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Install 11g (Rel 1) clusterware

Download clusterware and database from the below site

http://www.oracle.com/technology/software/products/database/oracle11g/11060_linuxsoft.html

Oracle Database 11g Release 1 (11.1.0.6.0) for Linux x86

☐ [linux_11gR1_database_1013.zip](#) (1,844,527,800 bytes) (cksum - 1044354138)

Oracle Clusterware 11g Release 1 (11.1.0.6.0) for Linux x86

☐ [linux_x86_11gR1_clusterware.zip](#) (244,660,141 bytes) (cksum - 820583335)

```
# Cleanup script if already RAC is installed
```

```
rm -rf /etc/init.d/init.*
```

```
rm -rf /d01/oracle
rm -rf /d01/oracle/oraInventory
cd /etc
rm -rf ora*
```

```
# only on one node
rm -rf /ocfs/clusterware/*
```

```
/etc/init.d/oracleasm deletedisk VOL1
/etc/init.d/oracleasm deletedisk VOL2
/etc/init.d/oracleasm deletedisk VOL3
```

```
/etc/init.d/oracleasm createdisk VOL1 /dev/sdc1
/etc/init.d/oracleasm createdisk VOL2 /dev/sdd1
/etc/init.d/oracleasm createdisk VOL3 /dev/sde1
```

```
-- Reboot the servers
```

After downloading, as the oracle user on rac1, execute

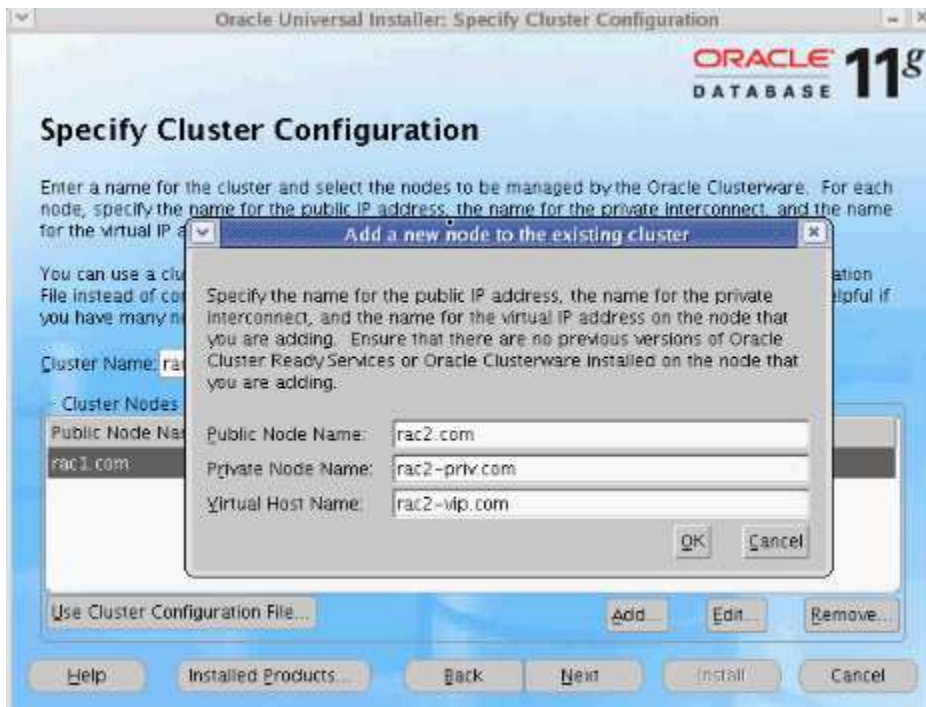
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```
[root@rac1 /]# xhost +
access control disabled, clients can connect from any host
[root@rac1 /]# su - oracle
rac1-> cd /software/clusterware/
clufy/      install/      rpm/          stage/        welcome.html
doc/        response/    runInstaller  upgrade/
rac1-> cd /software/clusterware/runInstaller
-bash: cd: /software/clusterware/runInstaller: Not a directory
rac1-> cd /software/clusterware/
rac1-> ./runInstaller
```

Change the CRS path -
/d01/oracle/product/11.1.0/crs_1



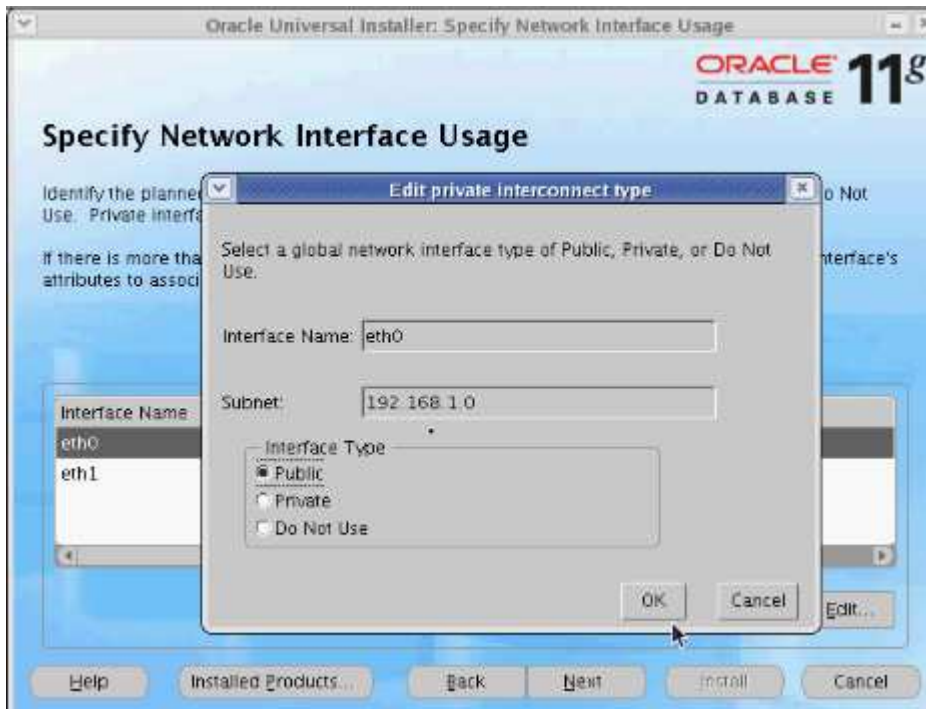
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_ Cluster Nodes

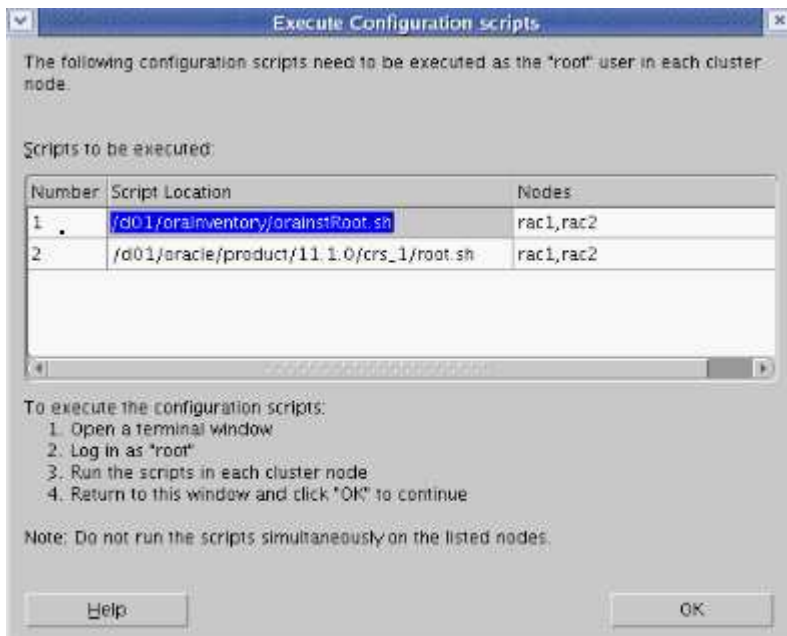
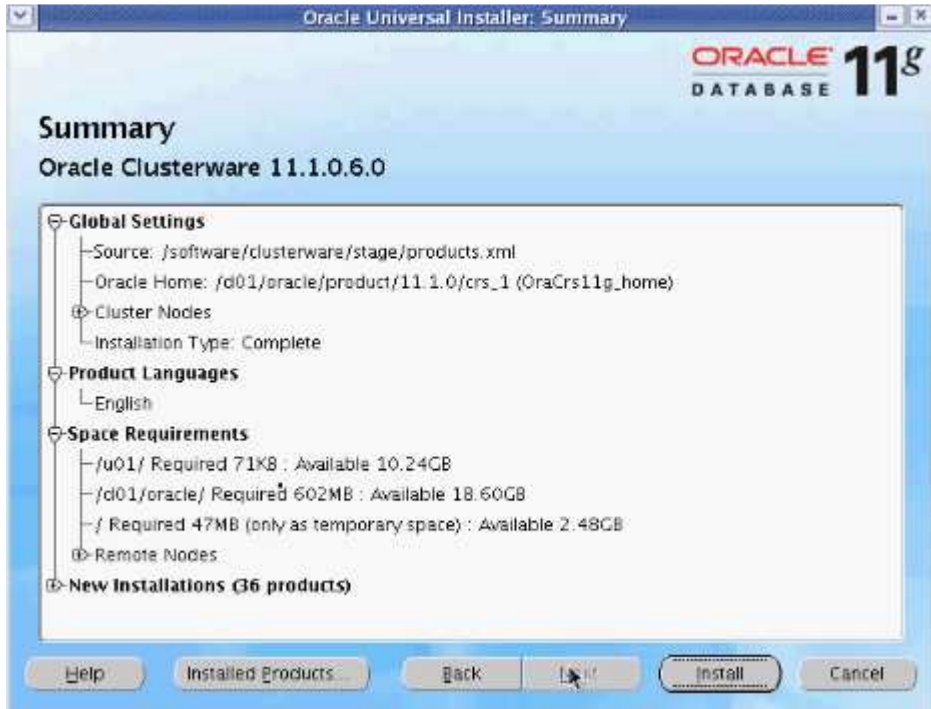
Public Node Name	Private Node Name	Virtual Host Name
rac1.com	rac1-priv.com	rac1-vip.com
rac2.com	rac2-priv.com	rac2-vip.com



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On RAC1 then on RAC2

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```
[root@rac1 ~]# /d01/oraInventory/orainstRoot.sh
Changing permissions of /d01/oraInventory to 770.
Changing groupname of /d01/oraInventory to oinstall.
The execution of the script is complete
[root@rac1 ~]# ssh rac2
root@rac2's password:
Last login: Wed Apr 21 11:21:20 2010 from rac1.com
[root@rac2 ~]# /d01/oraInventory/orainstRoot.sh
Creating the Oracle inventory pointer file (/etc/orainst.loc)
Changing permissions of /d01/oraInventory to 770.
Changing groupname of /d01/oraInventory to oinstall.
The execution of the script is complete
[root@rac2 ~]# █
```

```
[root@rac1 ~]# /d01/oracle/product/11.1.0/crs_1/root.sh
WARNING: directory '/d01/oracle/product/11.1.0' is not owned by root
WARNING: directory '/d01/oracle/product' is not owned by root
WARNING: directory '/d01/oracle' is not owned by root
Checking to see if Oracle CRS stack is already configured
/etc/oracle does not exist. Creating it now.
.
Setting the permissions on OCR backup directory
Setting up Network socket directories
Oracle Cluster Registry configuration upgraded successfully
The directory '/d01/oracle/product/11.1.0' is not owned by root. Changing owner
to root
The directory '/d01/oracle/product' is not owned by root. Changing owner to root
The directory '/d01/oracle' is not owned by root. Changing owner to root
Successfully accumulated necessary OCR keys.
Using ports: CSS=49895 CRS=49896 EVNC=49898 and EVMR=49897.
node <nodenumber>: <nodename> <private interconnect name> <hostname>
node 1: rac1 rac1-priv rac1
node 2: rac2 rac2-priv rac2
Creating OCR keys for user 'root', privgrp 'root'..
Operation successful.
Now formatting voting device: /ocfs/clusterware/votingdisk
Format of 1 voting devices complete.
█
```

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```
Oracle Cluster Registry configuration upgraded successfully
The directory '/d01/oracle/product/11.1.0' is not owned by root. Changing owner
to root
The directory '/d01/oracle/product' is not owned by root. Changing owner to root
The directory '/d01/oracle' is not owned by root. Changing owner to root
Successfully accumulated necessary OCR keys.
Using ports: CSS=49895 CRS=49896 EVMC=49898 and EVMR=49897.
node <nodenumber>: <nodename> <private interconnect name> <hostname>
node 1: rac1 rac1-priv rac1
node 2: rac2 rac2-priv rac2
Creating OCR keys for user 'root', privgrp 'root'..
Operation successful.
Now formatting voting device: /ocfs/clusterware/votingdisk
Format of 1 voting devices complete.
Startup will be queued to init within 30 seconds.
Adding daemons to inittab
Expecting the CRS daemons to be up within 600 seconds.
Cluster Synchronization Services is active on these nodes.
    rac1
Cluster Synchronization Services is inactive on these nodes.
    rac2
Local node checking complete. Run root.sh on remaining nodes to start CRS daemon
```

On RAC2 run the root.sh

```
Expecting the CRS daemons to be up within 600 seconds.
Cluster Synchronization Services is active on these nodes.
    rac1
    rac2
Cluster Synchronization Services is active on all the nodes.
Waiting for the Oracle CRSD and EVMD to start
Oracle CRS stack installed and running under init(1M)
Running vipca(silent) for configuring nodeapps

Creating VIP application resource on (2) nodes...
Creating GSD application resource on (2) nodes...
Creating ONS application resource on (2) nodes...
Starting VIP application resource on (2) nodes...
Starting GSD application resource on (2) nodes...
Starting ONS application resource on (2) nodes...

Done.
```

```
[root@rac1 ~]# su - oracle
rac1-> crs_stat -t
Name                Type             Target          State          Host
-----
ora.rac1.gsd        application      ONLINE         ONLINE        rac1
ora.rac1.ons        application      ONLINE         ONLINE        rac1
ora.rac1.vip        application      ONLINE         ONLINE        rac1
ora.rac2.gsd        application      ONLINE         ONLINE        rac2
ora.rac2.ons        application      ONLINE         ONLINE        rac2
ora.rac2.vip        application      ONLINE         ONLINE        rac2
rac1->
```


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