[root@rac1 ~]# cat /proc/partitions

major minor #blocks name

8 0 52428800 sda

8 1 10482381 sda1

8 2 36138217 sda2

8 3 5807497 sda3

8 16 1048576 sdb

8 17 1044193 sdb1

8 32 4194304 sdc

8 33 4192933 sdc1

[root@rac1 ~]#

[root@rac1 ~]# oracleasm createdisk disk1 /dev/sdb1

Writing disk header: done

Instantiating disk: done

[root@rac1 ~]# oracleasm createdisk disk2 /dev/sdc1

Writing disk header: done

Instantiating disk: done

[root@rac1 ~]#

[root@rac1 ~]# oracleasm listdisks

DISK1

DISK2

[root@rac1 ~]#

On Node2

[root@rac2 ~]# oracleasm listdisks

[root@rac2 ~]# oracleasm scandisks

Reloading disk partitions: done

Cleaning any stale ASM disks...

Scanning system for ASM disks...

Instantiating disk "DISK1"

Instantiating disk "DISK2"

[root@rac2 ~]# oracleasm listdisks

DISK1

DISK2

[root@rac2 ~]#

[oracle@rac1 grid]$ pwd

/home/oracle/grid

[oracle@rac1 grid]$ ls -ltr

total 104

-rwxrwx--- 1 oracle oinstall 4326 Sep 2 2011 welcome.html

-rwxrwx--- 1 oracle oinstall 4878 Sep 22 2011 runcluvfy.sh 🡨------

-rwxrwx--- 1 oracle oinstall 3227 Sep 22 2011 runInstaller

-rwxrwx--- 1 oracle oinstall 28122 Sep 22 2011 readme.html

drwxrwx--- 2 oracle oinstall 4096 Dec 5 2013 sshsetup

drwxrwx--- 4 oracle oinstall 4096 Dec 5 2013 install

drwxrwx--- 2 oracle oinstall 4096 Dec 5 2013 rpm

drwxrwx--- 2 oracle oinstall 4096 Dec 5 2013 response

drwxrwx--- 9 oracle oinstall 4096 Dec 5 2013 doc

drwxrwx--- 14 oracle oinstall 4096 Dec 5 2013 stage

-rw-r--r-- 1 oracle oinstall 30181 Dec 8 2013 clufy.log

[oracle@rac1 grid]$

[oracle@rac1 grid]$ ./runcluvfy.sh comp ssa -n rac1,rac2 -verbose

Verifying shared storage accessibility

Checking shared storage accessibility...

Disk Sharing Nodes (2 in count)

------------------------------------ ------------------------

/dev/sdb rac2 rac1

Disk Sharing Nodes (2 in count)

------------------------------------ ------------------------

/dev/sdc rac2 rac1

Shared storage check was successful on nodes "rac2,rac1"

Verification of shared storage accessibility was successful.

[oracle@rac1 grid]$

[oracle@rac1 grid]$ ./runcluvfy.sh stage -pre crsinst -n rac1,rac2 -verbose

Performing pre-checks for cluster services setup

Checking node reachability...

Check: Node reachability from node "rac1"

Destination Node Reachable?

------------------------------------ ------------------------

rac2 yes

rac1 yes

Result: Node reachability check passed from node "rac1"

Checking user equivalence...

Check: User equivalence for user "oracle"

Node Name Status

------------------------------------ ------------------------

rac2 passed

rac1 passed

Result: User equivalence check passed for user "oracle"

Checking node connectivity...

Checking hosts config file...

Node Name Status

------------------------------------ ------------------------

rac2 passed

rac1 passed

Verification of the hosts config file successful

Interface information for node "rac2"

Name IP Address Subnet Gateway Def. Gateway HW Address MTU

------ --------------- --------------- --------------- --------------- ----------------- ------

eth0 192.168.2.102 192.168.2.0 0.0.0.0 192.168.2.1 08:00:27:3E:C3:CC 1500

eth1 192.168.0.102 192.168.0.0 0.0.0.0 192.168.2.1 08:00:27:AD:B3:4F 1500

Interface information for node "rac1"

Name IP Address Subnet Gateway Def. Gateway HW Address MTU

------ --------------- --------------- --------------- --------------- ----------------- ------

eth0 192.168.2.101 192.168.2.0 0.0.0.0 192.168.2.1 08:00:27:7B:F1:29 1500

eth1 192.168.0.101 192.168.0.0 0.0.0.0 192.168.2.1 08:00:27:3F:4C:D9 1500

Check: Node connectivity of subnet "192.168.2.0"

Source Destination Connected?

------------------------------ ------------------------------ ----------------

rac2[192.168.2.102] rac1[192.168.2.101] yes

Result: Node connectivity passed for subnet "192.168.2.0" with node(s) rac2,rac1

Check: TCP connectivity of subnet "192.168.2.0"

Source Destination Connected?

------------------------------ ------------------------------ ----------------

rac1:192.168.2.101 rac2:192.168.2.102 passed

Result: TCP connectivity check passed for subnet "192.168.2.0"

Check: Node connectivity of subnet "192.168.0.0"

Source Destination Connected?

------------------------------ ------------------------------ ----------------

rac2[192.168.0.102] rac1[192.168.0.101] yes

Result: Node connectivity passed for subnet "192.168.0.0" with node(s) rac2,rac1

Check: TCP connectivity of subnet "192.168.0.0"

Source Destination Connected?

------------------------------ ------------------------------ ----------------

rac1:192.168.0.101 rac2:192.168.0.102 passed

Result: TCP connectivity check passed for subnet "192.168.0.0"

Interfaces found on subnet "192.168.2.0" that are likely candidates for VIP are:

rac2 eth0:192.168.2.102

rac1 eth0:192.168.2.101

Interfaces found on subnet "192.168.0.0" that are likely candidates for a private interconnect are:

rac2 eth1:192.168.0.102

rac1 eth1:192.168.0.101

Checking subnet mask consistency...

Subnet mask consistency check passed for subnet "192.168.2.0".

Subnet mask consistency check passed for subnet "192.168.0.0".

Subnet mask consistency check passed.

Result: Node connectivity check passed

Checking multicast communication...

Checking subnet "192.168.2.0" for multicast communication with multicast group "230.0.1.0"...

Check of subnet "192.168.2.0" for multicast communication with multicast group "230.0.1.0" passed.

Checking subnet "192.168.0.0" for multicast communication with multicast group "230.0.1.0"...

Check of subnet "192.168.0.0" for multicast communication with multicast group "230.0.1.0" passed.

Check of multicast communication passed.

Checking ASMLib configuration.

Node Name Status

------------------------------------ ------------------------

rac2 passed

rac1 passed

Result: Check for ASMLib configuration passed.

Check: Total memory

Node Name Available Required Status

------------ ------------------------ ------------------------ ----------

rac2 2.942GB (3084860.0KB) 1.5GB (1572864.0KB) passed

rac1 2.942GB (3084860.0KB) 1.5GB (1572864.0KB) passed

Result: Total memory check passed

Check: Available memory

Node Name Available Required Status

------------ ------------------------ ------------------------ ----------

rac2 2.7764GB (2911292.0KB) 50MB (51200.0KB) passed

rac1 2.6908GB (2821512.0KB) 50MB (51200.0KB) passed

Result: Available memory check passed

Check: Swap space

Node Name Available Required Status

------------ ------------------------ ------------------------ ----------

rac2 5.5385GB (5807488.0KB) 2.942GB (3084860.0KB) passed

rac1 5.5385GB (5807488.0KB) 2.942GB (3084860.0KB) passed

Result: Swap space check passed

Check: Free disk space for "rac2:/tmp"

Path Node Name Mount point Available Required Status

---------------- ------------ ------------ ------------ ------------ ------------

/tmp rac2 / 4.9248GB 1GB passed

Result: Free disk space check passed for "rac2:/tmp"

Check: Free disk space for "rac1:/tmp"

Path Node Name Mount point Available Required Status

---------------- ------------ ------------ ------------ ------------ ------------

/tmp rac1 / 4.9043GB 1GB passed

Result: Free disk space check passed for "rac1:/tmp"

Check: User existence for "oracle"

Node Name Status Comment

------------ ------------------------ ------------------------

rac2 passed exists(1100)

rac1 passed exists(1100)

Checking for multiple users with UID value 1100

Result: Check for multiple users with UID value 1100 passed

Result: User existence check passed for "oracle"

Check: Group existence for "oinstall"

Node Name Status Comment

------------ ------------------------ ------------------------

rac2 passed exists

rac1 passed exists

Result: Group existence check passed for "oinstall"

Check: Group existence for "dba"

Node Name Status Comment

------------ ------------------------ ------------------------

rac2 passed exists

rac1 passed exists

Result: Group existence check passed for "dba"

Check: Membership of user "oracle" in group "oinstall" [as Primary]

Node Name User Exists Group Exists User in Group Primary Status

---------------- ------------ ------------ ------------ ------------ ------------

rac2 yes yes yes yes passed

rac1 yes yes yes yes passed

Result: Membership check for user "oracle" in group "oinstall" [as Primary] passed

Check: Membership of user "oracle" in group "dba"

Node Name User Exists Group Exists User in Group Status

---------------- ------------ ------------ ------------ ----------------

rac2 yes yes yes passed

rac1 yes yes yes passed

Result: Membership check for user "oracle" in group "dba" passed

Check: Run level

Node Name run level Required Status

------------ ------------------------ ------------------------ ----------

rac2 5 3,5 passed

rac1 5 3,5 passed

Result: Run level check passed

Check: Hard limits for "maximum open file descriptors"

Node Name Type Available Required Status

---------------- ------------ ------------ ------------ ----------------

rac2 hard 65536 65536 passed

rac1 hard 65536 65536 passed

Result: Hard limits check passed for "maximum open file descriptors"

Check: Soft limits for "maximum open file descriptors"

Node Name Type Available Required Status

---------------- ------------ ------------ ------------ ----------------

rac2 soft 1024 1024 passed

rac1 soft 1024 1024 passed

Result: Soft limits check passed for "maximum open file descriptors"

Check: Hard limits for "maximum user processes"

Node Name Type Available Required Status

---------------- ------------ ------------ ------------ ----------------

rac2 hard 16384 16384 passed

rac1 hard 16384 16384 passed

Result: Hard limits check passed for "maximum user processes"

Check: Soft limits for "maximum user processes"

Node Name Type Available Required Status

---------------- ------------ ------------ ------------ ----------------

rac2 soft 2047 2047 passed

rac1 soft 2047 2047 passed

Result: Soft limits check passed for "maximum user processes"

Check: System architecture

Node Name Available Required Status

------------ ------------------------ ------------------------ ----------

rac2 x86\_64 x86\_64 passed

rac1 x86\_64 x86\_64 passed

Result: System architecture check passed

Check: Kernel version

Node Name Available Required Status

------------ ------------------------ ------------------------ ----------

rac2 2.6.32-200.13.1.el5uek 2.6.18 passed

rac1 2.6.32-200.13.1.el5uek 2.6.18 passed

Result: Kernel version check passed

Check: Kernel parameter for "semmsl"

Node Name Current Configured Required Status Comment

---------------- ------------ ------------ ------------ ------------ ------------

rac2 250 250 250 passed

rac1 250 250 250 passed

Result: Kernel parameter check passed for "semmsl"

Check: Kernel parameter for "semmns"

Node Name Current Configured Required Status Comment

---------------- ------------ ------------ ------------ ------------ ------------

rac2 32000 32000 32000 passed

rac1 32000 32000 32000 passed

Result: Kernel parameter check passed for "semmns"

Check: Kernel parameter for "semopm"

Node Name Current Configured Required Status Comment

---------------- ------------ ------------ ------------ ------------ ------------

rac2 100 100 100 passed

rac1 100 100 100 passed

Result: Kernel parameter check passed for "semopm"

Check: Kernel parameter for "semmni"

Node Name Current Configured Required Status Comment

---------------- ------------ ------------ ------------ ------------ ------------

rac2 128 128 128 passed

rac1 128 128 128 passed

Result: Kernel parameter check passed for "semmni"

Check: Kernel parameter for "shmmax"

Node Name Current Configured Required Status Comment

---------------- ------------ ------------ ------------ ------------ ------------

rac2 1054504960 1054504960 1579448320 failed Current value too low. Configured value too low.

rac1 1054504960 1054504960 1579448320 failed Current value too low. Configured value too low.

Result: Kernel parameter check failed for "shmmax"

Check: Kernel parameter for "shmmni"

Node Name Current Configured Required Status Comment

---------------- ------------ ------------ ------------ ------------ ------------

rac2 4096 4096 4096 passed

rac1 4096 4096 4096 passed

Result: Kernel parameter check passed for "shmmni"

Check: Kernel parameter for "shmall"

Node Name Current Configured Required Status Comment

---------------- ------------ ------------ ------------ ------------ ------------

rac2 2097152 2097152 2097152 passed

rac1 2097152 2097152 2097152 passed

Result: Kernel parameter check passed for "shmall"

Check: Kernel parameter for "file-max"

Node Name Current Configured Required Status Comment

---------------- ------------ ------------ ------------ ------------ ------------

rac2 6815744 6815744 6815744 passed

rac1 6815744 6815744 6815744 passed

Result: Kernel parameter check passed for "file-max"

Check: Kernel parameter for "ip\_local\_port\_range"

Node Name Current Configured Required Status Comment

---------------- ------------ ------------ ------------ ------------ ------------

rac2 between 9000.0 & 65500.0 between 9000.0 & 65500.0 between 9000.0 & 65500.0 passed

rac1 between 9000.0 & 65500.0 between 9000.0 & 65500.0 between 9000.0 & 65500.0 passed

Result: Kernel parameter check passed for "ip\_local\_port\_range"

Check: Kernel parameter for "rmem\_default"

Node Name Current Configured Required Status Comment

---------------- ------------ ------------ ------------ ------------ ------------

rac2 262144 262144 262144 passed

rac1 262144 262144 262144 passed

Result: Kernel parameter check passed for "rmem\_default"

Check: Kernel parameter for "rmem\_max"

Node Name Current Configured Required Status Comment

---------------- ------------ ------------ ------------ ------------ ------------

rac2 4194304 4194304 4194304 passed

rac1 4194304 4194304 4194304 passed

Result: Kernel parameter check passed for "rmem\_max"

Check: Kernel parameter for "wmem\_default"

Node Name Current Configured Required Status Comment

---------------- ------------ ------------ ------------ ------------ ------------

rac2 262144 262144 262144 passed

rac1 262144 262144 262144 passed

Result: Kernel parameter check passed for "wmem\_default"

Check: Kernel parameter for "wmem\_max"

Node Name Current Configured Required Status Comment

---------------- ------------ ------------ ------------ ------------ ------------

rac2 1048586 1048586 1048576 passed

rac1 1048586 1048586 1048576 passed

Result: Kernel parameter check passed for "wmem\_max"

Check: Kernel parameter for "aio-max-nr"

Node Name Current Configured Required Status Comment

---------------- ------------ ------------ ------------ ------------ ------------

rac2 65536 unknown 1048576 failed Current value too low. Configured value too low.

rac1 65536 unknown 1048576 failed Current value too low. Configured value too low.

Result: Kernel parameter check failed for "aio-max-nr"

Check: Package existence for "make"

Node Name Available Required Status

------------ ------------------------ ------------------------ ----------

rac2 make-3.81-3.el5 make-3.81 passed

rac1 make-3.81-3.el5 make-3.81 passed

Result: Package existence check passed for "make"

Check: Package existence for "binutils"

Node Name Available Required Status

------------ ------------------------ ------------------------ ----------

rac2 binutils-2.17.50.0.6-14.el5 binutils-2.17.50.0.6 passed

rac1 binutils-2.17.50.0.6-14.el5 binutils-2.17.50.0.6 passed

Result: Package existence check passed for "binutils"

Check: Package existence for "gcc(x86\_64)"

Node Name Available Required Status

------------ ------------------------ ------------------------ ----------

rac2 gcc(x86\_64)-4.1.2-51.el5 gcc(x86\_64)-4.1.2 passed

rac1 gcc(x86\_64)-4.1.2-51.el5 gcc(x86\_64)-4.1.2 passed

Result: Package existence check passed for "gcc(x86\_64)"

Check: Package existence for "libaio(x86\_64)"

Node Name Available Required Status

------------ ------------------------ ------------------------ ----------

rac2 libaio(x86\_64)-0.3.106-5 libaio(x86\_64)-0.3.106 passed

rac1 libaio(x86\_64)-0.3.106-5 libaio(x86\_64)-0.3.106 passed

Result: Package existence check passed for "libaio(x86\_64)"

Check: Package existence for "glibc(x86\_64)"

Node Name Available Required Status

------------ ------------------------ ------------------------ ----------

rac2 glibc(x86\_64)-2.5-65 glibc(x86\_64)-2.5-24 passed

rac1 glibc(x86\_64)-2.5-65 glibc(x86\_64)-2.5-24 passed

Result: Package existence check passed for "glibc(x86\_64)"

Check: Package existence for "compat-libstdc++-33(x86\_64)"

Node Name Available Required Status

------------ ------------------------ ------------------------ ----------

rac2 compat-libstdc++-33(x86\_64)-3.2.3-61 compat-libstdc++-33(x86\_64)-3.2.3 passed

rac1 compat-libstdc++-33(x86\_64)-3.2.3-61 compat-libstdc++-33(x86\_64)-3.2.3 passed

Result: Package existence check passed for "compat-libstdc++-33(x86\_64)"

Check: Package existence for "elfutils-libelf(x86\_64)"

Node Name Available Required Status

------------ ------------------------ ------------------------ ----------

rac2 elfutils-libelf(x86\_64)-0.137-3.el5 elfutils-libelf(x86\_64)-0.125 passed

rac1 elfutils-libelf(x86\_64)-0.137-3.el5 elfutils-libelf(x86\_64)-0.125 passed

Result: Package existence check passed for "elfutils-libelf(x86\_64)"

Check: Package existence for "elfutils-libelf-devel"

Node Name Available Required Status

------------ ------------------------ ------------------------ ----------

rac2 elfutils-libelf-devel-0.137-3.el5 elfutils-libelf-devel-0.125 passed

rac1 elfutils-libelf-devel-0.137-3.el5 elfutils-libelf-devel-0.125 passed

Result: Package existence check passed for "elfutils-libelf-devel"

Check: Package existence for "glibc-common"

Node Name Available Required Status

------------ ------------------------ ------------------------ ----------

rac2 glibc-common-2.5-65 glibc-common-2.5 passed

rac1 glibc-common-2.5-65 glibc-common-2.5 passed

Result: Package existence check passed for "glibc-common"

Check: Package existence for "glibc-devel(x86\_64)"

Node Name Available Required Status

------------ ------------------------ ------------------------ ----------

rac2 glibc-devel(x86\_64)-2.5-65 glibc-devel(x86\_64)-2.5 passed

rac1 glibc-devel(x86\_64)-2.5-65 glibc-devel(x86\_64)-2.5 passed

Result: Package existence check passed for "glibc-devel(x86\_64)"

Check: Package existence for "glibc-headers"

Node Name Available Required Status

------------ ------------------------ ------------------------ ----------

rac2 glibc-headers-2.5-65 glibc-headers-2.5 passed

rac1 glibc-headers-2.5-65 glibc-headers-2.5 passed

Result: Package existence check passed for "glibc-headers"

Check: Package existence for "gcc-c++(x86\_64)"

Node Name Available Required Status

------------ ------------------------ ------------------------ ----------

rac2 gcc-c++(x86\_64)-4.1.2-51.el5 gcc-c++(x86\_64)-4.1.2 passed

rac1 gcc-c++(x86\_64)-4.1.2-51.el5 gcc-c++(x86\_64)-4.1.2 passed

Result: Package existence check passed for "gcc-c++(x86\_64)"

Check: Package existence for "libaio-devel(x86\_64)"

Node Name Available Required Status

------------ ------------------------ ------------------------ ----------

rac2 libaio-devel(x86\_64)-0.3.106-5 libaio-devel(x86\_64)-0.3.106 passed

rac1 libaio-devel(x86\_64)-0.3.106-5 libaio-devel(x86\_64)-0.3.106 passed

Result: Package existence check passed for "libaio-devel(x86\_64)"

Check: Package existence for "libgcc(x86\_64)"

Node Name Available Required Status

------------ ------------------------ ------------------------ ----------

rac2 libgcc(x86\_64)-4.1.2-51.el5 libgcc(x86\_64)-4.1.2 passed

rac1 libgcc(x86\_64)-4.1.2-51.el5 libgcc(x86\_64)-4.1.2 passed

Result: Package existence check passed for "libgcc(x86\_64)"

Check: Package existence for "libstdc++(x86\_64)"

Node Name Available Required Status

------------ ------------------------ ------------------------ ----------

rac2 libstdc++(x86\_64)-4.1.2-51.el5 libstdc++(x86\_64)-4.1.2 passed

rac1 libstdc++(x86\_64)-4.1.2-51.el5 libstdc++(x86\_64)-4.1.2 passed

Result: Package existence check passed for "libstdc++(x86\_64)"

Check: Package existence for "libstdc++-devel(x86\_64)"

Node Name Available Required Status

------------ ------------------------ ------------------------ ----------

rac2 libstdc++-devel(x86\_64)-4.1.2-51.el5 libstdc++-devel(x86\_64)-4.1.2 passed

rac1 libstdc++-devel(x86\_64)-4.1.2-51.el5 libstdc++-devel(x86\_64)-4.1.2 passed

Result: Package existence check passed for "libstdc++-devel(x86\_64)"

Check: Package existence for "sysstat"

Node Name Available Required Status

------------ ------------------------ ------------------------ ----------

rac2 sysstat-7.0.2-11.el5 sysstat-7.0.2 passed

rac1 sysstat-7.0.2-11.el5 sysstat-7.0.2 passed

Result: Package existence check passed for "sysstat"

Check: Package existence for "ksh"

Node Name Available Required Status

------------ ------------------------ ------------------------ ----------

rac2 ksh-20100202-1.el5\_6.6 ksh-20060214 passed

rac1 ksh-20100202-1.el5\_6.6 ksh-20060214 passed

Result: Package existence check passed for "ksh"

Checking for multiple users with UID value 0

Result: Check for multiple users with UID value 0 passed

Check: Current group ID

Result: Current group ID check passed

Starting check for consistency of primary group of root user

Node Name Status

------------------------------------ ------------------------

rac2 passed

rac1 passed

Check for consistency of root user's primary group passed

Starting Clock synchronization checks using Network Time Protocol(NTP)...

NTP Configuration file check started...

Network Time Protocol(NTP) configuration file not found on any of the nodes. Oracle Cluster Time Synchronization Service(CTSS) can be used instead of NTP for time synchronization on the cluster nodes

No NTP Daemons or Services were found to be running

Result: Clock synchronization check using Network Time Protocol(NTP) passed

Checking Core file name pattern consistency...

Core file name pattern consistency check passed.

Checking to make sure user "oracle" is not in "root" group

Node Name Status Comment

------------ ------------------------ ------------------------

rac2 passed does not exist

rac1 passed does not exist

Result: User "oracle" is not part of "root" group. Check passed

Check default user file creation mask

Node Name Available Required Comment

------------ ------------------------ ------------------------ ----------

rac2 0022 0022 passed

rac1 0022 0022 passed

Result: Default user file creation mask check passed

Checking consistency of file "/etc/resolv.conf" across nodes

Checking the file "/etc/resolv.conf" to make sure only one of domain and search entries is defined

File "/etc/resolv.conf" does not have both domain and search entries defined

Checking if domain entry in file "/etc/resolv.conf" is consistent across the nodes...

domain entry in file "/etc/resolv.conf" is consistent across nodes

Checking if search entry in file "/etc/resolv.conf" is consistent across the nodes...

search entry in file "/etc/resolv.conf" is consistent across nodes

Checking DNS response time for an unreachable node

Node Name Status

------------------------------------ ------------------------

rac2 failed

rac1 failed

PRVF-5636 : The DNS response time for an unreachable node exceeded "15000" ms on following nodes: rac2,rac1

File "/etc/resolv.conf" is not consistent across nodes

Check: Time zone consistency

Result: Time zone consistency check passed

Pre-check for cluster services setup was unsuccessful on all the nodes.

[oracle@rac1 grid]$

[oracle@rac1 grid]$ export DISPLAY=192.168.2.2:0.0

[oracle@rac1 grid]$ xclock

Warning: Missing charsets in String to FontSet conversion

[oracle@rac1 grid]$

[oracle@rac1 grid]$ ./runInstaller

Starting Oracle Universal Installer...

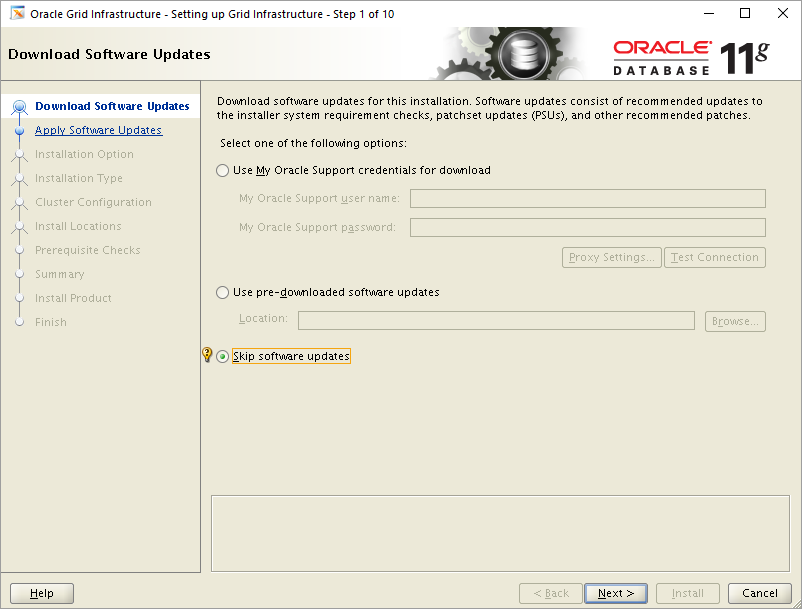
Checking Temp space: must be greater than 120 MB. Actual 4808 MB Passed

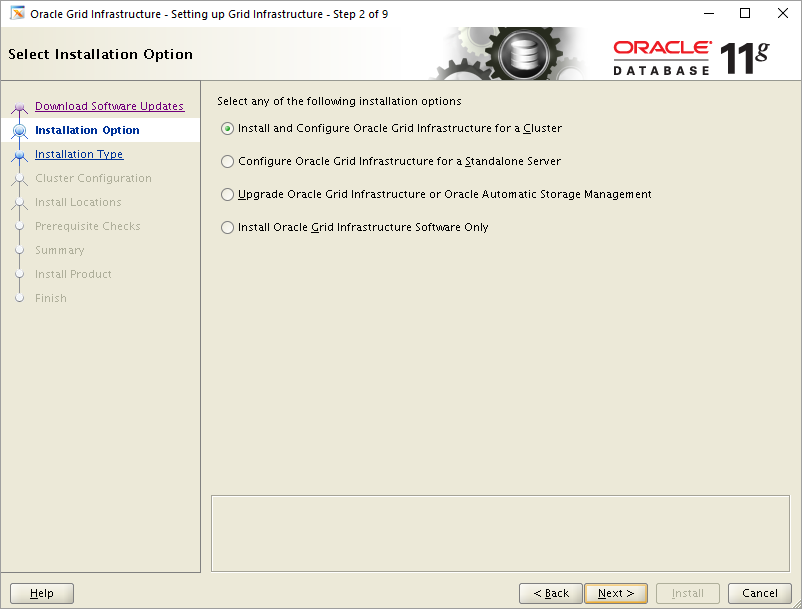
Checking swap space: must be greater than 150 MB. Actual 5671 MB Passed

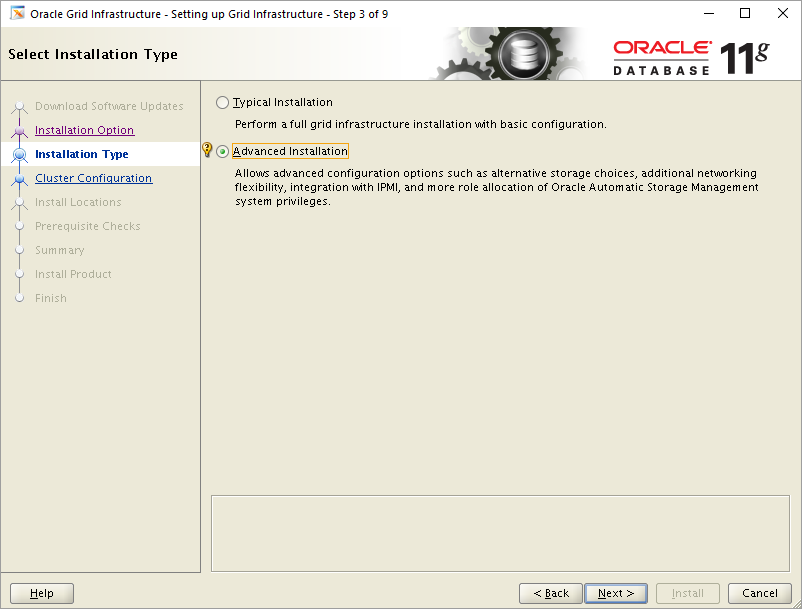
Checking monitor: must be configured to display at least 256 colors. Actual 16777216 Passed

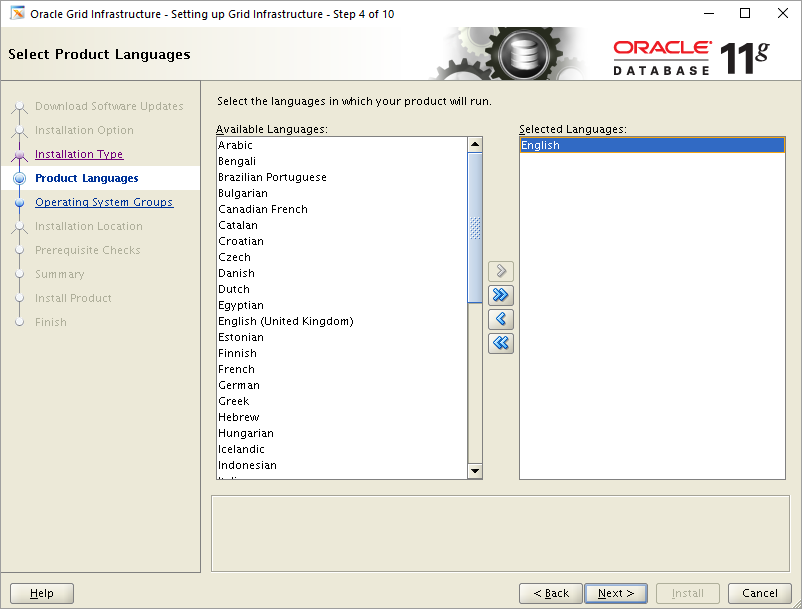
Preparing to launch Oracle Universal Installer from /tmp/OraInstall2015-12-16\_08-10-31PM. Please wait ...

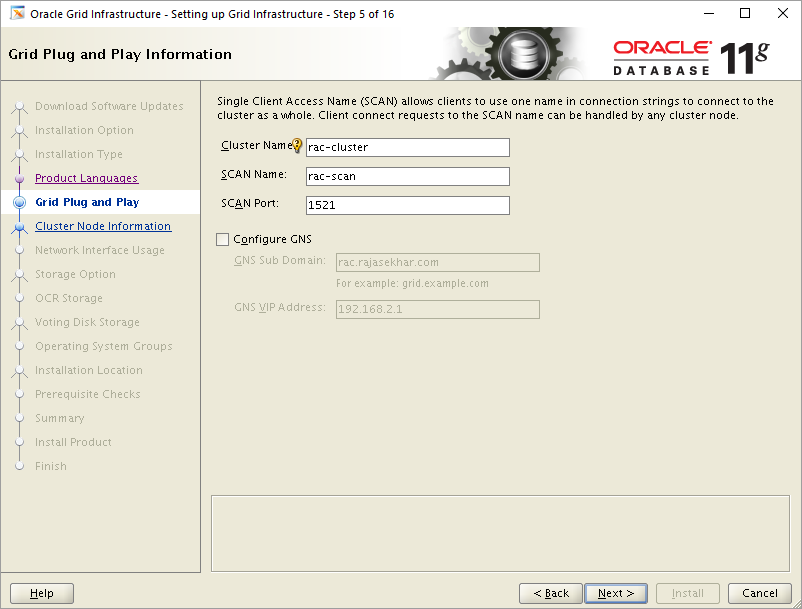


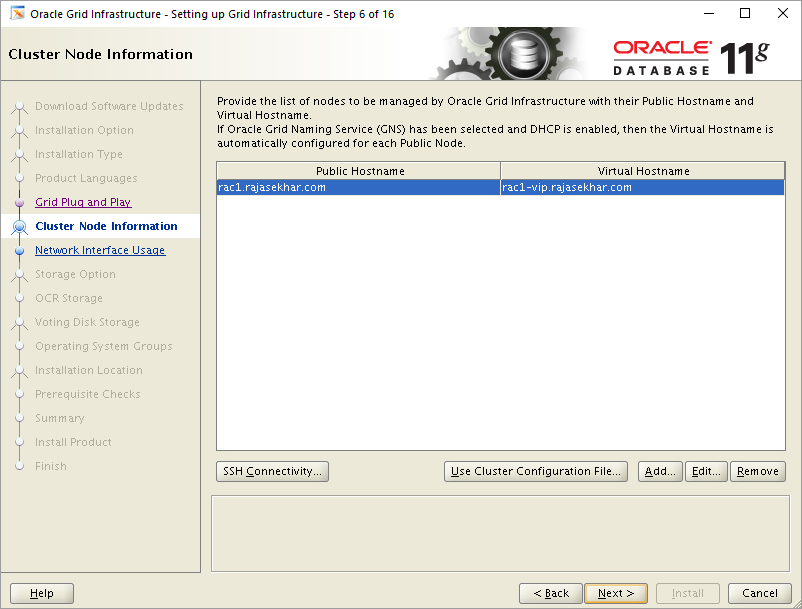


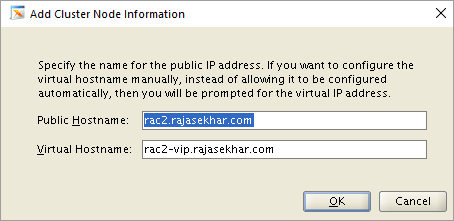


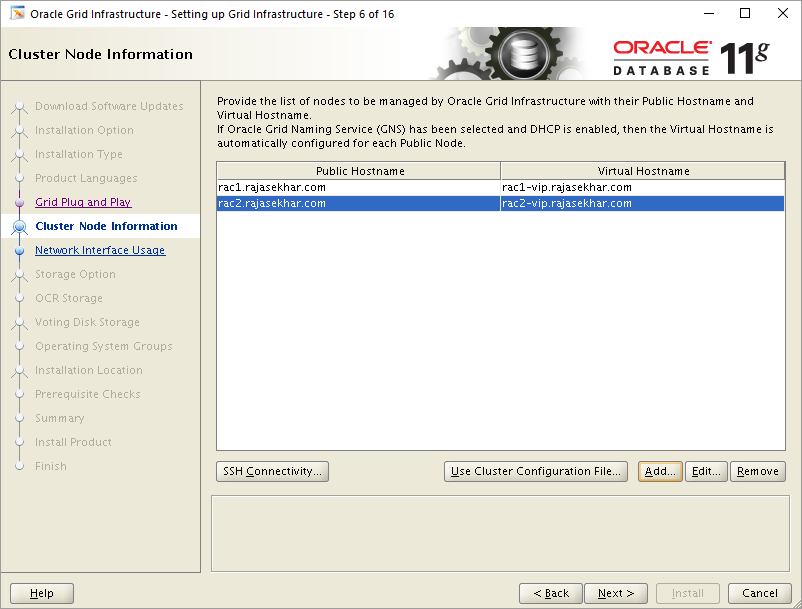


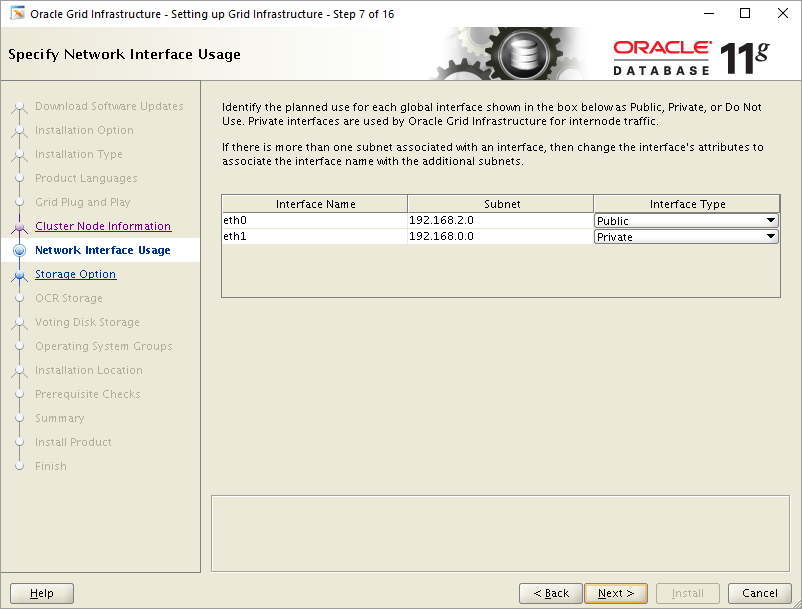


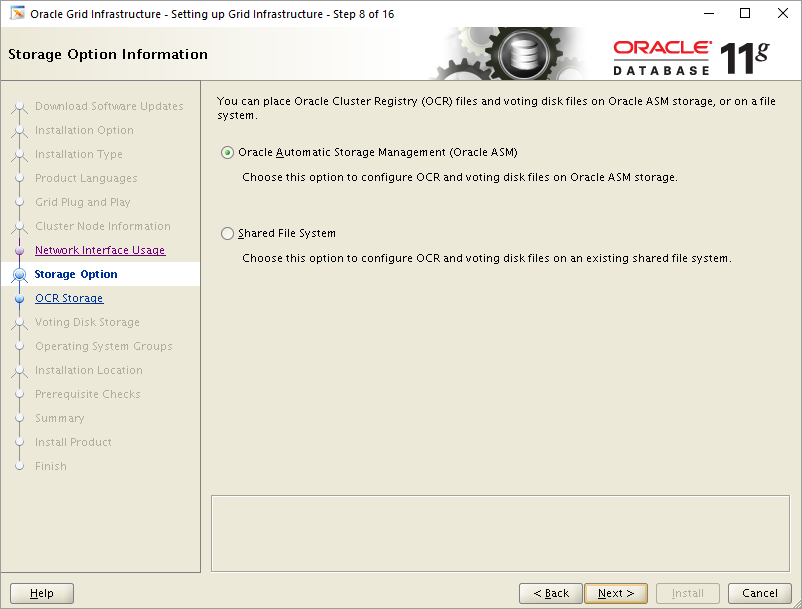


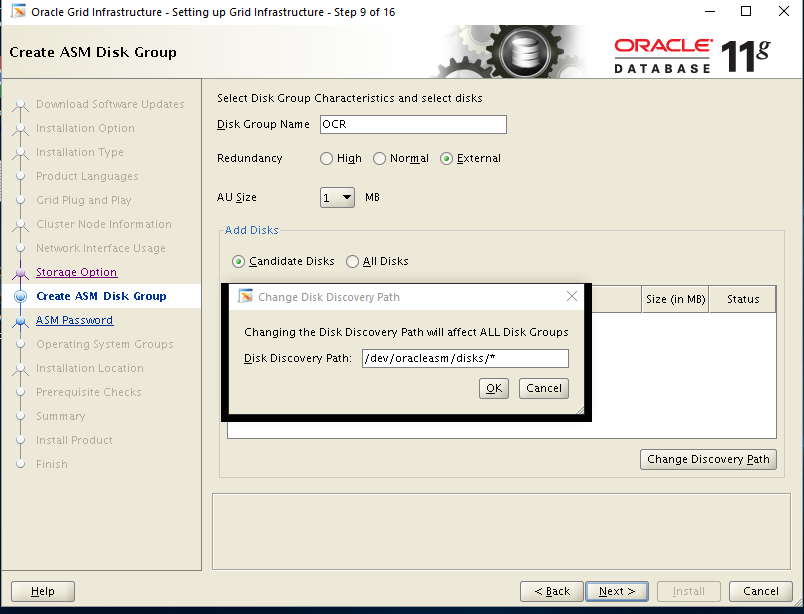


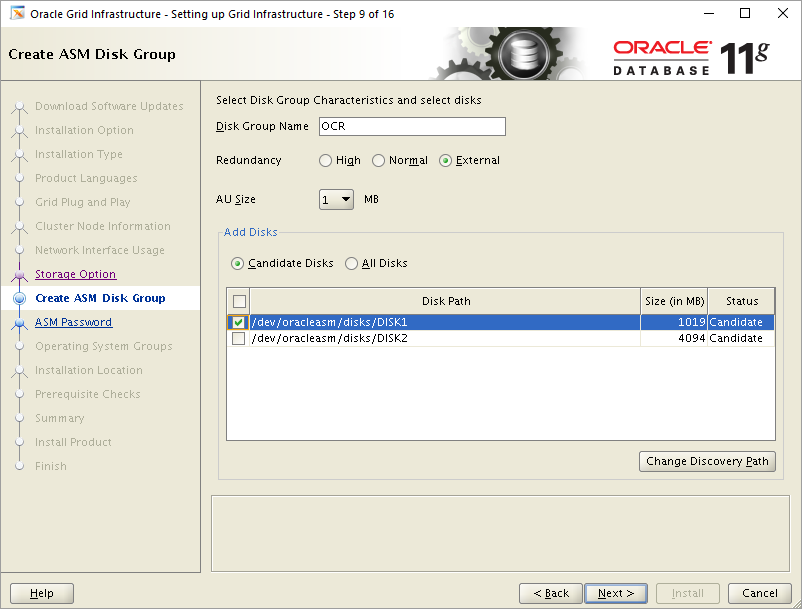


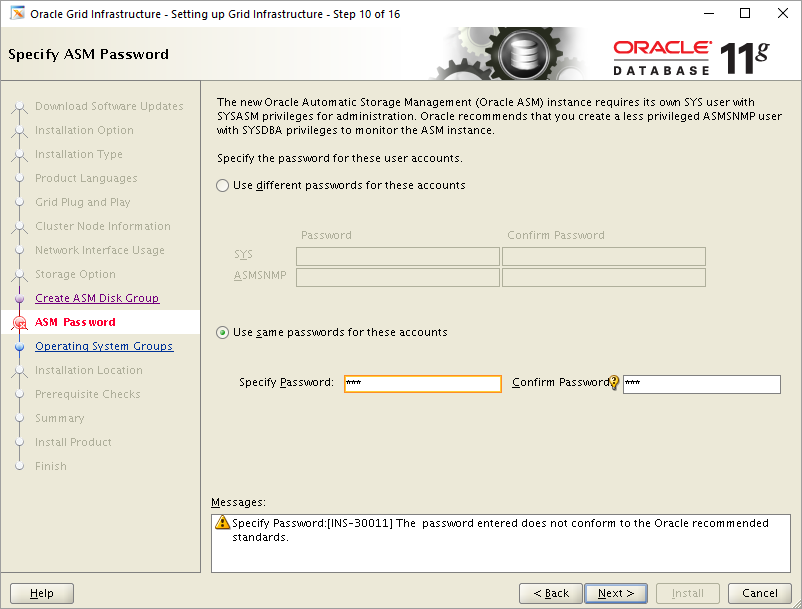


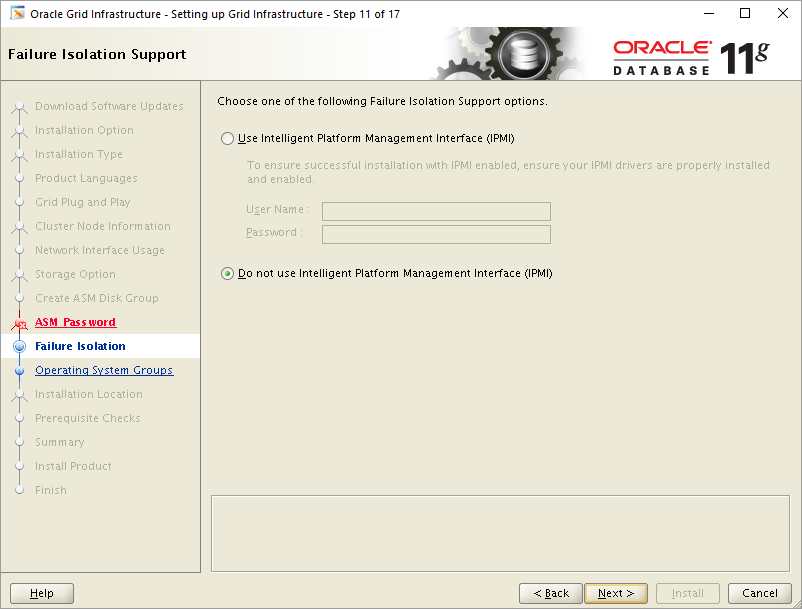


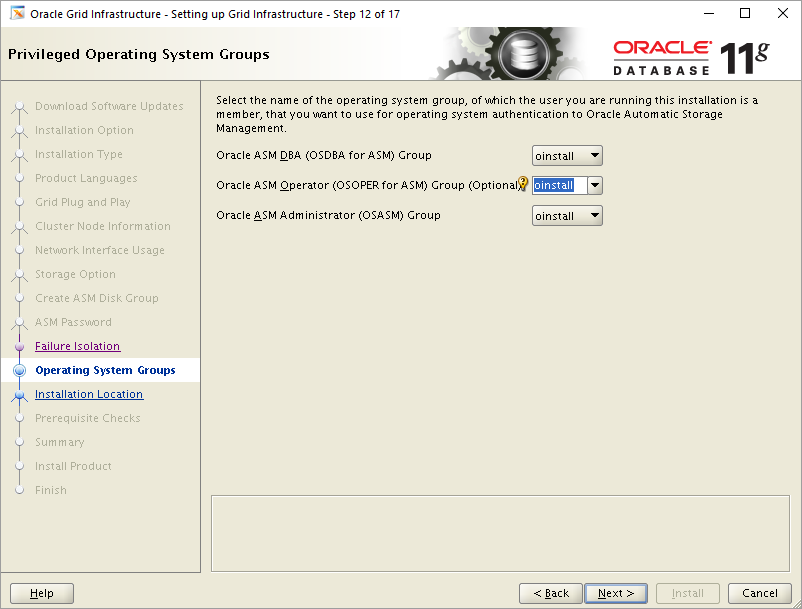


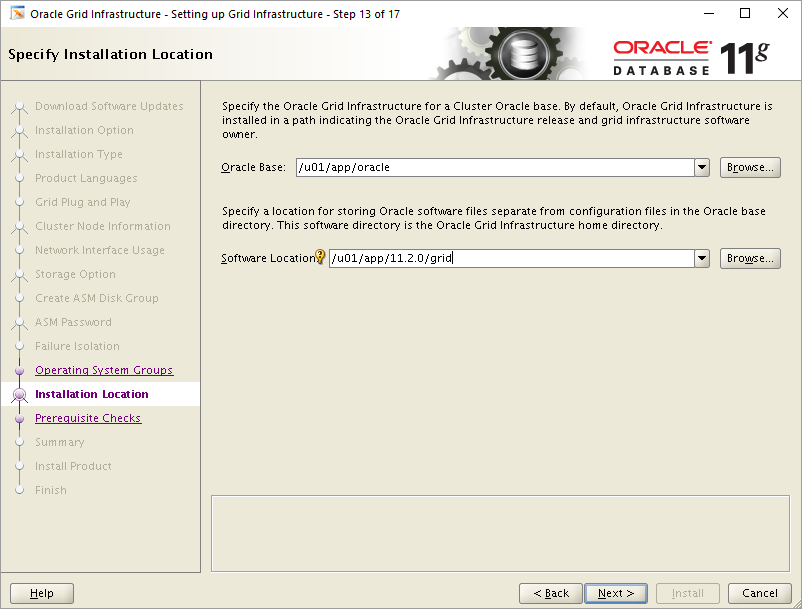


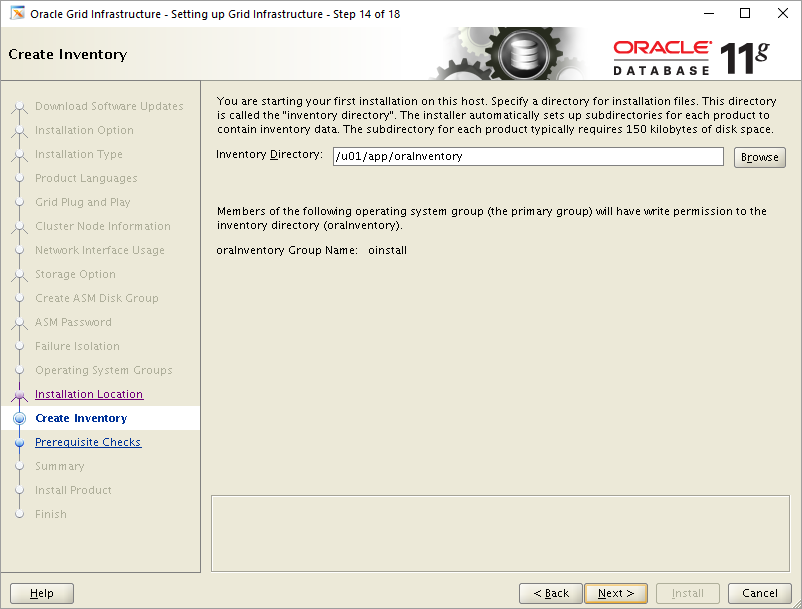


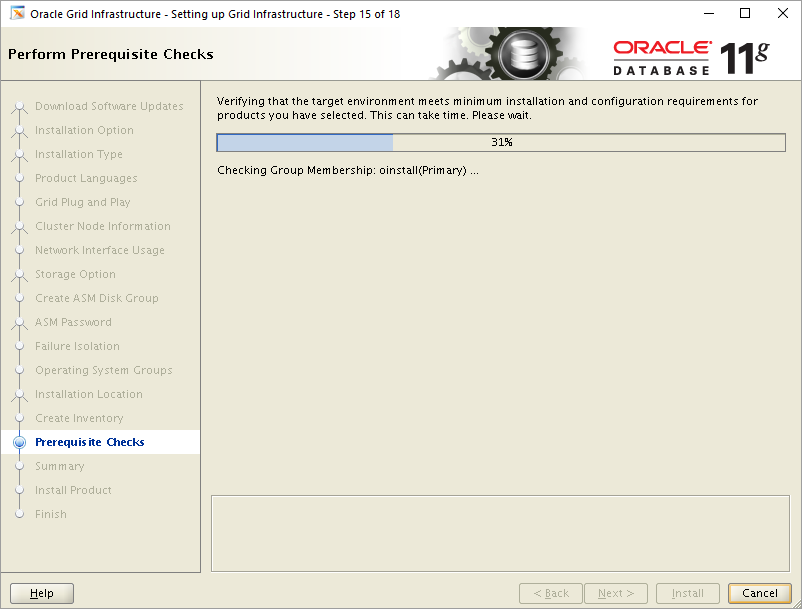


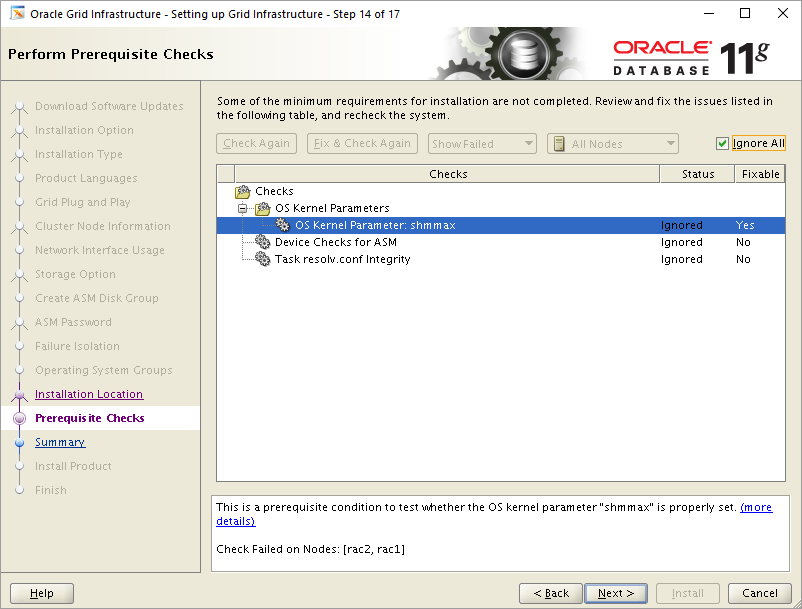


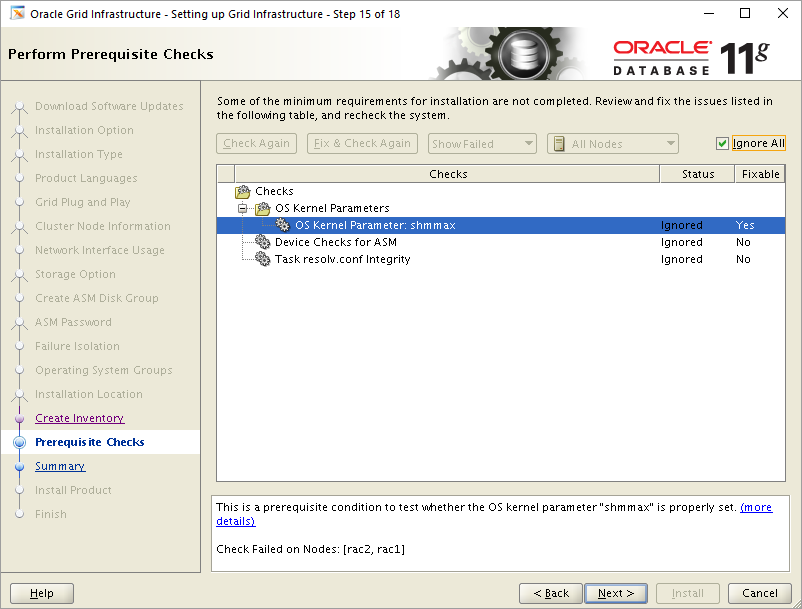


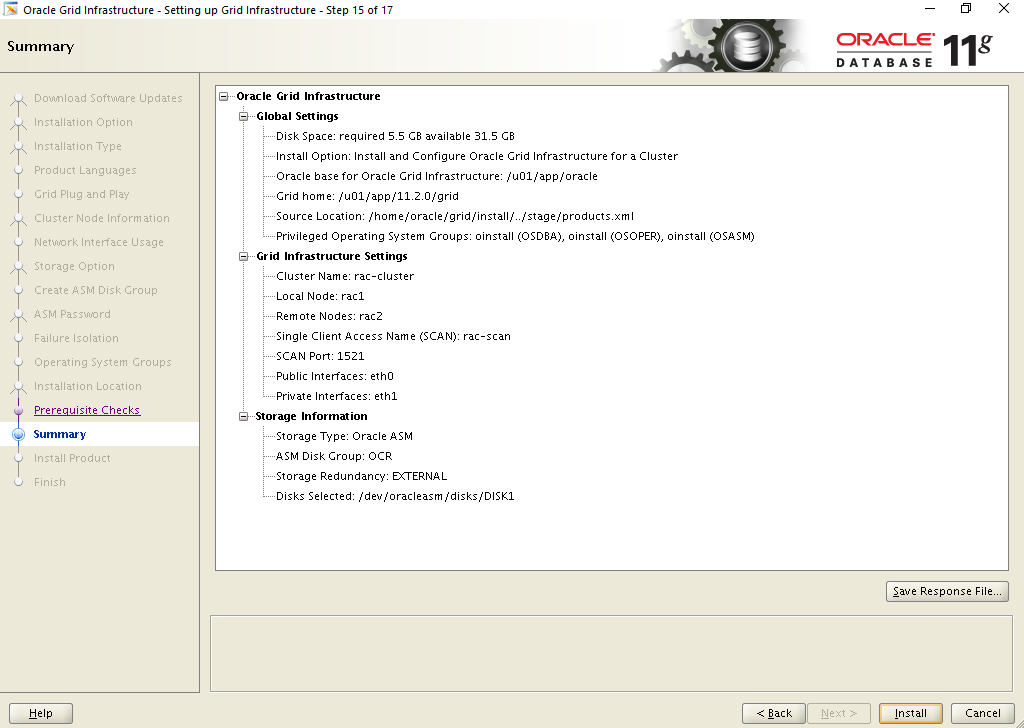


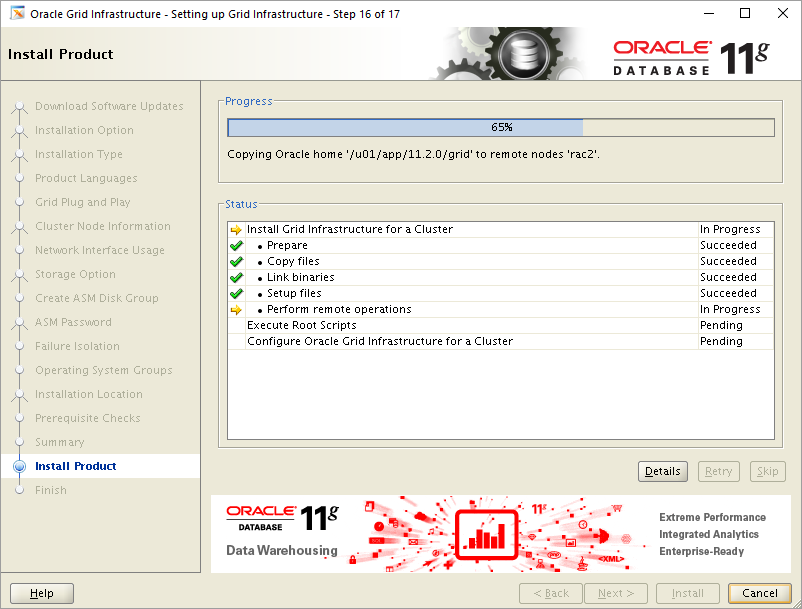


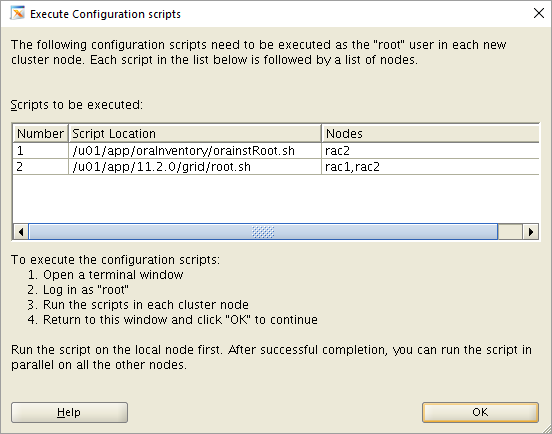












[root@rac1 ~]# /u01/app/oraInventory/orainstRoot.sh

Changing permissions of /u01/app/oraInventory.

Adding read,write permissions for group.

Removing read,write,execute permissions for world.

Changing groupname of /u01/app/oraInventory to oinstall.

The execution of the script is complete.

[root@rac1 ~]#

[root@rac1 ~]# /u01/app/11.2.0/grid/root.sh

Performing root user operation for Oracle 11g

The following environment variables are set as:

ORACLE\_OWNER= oracle

ORACLE\_HOME= /u01/app/11.2.0/grid

Enter the full pathname of the local bin directory: [/usr/local/bin]:

Copying dbhome to /usr/local/bin ...

Copying oraenv to /usr/local/bin ...

Copying coraenv to /usr/local/bin ...

Creating /etc/oratab file...

Entries will be added to the /etc/oratab file as needed by

Database Configuration Assistant when a database is created

Finished running generic part of root script.

Now product-specific root actions will be performed.

Using configuration parameter file: /u01/app/11.2.0/grid/crs/install/crsconfig\_params

Creating trace directory

User ignored Prerequisites during installation

OLR initialization - successful

root wallet

root wallet cert

root cert export

peer wallet

profile reader wallet

pa wallet

peer wallet keys

pa wallet keys

peer cert request

pa cert request

peer cert

pa cert

peer root cert TP

profile reader root cert TP

pa root cert TP

peer pa cert TP

pa peer cert TP

profile reader pa cert TP

profile reader peer cert TP

peer user cert

pa user cert

Adding Clusterware entries to inittab

CRS-2672: Attempting to start 'ora.mdnsd' on 'rac1'

CRS-2676: Start of 'ora.mdnsd' on 'rac1' succeeded

CRS-2672: Attempting to start 'ora.gpnpd' on 'rac1'

CRS-2676: Start of 'ora.gpnpd' on 'rac1' succeeded

CRS-2672: Attempting to start 'ora.cssdmonitor' on 'rac1'

CRS-2672: Attempting to start 'ora.gipcd' on 'rac1'

CRS-2676: Start of 'ora.cssdmonitor' on 'rac1' succeeded

CRS-2676: Start of 'ora.gipcd' on 'rac1' succeeded

CRS-2672: Attempting to start 'ora.cssd' on 'rac1'

CRS-2672: Attempting to start 'ora.diskmon' on 'rac1'

CRS-2676: Start of 'ora.diskmon' on 'rac1' succeeded

CRS-2676: Start of 'ora.cssd' on 'rac1' succeeded

ASM created and started successfully.

Disk Group OCR created successfully.

clscfg: -install mode specified

Successfully accumulated necessary OCR keys.

Creating OCR keys for user 'root', privgrp 'root'..

Operation successful.

CRS-4256: Updating the profile

Successful addition of voting disk 62ac1979716d4f75bf2ce861b58e97e2.

Successfully replaced voting disk group with +OCR.

CRS-4256: Updating the profile

CRS-4266: Voting file(s) successfully replaced

## STATE File Universal Id File Name Disk group

-- ----- ----------------- --------- ---------

1. ONLINE 62ac1979716d4f75bf2ce861b58e97e2 (/dev/oracleasm/disks/DISK1) [OCR]

Located 1 voting disk(s).

CRS-2672: Attempting to start 'ora.asm' on 'rac1'

CRS-2676: Start of 'ora.asm' on 'rac1' succeeded

CRS-2672: Attempting to start 'ora.OCR.dg' on 'rac1'

CRS-2676: Start of 'ora.OCR.dg' on 'rac1' succeeded

Configure Oracle Grid Infrastructure for a Cluster ... succeeded

[root@rac1 ~]#

[root@rac2 ~]# /u01/app/oraInventory/orainstRoot.sh

Changing permissions of /u01/app/oraInventory.

Adding read,write permissions for group.

Removing read,write,execute permissions for world.

Changing groupname of /u01/app/oraInventory to oinstall.

The execution of the script is complete.

[root@rac2 ~]#

[root@rac2 ~]# /u01/app/11.2.0/grid/root.sh

Performing root user operation for Oracle 11g

The following environment variables are set as:

ORACLE\_OWNER= oracle

ORACLE\_HOME= /u01/app/11.2.0/grid

Enter the full pathname of the local bin directory: [/usr/local/bin]:

Copying dbhome to /usr/local/bin ...

Copying oraenv to /usr/local/bin ...

Copying coraenv to /usr/local/bin ...

Creating /etc/oratab file...

Entries will be added to the /etc/oratab file as needed by

Database Configuration Assistant when a database is created

Finished running generic part of root script.

Now product-specific root actions will be performed.

Using configuration parameter file: /u01/app/11.2.0/grid/crs/install/crsconfig\_params

Creating trace directory

User ignored Prerequisites during installation

OLR initialization - successful

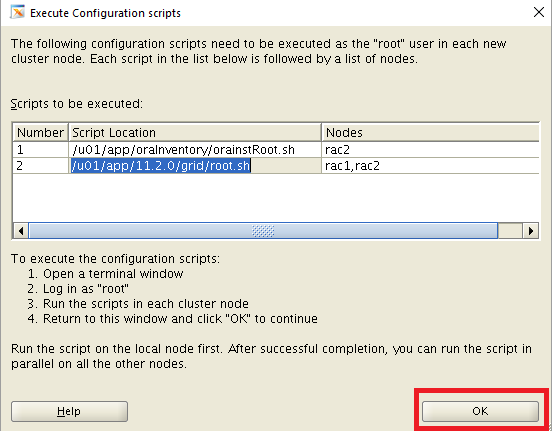
Adding Clusterware entries to inittab

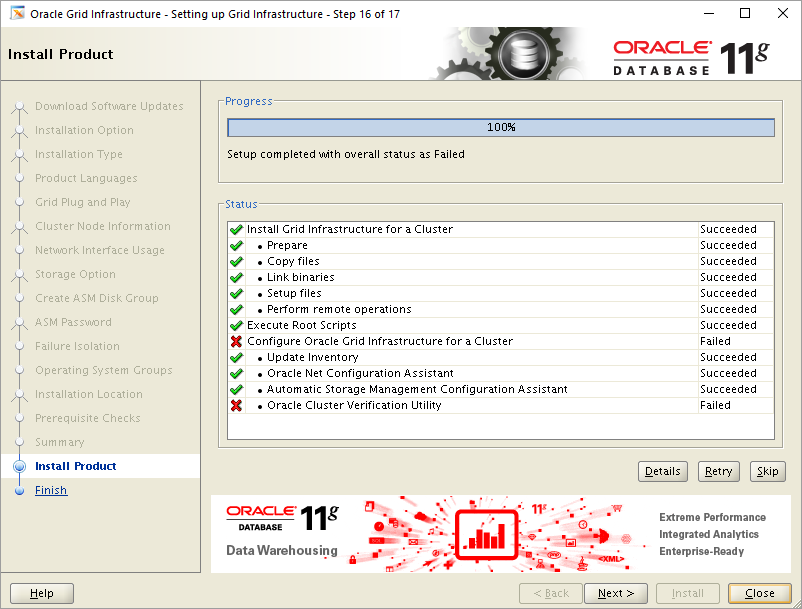
CRS-4402: The CSS daemon was started in exclusive mode but found an active CSS daemon on node rac1, number 1, and is terminating

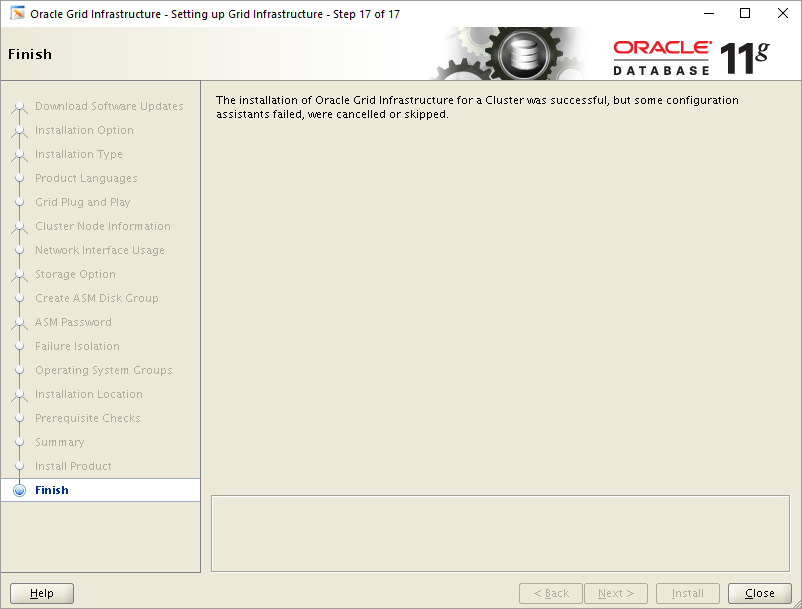
An active cluster was found during exclusive startup, restarting to join the cluster

Configure Oracle Grid Infrastructure for a Cluster ... succeeded

[root@rac2 ~]#







[root@rac1 ~]# . oraenv

ORACLE\_SID = [root] ? +ASM1

The Oracle base has been set to /u01/app/oracle

[root@rac1 ~]# crsctl check cluster -all

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

rac1:

CRS-4537: Cluster Ready Services is online

CRS-4529: Cluster Synchronization Services is online

CRS-4533: Event Manager is online

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

rac2:

CRS-4537: Cluster Ready Services is online

CRS-4529: Cluster Synchronization Services is online

CRS-4533: Event Manager is online

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

[root@rac1 ~]#

[root@rac1 ~]# crsctl stat res -t

--------------------------------------------------------------------------------

NAME TARGET STATE SERVER STATE\_DETAILS

--------------------------------------------------------------------------------

Local Resources

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ora.LISTENER.lsnr

ONLINE ONLINE rac1

ONLINE ONLINE rac2

ora.OCR.dg

ONLINE ONLINE rac1

ONLINE ONLINE rac2

ora.asm

ONLINE ONLINE rac1 Started

ONLINE ONLINE rac2 Started

ora.gsd

OFFLINE OFFLINE rac1

OFFLINE OFFLINE rac2

ora.net1.network

ONLINE ONLINE rac1

ONLINE ONLINE rac2

ora.ons

ONLINE ONLINE rac1

ONLINE ONLINE rac2

--------------------------------------------------------------------------------

Cluster Resources

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ora.LISTENER\_SCAN1.lsnr

1 ONLINE ONLINE rac1

ora.cvu

1 ONLINE ONLINE rac1

ora.oc4j

1 ONLINE ONLINE rac1

ora.rac1.vip

1 ONLINE ONLINE rac1

ora.rac2.vip

1 ONLINE ONLINE rac2

ora.scan1.vip

1 ONLINE ONLINE rac1

[root@rac1 ~]#