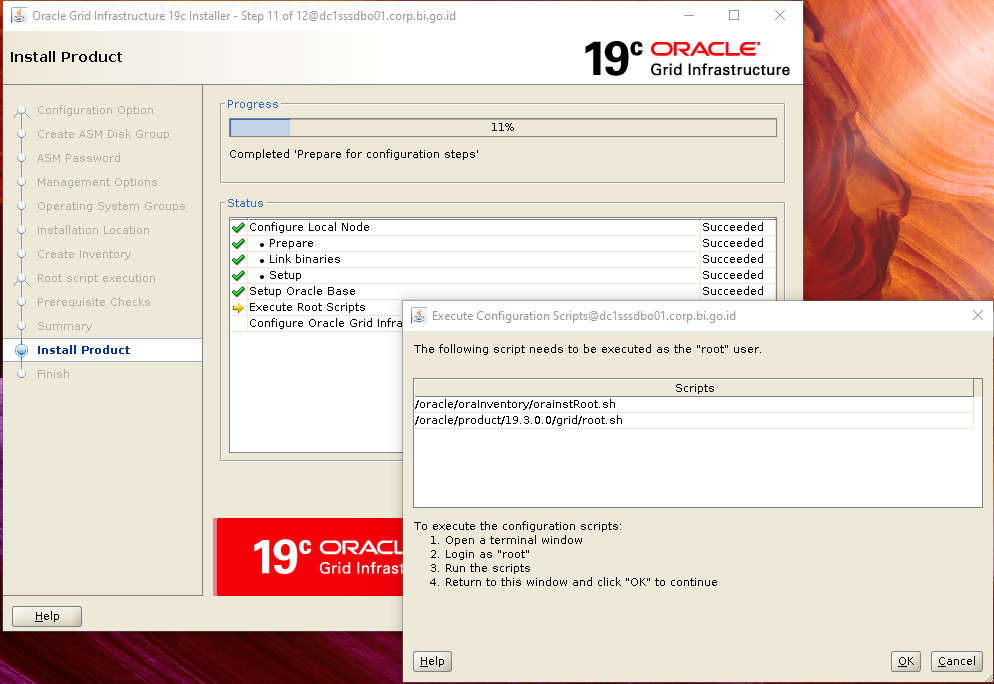


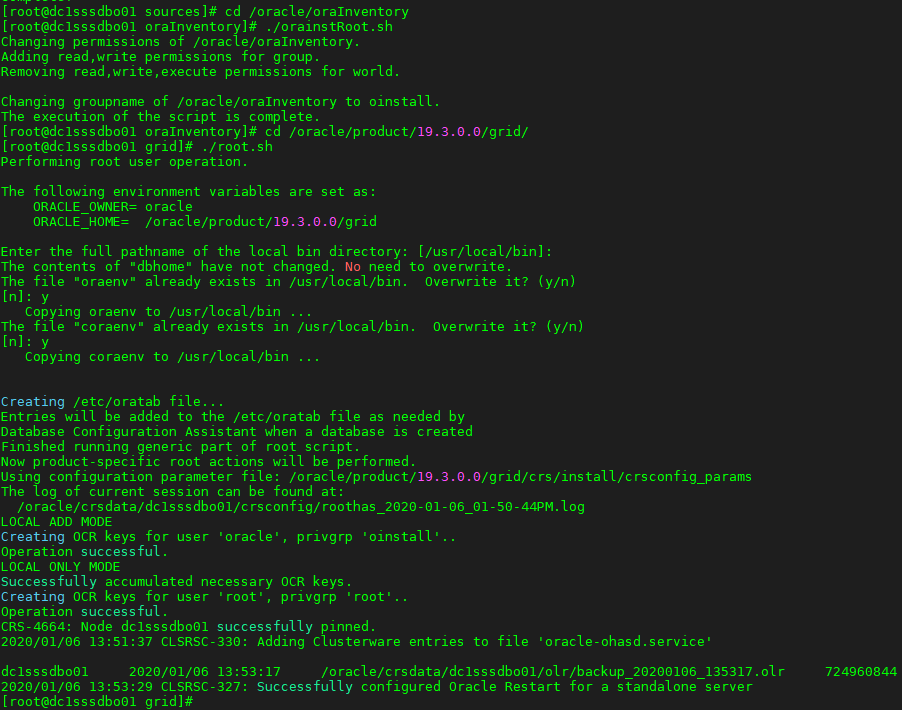


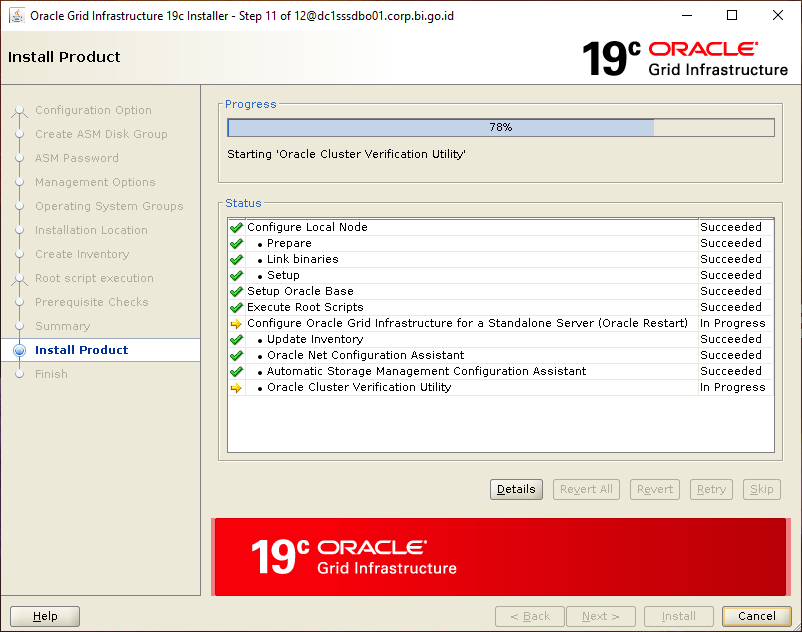


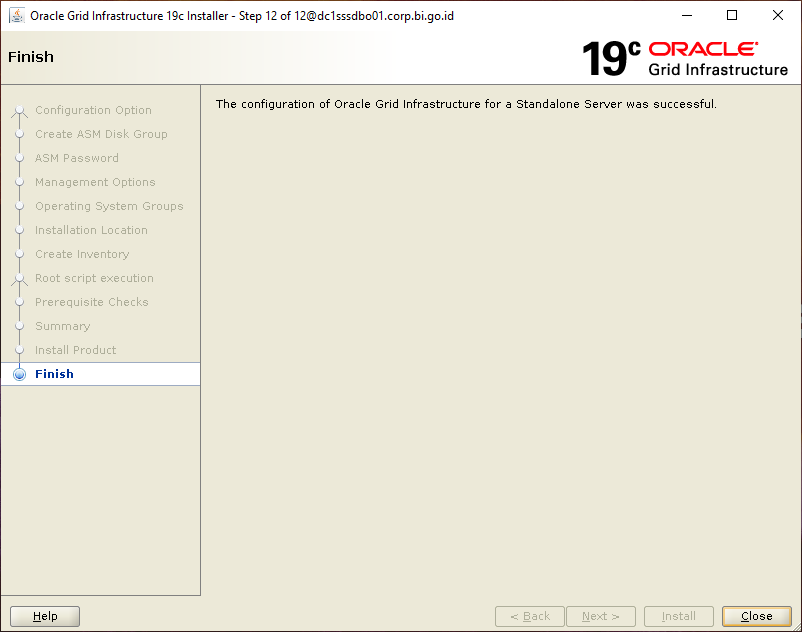








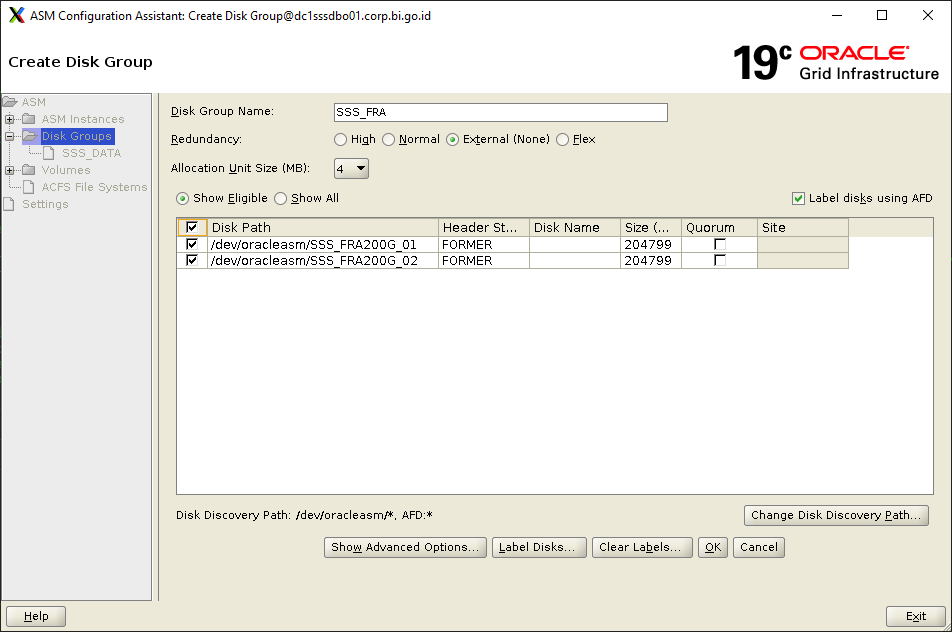


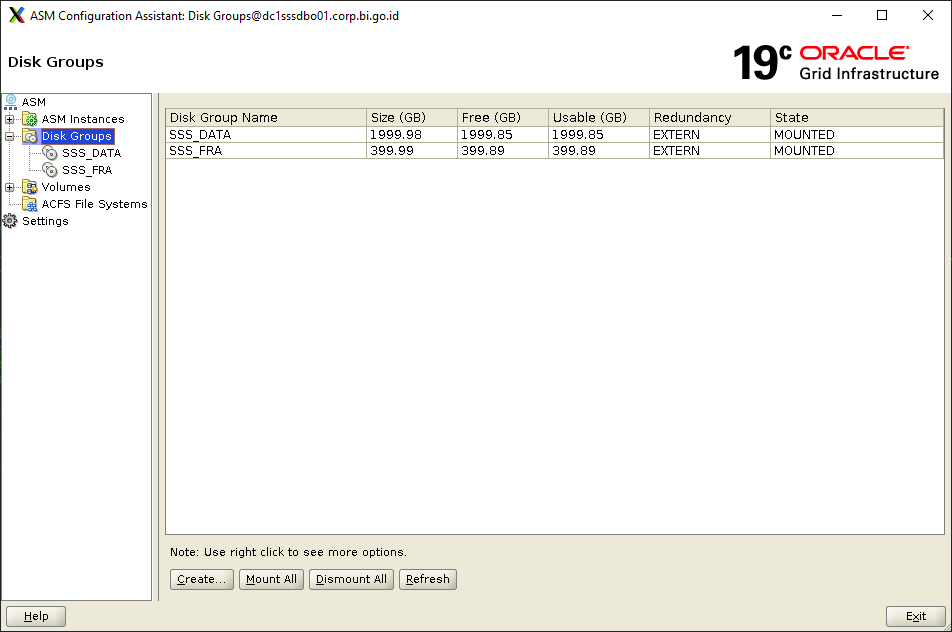


# Create ASM Diskgroups

|  |
| --- |
| [oracle@dc1sssdbo01 grid]$ **asmca** |



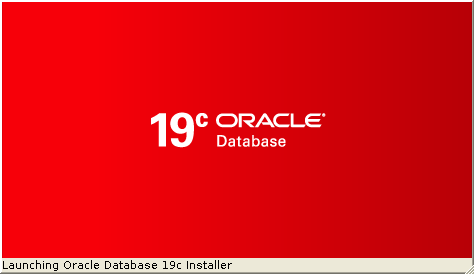


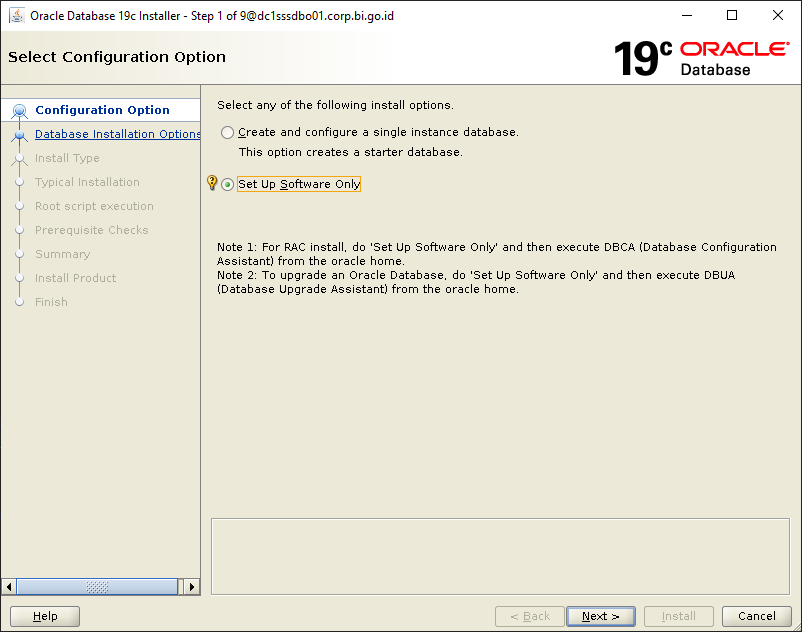


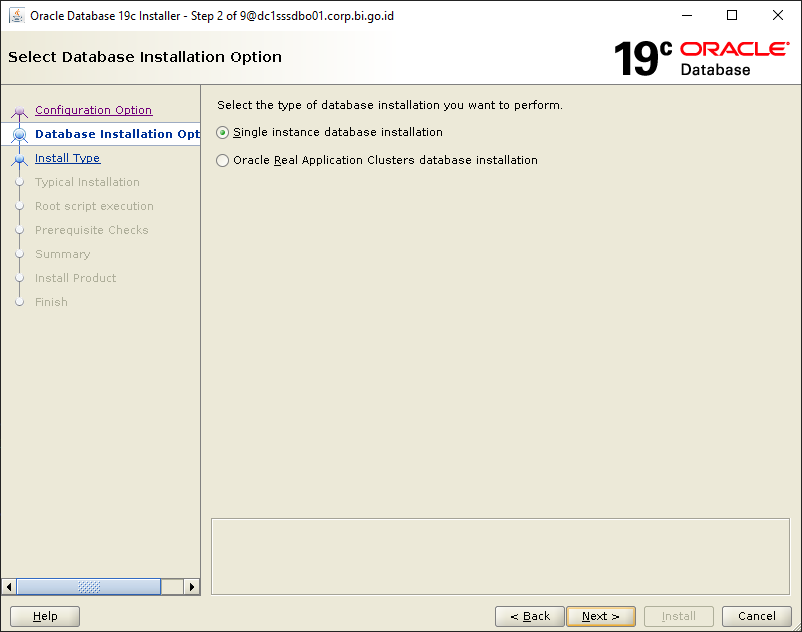
|  |
| --- |
| [oracle@dc1sssdbo01 grid]$ **crsctl stat res -t**  --------------------------------------------------------------------------------  Name Target State Server State details  --------------------------------------------------------------------------------  Local Resources  --------------------------------------------------------------------------------  ora.LISTENER.lsnr  ONLINE ONLINE dc1sssdbo01 STABLE  ora.SSS\_DATA.dg  ONLINE ONLINE dc1sssdbo01 STABLE  ora.SSS\_FRA.dg  ONLINE ONLINE dc1sssdbo01 STABLE  ora.asm  ONLINE ONLINE dc1sssdbo01 Started,STABLE  ora.ons  OFFLINE OFFLINE dc1sssdbo01 STABLE  --------------------------------------------------------------------------------  Cluster Resources  --------------------------------------------------------------------------------  ora.cssd  1 ONLINE ONLINE dc1sssdbo01 STABLE  ora.diskmon  1 OFFLINE OFFLINE STABLE  ora.driver.afd  1 ONLINE ONLINE dc1sssdbo01 STABLE  ora.evmd  1 ONLINE ONLINE dc1sssdbo01 STABLE  --------------------------------------------------------------------------------  [oracle@dc1sssdbo01 grid]$ |

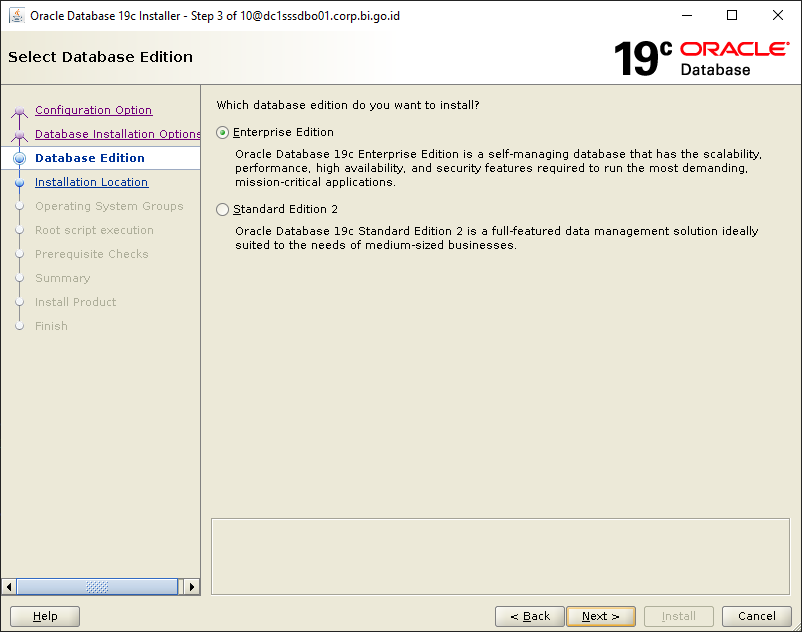
# Install Oracle DB Software 19c

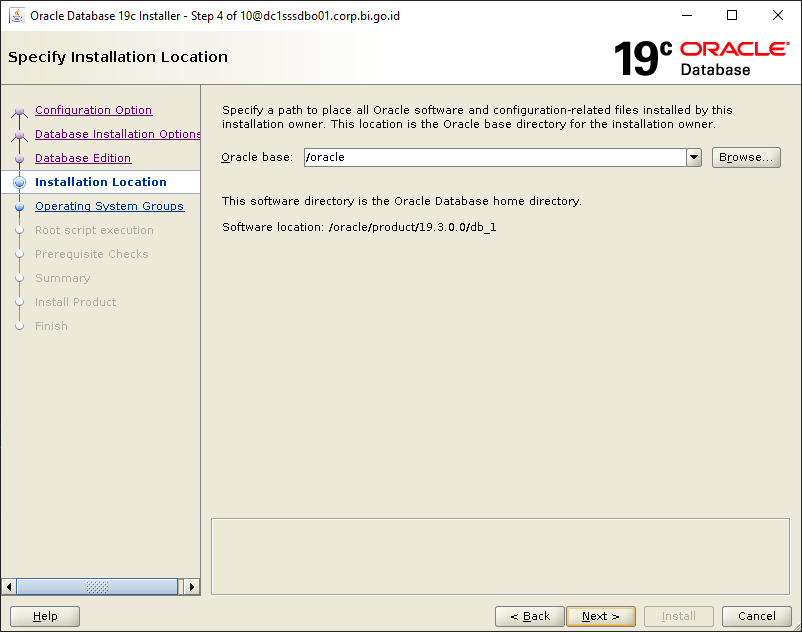
|  |
| --- |
| [oracle@dc1sssdbo01 ~]$ **vi .db-profile**  [oracle@dc1sssdbo01 ~]$ **cat .db-profile**  # DB Setting  ORACLE\_BASE=/oracle; export ORACLE\_BASE  #ORACLE\_HOME=/oracle/product/12.2.0.1/db\_1; export ORACLE\_HOME  ORACLE\_HOME=/oracle/product/19.3.0.0/db\_1; export ORACLE\_HOME  ORACLE\_SID=sss; export ORACLE\_SID  PATH=$ORACLE\_HOME/bin:/usr/sbin:$PATH; export PATH  LD\_LIBRARY\_PATH=$ORACLE\_HOME/lib:/lib:/usr/lib; export LD\_LIBRARY\_PATH  CLASSPATH=$ORACLE\_HOME/JRE:$ORACLE\_HOME/jlib:$ORACLE\_HOME/rdbms/jlib; export CLASSPATH  umask 022  alias alertlog='tail -250f $ORACLE\_BASE/diag/rdbms/sss/sss/trace/alert\_sss.log';  [oracle@dc1sssdbo01 ~]$ **. .db-profile**  [oracle@dc1sssdbo01 ~]$ **env|grep ORA**  ORACLE\_SID=sss  ORACLE\_BASE=/oracle  ORACLE\_HOSTNAME=DC1SSSDBO01.corp.bi.go.id  ORACLE\_TERM=xterm  ORACLE\_HOME=/oracle/product/19.3.0.0/db\_1  [oracle@dc1sssdbo01 ~]$ **mkdir -p $ORACLE\_HOME; cd $ORACLE\_HOME; pwd;**  /oracle/product/19.3.0.0/db\_1  [oracle@dc1sssdbo01 db\_1]$ **unzip ~/sources/LINUX.X64\_193000\_db\_home.zip**  ...  linking: javavm/admin/lfclasses.bin -> ../../javavm/jdk/jdk8/admin/lfclasses.bin  linking: javavm/lib/security/cacerts -> ../../../javavm/jdk/jdk8/lib/security/cacerts  linking: javavm/lib/sunjce\_provider.jar -> ../../javavm/jdk/jdk8/lib/sunjce\_provider.jar  linking: javavm/lib/security/README.txt -> ../../../javavm/jdk/jdk8/lib/security/README.txt  linking: javavm/lib/security/java.security -> ../../../javavm/jdk/jdk8/lib/security/java.security  linking: jdk/jre/lib/amd64/server/libjsig.so -> ../libjsig.so  extracting: install/.img.bin  finishing deferred symbolic links:  bin/lbuilder -> ../nls/lbuilder/lbuilder  lib/libocci.so -> libocci.so.19.1  lib/libagtsh.so -> libagtsh.so.1.0  lib/libodm19.so -> libodmd19.so  lib/libclntsh.so -> libclntsh.so.19.1  lib/libjavavm19.a -> ../javavm/jdk/jdk8/lib/libjavavm19.a  javavm/lib/jce.jar -> ../../javavm/jdk/jdk8/lib/jce.jar  lib/libocci.so.18.1 -> libocci.so  lib/libclntshcore.so -> libclntshcore.so.19.1  jdk/bin/ControlPanel -> jcontrol  javavm/admin/cbp.jar -> ../../javavm/jdk/jdk8/admin/cbp.jar  lib/libclntsh.so.10.1 -> libclntsh.so  lib/libclntsh.so.11.1 -> libclntsh.so  lib/libclntsh.so.12.1 -> libclntsh.so  lib/libclntsh.so.18.1 -> libclntsh.so  precomp/public/SQLCA.H -> sqlca.h  precomp/public/SQLDA.H -> sqlda.h  precomp/public/ORACA.H -> oraca.h  precomp/public/SQLCA.COB -> sqlca.cob  precomp/public/ORACA.COB -> oraca.cob  javavm/admin/classes.bin -> ../../javavm/jdk/jdk8/admin/classes.bin  javavm/admin/libjtcjt.so -> ../../javavm/jdk/jdk8/admin/libjtcjt.so  jdk/jre/bin/ControlPanel -> jcontrol  javavm/admin/lfclasses.bin -> ../../javavm/jdk/jdk8/admin/lfclasses.bin  javavm/lib/security/cacerts -> ../../../javavm/jdk/jdk8/lib/security/cacerts  javavm/lib/sunjce\_provider.jar -> ../../javavm/jdk/jdk8/lib/sunjce\_provider.jar  javavm/lib/security/README.txt -> ../../../javavm/jdk/jdk8/lib/security/README.txt  javavm/lib/security/java.security -> ../../../javavm/jdk/jdk8/lib/security/java.security  jdk/jre/lib/amd64/server/libjsig.so -> ../libjsig.so  [oracle@dc1sssdbo01 db\_1]$ **./runInstaller**  Launching Oracle Database Setup Wizard...  The response file for this session can be found at:  /oracle/product/19.3.0.0/db\_1/install/response/db\_2020-01-06\_02-11-35PM.rsp  You can find the log of this install session at:  /oracle/oraInventory/logs/InstallActions2020-01-06\_02-11-35PM/installActions2020-01-06\_02-11-35PM.log  [oracle@dc1sssdbo01 db\_1]$ |

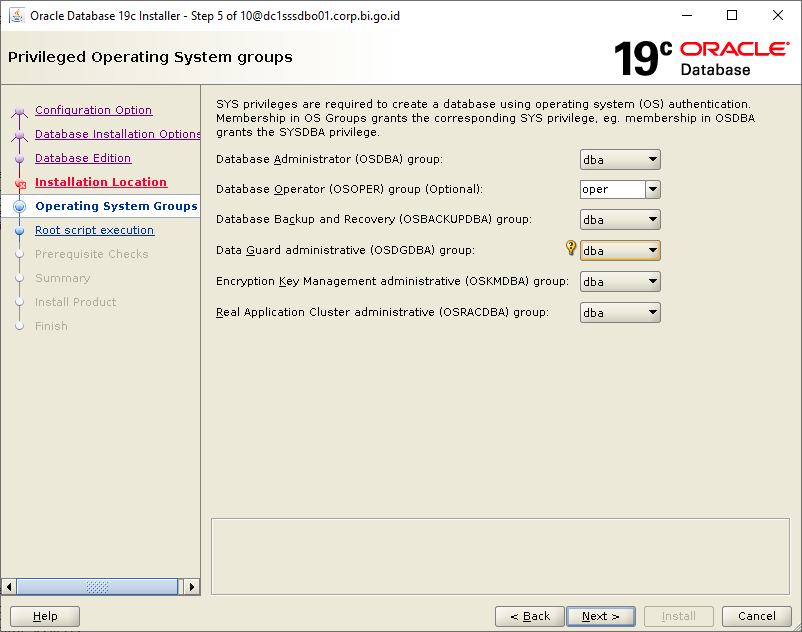


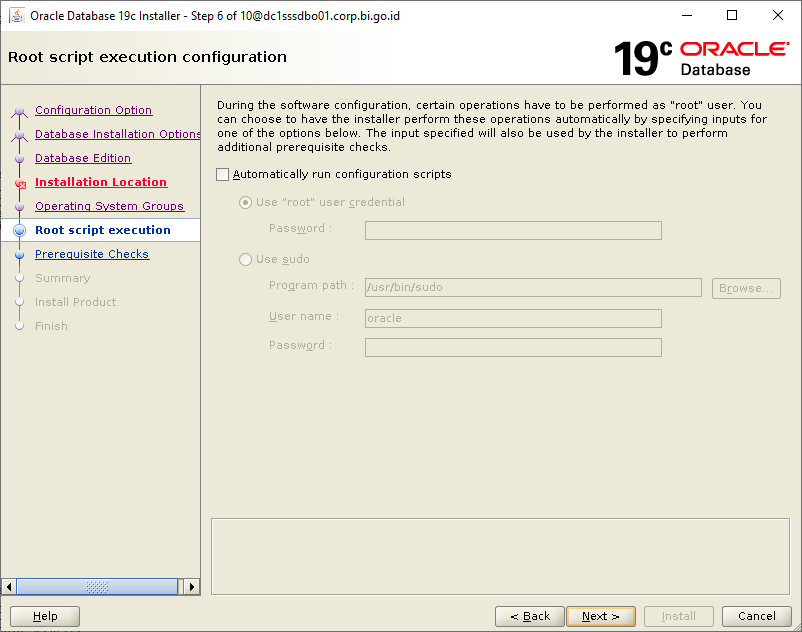


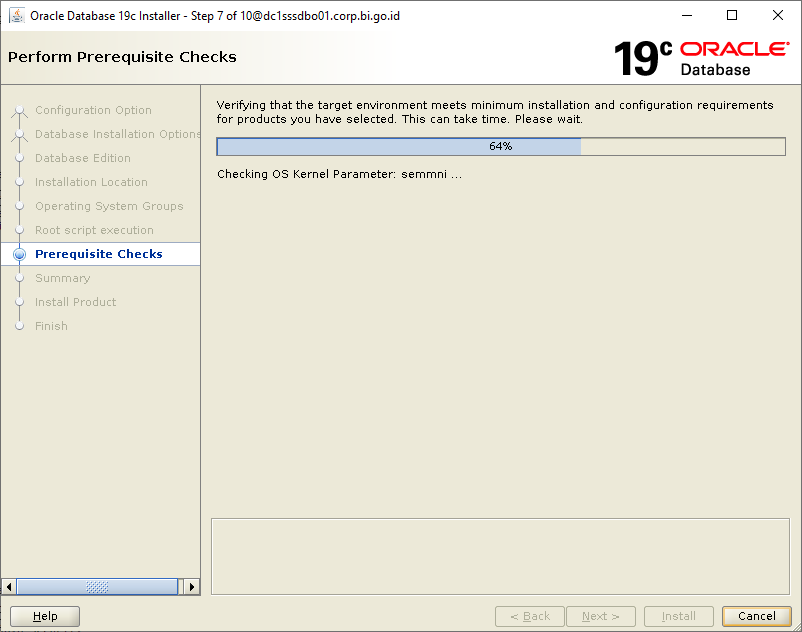


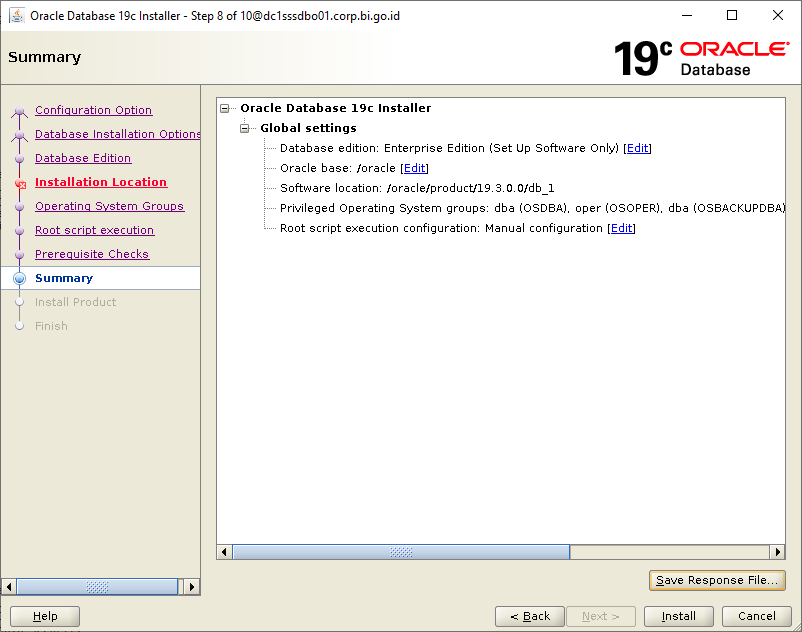


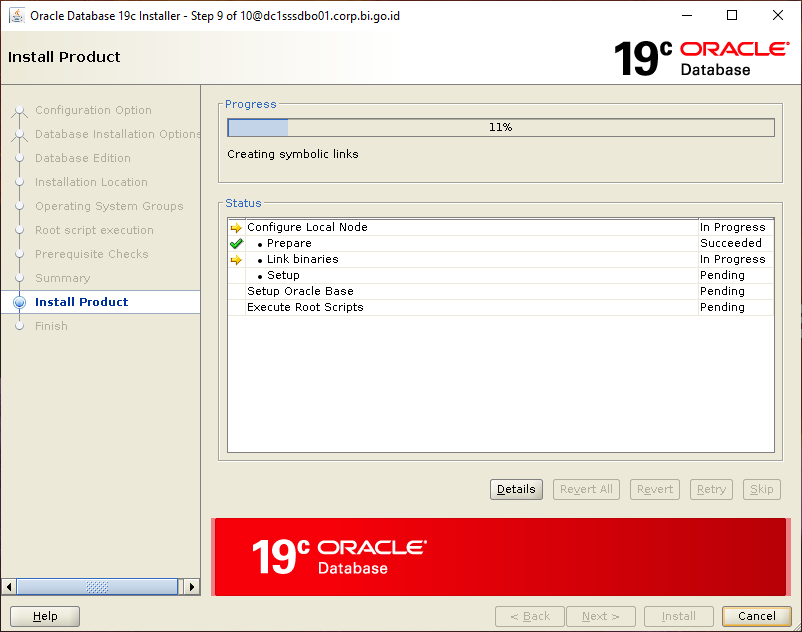


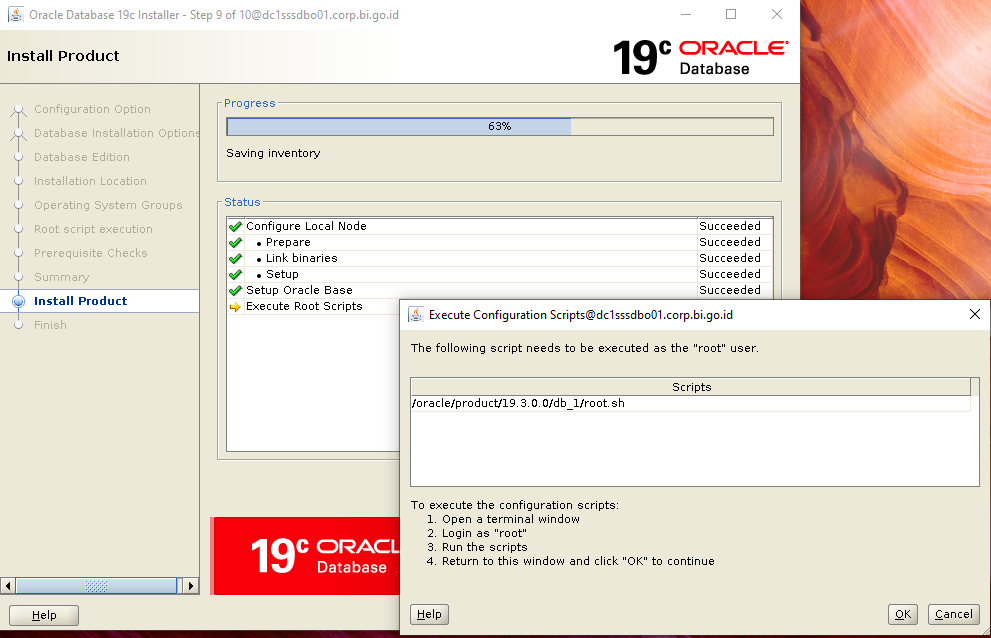


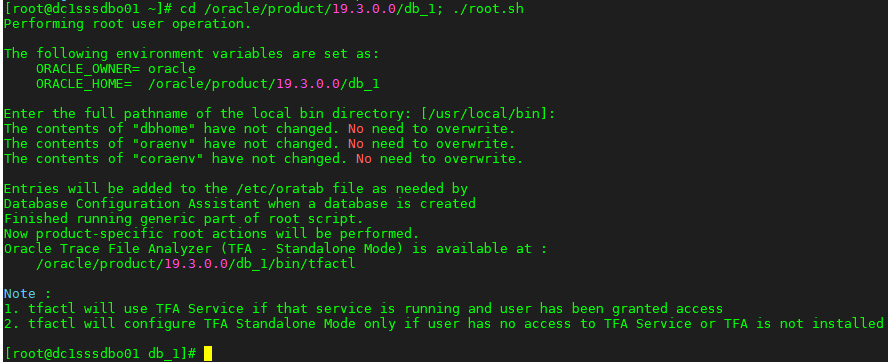


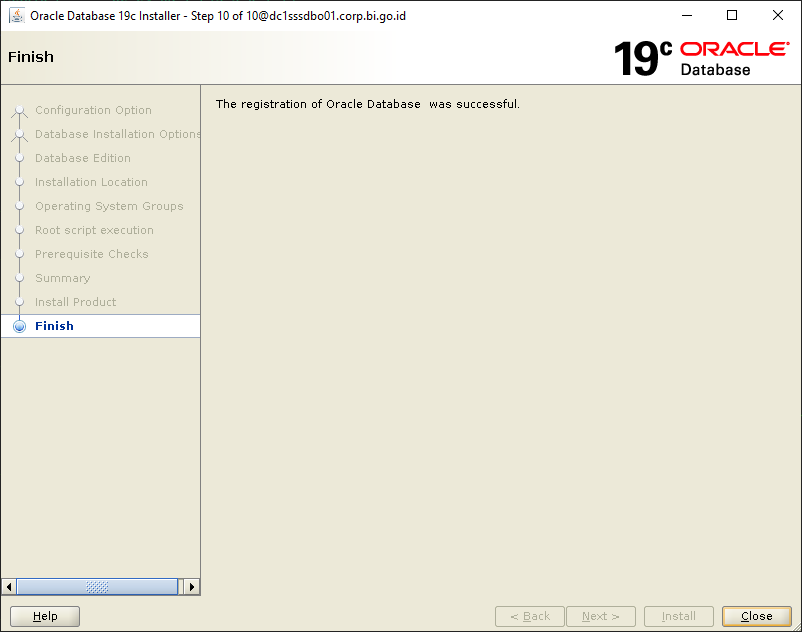












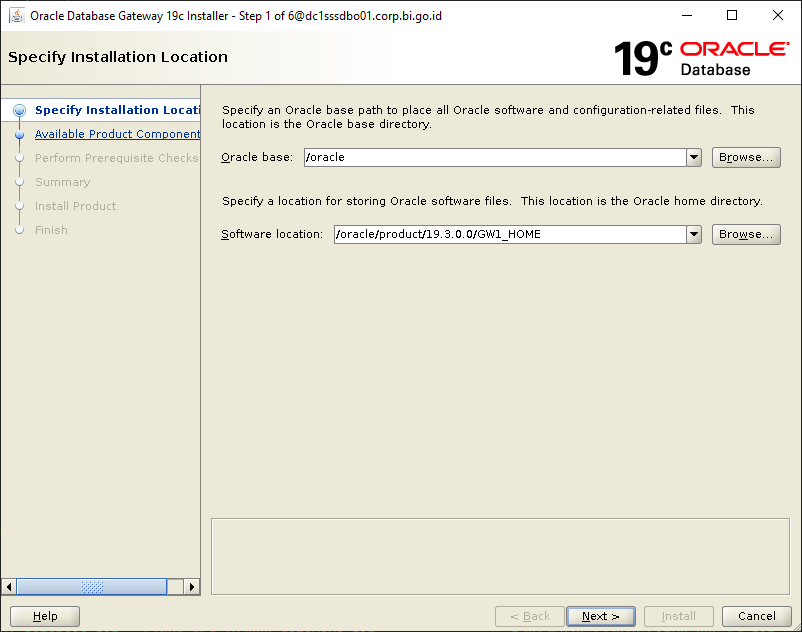
# Restore, Recover, and Upgrade Database from Backup

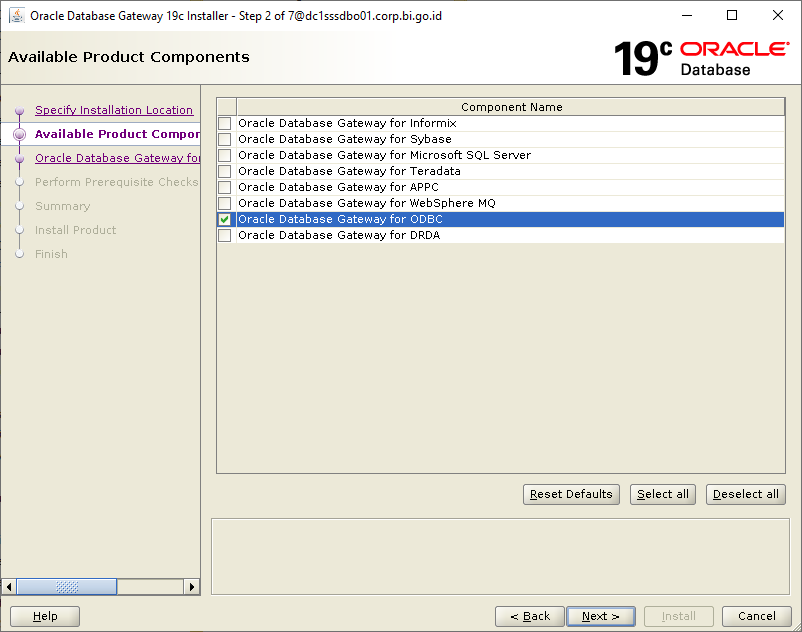
**Please do *./dbupgrade* in nohup mode.**

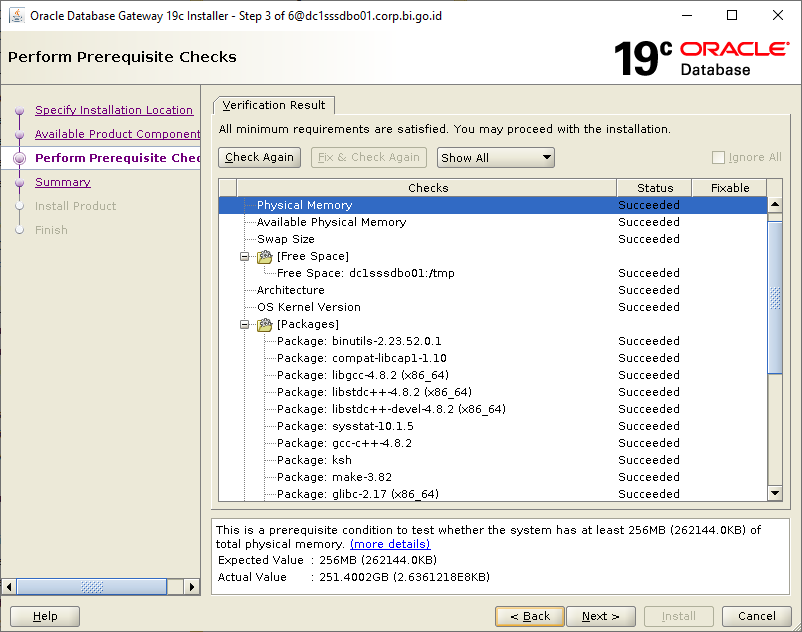
|  |
| --- |
| [oracle@dc1sssdbo01 ~]$ **cp /backup/rman/initsss\_20200101.ora /backup/rman/initsss19c\_20200101.ora**  [oracle@dc1sssdbo01 ~]$ **vi /backup/rman/initsss19c\_20200101.ora**  [oracle@dc1sssdbo01 ~]$ **cat /backup/rman/initsss19c\_20200101.ora**  sss.\_\_oracle\_base='/oracle'#ORACLE\_BASE set from environment  \*.audit\_file\_dest='/oracle/admin/sss/adump'  \*.audit\_trail='db'  \*.compatible='19.0.0'  \*.control\_files='+SSS\_DATA/SSS/CONTROLFILE/control01.ctl','+SSS\_FRA/SSS/CONTROLFILE/control02.ctl'  \*.db\_block\_size=8192  \*.db\_create\_file\_dest='+SSS\_DATA'  \*.db\_domain='corp.bi.go.id'  \*.db\_name='sss'  \*.db\_recovery\_file\_dest='+SSS\_FRA'  \*.db\_recovery\_file\_dest\_size=350g  \*.diagnostic\_dest='/oracle'  \*.dispatchers='(PROTOCOL=TCP) (SERVICE=sssXDB)'  \*.nls\_language='AMERICAN'  \*.nls\_territory='AMERICA'  \*.open\_cursors=300  \*.pga\_aggregate\_target=25743m  \*.processes=3840  \*.remote\_login\_passwordfile='EXCLUSIVE'  \*.sga\_target=77229m  \*.undo\_tablespace='UNDOTBS1'  [oracle@dc1sssdbo01 ~]$ **mkdir -p /oracle/admin/sss/adump**  [oracle@dc1sssdbo01 ~]$ **rlwrap rman target=/**  Recovery Manager: Release 19.0.0.0.0 - Production on Mon Jan 6 14:28:51 2020  Version 19.3.0.0.0  Copyright (c) 1982, 2019, Oracle and/or its affiliates. All rights reserved.  connected to target database (not started)  RMAN> **startup nomount pfile='/backup/rman/initsss19c\_20200101.ora';**  Oracle instance started  Total System Global Area 81067505896 bytes  Fixed Size 30140648 bytes  Variable Size 9663676416 bytes  Database Buffers 71135395840 bytes  Redo Buffers 238292992 bytes  RMAN> **set dbid 1639194089**  executing command: SET DBID  RMAN> **restore primary controlfile from '/backup/rman/CTRL\_1639194089SSS20200106\_20\_1.bkp';**  Starting restore at 06-Jan-20 14:29:37  using target database control file instead of recovery catalog  allocated channel: ORA\_DISK\_1  channel ORA\_DISK\_1: SID=122 device type=DISK  channel ORA\_DISK\_1: restoring control file  channel ORA\_DISK\_1: restore complete, elapsed time: 00:00:01  output file name=+SSS\_DATA/SSS/CONTROLFILE/control01.ctl  output file name=+SSS\_FRA/SSS/CONTROLFILE/control02.ctl  Finished restore at 06-Jan-20 14:29:39  RMAN> **alter database mount;**  released channel: ORA\_DISK\_1  Statement processed  RMAN> **crosscheck backup;**  RMAN> **crosscheck archivelog all;**  RMAN> **delete noprompt expired backup;**  RMAN> **delete noprompt expired archivelog all;**  RMAN> **list backup summary;**  RMAN> **list backup tag 'SPFILE';**  List of Backup Sets  ===================  BS Key Type LV Size Device Type Elapsed Time Completion Time  ------- ---- -- ---------- ----------- ------------ ------------------  1 Full 96.00K DISK 00:00:00 06-Jan-20 10:51:51  BP Key: 1 Status: AVAILABLE Compressed: YES Tag: SPFILE  Piece Name: /backup/rman/SPF\_1639194089SSS20200106\_1\_1.bkp  SPFILE Included: Modification time: 06-Jan-20 10:49:01  SPFILE db\_unique\_name: SSS  RMAN> **exit**  Recovery Manager complete.  [oracle@dc1sssdbo01 ~]$ **vi RMAN-Fullrestore.sh**  [oracle@dc1sssdbo01 ~]$ **cat RMAN-Fullrestore.sh**  #!/bin/bash  . /home/oracle/.db-profile; export NLS\_DATE\_FORMAT='DD-Mon-RR HH24:MI:SS';  $ORACLE\_HOME/bin/rman target=/ log=/backup/rman/RMAN-Fullrestore\_`date +%Y%m%d`.log << EOF  run{  CONFIGURE DEVICE TYPE DISK PARALLELISM 32;  RESTORE DATABASE;  CONFIGURE DEVICE TYPE DISK CLEAR;}  EOF  [oracle@dc1sssdbo01 ~]$ **nohup ./RMAN-Fullrestore.sh >> /backup/rman/nohupRMAN-Fullrestore\_20200106.log 2>&1 &**  [1] 9231  [oracle@dc1sssdbo01 ~]$ **tail -100f /backup/rman/RMAN-Fullrestore\_`date +%Y%m%d`.log**  [oracle@dc1sssdbo01 ~]$ **. .db-profile**  [oracle@dc1sssdbo01 ~]$ **rlwrap sqlplus / as sysdba**  SQL\*Plus: Release 19.0.0.0.0 - Production on Mon Jan 6 14:59:26 2020  Version 19.3.0.0.0  Copyright (c) 1982, 2019, Oracle. All rights reserved.  Connected to:  Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production  Version 19.3.0.0.0  SQL> **COL NAME FOR A65;**  SQL> **SELECT NAME, THREAD#, SEQUENCE# FROM V$ARCHIVED\_LOG ORDER BY 3;**  NAME THREAD# SEQUENCE#  ----------------------------------------------------------------- ---------- ----------  1 90  1 91  1 92  1 93  1 94  SQL> exit  Disconnected from Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production  Version 19.3.0.0.0  [oracle@dc1sssdbo01 ~]$ **rlwrap rman target=/**  Recovery Manager: Release 19.0.0.0.0 - Production on Mon Jan 6 14:59:50 2020  Version 19.3.0.0.0  Copyright (c) 1982, 2019, Oracle and/or its affiliates. All rights reserved.  connected to target database: SSS (DBID=1639194089, not open)  RMAN> **run{set until sequence 95;**  2> **recover database;}**  executing command: SET until clause  Starting recover at 06-Jan-20 15:00:18  using target database control file instead of recovery catalog  allocated channel: ORA\_DISK\_1  channel ORA\_DISK\_1: SID=5446 device type=DISK  starting media recovery  channel ORA\_DISK\_1: starting archived log restore to default destination  channel ORA\_DISK\_1: restoring archived log  archived log thread=1 sequence=94  channel ORA\_DISK\_1: reading from backup piece /backup/rman/ARC\_1639194089SSS20200106\_16\_1.bkp  channel ORA\_DISK\_1: piece handle=/backup/rman/ARC\_1639194089SSS20200106\_16\_1.bkp tag=ARCHIVELOGS  channel ORA\_DISK\_1: restored backup piece 1  channel ORA\_DISK\_1: restore complete, elapsed time: 00:00:01  archived log file name=+SSS\_FRA/SSS/ARCHIVELOG/2020\_01\_06/thread\_1\_seq\_94.257.1028991621 thread=1 sequence=94  channel default: deleting archived log(s)  archived log file name=+SSS\_FRA/SSS/ARCHIVELOG/2020\_01\_06/thread\_1\_seq\_94.257.1028991621 RECID=6 STAMP=1028991621  media recovery complete, elapsed time: 00:00:00  Finished recover at 06-Jan-20 15:00:22  RMAN> **exit**  Recovery Manager complete.  [oracle@dc1sssdbo01 ~]$ **rlwrap sqlplus / as sysdba**  SQL\*Plus: Release 19.0.0.0.0 - Production on Mon Jan 6 15:01:49 2020  Version 19.3.0.0.0  Copyright (c) 1982, 2019, Oracle. All rights reserved.  Connected to:  Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production  Version 19.3.0.0.0  SQL> **ALTER DATABASE OPEN RESETLOGS UPGRADE;**  Database altered.  SQL> **SELECT NAME,OPEN\_MODE FROM V$DATABASE UNION ALL SELECT INSTANCE\_NAME,STATUS FROM V$INSTANCE;**  NAME OPEN\_MODE  ---------------- --------------------  SSS READ WRITE  sss OPEN MIGRATE  SQL> **exit;**  Disconnected from Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production  Version 19.3.0.0.0  [oracle@dc1sssdbo01 ~]$ **cd $ORACLE\_HOME/bin**  [oracle@dc1sssdbo01 bin]$ **pwd**  /oracle/product/19.3.0.0/db\_1/bin  [oracle@dc1sssdbo01 bin]$ **./dbupgrade**  Argument list for [/oracle/product/19.3.0.0/db\_1/rdbms/admin/catctl.pl]  For Oracle internal use only A = 0  Run in c = 0  Do not run in C = 0  Input Directory d = 0  Echo OFF e = 1  Simulate E = 0  Forced cleanup F = 0  Log Id i = 0  Child Process I = 0  Log Dir l = 0  Priority List Name L = 0  Upgrade Mode active M = 0  SQL Process Count n = 0  SQL PDB Process Count N = 0  Open Mode Normal o = 0  Start Phase p = 0  End Phase P = 0  Reverse Order r = 0  AutoUpgrade Resume R = 0  Script s = 0  Serial Run S = 0  RO User Tablespaces T = 0  Display Phases y = 0  Debug catcon.pm z = 0  Debug catctl.pl Z = 0  catctl.pl VERSION: [19.0.0.0.0]  STATUS: [Production]  BUILD: [RDBMS\_19.3.0.0.0DBRU\_LINUX.X64\_190417]  /oracle/product/19.3.0.0/db\_1/rdbms/admin/orahome = [/oracle/product/19.3.0.0/db\_1]  /oracle/product/19.3.0.0/db\_1/bin/orabasehome = [/oracle/product/19.3.0.0/db\_1]  catctlGetOraBaseLogDir = [/oracle/product/19.3.0.0/db\_1]  Analyzing file /oracle/product/19.3.0.0/db\_1/rdbms/admin/catupgrd.sql  Log file directory = [/tmp/cfgtoollogs/upgrade20200106150356]  catcon::set\_log\_file\_base\_path: ALL catcon-related output will be written to [/tmp/cfgtoollogs/upgrade20200106150356/catupgrd\_catcon\_12404.lst]  catcon::set\_log\_file\_base\_path: catcon: See [/tmp/cfgtoollogs/upgrade20200106150356/catupgrd\*.log] files for output generated by scripts  catcon::set\_log\_file\_base\_path: catcon: See [/tmp/cfgtoollogs/upgrade20200106150356/catupgrd\_\*.lst] files for spool files, if any  Number of Cpus = 48  Database Name = sss  DataBase Version = 12.2.0.1.0  catcon::set\_log\_file\_base\_path: ALL catcon-related output will be written to [/oracle/product/19.3.0.0/db\_1/cfgtoollogs/sss/upgrade20200106150406/catupgrd\_catcon\_12404.lst]  catcon::set\_log\_file\_base\_path: catcon: See [/oracle/product/19.3.0.0/db\_1/cfgtoollogs/sss/upgrade20200106150406/catupgrd\*.log] files for output generated by scripts  catcon::set\_log\_file\_base\_path: catcon: See [/oracle/product/19.3.0.0/db\_1/cfgtoollogs/sss/upgrade20200106150406/catupgrd\_\*.lst] files for spool files, if any  Log file directory = [/oracle/product/19.3.0.0/db\_1/cfgtoollogs/sss/upgrade20200106150406]  Parallel SQL Process Count = 4  Components in [sss]  Installed [APS CATALOG CATJAVA CATPROC CONTEXT DV JAVAVM OLS ORDIM OWM SDO XDB XML XOQ]  Not Installed [APEX EM MGW ODM RAC WK]  ------------------------------------------------------  Phases [0-107] Start Time:[2020\_01\_06 15:04:20]  ------------------------------------------------------  \*\*\*\*\*\*\*\*\*\*\* Executing Change Scripts \*\*\*\*\*\*\*\*\*\*\*  Serial Phase #:0 [sss] Files:1 Time: 20s  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Catalog Core SQL \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  Serial Phase #:1 [sss] Files:5 Time: 18s  Restart Phase #:2 [sss] Files:1 Time: 2s  \*\*\*\*\*\*\*\*\*\*\* Catalog Tables and Views \*\*\*\*\*\*\*\*\*\*\*  Parallel Phase #:3 [sss] Files:19 Time: 6s  Restart Phase #:4 [sss] Files:1 Time: 3s  \*\*\*\*\*\*\*\*\*\*\*\*\* Catalog Final Scripts \*\*\*\*\*\*\*\*\*\*\*\*  Serial Phase #:5 [sss] Files:7 Time: 8s  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Catproc Start \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  Serial Phase #:6 [sss] Files:1 Time: 9s  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Catproc Types \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  Serial Phase #:7 [sss] Files:2 Time: 6s  Restart Phase #:8 [sss] Files:1 Time: 3s  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Catproc Tables \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  Parallel Phase #:9 [sss] Files:67 Time: 8s  Restart Phase #:10 [sss] Files:1 Time: 2s  \*\*\*\*\*\*\*\*\*\*\*\*\* Catproc Package Specs \*\*\*\*\*\*\*\*\*\*\*\*  Serial Phase #:11 [sss] Files:1 Time: 34s  Restart Phase #:12 [sss] Files:1 Time: 1s  \*\*\*\*\*\*\*\*\*\*\*\*\*\* Catproc Procedures \*\*\*\*\*\*\*\*\*\*\*\*\*\*  Parallel Phase #:13 [sss] Files:94 Time: 4s  Restart Phase #:14 [sss] Files:1 Time: 3s  Parallel Phase #:15 [sss] Files:120 Time: 6s  Restart Phase #:16 [sss] Files:1 Time: 3s  Serial Phase #:17 [sss] Files:22 Time: 3s  Restart Phase #:18 [sss] Files:1 Time: 4s  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Catproc Views \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  Parallel Phase #:19 [sss] Files:32 Time: 7s  Restart Phase #:20 [sss] Files:1 Time: 1s  Serial Phase #:21 [sss] Files:3 Time: 7s  Restart Phase #:22 [sss] Files:1 Time: 2s  Parallel Phase #:23 [sss] Files:25 Time: 70s  Restart Phase #:24 [sss] Files:1 Time: 3s  Parallel Phase #:25 [sss] Files:12 Time: 48s  Restart Phase #:26 [sss] Files:1 Time: 2s  Serial Phase #:27 [sss] Files:1 Time: 0s  Serial Phase #:28 [sss] Files:3 Time: 3s  Serial Phase #:29 [sss] Files:1 Time: 0s  Restart Phase #:30 [sss] Files:1 Time: 4s  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Catproc CDB Views \*\*\*\*\*\*\*\*\*\*\*\*\*\*  Serial Phase #:31 [sss] Files:1 Time: 2s  Restart Phase #:32 [sss] Files:1 Time: 4s  Serial Phase #:34 [sss] Files:1 Time: 0s  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Catproc PLBs \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  Serial Phase #:35 [sss] Files:293 Time: 13s  Serial Phase #:36 [sss] Files:1 Time: 0s  Restart Phase #:37 [sss] Files:1 Time: 1s  Serial Phase #:38 [sss] Files:6 Time: 4s  Restart Phase #:39 [sss] Files:1 Time: 4s  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Catproc DataPump \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  Serial Phase #:40 [sss] Files:3 Time: 27s  Restart Phase #:41 [sss] Files:1 Time: 3s  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Catproc SQL \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  Parallel Phase #:42 [sss] Files:13 Time: 47s  Restart Phase #:43 [sss] Files:1 Time: 2s  Parallel Phase #:44 [sss] Files:11 Time: 4s  Restart Phase #:45 [sss] Files:1 Time: 4s  Parallel Phase #:46 [sss] Files:3 Time: 2s  Restart Phase #:47 [sss] Files:1 Time: 4s  \*\*\*\*\*\*\*\*\*\*\*\*\* Final Catproc scripts \*\*\*\*\*\*\*\*\*\*\*\*  Serial Phase #:48 [sss] Files:1 Time: 5s  Restart Phase #:49 [sss] Files:1 Time: 2s  \*\*\*\*\*\*\*\*\*\*\*\*\*\* Final RDBMS scripts \*\*\*\*\*\*\*\*\*\*\*\*\*  Serial Phase #:50 [sss] Files:1 Time: 5s  \*\*\*\*\*\*\*\*\*\*\*\* Upgrade Component Start \*\*\*\*\*\*\*\*\*\*\*  Serial Phase #:51 [sss] Files:1 Time: 2s  Restart Phase #:52 [sss] Files:1 Time: 3s  \*\*\*\*\*\*\*\*\*\* Upgrading Java and non-Java \*\*\*\*\*\*\*\*\*  Serial Phase #:53 [sss] Files:2 Time: 137s  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Upgrading XDB \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  Restart Phase #:54 [sss] Files:1 Time: 2s  Serial Phase #:56 [sss] Files:3 Time: 7s  Serial Phase #:57 [sss] Files:3 Time: 5s  Parallel Phase #:58 [sss] Files:10 Time: 5s  Parallel Phase #:59 [sss] Files:25 Time: 6s  Serial Phase #:60 [sss] Files:4 Time: 7s  Serial Phase #:61 [sss] Files:1 Time: 0s  Serial Phase #:62 [sss] Files:32 Time: 5s  Serial Phase #:63 [sss] Files:1 Time: 0s  Parallel Phase #:64 [sss] Files:6 Time: 8s  Serial Phase #:65 [sss] Files:2 Time: 15s  Serial Phase #:66 [sss] Files:3 Time: 18s  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Upgrading ORDIM \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  Restart Phase #:67 [sss] Files:1 Time: 3s  Serial Phase #:69 [sss] Files:1 Time: 4s  Parallel Phase #:70 [sss] Files:2 Time: 16s  Restart Phase #:71 [sss] Files:1 Time: 4s  Parallel Phase #:72 [sss] Files:2 Time: 4s  Serial Phase #:73 [sss] Files:2 Time: 4s  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Upgrading SDO \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  Restart Phase #:74 [sss] Files:1 Time: 4s  Serial Phase #:76 [sss] Files:1 Time: 21s  Serial Phase #:77 [sss] Files:2 Time: 5s  Restart Phase #:78 [sss] Files:1 Time: 3s  Serial Phase #:79 [sss] Files:1 Time: 29s  Restart Phase #:80 [sss] Files:1 Time: 3s  Parallel Phase #:81 [sss] Files:3 Time: 23s  Restart Phase #:82 [sss] Files:1 Time: 3s  Serial Phase #:83 [sss] Files:1 Time: 6s  Restart Phase #:84 [sss] Files:1 Time: 3s  Serial Phase #:85 [sss] Files:1 Time: 8s  Restart Phase #:86 [sss] Files:1 Time: 3s  Parallel Phase #:87 [sss] Files:4 Time: 32s  Restart Phase #:88 [sss] Files:1 Time: 3s  Serial Phase #:89 [sss] Files:1 Time: 4s  Restart Phase #:90 [sss] Files:1 Time: 3s  Serial Phase #:91 [sss] Files:2 Time: 8s  Restart Phase #:92 [sss] Files:1 Time: 2s  Serial Phase #:93 [sss] Files:1 Time: 2s  Restart Phase #:94 [sss] Files:1 Time: 3s  \*\*\*\*\*\*\* Upgrading ODM, WK, EXF, RUL, XOQ \*\*\*\*\*\*\*  Serial Phase #:95 [sss] Files:1 Time: 11s  Restart Phase #:96 [sss] Files:1 Time: 2s  \*\*\*\*\*\*\*\*\*\*\* Final Component scripts \*\*\*\*\*\*\*\*\*\*\*  Serial Phase #:97 [sss] Files:1 Time: 3s  \*\*\*\*\*\*\*\*\*\*\*\*\* Final Upgrade scripts \*\*\*\*\*\*\*\*\*\*\*\*  Serial Phase #:98 [sss] Files:1 Time: 114s  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Migration \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  Serial Phase #:99 [sss] Files:1 Time: 2s  \*\*\* End PDB Application Upgrade Pre-Shutdown \*\*\*  Serial Phase #:100 [sss] Files:1 Time: 2s  Serial Phase #:101 [sss] Files:1 Time: 0s  Serial Phase #:102 [sss] Files:1 Time: 57s  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Post Upgrade \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  Serial Phase #:103 [sss] Files:1 Time: 12s  \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Summary report \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  Serial Phase #:104 [sss] Files:1 Time: 3s  \*\*\* End PDB Application Upgrade Post-Shutdown \*\*  Serial Phase #:105 [sss] Files:1 Time: 2s  Serial Phase #:106 [sss] Files:1 Time: 0s  Serial Phase #:107 [sss] Files:1 Time: 72s  ------------------------------------------------------  Phases [0-107] End Time:[2020\_01\_06 15:23:06]  ------------------------------------------------------  Grand Total Time: 1127s  LOG FILES: (/oracle/product/19.3.0.0/db\_1/cfgtoollogs/sss/upgrade20200106150406/catupgrd\*.log)  Upgrade Summary Report Located in:  /oracle/product/19.3.0.0/db\_1/cfgtoollogs/sss/upgrade20200106150406/upg\_summary.log  Grand Total Upgrade Time: [0d:0h:18m:47s]  [oracle@dc1sssdbo01 bin]$ cat /oracle/product/19.3.0.0/db\_1/cfgtoollogs/sss/upgrade20200106150406/upg\_summary.log  Oracle Database Release 19 Post-Upgrade Status Tool 01-06-2020 15:21:5  Database Name: SSS  Component Current Full Elapsed Time  Name Status Version HH:MM:SS  Oracle Server UPGRADED 19.3.0.0.0 00:07:01  JServer JAVA Virtual Machine UPGRADED 19.3.0.0.0 00:00:46  Oracle XDK UPGRADED 19.3.0.0.0 00:00:27  Oracle Database Java Packages UPGRADED 19.3.0.0.0 00:00:05  OLAP Analytic Workspace UPGRADED 19.3.0.0.0 00:00:07  Oracle Label Security UPGRADED 19.3.0.0.0 00:00:02  Oracle Database Vault UPGRADED 19.3.0.0.0 00:00:08  Oracle Text UPGRADED 19.3.0.0.0 00:00:18  Oracle Workspace Manager UPGRADED 19.3.0.0.0 00:00:18  Oracle Real Application Clusters UPGRADED 19.3.0.0.0 00:00:00  Oracle XML Database UPGRADED 19.3.0.0.0 00:01:10  Oracle Multimedia UPGRADED 19.3.0.0.0 00:00:28  Spatial UPGRADED 19.3.0.0.0 00:02:33  Oracle OLAP API UPGRADED 19.3.0.0.0 00:00:08  Datapatch 00:01:46  Final Actions 00:01:55  Post Upgrade 00:00:10  Total Upgrade Time: 00:16:24  Database time zone version is 26. It is older than current release time  zone version 32. Time zone upgrade is needed using the DBMS\_DST package.  Grand Total Upgrade Time: [0d:0h:18m:47s]  [oracle@dc1sssdbo01 bin]$ **cd**  [oracle@dc1sssdbo01 ~]$ **ps -ef|grep ckpt**  oracle 19178 10443 0 15:24 pts/0 00:00:00 grep --color=auto ckpt  oracle 42723 1 0 13:55 ? 00:00:00 asm\_ckpt\_+ASM  [oracle@dc1sssdbo01 ~]$ **rlwrap sqlplus / as sysdba**  SQL\*Plus: Release 19.0.0.0.0 - Production on Mon Jan 6 15:24:59 2020  Version 19.3.0.0.0  Copyright (c) 1982, 2019, Oracle. All rights reserved.  Connected to an idle instance.  SQL> **STARTUP PFILE='/backup/rman/initsss19c\_20200101.ora';**  ORACLE instance started.  Total System Global Area 8.1068E+10 bytes  Fixed Size 30140648 bytes  Variable Size 9663676416 bytes  Database Buffers 7.1135E+10 bytes  Redo Buffers 238292992 bytes  Database mounted.  Database opened.  SQL> **@?/rdbms/admin/utlusts.sql**  Enter value for 1: **1**  Oracle Database Release 19 Post-Upgrade Status Tool 01-06-2020 15:29:3  Database Name: SSS  Component Current Full Elapsed Time  Name Status Version HH:MM:SS  Oracle Server UPGRADED 19.3.0.0.0 00:07:01  JServer JAVA Virtual Machine UPGRADED 19.3.0.0.0 00:00:46  Oracle XDK UPGRADED 19.3.0.0.0 00:00:27  Oracle Database Java Packages UPGRADED 19.3.0.0.0 00:00:05  OLAP Analytic Workspace UPGRADED 19.3.0.0.0 00:00:07  Oracle Label Security UPGRADED 19.3.0.0.0 00:00:02  Oracle Database Vault UPGRADED 19.3.0.0.0 00:00:08  Oracle Text UPGRADED 19.3.0.0.0 00:00:18  Oracle Workspace Manager UPGRADED 19.3.0.0.0 00:00:18  Oracle Real Application Clusters UPGRADED 19.3.0.0.0 00:00:00  Oracle XML Database UPGRADED 19.3.0.0.0 00:01:10  Oracle Multimedia UPGRADED 19.3.0.0.0 00:00:28  Spatial UPGRADED 19.3.0.0.0 00:02:33  Oracle OLAP API UPGRADED 19.3.0.0.0 00:00:08  Datapatch 00:01:46  Final Actions 00:01:55  Post Upgrade 00:00:10  Total Upgrade Time: 00:16:24  Database time zone version is 26. It is older than current release time  zone version 32. Time zone upgrade is needed using the DBMS\_DST package.  SQL> **@?/rdbms/admin/utlrp**  SQL> **exit**  Disconnected from Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production  Version 19.3.0.0.0  [oracle@dc1sssdbo01 ~]$ **cat /etc/oratab**  #Backup file is /oracle/crsdata/dc1sssdbo01/output/oratab.bak.dc1sssdbo01.oracle line added by Agent  #  # This file is used by ORACLE utilities. It is created by root.sh  # and updated by either Database Configuration Assistant while creating  # a database or ASM Configuration Assistant while creating ASM instance.  # A colon, ':', is used as the field terminator. A new line terminates  # the entry. Lines beginning with a pound sign, '#', are comments.  #  # Entries are of the form:  # $ORACLE\_SID:$ORACLE\_HOME:<N|Y>:  #  # The first and second fields are the system identifier and home  # directory of the database respectively. The third field indicates  # to the dbstart utility that the database should , "Y", or should not,  # "N", be brought up at system boot time.  #  # Multiple entries with the same $ORACLE\_SID are not allowed.  #  #  +ASM:/oracle/product/19.3.0.0/grid:N # line added by Agent  [oracle@dc1sssdbo01 ~]$ **echo $ORACLE\_SID:$ORACLE\_HOME:Y**  sss:/oracle/product/19.3.0.0/db\_1:Y  [oracle@dc1sssdbo01 ~]$ **echo $ORACLE\_SID:$ORACLE\_HOME:Y >> /etc/oratab**  [oracle@dc1sssdbo01 ~]$ **cat /etc/oratab**  #Backup file is /oracle/crsdata/dc1sssdbo01/output/oratab.bak.dc1sssdbo01.oracle line added by Agent  #  # This file is used by ORACLE utilities. It is created by root.sh  # and updated by either Database Configuration Assistant while creating  # a database or ASM Configuration Assistant while creating ASM instance.  # A colon, ':', is used as the field terminator. A new line terminates  # the entry. Lines beginning with a pound sign, '#', are comments.  #  # Entries are of the form:  # $ORACLE\_SID:$ORACLE\_HOME:<N|Y>:  #  # The first and second fields are the system identifier and home  # directory of the database respectively. The third field indicates  # to the dbstart utility that the database should , "Y", or should not,  # "N", be brought up at system boot time.  #  # Multiple entries with the same $ORACLE\_SID are not allowed.  #  #  +ASM:/oracle/product/19.3.0.0/grid:N # line added by Agent  sss:/oracle/product/19.3.0.0/db\_1:Y  [oracle@dc1sssdbo01 ~]$ **. .db-profile**  [oracle@dc1sssdbo01 ~]$ **rlwrap sqlplus / as sysdba**  SQL\*Plus: Release 19.0.0.0.0 - Production on Mon Jan 6 15:38:23 2020  Version 19.3.0.0.0  Copyright (c) 1982, 2019, Oracle. All rights reserved.  Connected to an idle instance.  SQL> **!env|grep ORA**  ORACLE\_SID=sss  ORACLE\_HOSTNAME=DC1SSSDBO01.corp.bi.go.id  ORACLE\_BASE=/oracle  ORACLE\_TERM=xterm  ORACLE\_HOME=/oracle/product/19.3.0.0/db\_1  SQL> **startup nomount pfile='/backup/rman/initsss19c\_20200101.ora;**  ORACLE instance started.  Total System Global Area 8.1068E+10 bytes  Fixed Size 30140648 bytes  Variable Size 9663676416 bytes  Database Buffers 7.1135E+10 bytes  Redo Buffers 238292992 bytes  SQL> **create spfile='+SSS\_DATA/SSS/parameterfile/spfilesss.ora' from pfile='/backup/rman/initsss19c\_20200101.ora';**  File created.  SQL> **shu immediate;**  ORA-01507: database not mounted  ORACLE instance shut down.  SQL> **exit**  Disconnected from Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production  Version 19.3.0.0.0  [oracle@dc1sssdbo01 ~]$ **vi $ORACLE\_HOME/dbs/init$ORACLE\_SID.ora**  [oracle@dc1sssdbo01 ~]$ **cat $ORACLE\_HOME/dbs/init$ORACLE\_SID.ora**  spfile='+SSS\_DATA/SSS/parameterfile/spfilesss.ora'  [oracle@dc1sssdbo01 ~]$ **rlwrap sqlplus / as sysdba**  SQL\*Plus: Release 19.0.0.0.0 - Production on Mon Jan 6 15:41:50 2020  Version 19.3.0.0.0  Copyright (c) 1982, 2019, Oracle. All rights reserved.  Connected to an idle instance.  SQL> **STARTUP;**  ORACLE instance started.  Total System Global Area 8.1068E+10 bytes  Fixed Size 30140648 bytes  Variable Size 9663676416 bytes  Database Buffers 7.1135E+10 bytes  Redo Buffers 238292992 bytes  Database mounted.  Database opened.  SQL> **SHO PARAMETER PFILE;**  NAME TYPE VALUE  ------------------------------------ ----------- ------------------------------  spfile string +SSS\_DATA/SSS/parameterfile/sp  filesss.ora  SQL> **@?/rdbms/admin/utltz\_countstats.sql**  SQL> **@?/rdbms/admin/utltz\_countstar.sql**  SQL> **@?/rdbms/admin/utltz\_upg\_check.sql**  SQL> **@?/rdbms/admin/utltz\_upg\_apply.sql**  Session altered.  INFO: If an ERROR occurs, the script will EXIT SQL\*Plus.  INFO: The database RDBMS DST version will be updated to DSTv32 .  WARNING: This script will restart the database 2 times  WARNING: WITHOUT asking ANY confirmation.  WARNING: Hit control-c NOW if this is not intended.  INFO: Restarting the database in UPGRADE mode to start the DST upgrade.  Database closed.  Database dismounted.  ORACLE instance shut down.  ORACLE instance started.  Total System Global Area 8.1068E+10 bytes  Fixed Size 30140648 bytes  Variable Size 9663676416 bytes  Database Buffers 7.1135E+10 bytes  Redo Buffers 238292992 bytes  Database mounted.  Database opened.  INFO: Starting the RDBMS DST upgrade.  INFO: Upgrading all SYS owned TSTZ data.  INFO: It might take time before any further output is seen ...  An upgrade window has been successfully started.  INFO: Restarting the database in NORMAL mode to upgrade non-SYS TSTZ data.  Database closed.  Database dismounted.  ORACLE instance shut down.  ORACLE instance started.  Total System Global Area 8.1068E+10 bytes  Fixed Size 30140648 bytes  Variable Size 9663676416 bytes  Database Buffers 7.1135E+10 bytes  Redo Buffers 238292992 bytes  Database mounted.  Database opened.  INFO: Upgrading all non-SYS TSTZ data.  INFO: It might take time before any further output is seen ...  INFO: Do NOT start any application yet that uses TSTZ data!  INFO: Next is a list of all upgraded tables:  Table list: "GSMADMIN\_INTERNAL"."AQ$\_CHANGE\_LOG\_QUEUE\_TABLE\_L"  Number of failures: 0  Table list: "GSMADMIN\_INTERNAL"."AQ$\_CHANGE\_LOG\_QUEUE\_TABLE\_S"  Number of failures: 0  Table list: "MDSYS"."SDO\_DIAG\_MESSAGES\_TABLE"  Number of failures: 0  Table list: "DVSYS"."AUDIT\_TRAIL$"  Number of failures: 0  Table list: "DVSYS"."SIMULATION\_LOG$"  Number of failures: 0  Table list: "SSS"."TMP\_64544012"  Number of failures: 0  INFO: Total failures during update of TSTZ data: 0 .  An upgrade window has been successfully ended.  INFO: Your new Server RDBMS DST version is DSTv32 .  INFO: The RDBMS DST update is successfully finished.  INFO: Make sure to exit this SQL\*Plus session.  INFO: Do not use it for timezone related selects.  Session altered.  SQL> **exit**  Disconnected from Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production  Version 19.3.0.0.0  [oracle@dc1sssdbo01 ~]$ **orapwd file=$ORACLE\_HOME/dbs/orapw$ORACLE\_SID format=12 password=oracle123**  [oracle@dc1sssdbo01 ~]$ **ls -lh $ORACLE\_HOME/dbs**  total 11M  -rw-rw----. 1 oracle asmadmin 1.6K Jan 6 15:45 hc\_sss.dat  -rw-r--r--. 1 oracle oinstall 3.1K May 14 2015 init.ora  -rw-r--r--. 1 oracle oinstall 51 Jan 6 15:41 initsss.ora  -rw-r-----. 1 oracle asmadmin 24 Jan 6 14:29 lkSSS  -rw-r-----. 1 oracle oinstall 2.0K Jan 6 15:50 orapwsss  -rw-r-----. 1 oracle asmadmin 11M Jan 6 15:02 snapcf\_sss.f  [oracle@dc1sssdbo01 ~]$ **srvctl add database -db sss -oraclehome $ORACLE\_HOME -dbname sss -domain corp.bi.go.id -spfile +SSS\_DATA/SSS/parameterfile/spfilesss.ora -pwfile $ORACLE\_HOME/dbs/orapw$ORACLE\_SID -role PRIMARY -startoption OPEN -stopoption IMMEDIATE -instance sss -policy AUTOMATIC -diskgroup "SSS\_DATA","SSS\_FRA"**  [oracle@dc1sssdbo01 ~]$ **srvctl config database -db sss**  Database unique name: sss  Database name: sss  Oracle home: /oracle/product/19.3.0.0/db\_1  Oracle user: oracle  Spfile: +SSS\_DATA/SSS/parameterfile/spfilesss.ora  Password file: /oracle/product/19.3.0.0/db\_1/dbs/orapwsss  Domain: corp.bi.go.id  Start options: open  Stop options: immediate  Database role: PRIMARY  Management policy: AUTOMATIC  Disk Groups: SSS\_DATA,SSS\_FRA  Services:  OSDBA group:  OSOPER group:  Database instance: sss  [oracle@dc1sssdbo01 ~]$ **rlwrap sqlplus / as sysdba**  SQL\*Plus: Release 19.0.0.0.0 - Production on Mon Jan 6 15:54:10 2020  Version 19.3.0.0.0  Copyright (c) 1982, 2019, Oracle. All rights reserved.  Connected to:  Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production  Version 19.3.0.0.0  SQL> **shu immediate;**  Database closed.  Database dismounted.  ORACLE instance shut down.  SQL> **exit;**  Disconnected from Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production  Version 19.3.0.0.0  [oracle@dc1sssdbo01 ~]$ **srvctl start database -db sss**  [oracle@dc1sssdbo01 ~]$ **srvctl status database -db sss**  Database is running.  [oracle@dc1sssdbo01 ~]$ **. .grid-profile**  [oracle@dc1sssdbo01 ~]$ **crsctl stat res -t**  --------------------------------------------------------------------------------  Name Target State Server State details  --------------------------------------------------------------------------------  Local Resources  --------------------------------------------------------------------------------  ora.LISTENER.lsnr  ONLINE ONLINE dc1sssdbo01 STABLE  ora.SSS\_DATA.dg  ONLINE ONLINE dc1sssdbo01 STABLE  ora.SSS\_FRA.dg  ONLINE ONLINE dc1sssdbo01 STABLE  ora.asm  ONLINE ONLINE dc1sssdbo01 Started,STABLE  ora.ons  OFFLINE OFFLINE dc1sssdbo01 STABLE  --------------------------------------------------------------------------------  Cluster Resources  --------------------------------------------------------------------------------  ora.cssd  1 ONLINE ONLINE dc1sssdbo01 STABLE  ora.diskmon  1 OFFLINE OFFLINE STABLE  ora.driver.afd  1 ONLINE ONLINE dc1sssdbo01 STABLE  ora.evmd  1 ONLINE ONLINE dc1sssdbo01 STABLE  ora.sss.db  1 ONLINE ONLINE dc1sssdbo01 Open,HOME=/oracle/pr  oduct/19.3.0.0/db\_1,  STABLE  --------------------------------------------------------------------------------  [oracle@dc1sssdbo01 ~]$ **crsctl query has releaseversion**  Oracle High Availability Services release version on the local node is [19.0.0.0.0]  [oracle@dc1sssdbo01 ~]$ **. .db-profile**  [oracle@dc1sssdbo01 ~]$ **sqlplus / as sysdba**  SQL\*Plus: Release 19.0.0.0.0 - Production on Mon Jan 6 15:56:19 2020  Version 19.3.0.0.0  Copyright (c) 1982, 2019, Oracle. All rights reserved.  Connected to:  Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production  Version 19.3.0.0.0  SQL> **select banner from v$version;**  BANNER  --------------------------------------------------------------------------------  Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production  SQL> **exit**  Disconnected from Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production  Version 19.3.0.0.0  [oracle@dc1sssdbo01 ~]$ |

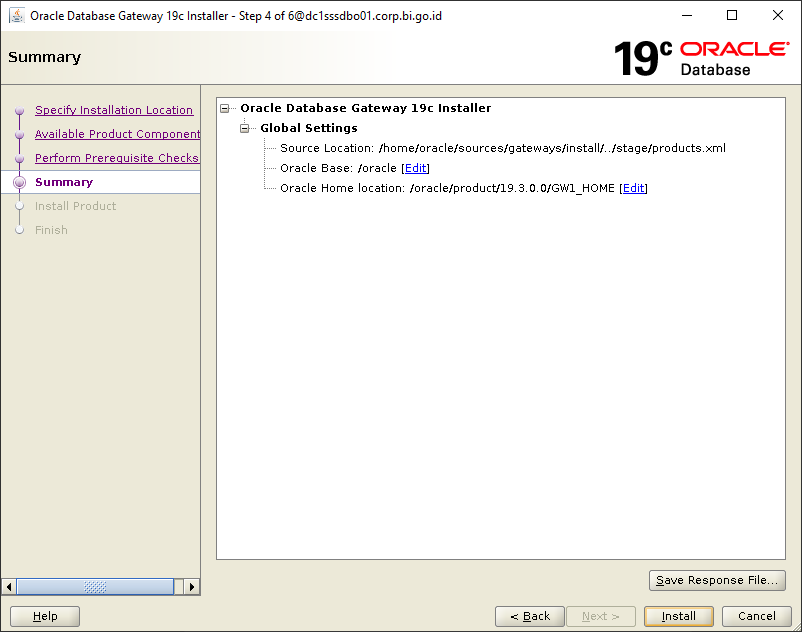
# Install Oracle Gateways 19c

|  |
| --- |
| [oracle@dc1sssdbo01 ~]$ **export ORACLE\_HOME=/oracle/product/19.3.0.0/GW1\_HOME**  [oracle@dc1sssdbo01 ~]$ **mkdir -p $ORACLE\_HOME**  [oracle@dc1sssdbo01 ~]$ **echo $ORACLE\_HOME**  /oracle/product/19.3.0.0/GW1\_HOME  [oracle@dc1sssdbo01 ~]$ **cd sources/; unzip LINUX.X64\_193000\_gateways.zip**  ...  inflating: gateways/stage/invDetails.properties  creating: gateways/stage/ComponentList/  inflating: gateways/stage/ComponentList/oracle.tg\_Custom.xml  creating: gateways/stage/globalvariables/  inflating: gateways/stage/globalvariables/globalvar.xml  inflating: gateways/stage/globalvariables/variable.properties  inflating: gateways/welcome.html  [oracle@dc1sssdbo01 sources]$ **cd gateways/; pwd; ls**  /home/oracle/sources/gateways  install response runInstaller stage welcome.html  [oracle@dc1sssdbo01 gateways]$ **./runInstaller**  Starting Oracle Universal Installer...  Checking Temp space: must be greater than 415 MB. Actual 37740 MB Passed  Checking swap space: must be greater than 150 MB. Actual 65535 MB Passed  Checking monitor: must be configured to display at least 256 colors. Actual 16777216 Passed  Preparing to launch Oracle Universal Installer from /tmp/OraInstall2020-01-07\_11-23-54AM. Please wait ...[oracle@dc1sssdbo01 gateways]$ The response file for this session can be found at:  /oracle/product/19.3.0.0/GW1\_HOME/install/response/tg\_2020-01-07\_11-23-54AM.rsp  You can find the log of this install session at:  /oracle/oraInventory/logs/installActions2020-01-07\_11-23-54AM.log  [oracle@dc1sssdbo01 gateways]$ **cd ../; rm -fr gateways**  [oracle@dc1sssdbo01 sources]$ **cd**  [oracle@dc1sssdbo01 ~]$ **. .gateways-profile**  [oracle@dc1sssdbo01 ~]$ **lsnrctl status LISTENER\_GTW**  LSNRCTL for Linux: Version 19.0.0.0.0 - Production on 07-JAN-2020 11:50:06  Copyright (c) 1991, 2019, Oracle. All rights reserved.  Connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=dc1sssdbo01.corp.bi.go.id)(PORT=1522)))  STATUS of the LISTENER  ------------------------  Alias LISTENER\_GTW  Version TNSLSNR for Linux: Version 19.0.0.0.0 - Production  Start Date 07-JAN-2020 11:41:33  Uptime 0 days 0 hr. 8 min. 32 sec  Trace Level off  Security ON: Local OS Authentication  SNMP OFF  Listener Parameter File /oracle/product/19.3.0.0/GW1\_HOME/network/admin/listener.ora  Listener Log File /oracle/diag/tnslsnr/dc1sssdbo01/listener\_gtw/alert/log.xml  Listening Endpoints Summary...  (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=dc1sssdbo01.corp.bi.go.id)(PORT=1522)))  (DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=EXTPROC1522)))  The listener supports no services  The command completed successfully  [oracle@dc1sssdbo01 ~]$ **ps -ef|grep tnsl**  oracle 4922 1 0 11:41 ? 00:00:00 /oracle/product/19.3.0.0/GW1\_HOME/bin/tnslsnr LISTENER\_GTW -inherit  oracle 6062 46666 0 11:50 pts/0 00:00:00 grep --color=auto tnsl  oracle 40900 1 0 Jan06 ? 00:00:01 /oracle/product/19.3.0.0/grid/bin/tnslsnr LISTENER -no\_crs\_notify -inherit  [oracle@dc1sssdbo01 ~]$ **cat .gateways-profile**  # GW Setting  ORACLE\_BASE=/oracle; export ORACLE\_BASE  export ORACLE\_HOME=/oracle/product/19.3.0.0/GW1\_HOME  PATH=$ORACLE\_HOME/bin:/usr/sbin:$PATH; export PATH  LD\_LIBRARY\_PATH=$ORACLE\_HOME/lib:/lib:/usr/lib; export LD\_LIBRARY\_PATH  CLASSPATH=$ORACLE\_HOME/JRE:$ORACLE\_HOME/jlib:$ORACLE\_HOME/rdbms/jlib; export CLASSPATH  umask 022  [oracle@dc1sssdbo01 ~]$ |









Save Response File: /home/oracle/GW\_20200106.rsp

