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Oracle ASM

<https://www.oracle.com/linux/downloads/linux-asmlib-rhel7-downloads.html>

https://yum.oracle.com/repo/OracleLinux/OL7/latest/x86_64/getPackage/kmod-oracleasm-2.0.8-28.0.1.el7.x86_64.rpm

```
yum install sg3_utils -y
```

<https://docs.oracle.com/en/database/oracle/oracle-database/12.2/tdprc/preparing-your-cluster.html>

Set OS Limits

```
/usr/sbin/groupadd -g 1000 oinstall
/usr/sbin/groupadd -g 1001 dba
/usr/sbin/groupadd -g 1002 asmdba

/usr/sbin/useradd -u 1100 -g oinstall -G dba,asmdba -d /home/grid -r grid
/usr/sbin/useradd -u 1200 -g oinstall -G dba,asmdba -d /home/oracle -r
oracle

# grid
ORACLE_HOME=/u01/app/12.1.0/grid; export ORACLE_HOME
mkdir -p /u01/app/12.1.0/grid
chown -R grid:oinstall /u01/app/12.1.0/grid

# db
mkdir -p /u01/app/oracle/
chown -R oracle:oinstall /u01/app/oracle/
chmod -R 775 /u01/app/oracle/
```

You can use an Oracle home directory created in the local file system, for example, /u01/app/oracle/product/12.1.0/dbhome_1. The same directory must exist on every node in the cluster. You do not have to create these directories before installation. By default, the installer suggests a subdirectory of the Oracle base directory for the Oracle home.

Time Synchronization

ntp must use -x option (don't go back in time)
/etc/ntp.conf

```
slewalways yes
```

Create loopback raw files (not required)

```
mkdir /asmfs
dd if=/dev/zero of=/asmfs/disk1 bs=1024k count=30000
dd if=/dev/zero of=/asmfs/disk2 bs=1024k count=30000
dd if=/dev/zero of=/asmfs/disk3 bs=1024k count=30000

chown -R grid:asmdba /asmfs
chmod -R 660 /asmfs
```

/etc/init.d/loopback

```
#!/bin/bash
#
# chkconfig: 2345 18 18
# description: Loopback

case "$1" in
    start)
        /sbin/losetup /dev/loop1 /asmfs/disk1
        /sbin/losetup /dev/loop2 /asmfs/disk2
        /sbin/losetup /dev/loop3 /asmfs/disk3
        raw /dev/raw/raw1 /dev/loop1
        raw /dev/raw/raw2 /dev/loop2
        raw /dev/raw/raw3 /dev/loop3
        chown -R oracle:oinstall /dev/raw/*
        touch /var/lock/subsys/loopback
        ;;
    stop)
        /sbin/losetup -d /dev/loop1
        /sbin/losetup -d /dev/loop2
        /sbin/losetup -d /dev/loop3
        ;;
esac
```

```
chown -R oracle:oinstall /dev/raw/*
fdisk create partition
oracleasm createdisk < disk label > /dev/mapper/< alias >< partition >
```

Oratab

```
SID:/u01/app/oracle/product/11.2.0/dbhome_1:Y
+ASM:/u01/app/oracle/product/11.2.0/grid:N
```

Discover ASM in RAC

```
/etc/init.d/oracleasm scandisks  
/etc/init.d/oracleasm listdisks
```

Resize ASM

```
/etc/init.d/oracleasm listdisks  
/etc/init.d/oracleasm createdisk VOLx /dev/raw/raw2  
ALTER DISKGROUP DATA ADD DISK 'ORAPL:VOLx';
```

Oracle bash profile

```
# User specific environment and startup programs  
  
PATH=$PATH:$HOME/bin:/opt/oracle/product/12.1.0/dbhome_1/bin  
  
export PATH  
export ORACLE_HOME=/opt/oracle/product/12.1.0/dbhome_1  
export ORACLE_SID=ORAPL
```

Turn off audit

```
ALTER SYSTEM SET AUDIT_TRAIL=NONE SCOPE=SPFILE;
```

SAN

Use the 512B sector size when exporting volumes to initiators. If you need to export LUNs with a 4KB sector size, use Oracle or third-party-provided ASMLIB support packages.

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