

Grid Infrastructure Installation:

Now logout root user and login as grid user on both the nodes:

Copy linux.x64_11gR2_grid.zip on paw-racnode1 in directory /u02/software:

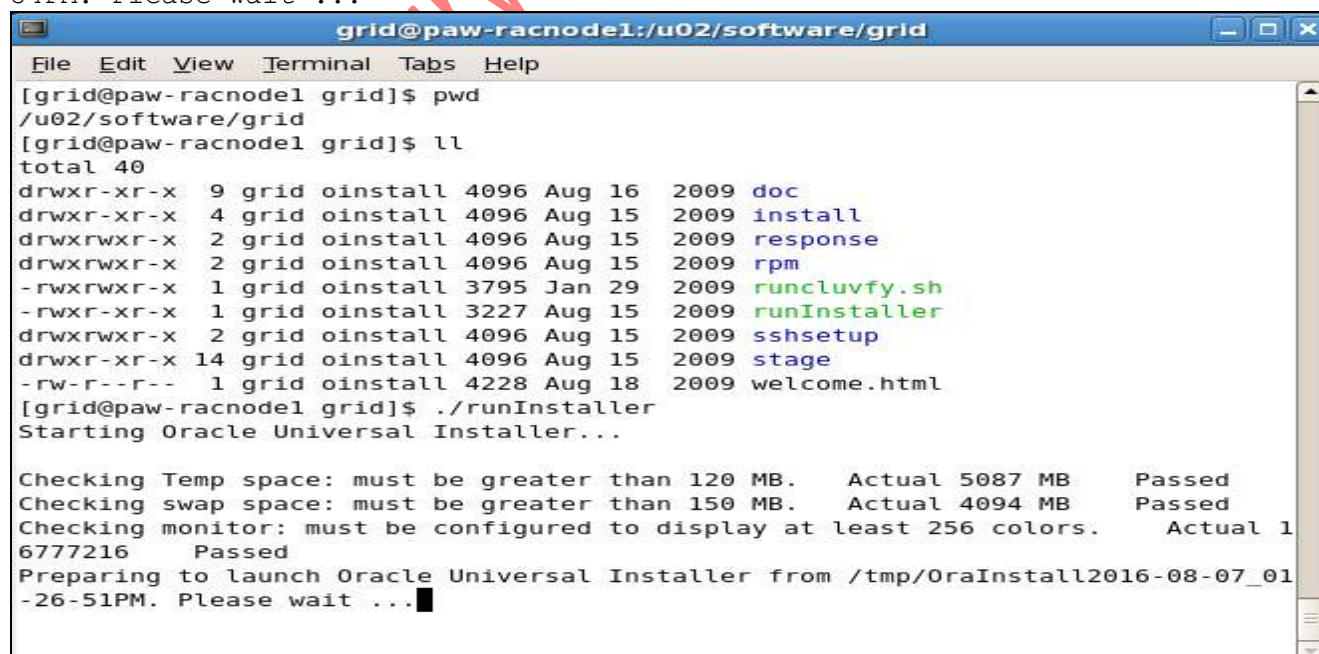
```
[grid@paw-racnode1 ~]$ cd /u02
[grid@paw-racnode1 u02]$ cd software/
[grid@paw-racnode1 software]$ ll
total 1029236
-rwxrw-rw- 1 grid oinstall 1052897657 Jan 24 2012 linux.x64_11gR2_grid.zip
```

```
[grid@paw-racnode1 software]$ unzip linux.x64_11gR2_grid.zip
[grid@paw-racnode1 software]$ cd grid/
[grid@paw-racnode1 grid]$ ll
total 40
drwxr-xr-x  9 grid oinstall 4096 Aug 16 2009 doc
drwxr-xr-x  4 grid oinstall 4096 Aug 15 2009 install
drwxrwxr-x  2 grid oinstall 4096 Aug 15 2009 response
drwxrwxr-x  2 grid oinstall 4096 Aug 15 2009 rpm
-rwxrwxr-x  1 grid oinstall 3795 Jan 29 2009 runcluvfy.sh
-rwxr-xr-x  1 grid oinstall 3227 Aug 15 2009 runInstaller
drwxrwxr-x  2 grid oinstall 4096 Aug 15 2009 sshsetup
drwxr-xr-x 14 grid oinstall 4096 Aug 15 2009 stage
-rw-r--r--  1 grid oinstall 4228 Aug 18 2009 welcome.html
```

Establish Password less connectivity among all cluster nodes (SSH Connectivity) :

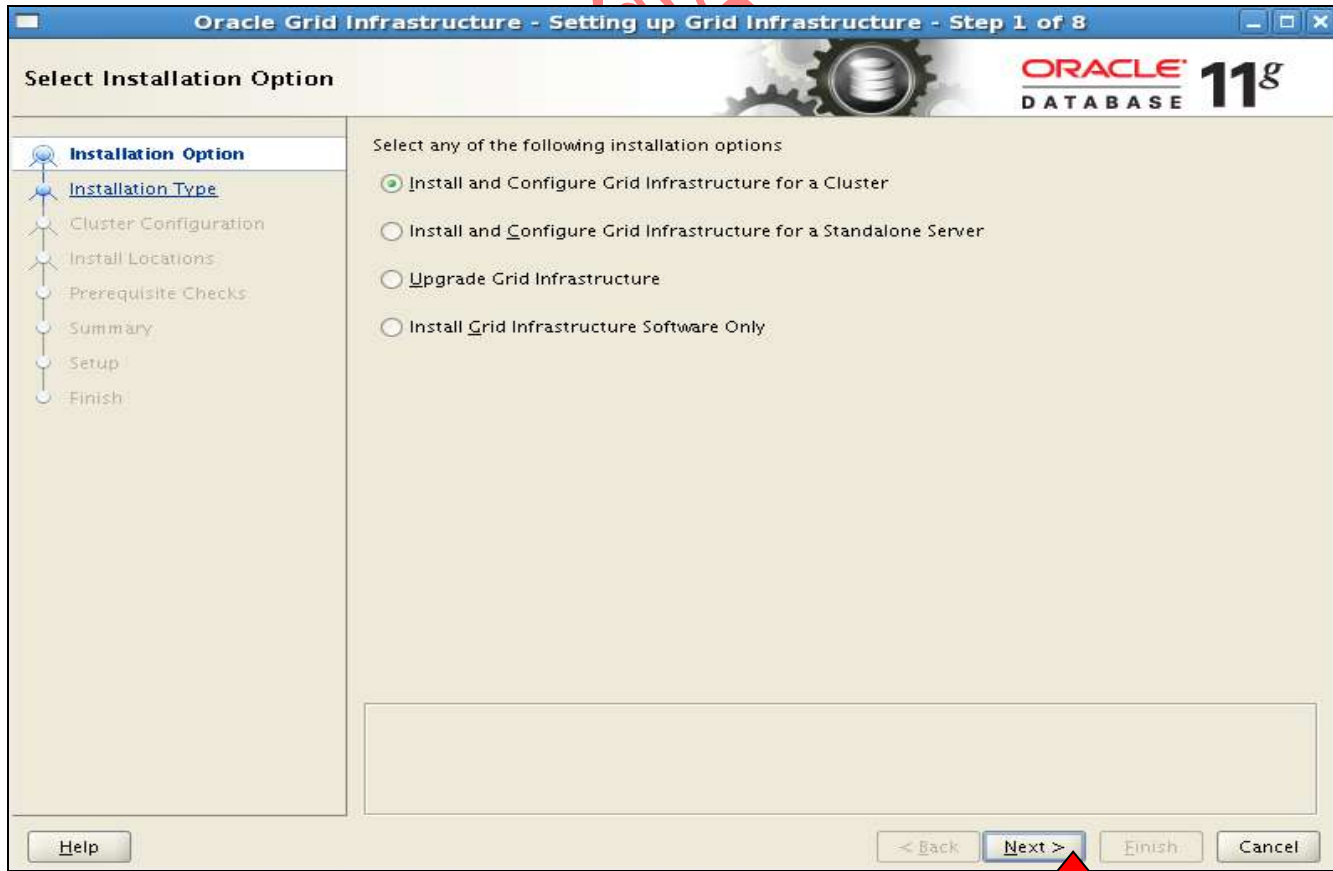
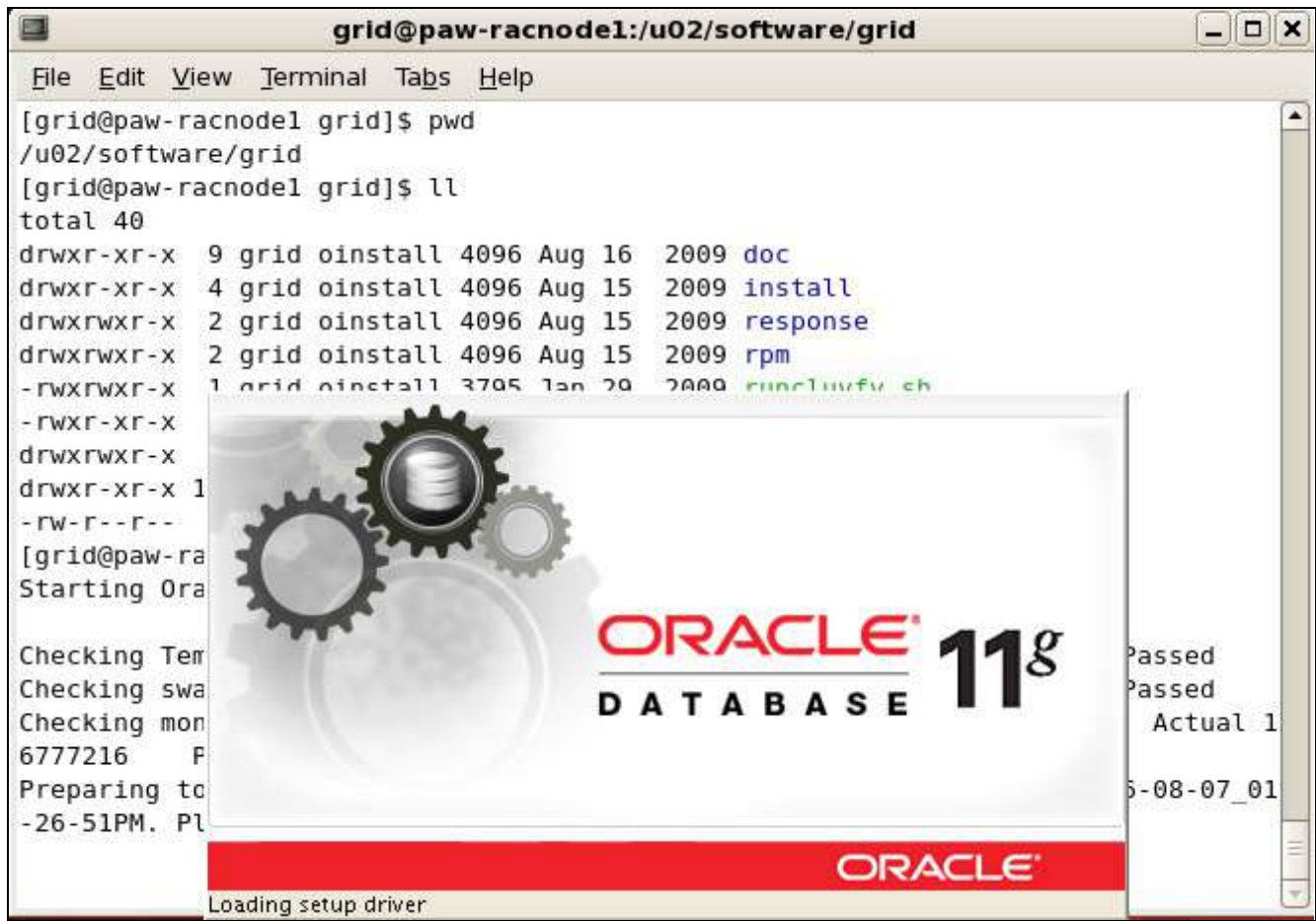
```
[grid@paw-racnode1 grid]$ ./runInstaller
Starting Oracle Universal Installer...
```

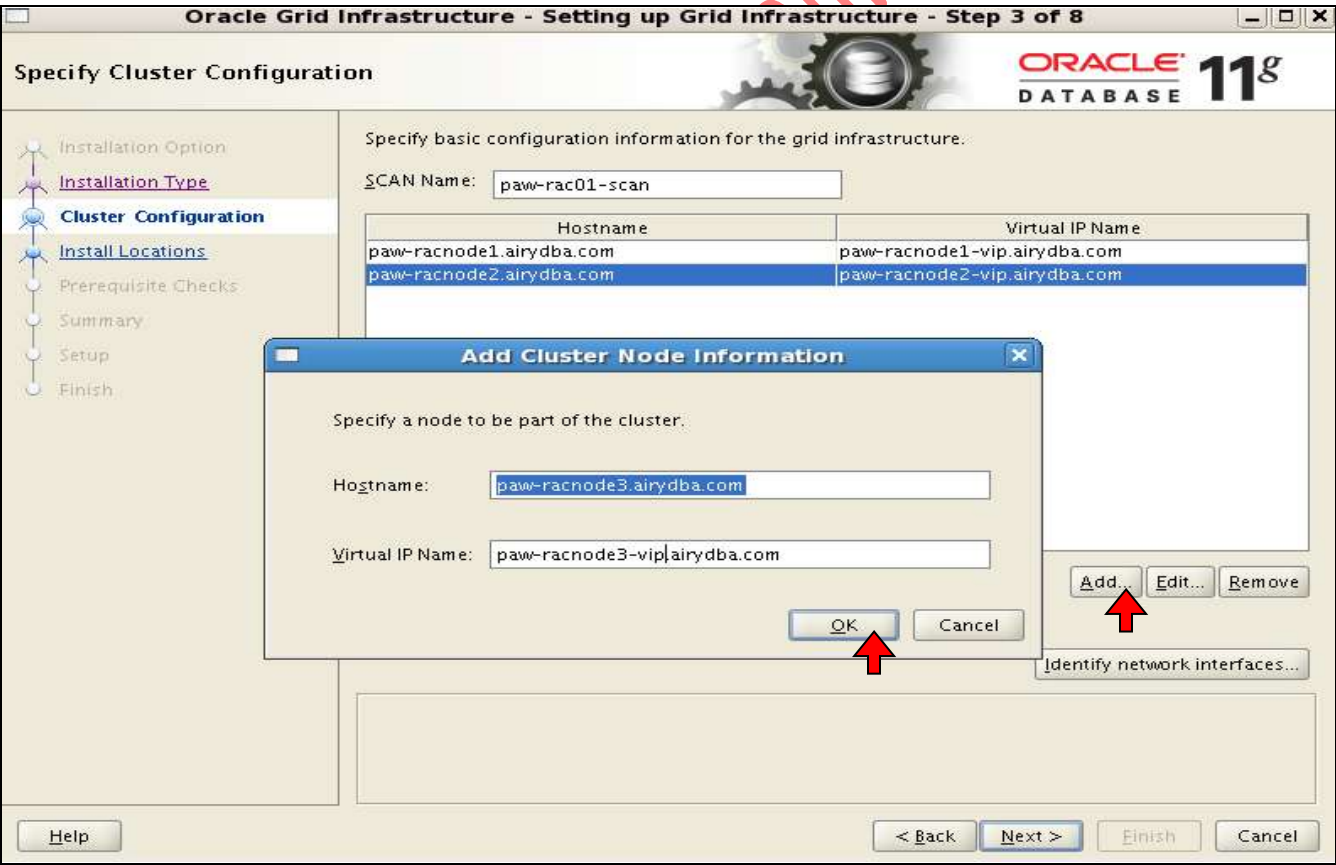
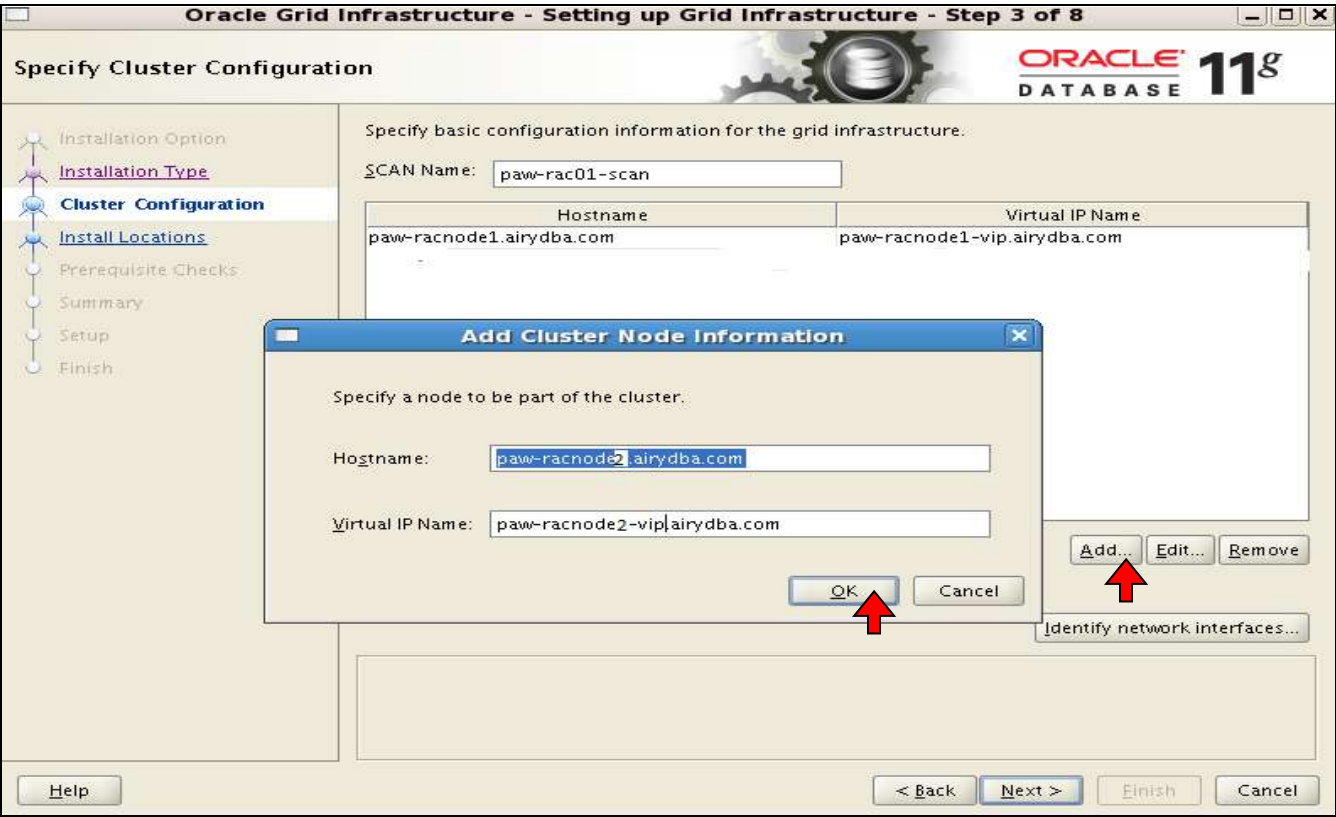
```
Checking Temp space: must be greater than 120 MB.    Actual 5502 MB    Passed
Checking swap space: must be greater than 150 MB.    Actual 4094 MB    Passed
Checking monitor: must be configured to display at least 256 colors.    Actual
16777216    Passed
Preparing to launch Oracle Universal Installer from /tmp/OraInstall2016-08-06_02-49-
54PM. Please wait ...
```



```
grid@paw-racnode1:/u02/software/grid
File Edit View Terminal Tabs Help
[grid@paw-racnode1 grid]$ pwd
/u02/software/grid
[grid@paw-racnode1 grid]$ ll
total 40
drwxr-xr-x  9 grid oinstall 4096 Aug 16 2009 doc
drwxr-xr-x  4 grid oinstall 4096 Aug 15 2009 install
drwxrwxr-x  2 grid oinstall 4096 Aug 15 2009 response
drwxrwxr-x  2 grid oinstall 4096 Aug 15 2009 rpm
-rwxrwxr-x  1 grid oinstall 3795 Jan 29 2009 runcluvfy.sh
-rwxr-xr-x  1 grid oinstall 3227 Aug 15 2009 runInstaller
drwxrwxr-x  2 grid oinstall 4096 Aug 15 2009 sshsetup
drwxr-xr-x 14 grid oinstall 4096 Aug 15 2009 stage
-rw-r--r--  1 grid oinstall 4228 Aug 18 2009 welcome.html
[grid@paw-racnode1 grid]$ ./runInstaller
Starting Oracle Universal Installer...

Checking Temp space: must be greater than 120 MB.    Actual 5087 MB    Passed
Checking swap space: must be greater than 150 MB.    Actual 4094 MB    Passed
Checking monitor: must be configured to display at least 256 colors.    Actual 1
6777216    Passed
Preparing to launch Oracle Universal Installer from /tmp/OraInstall2016-08-07_01
-26-51PM. Please wait ...
```





Oracle Grid Infrastructure - Setting up Grid Infrastructure - Step 3 of 8

Specify Cluster Configuration

Installation Option

Installation Type

Cluster Configuration

Install Locations

Prerequisite Checks

Summary

Setup

Finish

Specify basic configuration information for the grid infrastructure.

SCAN Name:

paw-rac01-scan

Hostname	Virtual IP Name
paw-racnode1.airydba.com	paw-racnode1-vip.airydba.com
paw-racnode2.airydba.com	paw-racnode2-vip.airydba.com
paw-racnode3.airydba.com	paw-racnode3-vip.airydba.com

SSH Connectivity...

Add... Edit... Remove

OS Username:

grid

OS Password:

☐ User home is shared by the selected nodes

☒ Reuse private and public keys existing in the user home

Test

Setup

Identify network interfaces...

Help

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Finish

Cancel

Oracle Grid Infrastructure - Setting up Grid Infrastructure - Step 3 of 8

Specify Cluster Configuration

Installation Option

Installation Type

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Prerequisite Checks

Summary

Setup

Finish

Specify basic configuration information for the grid infrastructure.

SCAN Name:

paw-rac01-scan

Hostname	Virtual IP Name
paw-racnode1.airydba.com	paw-racnode1-vip.airydba.com
paw-racnode2.airydba.com	paw-racnode2-vip.airydba.com
paw-racnode3.airydba.com	paw-racnode3-vip.airydba.com

Establishing SSH connectivity between the selected nodes. This may take several minutes. Please wait...

Add... Edit... Remove

☐ Reuse private and public keys existing in the user home

Test

Setup

Identify network interfaces...

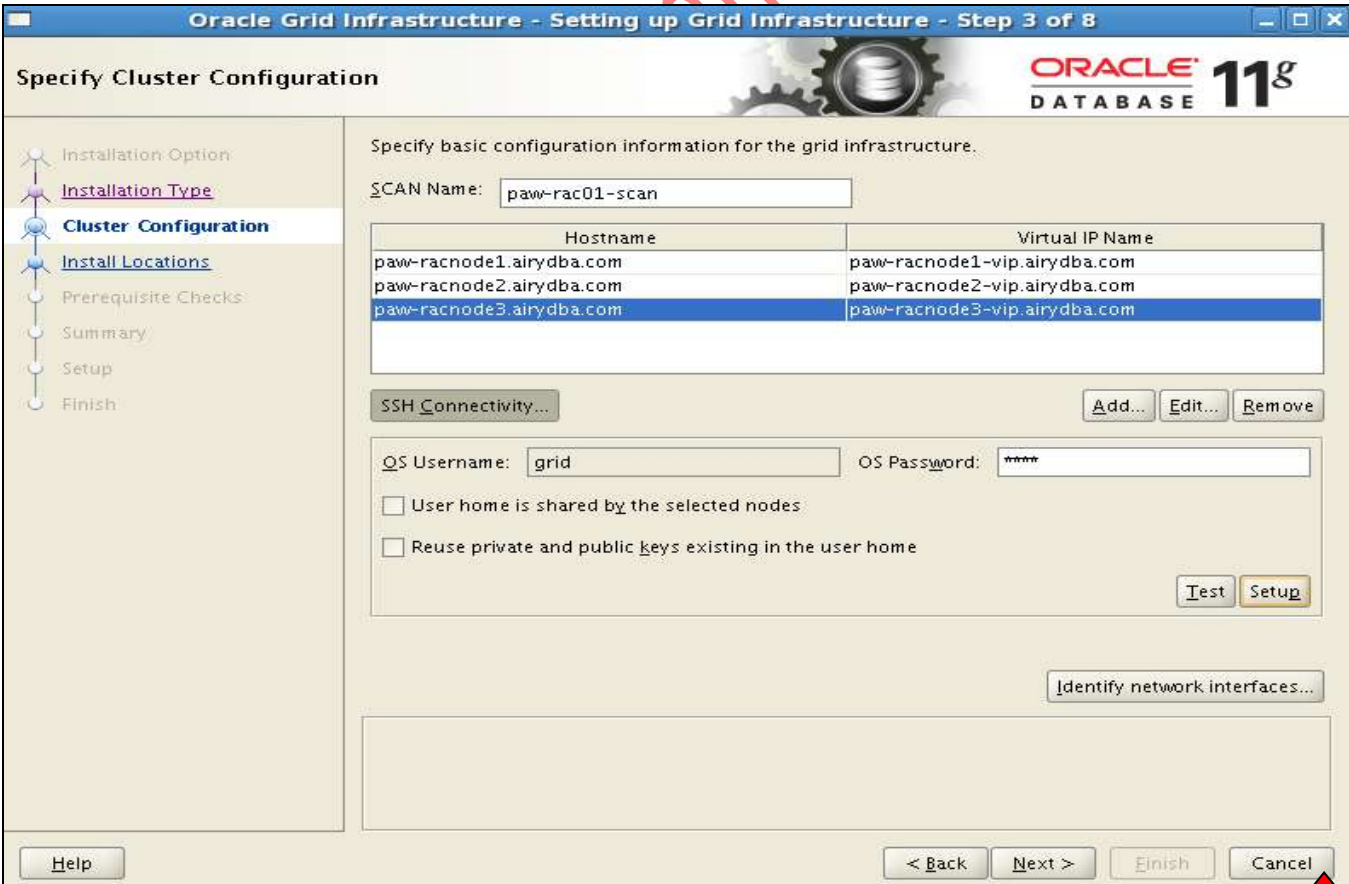
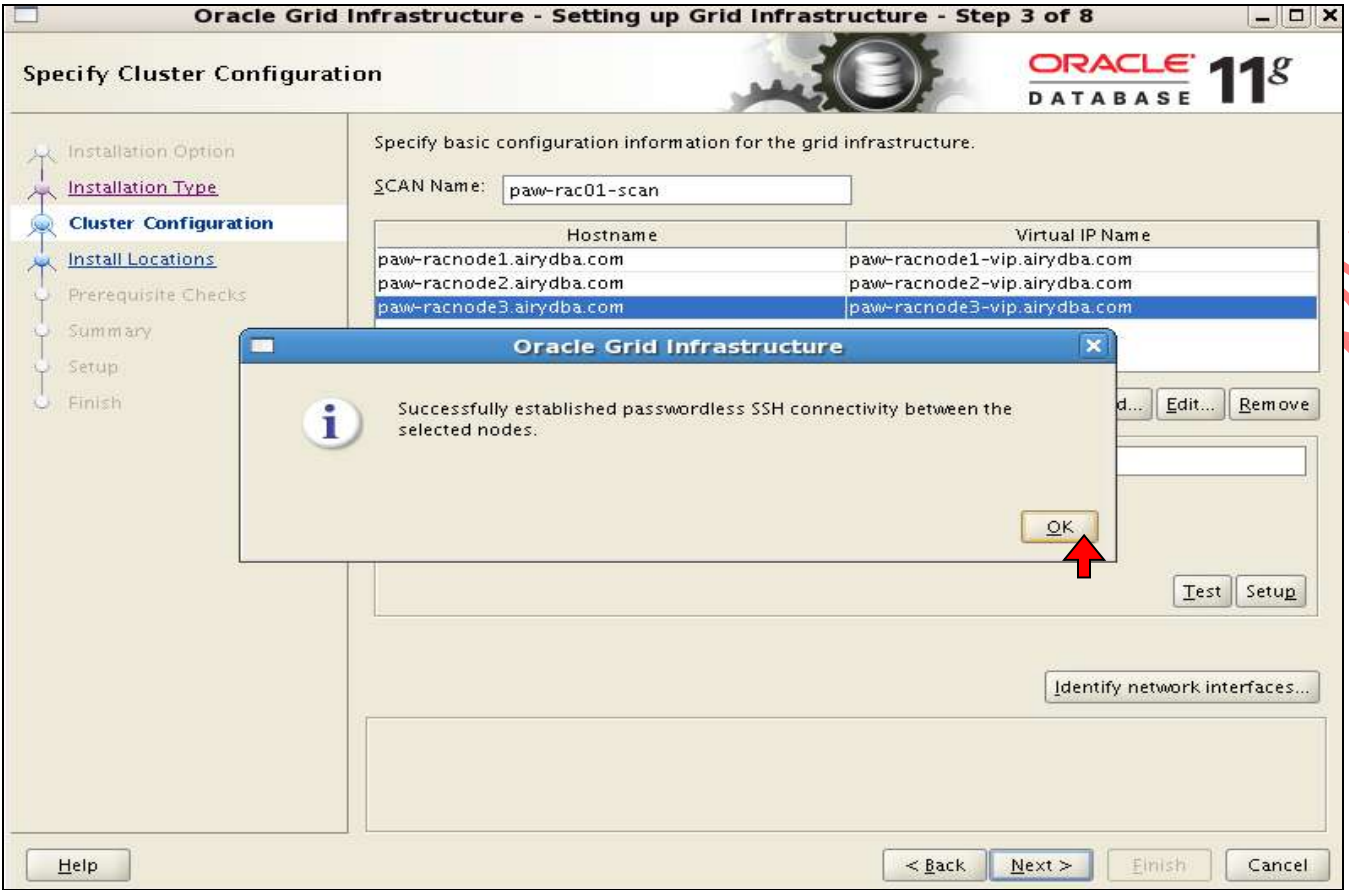
Help

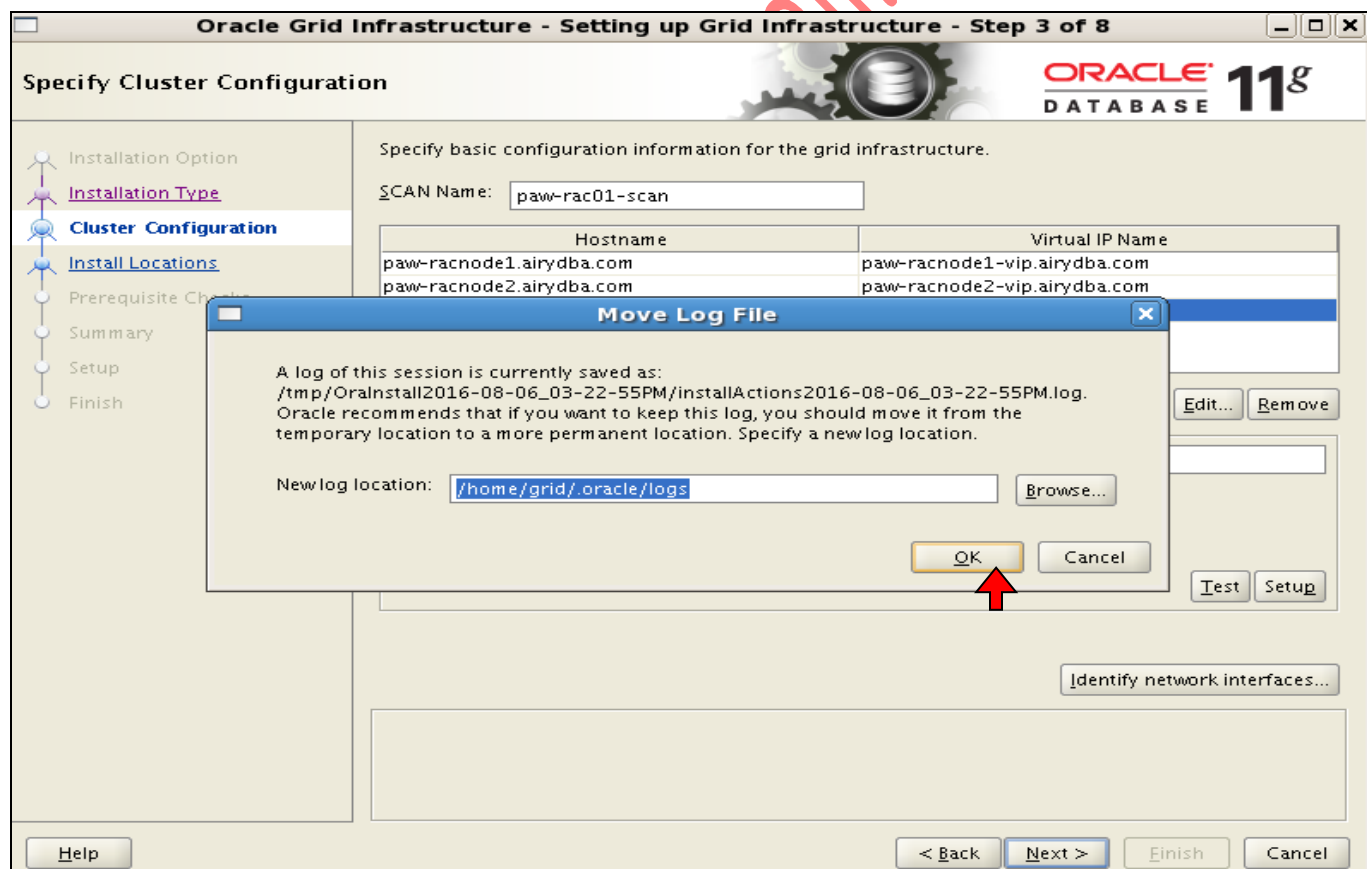
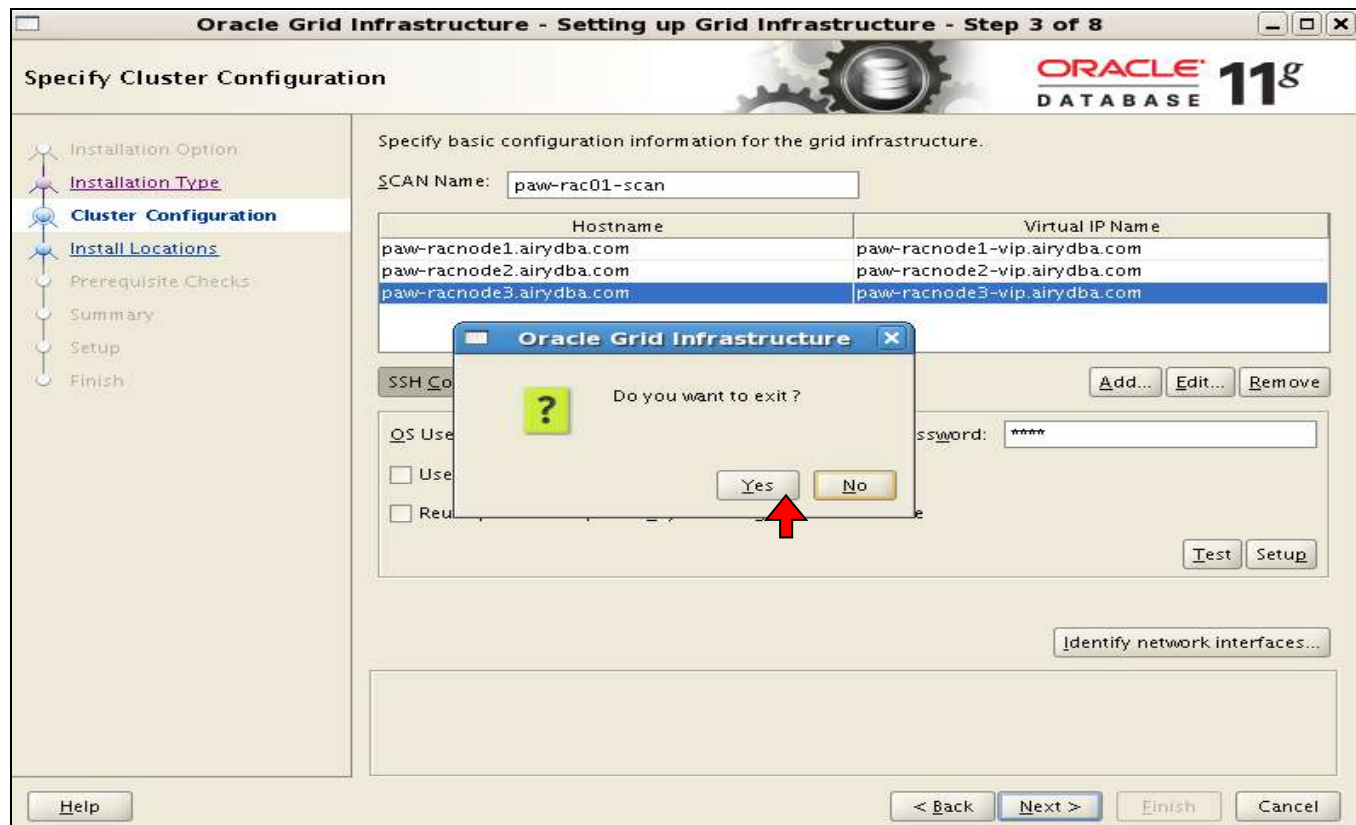
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Next >

Finish

Cancel





Confirming all prerequisites are completed by running **runcluvfy.sh**

```
[grid@paw-racnode1 grid]$ ./runcluvfy.sh stage -pre crsinst -n paw-racnode1,paw-racnode2,paw-racnode3 -verbose | tee /home/grid/Desktop/runcluvfy.txt
```

Performing pre-checks for cluster services setup

Checking node reachability...

Check: Node reachability from node "paw-racnode1"

Destination Node	Reachable?
-----	-----
paw-racnode2	yes
paw-racnode1	yes
paw-racnode3	yes

Result: Node reachability check passed from node "paw-racnode1"

Checking user equivalence...

Check: User equivalence for user "grid"

Node Name	Comment
-----	-----
paw-racnode3	passed
paw-racnode2	passed
paw-racnode1	passed

Result: User equivalence check passed for user "grid"

Checking node connectivity...

Checking hosts config file...

Node Name	Status	Comment
-----	-----	-----
paw-racnode3	passed	
paw-racnode2	passed	
paw-racnode1	passed	

Verification of the hosts config file successful

Interface information for node "paw-racnode3"

Name	IP Address	Subnet	Gateway	Def. Gateway	HW Address
MTU					
-----	-----	-----	-----	-----	-----
eth0	192.168.75.13	192.168.75.0	0.0.0.0	192.168.75.1	
00:0C:29:27:87:49	1500				
eth1	10.0.0.3	10.0.0.0	0.0.0.0	192.168.75.1	
00:0C:29:27:87:3F	1500				

Interface information for node "paw-racnode2"

Name	IP Address	Subnet	Gateway	Def. Gateway	HW Address
MTU					
-----	-----	-----	-----	-----	-----
eth0	192.168.75.12	192.168.75.0	0.0.0.0	192.168.75.1	
00:0C:29:10:B1:AA	1500				
eth1	10.0.0.2	10.0.0.0	0.0.0.0	192.168.75.1	
00:0C:29:10:B1:A0	1500				

Interface information for node "paw-racnode1"

Name	IP Address	Subnet	Gateway	Def. Gateway	HW Address
eth0	192.168.75.11	192.168.75.0	0.0.0.0	192.168.75.1	00:0C:29:47:33:22
eth1	10.0.0.1	10.0.0.0	0.0.0.0	192.168.75.1	00:0C:29:47:33:18

Check: Node connectivity of subnet "192.168.75.0"

Source	Destination	Connected?
paw-racnode3:eth0	paw-racnode2:eth0	yes
paw-racnode3:eth0	paw-racnode1:eth0	yes
paw-racnode2:eth0	paw-racnode1:eth0	yes

Result: Node connectivity passed for subnet "192.168.75.0" with node(s) paw-racnode3,paw-racnode2,paw-racnode1

Check: TCP connectivity of subnet "192.168.75.0"

Source	Destination	Connected?
paw-racnode1:192.168.75.11	paw-racnode3:192.168.75.13	passed
paw-racnode1:192.168.75.11	paw-racnode2:192.168.75.12	passed

Result: TCP connectivity check passed for subnet "192.168.75.0"

Check: Node connectivity of subnet "10.0.0.0"

Source	Destination	Connected?
paw-racnode3:eth1	paw-racnode2:eth1	yes
paw-racnode3:eth1	paw-racnode1:eth1	yes
paw-racnode2:eth1	paw-racnode1:eth1	yes

Result: Node connectivity passed for subnet "10.0.0.0" with node(s) paw-racnode3,paw-racnode2,paw-racnode1

Check: TCP connectivity of subnet "10.0.0.0"

Source	Destination	Connected?
paw-racnode1:10.0.0.1	paw-racnode3:10.0.0.3	passed
paw-racnode1:10.0.0.1	paw-racnode2:10.0.0.2	passed

Result: TCP connectivity check passed for subnet "10.0.0.0"

Interfaces found on subnet "192.168.75.0" that are likely candidates for VIP are:

paw-racnode3 eth0:192.168.75.13
paw-racnode2 eth0:192.168.75.12
paw-racnode1 eth0:192.168.75.11

Interfaces found on subnet "10.0.0.0" that are likely candidates for a private interconnect are:

paw-racnode3 eth1:10.0.0.3
paw-racnode2 eth1:10.0.0.2
paw-racnode1 eth1:10.0.0.1

Result: Node connectivity check passed

Check: Total memory

Node Name	Available	Required	Comment
paw-racnode3	2.45GB (2568496.0KB)	1.5GB (1572864.0KB)	passed
paw-racnode2	2.45GB (2568496.0KB)	1.5GB (1572864.0KB)	passed
paw-racnode1	2.45GB (2568496.0KB)	1.5GB (1572864.0KB)	passed

Result: Total memory check passed

Check: Available memory

Node Name	Available	Required	Comment
paw-racnode3	2.15GB (2251096.0KB)	50MB (51200.0KB)	passed
paw-racnode2	2.14GB (2247800.0KB)	50MB (51200.0KB)	passed
paw-racnode1	2.16GB (2260164.0KB)	50MB (51200.0KB)	passed

Result: Available memory check passed

Check: Swap space

Node Name	Available	Required	Comment
paw-racnode3	4GB (4192924.0KB)	2.45GB (2568496.0KB)	passed
paw-racnode2	4GB (4192924.0KB)	2.45GB (2568496.0KB)	passed
paw-racnode1	4GB (4192924.0KB)	2.45GB (2568496.0KB)	passed

Result: Swap space check passed

Check: Free disk space for "paw-racnode3:/tmp"

Path	Node Name	Mount point	Available	Required	Comment
/tmp	paw-racnode3	/tmp	5.63GB	1GB	passed

Result: Free disk space check passed for "paw-racnode3:/tmp"

Check: Free disk space for "paw-racnode2:/tmp"

Path	Node Name	Mount point	Available	Required	Comment
/tmp	paw-racnode2	/tmp	5.63GB	1GB	passed

Result: Free disk space check passed for "paw-racnode2:/tmp"

Check: Free disk space for "paw-racnode1:/tmp"

Path	Node Name	Mount point	Available	Required	Comment
/tmp	paw-racnode1	/tmp	5.19GB	1GB	passed

Result: Free disk space check passed for "paw-racnode1:/tmp"

Check: User existence for "grid"

Node Name	Status	Comment
paw-racnode3	exists	passed
paw-racnode2	exists	passed
paw-racnode1	exists	passed

Result: User existence check passed for "grid"

Check: Group existence for "oinstall"

Node Name	Status	Comment
paw-racnode3	exists	passed

```

paw-racnode2 exists passed
paw-racnode1 exists passed
Result: Group existence check passed for "oinstall"

```

Check: Group existence for "dba"

Node Name	Status	Comment
paw-racnode3	exists	passed
paw-racnode2	exists	passed
paw-racnode1	exists	passed

Result: Group existence check passed for "dba"

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

Node Name	User Exists	Group Exists	User in Group	Primary	Comment
paw-racnode3	yes	yes	yes	yes	passed
paw-racnode2	yes	yes	yes	yes	passed
paw-racnode1	yes	yes	yes	yes	passed

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

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

Node Name	User Exists	Group Exists	User in Group	Comment
paw-racnode3	yes	yes	yes	passed
paw-racnode2	yes	yes	yes	passed
paw-racnode1	yes	yes	yes	passed

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

Check: Run level

Node Name	run level	Required	Comment
paw-racnode3	5	3,5	passed
paw-racnode2	5	3,5	passed
paw-racnode1	5	3,5	passed

Result: Run level check passed

Check: Hard limits for "maximum open file descriptors"

Node Name	Type	Available	Required	Comment
paw-racnode3	hard	65536	65536	passed
paw-racnode2	hard	65536	65536	passed
paw-racnode1	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	Comment
paw-racnode3	soft	1024	1024	passed
paw-racnode2	soft	1024	1024	passed
paw-racnode1	soft	65536	1024	passed

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

Check: Hard limits for "maximum user processes"

Node Name	Type	Available	Required	Comment
paw-racnode3	hard	16384	16384	passed
paw-racnode2	hard	16384	16384	passed
paw-racnode1	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	Comment
-----	-----	-----	-----	-----
paw-racnode3	soft	16384	2047	passed
paw-racnode2	soft	16384	2047	passed
paw-racnode1	soft	16384	2047	passed

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

Check: System architecture

Node Name	Available	Required	Comment
-----	-----	-----	-----
paw-racnode3	x86_64	x86_64	passed
paw-racnode2	x86_64	x86_64	passed
paw-racnode1	x86_64	x86_64	passed

Result: System architecture check passed

Check: Kernel version

Node Name	Available	Required	Comment
-----	-----	-----	-----
paw-racnode3	2.6.18-274.el5	2.6.18	passed
paw-racnode2	2.6.18-274.el5	2.6.18	passed
paw-racnode1	2.6.18-274.el5	2.6.18	passed

Result: Kernel version check passed

Check: Kernel parameter for "semmsl"

Node Name	Configured	Required	Comment
-----	-----	-----	-----
paw-racnode3	250	250	passed
paw-racnode2	250	250	passed
paw-racnode1	250	250	passed

Result: Kernel parameter check passed for "semmsl"

Check: Kernel parameter for "semmns"

Node Name	Configured	Required	Comment
-----	-----	-----	-----
paw-racnode3	32000	32000	passed
paw-racnode2	32000	32000	passed
paw-racnode1	32000	32000	passed

Result: Kernel parameter check passed for "semmns"

Check: Kernel parameter for "semopm"

Node Name	Configured	Required	Comment
-----	-----	-----	-----
paw-racnode3	100	100	passed
paw-racnode2	100	100	passed
paw-racnode1	100	100	passed

Result: Kernel parameter check passed for "semopm"

Check: Kernel parameter for "semmni"

Node Name	Configured	Required	Comment
-----	-----	-----	-----
paw-racnode3	128	128	passed
paw-racnode2	128	128	passed
paw-racnode1	128	128	passed

Result: Kernel parameter check passed for "semmni"

Check: Kernel parameter for "shmmax"

Node Name	Configured	Required	Comment
paw-racnode3	1054504960	536870912	passed
paw-racnode2	1054504960	536870912	passed
paw-racnode1	1054504960	536870912	passed

Result: Kernel parameter check passed for "shmmax"

Check: Kernel parameter for "shmmni"

Node Name	Configured	Required	Comment
paw-racnode3	4096	4096	passed
paw-racnode2	4096	4096	passed
paw-racnode1	4096	4096	passed

Result: Kernel parameter check passed for "shmmni"

Check: Kernel parameter for "shmall"

Node Name	Configured	Required	Comment
paw-racnode3	2097152	2097152	passed
paw-racnode2	2097152	2097152	passed
paw-racnode1	2097152	2097152	passed

Result: Kernel parameter check passed for "shmall"

Check: Kernel parameter for "file-max"

Node Name	Configured	Required	Comment
paw-racnode3	6815744	6815744	passed
paw-racnode2	6815744	6815744	passed
paw-racnode1	6815744	6815744	passed

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

Check: Kernel parameter for "ip_local_port_range"

Node Name	Configured	Required	Comment
paw-racnode3	between 9000 & 65500	between 9000 & 65500	passed
paw-racnode2	between 9000 & 65500	between 9000 & 65500	passed
paw-racnode1	between 9000 & 65500	between 9000 & 65500	passed

Result: Kernel parameter check passed for "ip_local_port_range"

Check: Kernel parameter for "rmem_default"

Node Name	Configured	Required	Comment
paw-racnode3	262144	262144	passed
paw-racnode2	262144	262144	passed
paw-racnode1	262144	262144	passed

Result: Kernel parameter check passed for "rmem_default"

Check: Kernel parameter for "rmem_max"

Node Name	Configured	Required	Comment
paw-racnode3	4194304	4194304	passed
paw-racnode2	4194304	4194304	passed
paw-racnode1	4194304	4194304	passed

Result: Kernel parameter check passed for "rmem_max"

Check: Kernel parameter for "wmem_default"

Node Name	Configured	Required	Comment
paw-racnode3	262144	262144	passed

```

paw-racnode2 262144 262144 passed
paw-racnode1 262144 262144 passed
Result: Kernel parameter check passed for "wmem_default"

```

Check: Kernel parameter for "wmem_max"

Node Name	Configured	Required	Comment
paw-racnode3	1048576	1048576	passed
paw-racnode2	1048576	1048576	passed
paw-racnode1	1048576	1048576	passed

Result: Kernel parameter check passed for "wmem_max"

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

Node Name	Configured	Required	Comment
paw-racnode3	1048576	1048576	passed
paw-racnode2	1048576	1048576	passed
paw-racnode1	1048576	1048576	passed

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

Check: Package existence for "make-3.81"

Node Name	Available	Required	Comment
paw-racnode3	make-3.81-3.el5	make-3.81	passed
paw-racnode2	make-3.81-3.el5	make-3.81	passed
paw-racnode1	make-3.81-3.el5	make-3.81	passed

Result: Package existence check passed for "make-3.81"

Check: Package existence for "binutils-2.17.50.0.6"

Node Name	Available	Required	Comment
paw-racnode3	binutils-2.17.50.0.6-14.el5	binutils-2.17.50.0.6	passed
paw-racnode2	binutils-2.17.50.0.6-14.el5	binutils-2.17.50.0.6	passed
paw-racnode1	binutils-2.17.50.0.6-14.el5	binutils-2.17.50.0.6	passed

Result: Package existence check passed for "binutils-2.17.50.0.6"

Check: Package existence for "gcc-4.1"

Node Name	Available	Required	Comment
paw-racnode3	gcc-4.1.2-51.el5	gcc-4.1	passed
paw-racnode2	gcc-4.1.2-51.el5	gcc-4.1	passed
paw-racnode1	gcc-4.1.2-51.el5	gcc-4.1	passed

Result: Package existence check passed for "gcc-4.1"

Check: Package existence for "libaio-0.3.106 (i386)"

Node Name	Available	Required	Comment
paw-racnode3	libaio-0.3.106-5 (i386)	libaio-0.3.106 (i386)	passed
paw-racnode2	libaio-0.3.106-5 (i386)	libaio-0.3.106 (i386)	passed
paw-racnode1	libaio-0.3.106-5 (i386)	libaio-0.3.106 (i386)	passed

Result: Package existence check passed for "libaio-0.3.106 (i386)"

Check: Package existence for "libaio-0.3.106 (x86_64)"

Node Name	Available	Required	Comment
paw-racnode3	libaio-0.3.106-5 (x86_64)	libaio-0.3.106 (x86_64)	passed
paw-racnode2	libaio-0.3.106-5 (x86_64)	libaio-0.3.106 (x86_64)	passed
paw-racnode1	libaio-0.3.106-5 (x86_64)	libaio-0.3.106 (x86_64)	passed

Result: Package existence check passed for "libaio-0.3.106 (x86_64)"

Check: Package existence for "glibc-2.5-24 (i686)"

Node Name	Available	Required	Comment
-----	-----	-----	-----
paw-racnode3	glibc-2.5-65 (i686)	glibc-2.5-24 (i686)	passed
paw-racnode2	glibc-2.5-65 (i686)	glibc-2.5-24 (i686)	passed
paw-racnode1	glibc-2.5-65 (i686)	glibc-2.5-24 (i686)	passed

Result: Package existence check passed for "glibc-2.5-24 (i686)"

Check: Package existence for "glibc-2.5-24 (x86_64)"

Node Name	Available	Required	Comment
-----	-----	-----	-----
paw-racnode3	glibc-2.5-65 (x86_64)	glibc-2.5-24 (x86_64)	passed
paw-racnode2	glibc-2.5-65 (x86_64)	glibc-2.5-24 (x86_64)	passed
paw-racnode1	glibc-2.5-65 (x86_64)	glibc-2.5-24 (x86_64)	passed

Result: Package existence check passed for "glibc-2.5-24 (x86_64)"

Check: Package existence for "compat-libstdc++-33-3.2.3 (i386)"

Node Name	Available	Required	Comment
-----	-----	-----	-----
paw-racnode3	compat-libstdc++-33-3.2.3-61 (i386)	compat-libstdc++-33-3.2.3 (i386)	passed
paw-racnode2	compat-libstdc++-33-3.2.3-61 (i386)	compat-libstdc++-33-3.2.3 (i386)	passed
paw-racnode1	compat-libstdc++-33-3.2.3-61 (i386)	compat-libstdc++-33-3.2.3 (i386)	passed

Result: Package existence check passed for "compat-libstdc++-33-3.2.3 (i386)"

Check: Package existence for "compat-libstdc++-33-3.2.3 (x86_64)"

Node Name	Available	Required	Comment
-----	-----	-----	-----
paw-racnode3	compat-libstdc++-33-3.2.3-61 (x86_64)	compat-libstdc++-33-3.2.3 (x86_64)	passed
paw-racnode2	compat-libstdc++-33-3.2.3-61 (x86_64)	compat-libstdc++-33-3.2.3 (x86_64)	passed
paw-racnode1	compat-libstdc++-33-3.2.3-61 (x86_64)	compat-libstdc++-33-3.2.3 (x86_64)	passed

Result: Package existence check passed for "compat-libstdc++-33-3.2.3 (x86_64)"

Check: Package existence for "elfutils-libelf-0.125 (x86_64)"

Node Name	Available	Required	Comment
-----	-----	-----	-----
paw-racnode3	elfutils-libelf-0.137-3.el5 (x86_64)	elfutils-libelf-0.125 (x86_64)	passed
paw-racnode2	elfutils-libelf-0.137-3.el5 (x86_64)	elfutils-libelf-0.125 (x86_64)	passed
paw-racnode1	elfutils-libelf-0.137-3.el5 (x86_64)	elfutils-libelf-0.125 (x86_64)	passed

Result: Package existence check passed for "elfutils-libelf-0.125 (x86_64)"

Check: Package existence for "elfutils-libelf-devel-0.125"

Node Name	Available	Required	Comment
-----	-----	-----	-----
paw-racnode3	elfutils-libelf-devel-0.137-3.el5	elfutils-libelf-devel-0.125	passed
paw-racnode2	elfutils-libelf-devel-0.137-3.el5	elfutils-libelf-devel-0.125	passed
paw-racnode1	elfutils-libelf-devel-0.137-3.el5	elfutils-libelf-devel-0.125	passed

Result: Package existence check passed for "elfutils-libelf-devel-0.125"

Check: Package existence for "glibc-common-2.5"

Node Name	Available	Required	Comment
paw-racnode3	glibc-common-2.5-65	glibc-common-2.5	passed
paw-racnode2	glibc-common-2.5-65	glibc-common-2.5	passed
paw-racnode1	glibc-common-2.5-65	glibc-common-2.5	passed

Result: Package existence check passed for "glibc-common-2.5"

Check: Package existence for "glibc-devel-2.5 (i386)"

Node Name	Available	Required	Comment
paw-racnode3	glibc-devel-2.5-65 (i386)	glibc-devel-2.5 (i386)	passed
paw-racnode2	glibc-devel-2.5-65 (i386)	glibc-devel-2.5 (i386)	passed
paw-racnode1	glibc-devel-2.5-65 (i386)	glibc-devel-2.5 (i386)	passed

Result: Package existence check passed for "glibc-devel-2.5 (i386)"

Check: Package existence for "glibc-devel-2.5 (x86_64)"

Node Name	Available	Required	Comment
paw-racnode3	glibc-devel-2.5-65 (x86_64)	glibc-devel-2.5 (x86_64)	passed
paw-racnode2	glibc-devel-2.5-65 (x86_64)	glibc-devel-2.5 (x86_64)	passed
paw-racnode1	glibc-devel-2.5-65 (x86_64)	glibc-devel-2.5 (x86_64)	passed

Result: Package existence check passed for "glibc-devel-2.5 (x86_64)"

Check: Package existence for "glibc-headers-2.5"

Node Name	Available	Required	Comment
paw-racnode3	glibc-headers-2.5-65	glibc-headers-2.5	passed
paw-racnode2	glibc-headers-2.5-65	glibc-headers-2.5	passed
paw-racnode1	glibc-headers-2.5-65	glibc-headers-2.5	passed

Result: Package existence check passed for "glibc-headers-2.5"

Check: Package existence for "gcc-c++-4.1.2"

Node Name	Available	Required	Comment
paw-racnode3	gcc-c++-4.1.2-51.el5	gcc-c++-4.1.2	passed
paw-racnode2	gcc-c++-4.1.2-51.el5	gcc-c++-4.1.2	passed
paw-racnode1	gcc-c++-4.1.2-51.el5	gcc-c++-4.1.2	passed

Result: Package existence check passed for "gcc-c++-4.1.2"

Check: Package existence for "libaio-devel-0.3.106 (i386)"

Node Name	Available	Required	Comment
paw-racnode3	libaio-devel-0.3.106-5 (i386)	libaio-devel-0.3.106 (i386)	passed
paw-racnode2	libaio-devel-0.3.106-5 (i386)	libaio-devel-0.3.106 (i386)	passed
paw-racnode1	libaio-devel-0.3.106-5 (i386)	libaio-devel-0.3.106 (i386)	passed

Result: Package existence check passed for "libaio-devel-0.3.106 (i386)"

Check: Package existence for "libaio-devel-0.3.106 (x86_64)"

Node Name	Available	Required	Comment
paw-racnode3	libaio-devel-0.3.106-5 (x86_64)	libaio-devel-0.3.106 (x86_64)	passed
paw-racnode2	libaio-devel-0.3.106-5 (x86_64)	libaio-devel-0.3.106 (x86_64)	passed
paw-racnode1	libaio-devel-0.3.106-5 (x86_64)	libaio-devel-0.3.106 (x86_64)	passed

Result: Package existence check passed for "libaio-devel-0.3.106 (x86_64)"

Check: Package existence for "libgcc-4.1.2 (i386)"

Node Name	Available	Required	Comment
paw-racnode3	libgcc-4.1.2-51.el5 (i386)	libgcc-4.1.2 (i386)	passed
paw-racnode2	libgcc-4.1.2-51.el5 (i386)	libgcc-4.1.2 (i386)	passed
paw-racnode1	libgcc-4.1.2-51.el5 (i386)	libgcc-4.1.2 (i386)	passed

Result: Package existence check passed for "libgcc-4.1.2 (i386)"

Check: Package existence for "libgcc-4.1.2 (x86_64)"

Node Name	Available	Required	Comment
paw-racnode3	libgcc-4.1.2-51.el5 (x86_64)	libgcc-4.1.2 (x86_64)	passed
paw-racnode2	libgcc-4.1.2-51.el5 (x86_64)	libgcc-4.1.2 (x86_64)	passed
paw-racnode1	libgcc-4.1.2-51.el5 (x86_64)	libgcc-4.1.2 (x86_64)	passed

Result: Package existence check passed for "libgcc-4.1.2 (x86_64)"

Check: Package existence for "libstdc++-4.1.2 (i386)"

Node Name	Available	Required	Comment
paw-racnode3	libstdc++-4.1.2-51.el5 (i386)	libstdc++-4.1.2 (i386)	passed
paw-racnode2	libstdc++-4.1.2-51.el5 (i386)	libstdc++-4.1.2 (i386)	passed
paw-racnode1	libstdc++-4.1.2-51.el5 (i386)	libstdc++-4.1.2 (i386)	passed

Result: Package existence check passed for "libstdc++-4.1.2 (i386)"

Check: Package existence for "libstdc++-4.1.2 (x86_64)"

Node Name	Available	Required	Comment
paw-racnode3	libstdc++-4.1.2-51.el5 (x86_64)	libstdc++-4.1.2 (x86_64)	passed
paw-racnode2	libstdc++-4.1.2-51.el5 (x86_64)	libstdc++-4.1.2 (x86_64)	passed
paw-racnode1	libstdc++-4.1.2-51.el5 (x86_64)	libstdc++-4.1.2 (x86_64)	passed

Result: Package existence check passed for "libstdc++-4.1.2 (x86_64)"

Check: Package existence for "libstdc++-devel-4.1.2 (x86_64)"

Node Name	Available	Required	Comment
paw-racnode3	libstdc++-devel-4.1.2-51.el5 (x86_64)	libstdc++-devel-4.1.2 (x86_64)	passed
paw-racnode2	libstdc++-devel-4.1.2-51.el5 (x86_64)	libstdc++-devel-4.1.2 (x86_64)	passed
paw-racnode1	libstdc++-devel-4.1.2-51.el5 (x86_64)	libstdc++-devel-4.1.2 (x86_64)	passed

Result: Package existence check passed for "libstdc++-devel-4.1.2 (x86_64)"

Check: Package existence for "sysstat-7.0.2"

Node Name	Available	Required	Comment
paw-racnode3	sysstat-7.0.2-11.el5	sysstat-7.0.2	passed
paw-racnode2	sysstat-7.0.2-11.el5	sysstat-7.0.2	passed
paw-racnode1	sysstat-7.0.2-11.el5	sysstat-7.0.2	passed

Result: Package existence check passed for "sysstat-7.0.2"

Check: Package existence for "unixODBC-2.2.11 (i386)"

Node Name	Available	Required	Comment
paw-racnode3	unixODBC-2.2.11-7.1 (i386)	unixODBC-2.2.11 (i386)	passed
paw-racnode2	unixODBC-2.2.11-7.1 (i386)	unixODBC-2.2.11 (i386)	passed
paw-racnode1	unixODBC-2.2.11-7.1 (i386)	unixODBC-2.2.11 (i386)	passed

Result: Package existence check passed for "unixODBC-2.2.11 (i386)"

Check: Package existence for "unixODBC-2.2.11 (x86_64)"

Node Name	Available	Required	Comment
paw-racnode3	unixODBC-2.2.11-7.1 (x86_64)	unixODBC-2.2.11 (x86_64)	passed
paw-racnode2	unixODBC-2.2.11-7.1 (x86_64)	unixODBC-2.2.11 (x86_64)	passed
paw-racnode1	unixODBC-2.2.11-7.1 (x86_64)	unixODBC-2.2.11 (x86_64)	passed

Result: Package existence check passed for "unixODBC-2.2.11 (x86_64)"

Check: Package existence for "unixODBC-devel-2.2.11 (i386)"

Node Name	Available	Required	Comment
paw-racnode3	unixODBC-devel-2.2.11-7.1 (i386)	unixODBC-devel-2.2.11 (i386)	passed
paw-racnode2	unixODBC-devel-2.2.11-7.1 (i386)	unixODBC-devel-2.2.11 (i386)	passed
paw-racnode1	unixODBC-devel-2.2.11-7.1 (i386)	unixODBC-devel-2.2.11 (i386)	passed

Result: Package existence check passed for "unixODBC-devel-2.2.11 (i386)"

Check: Package existence for "unixODBC-devel-2.2.11 (x86_64)"

Node Name	Available	Required	Comment
paw-racnode3	unixODBC-devel-2.2.11-7.1 (x86_64)	unixODBC-devel-2.2.11 (x86_64)	passed
paw-racnode2	unixODBC-devel-2.2.11-7.1 (x86_64)	unixODBC-devel-2.2.11 (x86_64)	passed
paw-racnode1	unixODBC-devel-2.2.11-7.1 (x86_64)	unixODBC-devel-2.2.11 (x86_64)	passed

Result: Package existence check passed for "unixODBC-devel-2.2.11 (x86_64)"

Check: Package existence for "ksh-20060214"

Node Name	Available	Required	Comment
paw-racnode3	ksh-20100202-1.el5_6.6	ksh-20060214	passed
paw-racnode2	ksh-20100202-1.el5_6.6	ksh-20060214	passed
paw-racnode1	ksh-20100202-1.el5_6.6	ksh-20060214	passed

Result: Package existence check passed for "ksh-20060214"

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

Checking Core file name pattern consistency...

Core file name pattern consistency check passed.

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

Node Name	Status	Comment
paw-racnode3	does not exist	passed
paw-racnode2	does not exist	passed
paw-racnode1	does not exist	passed

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

Check default user file creation mask

Node Name	Available	Required	Comment
-----------	-----------	----------	---------

paw-racnode3	0022	0022	passed
paw-racnode2	0022	0022	passed
paw-racnode1	0022	0022	passed

Result: Default user file creation mask check passed

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

NTP Configuration file check started...

The NTP configuration file "/etc/ntp.conf" is available on all nodes

NTP Configuration file check passed

Checking daemon liveness...

Check: Liveness for "ntpd"

Node Name	Running?
paw-racnode3	yes
paw-racnode2	yes
paw-racnode1	yes

Result: Liveness check passed for "ntpd"

Checking NTP daemon command line for slewing option "-x"

Check: NTP daemon command line

Node Name	Slewing Option Set?
paw-racnode3	yes
paw-racnode2	yes
paw-racnode1	yes

Result:

NTP daemon slewing option check passed

Checking NTP daemon's boot time configuration, in file "/etc/sysconfig/ntpd", for slewing option "-x"

Check: NTP daemon's boot time configuration

Node Name	Slewing Option Set?
paw-racnode3	yes
paw-racnode2	yes
paw-racnode1	yes

Result:

NTP daemon's boot time configuration check for slewing option passed

NTP common Time Server Check started...

NTP Time Server ".LOCL." is common to all nodes on which the NTP daemon is running

Check of common NTP Time Server passed

Clock time offset check from NTP Time Server started...

Checking on nodes "[paw-racnode3, paw-racnode2, paw-racnode1]"...

Check: Clock time offset from NTP Time Server

Time Server: .LOCL.

Time Offset Limit: 1000.0 msecs

Node Name	Time Offset	Status
paw-racnode3	0.0	passed
paw-racnode2	0.0	passed
paw-racnode1	0.0	passed

Time Server ".LOCL." has time offsets that are within permissible limits for nodes
"[paw-racnode3, paw-racnode2, paw-racnode1]".

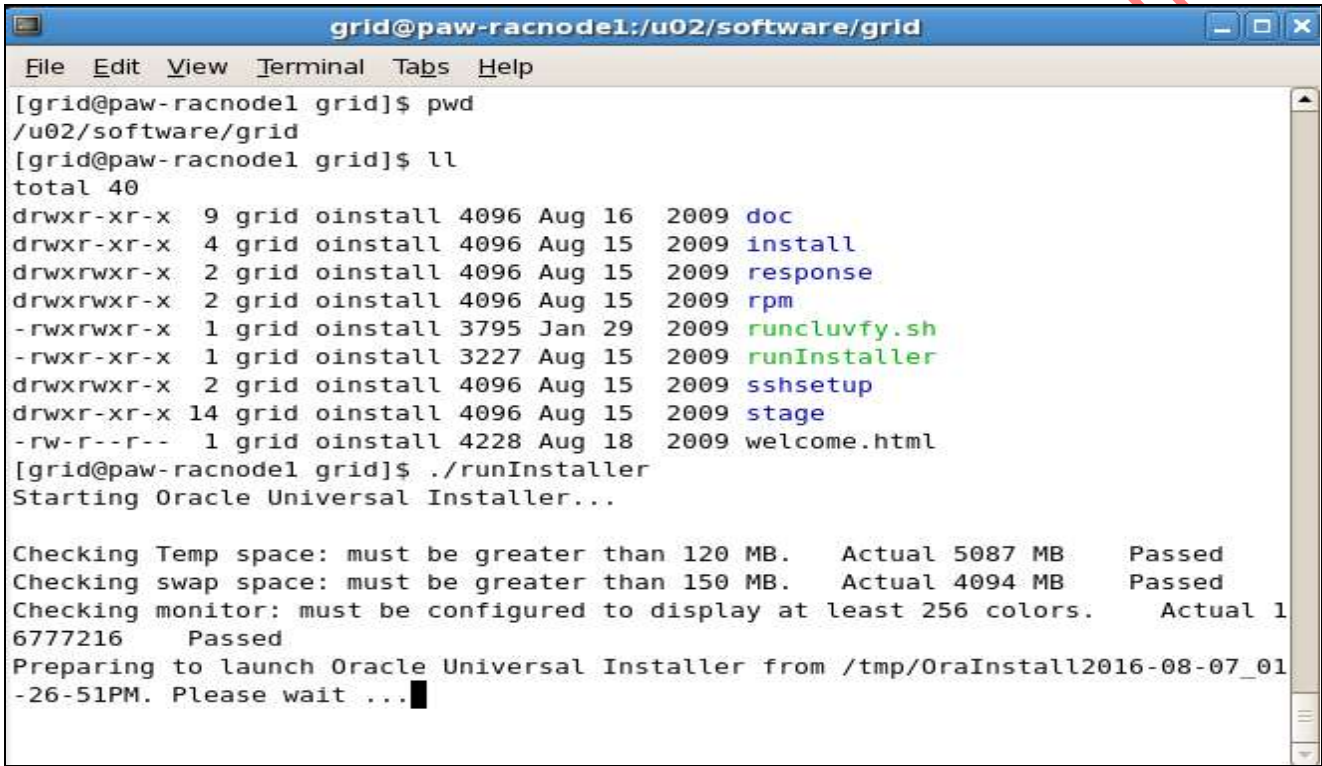
Clock time offset check passed

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

Pre-check for cluster services setup was successful.

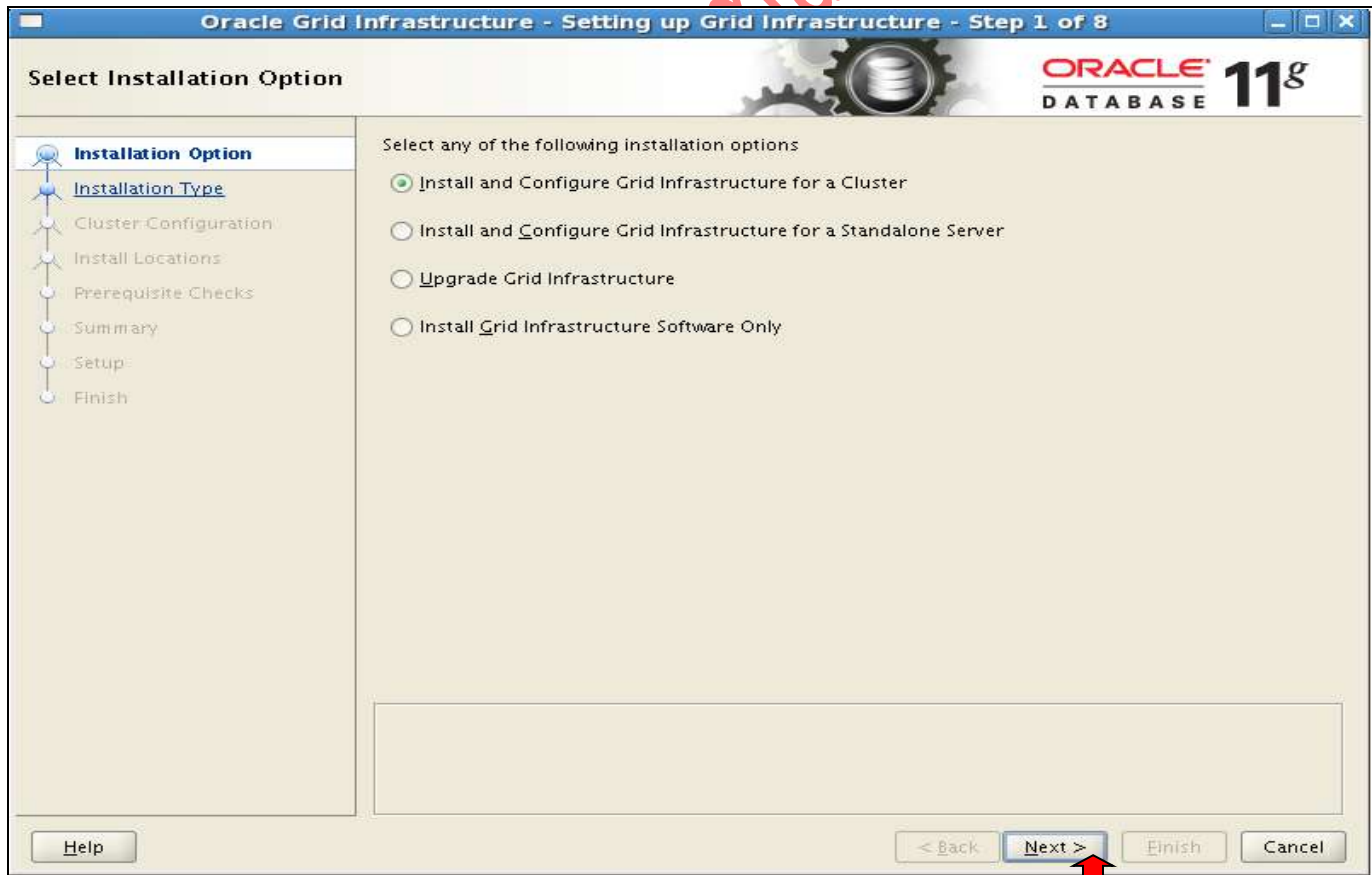
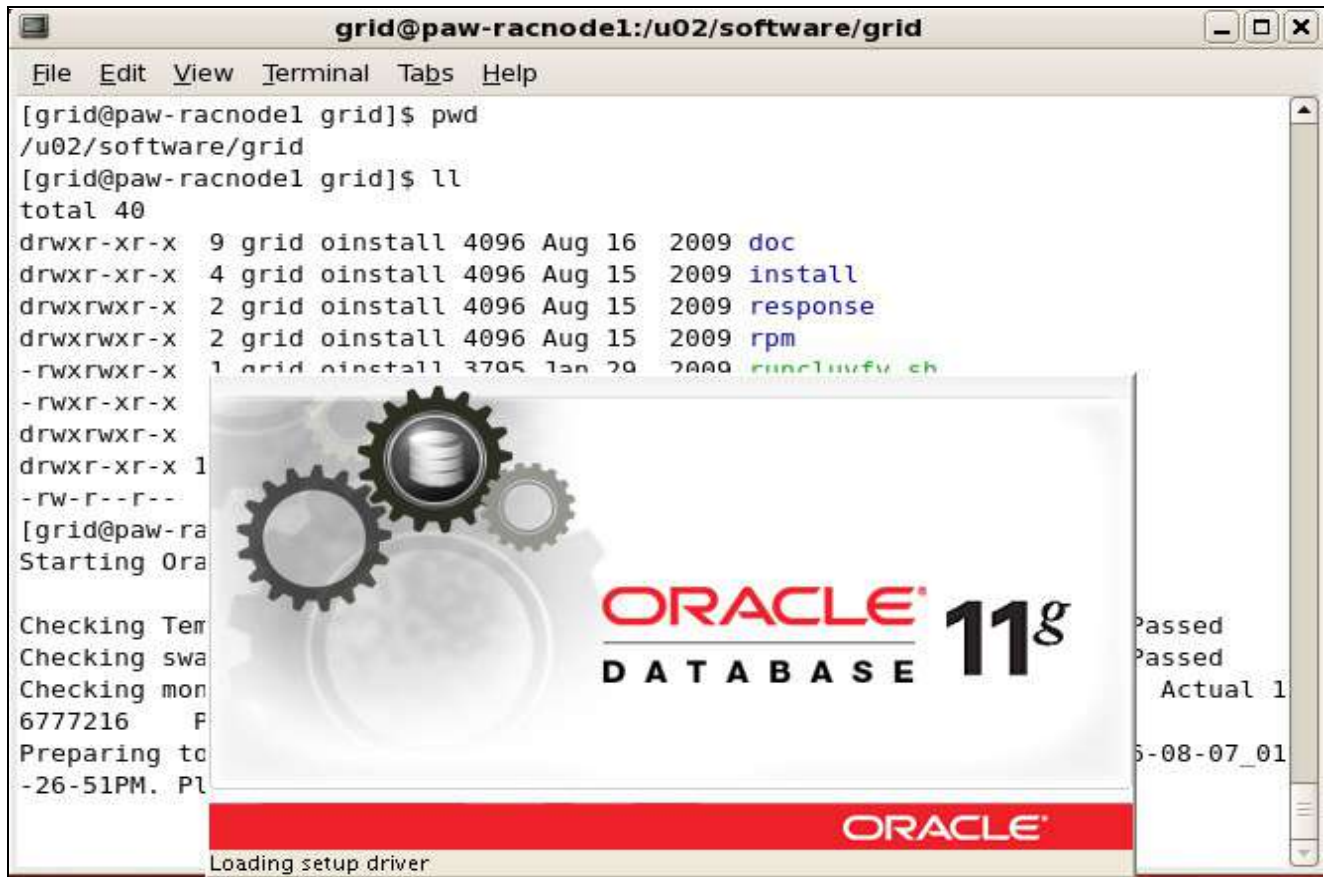
Grid Infrastructure Installation Start :

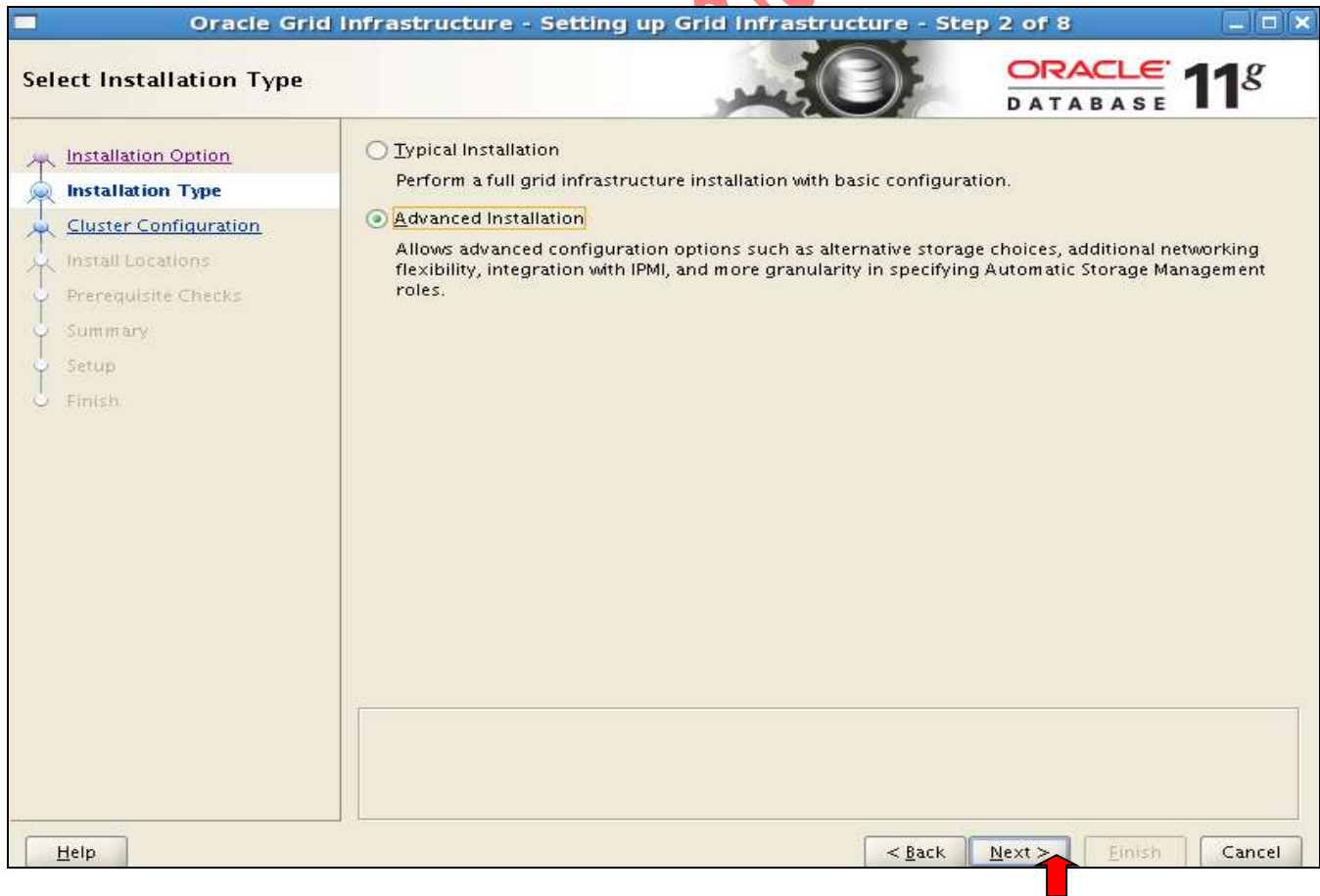
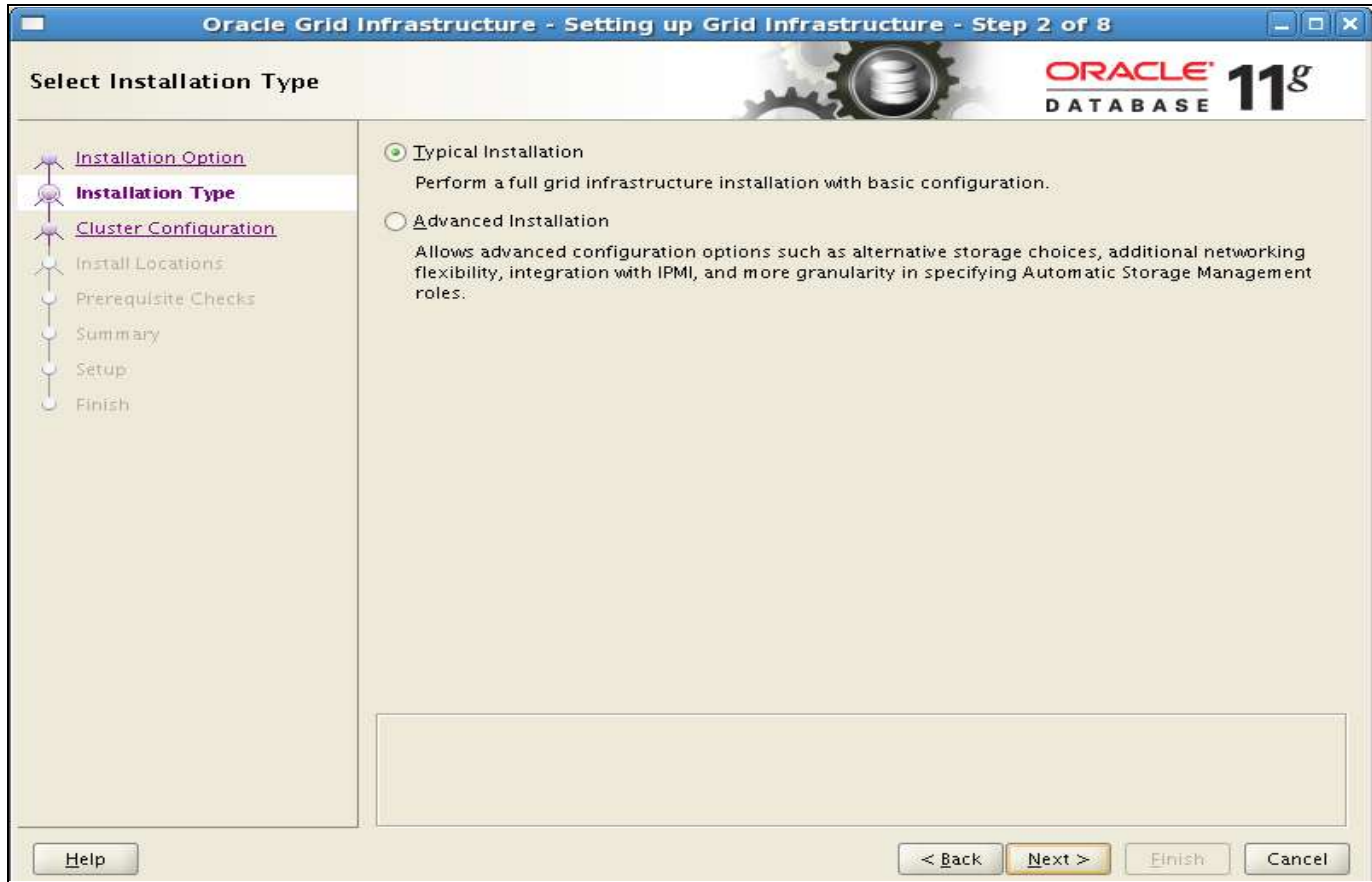
Although we have established the password less connectivity and all prerequisites for all 3 nodes (paw-racnode1, paw-racnode2, paw-racnode3), but we will install grid and oracle only on 2 nodes (paw-racnode1, paw-racnode2) and 3rd (paw-racnode3) will be used for Adding 3rd Node and Deleting 3rd Node Practical;



```
grid@paw-racnode1:/u02/software/grid
File Edit View Terminal Tabs Help
[grid@paw-racnode1 grid]$ pwd
/u02/software/grid
[grid@paw-racnode1 grid]$ ll
total 40
drwxr-xr-x  9 grid oinstall 4096 Aug 16  2009 doc
drwxr-xr-x  4 grid oinstall 4096 Aug 15  2009 install
drwxrwxr-x  2 grid oinstall 4096 Aug 15  2009 response
drwxrwxr-x  2 grid oinstall 4096 Aug 15  2009 rpm
-rwxrwxr-x  1 grid oinstall 3795 Jan 29  2009 runcluvfy.sh
-rwxr-xr-x  1 grid oinstall 3227 Aug 15  2009 runInstaller
drwxrwxr-x  2 grid oinstall 4096 Aug 15  2009 sshsetup
drwxr-xr-x 14 grid oinstall 4096 Aug 15  2009 stage
-rw-r--r--  1 grid oinstall 4228 Aug 18  2009 welcome.html
[grid@paw-racnode1 grid]$ ./runInstaller
Starting Oracle Universal Installer...

Checking Temp space: must be greater than 120 MB.   Actual 5087 MB       Passed
Checking swap space: must be greater than 150 MB.   Actual 4094 MB       Passed
Checking monitor: must be configured to display at least 256 colors.      Actual 1
6777216       Passed
Preparing to launch Oracle Universal Installer from /tmp/OraInstall2016-08-07_01
-26-51PM. Please wait ...
```





Oracle Grid Infrastructure - Setting up Grid Infrastructure - Step 3 of 9

Select Product Languages

Installation Option

Installation Type

Product Languages

Operating System Groups

Installation Location

Prerequisite Checks

Summary

Setup

Finish

Select the languages in which your product will run.

Available Languages:

Arabic

Bengali

Brazilian Portuguese

Bulgarian

Canadian French

Catalan

Croatian

Czech

Danish

Dutch

Egyptian

English (United Kingdom)

Estonian

Finnish

French

German

Greek

Hebrew

Hungarian

Icelandic

Indonesian

Selected Languages:

English

Help

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Next >

Finish

Cancel

Oracle Grid Infrastructure - Setting up Grid Infrastructure - Step 4 of 16

Grid Plug and Play Information

Installation Option

Installation Type

Product Languages

Grid Plug and Play

Cluster Node Information

Network Interface Usage

Storage Option

OCR Storage

Voting Disk Storage

Failure Isolation

Operating System Groups

Installation Location

Prerequisite Checks

Summary

Setup

Finish

Single Client Access Name (SCAN) allows clients to use one name in connection strings to connect to the cluster as a whole. Client connect requests to the SCAN name can be handled by any cluster node.

Cluster Name:

paw-rac-cluster

SCAN Name:

sc-cluster-scan.paw-rac.airydba.com

SCAN Port:

1521

☒ **Configure GNS**

↑

GNS Sub Domain:

paw-rac.airydba.com

For example: grid.example.com

GNS VIP Address:

192.168.75.1

Help

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Next >

Finish

Cancel

Oracle Grid Infrastructure - Setting up Grid Infrastructure - Step 4 of 16

Grid Plug and Play Information

Installation Option

Installation Type

Product Languages

Grid Plug and Play

Cluster Node Information

Network Interface Usage

Storage Option

OCR Storage

Voting Disk Storage

Failure Isolation

Operating System Groups

Installation Location

Prerequisite Checks

Summary

Setup

Finish

Single Client Access Name (SCAN) allows clients to use one name in connection strings to connect to the cluster as a whole. Client connect requests to the SCAN name can be handled by any cluster node.

Cluster Name: paw-rac-cluster

SCAN Name: paw-rac01-scan.airydba.com

SCAN Port: 1521

☐ Configure GNS

GNS Sub Domain: paw-rac.airydba.com

For example: grid.example.com

GNS VIP Address: 192.168.75.1

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Next >

Finish

Cancel

Oracle Grid Infrastructure - Setting up Grid Infrastructure - Step 3 of 8

Specify Cluster Configuration

Installation Option

Installation Type

Cluster Configuration

Install Locations

Prerequisite Checks

Summary

Setup

Finish

Specify basic configuration information for the grid infrastructure:

SCAN Name: paw-rac01-scan

Hostname	Virtual IP Name
paw-racnode1.airydba.com	paw-racnode1-vip.airydba.com

Add Cluster Node Information

Specify a node to be part of the cluster:

Hostname: paw-racnode2.airydba.com

Virtual IP Name: paw-racnode2-vip.airydba.com

OK

Cancel

Add...

Edit...

Remove

Identify network interfaces...

Help

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Finish

Cancel

Oracle Grid Infrastructure - Setting up Grid Infrastructure - Step 5 of 16

Cluster Node Information

Installation Option

Installation Type

Product Languages

Grid Plug and Play

Cluster Node Information

Network Interface Usage

Storage Option

OCR Storage

Voting Disk Storage

Failure Isolation

Operating System Groups

Installation Location

Prerequisite Checks

Summary

Setup

Finish

Provide the list of nodes to be managed by Oracle Grid Infrastructure with their Public Node Name and Virtual Host Name.
If Oracle Grid Naming Service (GNS) has been selected and DHCP is enabled, then the Virtual Host Name is automatically configured for each Public Node.

Hostname	Virtual IP Name
paw-racnode1.airydba.com	paw-racnode1-vip.airydba.com
paw-racnode2.airydba.com	paw-racnode2-vip.airydba.com

SSH Connectivity...

Use Cluster Configuration File...

Add...

Edit...

Remove

Help

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Finish

Cancel

Oracle Grid Infrastructure - Setting up Grid Infrastructure - Step 5 of 16

Cluster Node Information

Installation Option

Installation Type

Product Languages

Grid Plug and Play

Cluster Node Information

Network Interface Usage

Storage Option

OCR Storage

Voting Disk Storage

Failure Isolation

Operating System Groups

Installation Location

Prerequisite Checks

Summary

Setup

Finish

Provide the list of nodes to be managed by Oracle Grid Infrastructure with their Public Node Name and Virtual Host Name.
If Oracle Grid Naming Service (GNS) has been selected and DHCP is enabled, then the Virtual Host Name is automatically configured for each Public Node.

Hostname	Virtual IP Name
paw-racnode1.airydba.com	paw-racnode1-vip.airydba.com
paw-racnode2.airydba.com	paw-racnode2-vip.airydba.com

SSH Connectivity...

Use Cluster Configuration File...

Add...

Edit...

Remove

OS Username: grid

OS Password: ****

☐ User home is shared by the selected nodes

☐ Reuse private and public keys existing in the user home

Test

Setup

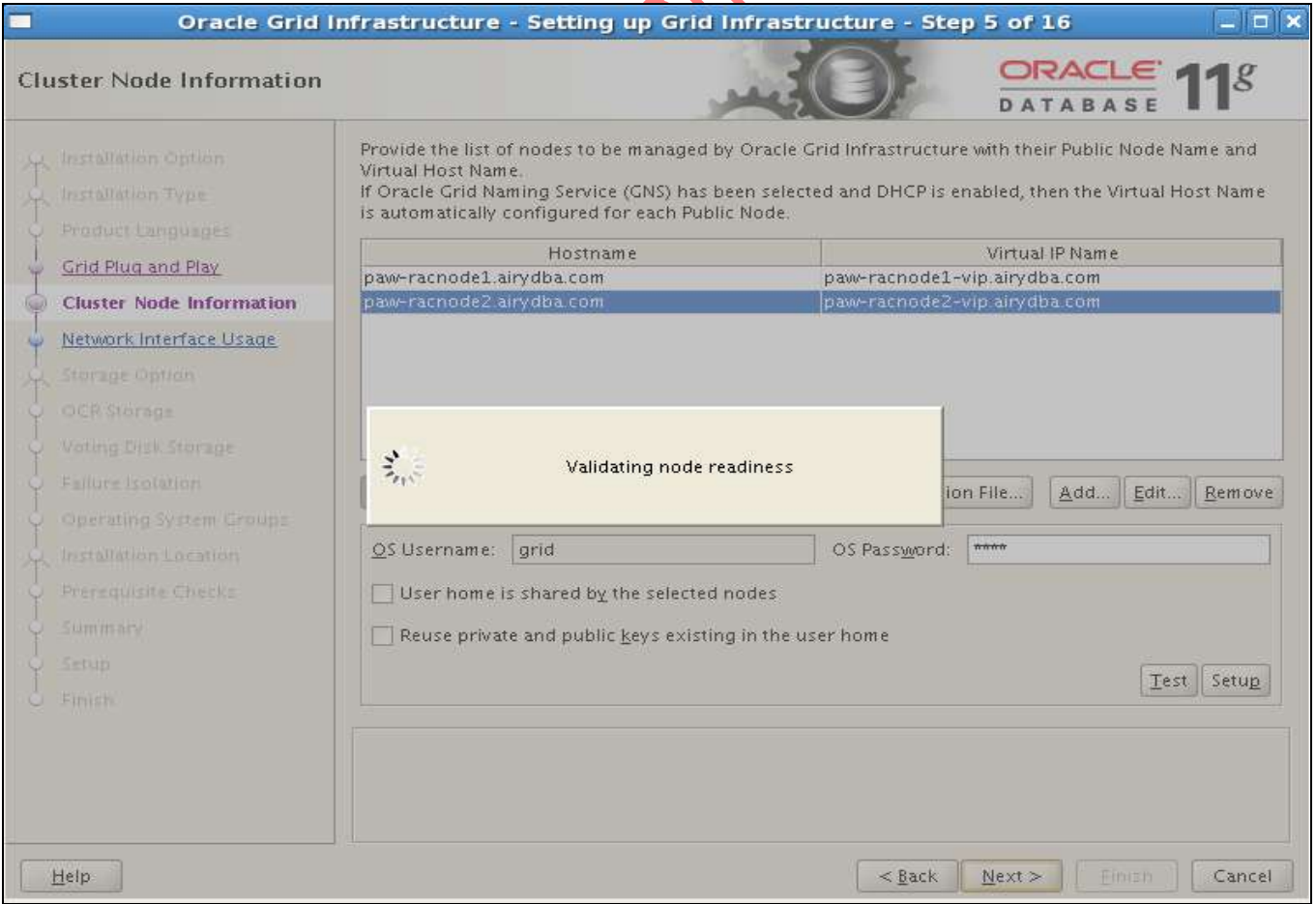
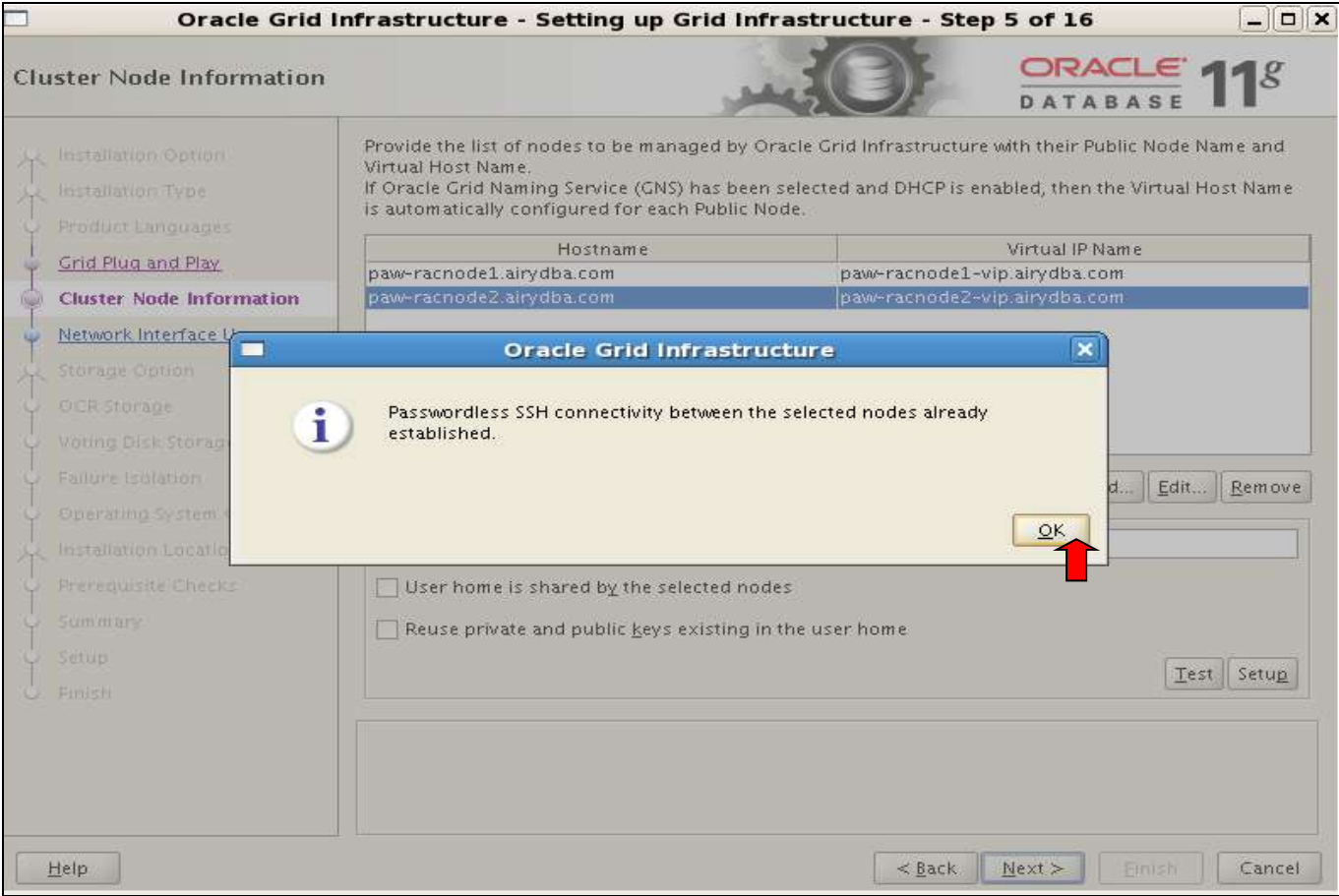
Help

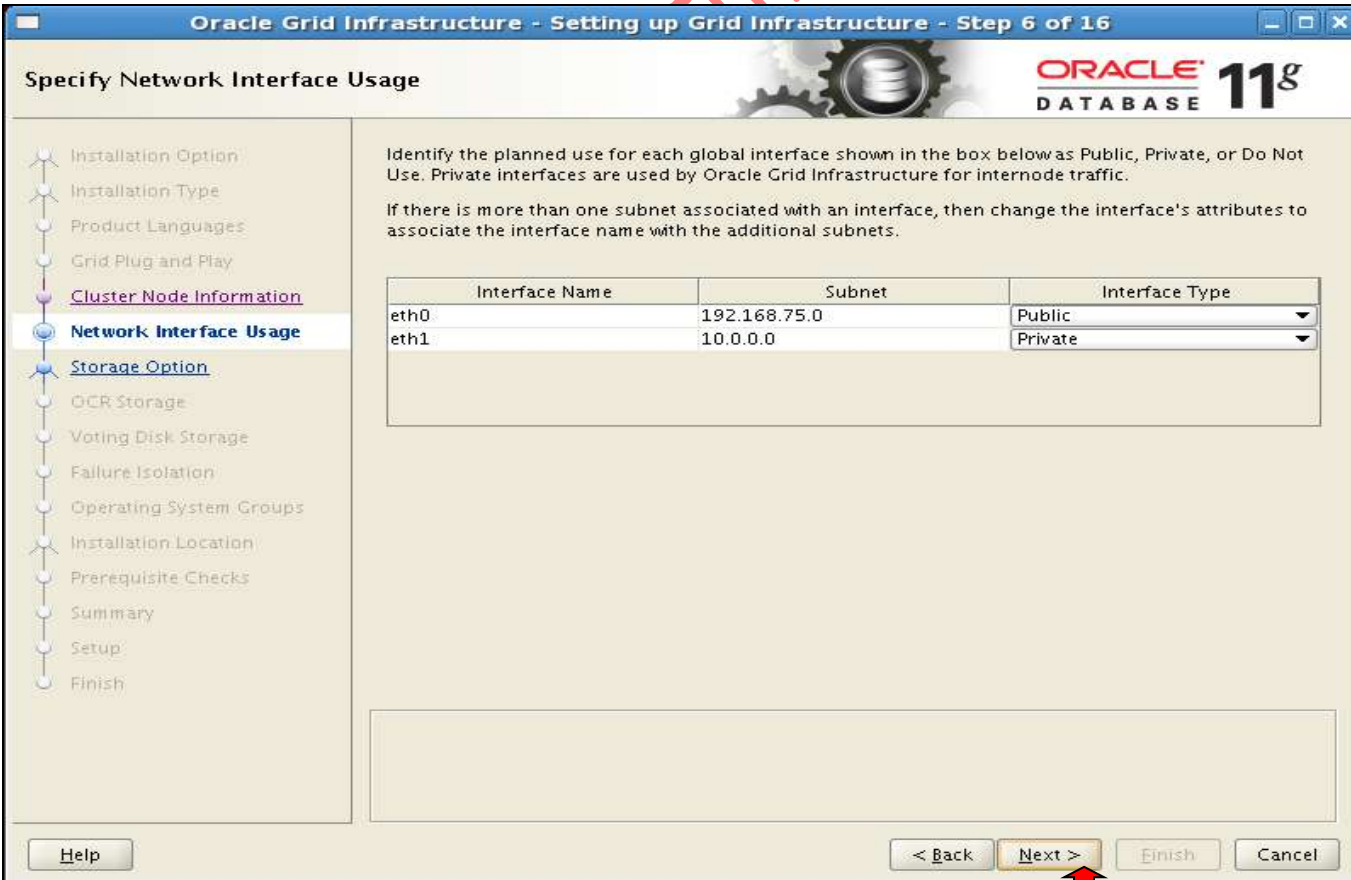
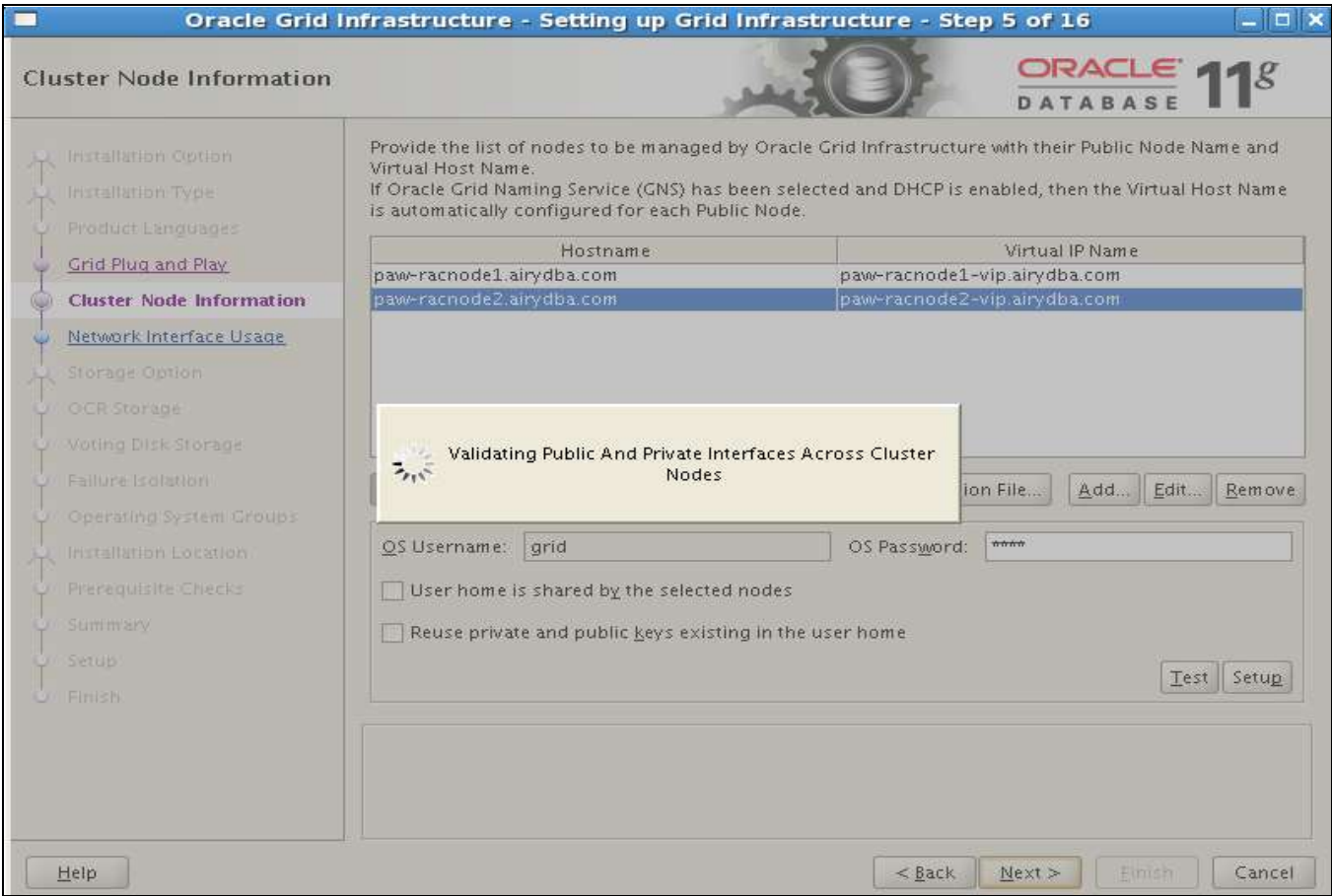
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Finish

Cancel





Oracle Grid Infrastructure - Setting up Grid Infrastructure - Step 6 of 16

Specify Network Interface Usage

Installation Option

Installation Type

Product Languages

Grid Plug and Play

Cluster Node Information

Network Interface Usage

Storage Option

OCR Storage

Voting Disk Storage

Failure Isolation

Operating System Groups

Installation Location

Prerequisite Checks

Summary

Setup

Finish

Identify the planned use for each global interface shown in the box below as Public, Private, or Do Not Use. Private interfaces are used by Oracle Grid Infrastructure for internode traffic.

If there is more than one subnet associated with an interface, then change the interface's attributes to associate the interface name with the additional subnets.

Interface Name	Subnet	Interface Type
eth0	192.168.75.0	Public
eth1	10.0.0.0	Private

Validating Public And Private Interfaces Across Cluster Nodes

Help

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Finish

Cancel

Oracle Grid Infrastructure - Setting up Grid Infrastructure - Step 7 of 16

Storage Option Information

Installation Option

Installation Type

Product Languages

Grid Plug and Play

Cluster Node Information

Network Interface Usage

Storage Option

OCR Storage

Voting Disk Storage

Failure Isolation

Operating System Groups

Installation Location

Prerequisite Checks

Summary

Setup

Finish

You can place Oracle Cluster Registry (OCR) disks and voting disks on ASM storage or on a file system.

☒ Automatic Storage Management (ASM)

Choose this option to configure OCR and voting disks on ASM storage.

☐ Shared File System

Choose this option to configure OCR and voting disks on an existing shared file system.

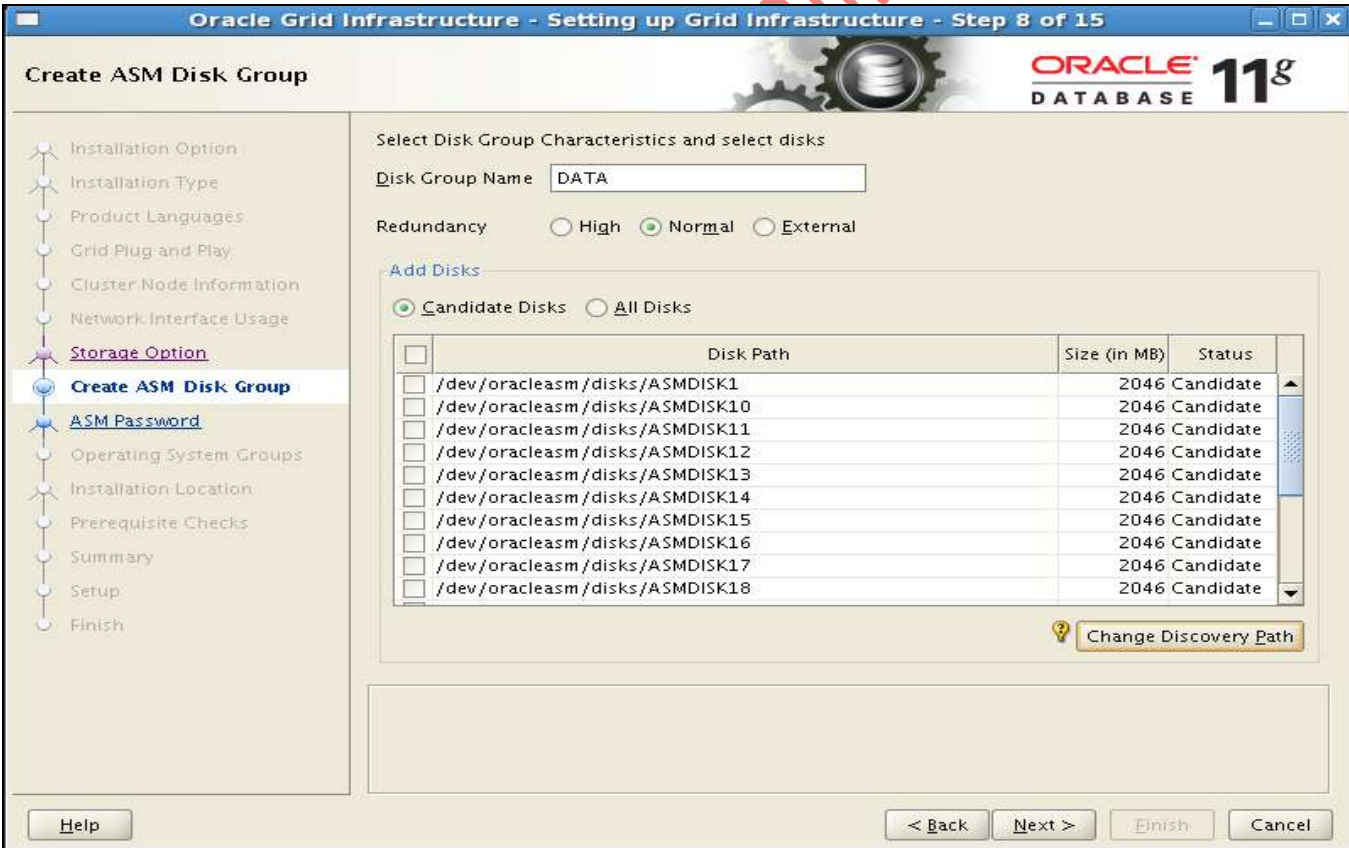
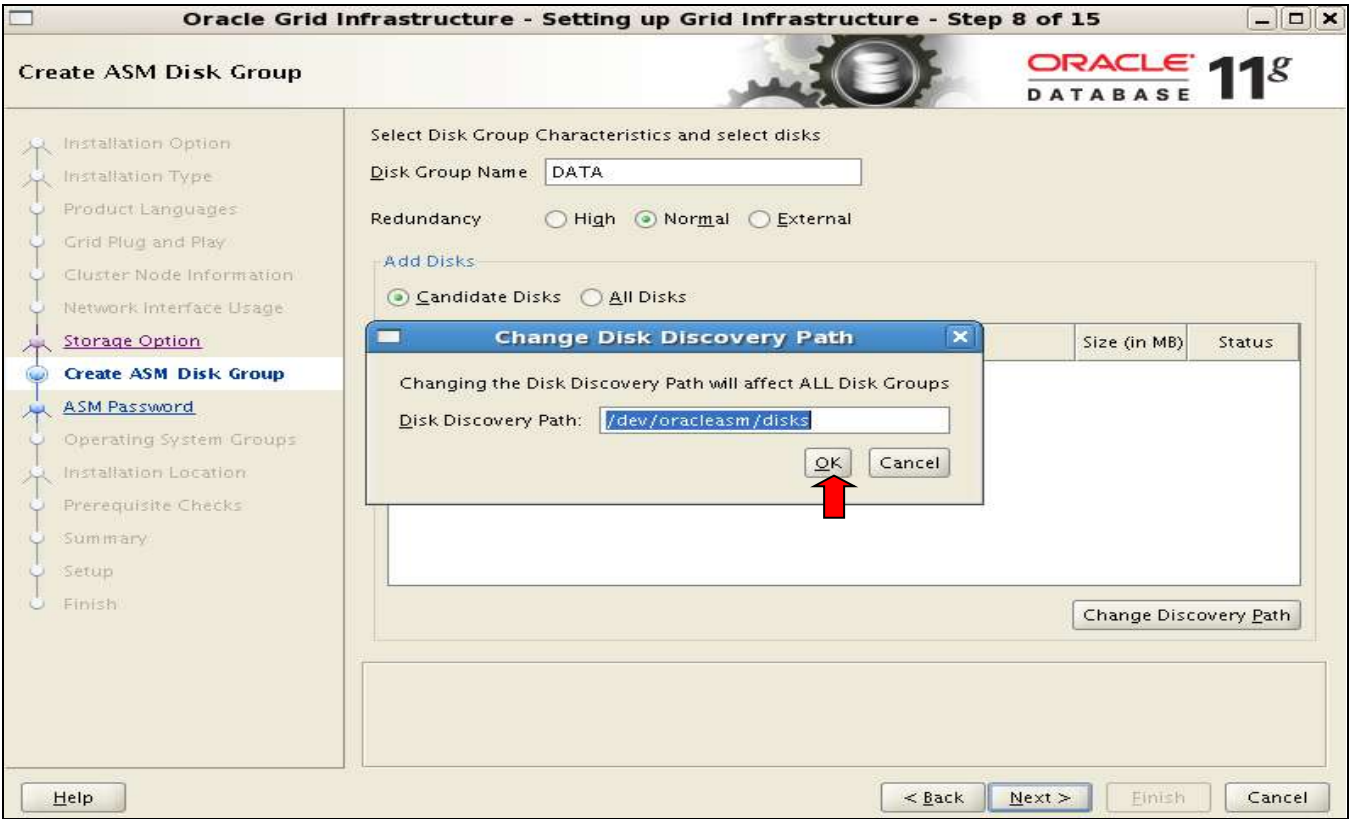
Help

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Finish

Cancel



Oracle Grid Infrastructure - Setting up Grid Infrastructure - Step 8 of 15

Create ASM Disk Group

Installation Option

Installation Type

Product Languages

Grid Plug and Play

Cluster Node Information

Network Interface Usage

Storage Option

Create ASM Disk Group

ASM Password

Operating System Groups

Installation Location

Prerequisite Checks

Summary

Setup

Finish

Select Disk Group Characteristics and select disks

Disk Group Name

Redundancy ☐ High ☒ Normal ☐ External

Add Disks

☒ Candidate Disks ☐ All Disks

	Disk Path	Size (in MB)	Status
☐	/dev/oracleasm/disks/ASMDISK16	2046	Candidate
☐	/dev/oracleasm/disks/ASMDISK17	2046	Candidate
☐	/dev/oracleasm/disks/ASMDISK18	2046	Candidate
☐	/dev/oracleasm/disks/ASMDISK19	2046	Candidate
☒	/dev/oracleasm/disks/ASMDISK2	2046	Candidate
☒	/dev/oracleasm/disks/ASMDISK3	2046	Candidate
☒	/dev/oracleasm/disks/ASMDISK4	2046	Candidate
☒	/dev/oracleasm/disks/ASMDISK5	2046	Candidate
☐	/dev/oracleasm/disks/ASMDISK6	2046	Candidate
☐	/dev/oracleasm/disks/ASMDISK7	2046	Candidate

Change Discovery Path

Help

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Next >

Finish

Cancel

Oracle Grid Infrastructure - Setting up Grid Infrastructure - Step 9 of 15

Specify ASM Password

Installation Option

Installation Type

Product Languages

Grid Plug and Play

Cluster Node Information

Network Interface Usage

Storage Option

Create ASM Disk Group

ASM Password

Operating System Groups

Installation Location

Prerequisite Checks

Summary

Setup

Finish

The new Automatic Storage Management (ASM) instance requires its own SYS user with SYSASM privileges for administration. Oracle recommends that you create a less privileged ASMSNMP user with SYSDBA privileges to monitor the ASM instance.

Specify the password for these user accounts.

☒ Use different passwords for these accounts

SYS

ASMSNMP

Password

Confirm Password

☐ Use same passwords for these accounts

Specify Password:

Confirm Password:

Help

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Next >

Finish

Cancel

Oracle Grid Infrastructure - Setting up Grid Infrastructure - Step 9 of 15

Specify ASM Password

Installation Option

Installation Type

Product Languages

Grid Plug and Play

Cluster Node Information

Network Interface Usage

Storage Option

Create ASM Disk Group

ASM Password

Operating System Groups

Installation Location

Prerequisite Checks

Summary

Setup

Finish

The new Automatic Storage Management (ASM) instance requires its own SYS user with SYSASM privileges for administration. Oracle recommends that you create a less privileged ASMSNMP user with SYSDBA privileges to monitor the ASM instance.

Specify the password for these user accounts.

☐ Use different passwords for these accounts

SYS

ASMSNMP

Password

Confirm Password

☒ Use same passwords for these accounts

Specify Password: *****

Confirm Password? *****

Messages:

Specify Password:[INS-30011] The password entered does not conform to the Oracle recommended standards.

Help

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Finish

Cancel

Oracle Grid Infrastructure - Setting up Grid Infrastructure - Step 9 of 15

Specify ASM Password

Installation Option

Installation Type

Product Languages

Grid Plug and Play

Cluster Node Information

Network Interface Usage

Storage Option

Create ASM Disk Group

ASM Password

Operating System Groups

Installation Location

Prerequisite Checks

Summary

Setup

Finish

The new Automatic Storage Management (ASM) instance requires its own SYS user with SYSASM privileges for administration. Oracle recommends that you create a less privileged ASMSNMP user with SYSDBA privileges to monitor the ASM instance.

Specify the password for these user accounts.

☐ Use different passwords for these accounts

Oracle Grid Infrastructure

[INS-30011] The password entered does not conform to the Oracle recommended standards.

[INS-30011] The password entered does not conform to the Oracle recommended standards.

Are you sure you want to continue?

Details

Yes

No

Messages:

Specify Password:[INS-30011] The password entered does not conform to the Oracle recommended standards.

Help

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Finish

Cancel

Oracle Grid Infrastructure - Setting up Grid Infrastructure - Step 10 of 16

Failure Isolation Support

Installation Option

Installation Type

Product Languages

Grid Plug and Play

Cluster Node Information

Network Interface Usage

Storage Option

Create ASM Disk Group

ASM Password

Failure Isolation

Operating System Groups

Installation Location

Prerequisite Checks

Summary

Setup

Finish

Choose one of the following Failure Isolation Support options.

☐ Use Intelligent Platform Management Interface (IPMI)

To ensure successful installation with IPMI enabled, ensure your IPMI drivers are properly installed and enabled.

User Name :

Password :

☒ Do not use Intelligent Platform Management Interface (IPMI)

Help

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Finish

Cancel

Oracle Grid Infrastructure - Setting up Grid Infrastructure - Step 11 of 16

Privileged Operating System Groups

Installation Option

Installation Type

Product Languages

Grid Plug and Play

Cluster Node Information

Network Interface Usage

Storage Option

Create ASM Disk Group

ASM Password

Failure Isolation

Operating System Groups

Installation Location

Prerequisite Checks

Summary

Setup

Finish

Select the name of the operating system group of which you are a member to be used for OS authentication to Automatic Storage Management (ASM).

ASM Database Administrator (OSDBA) Group

asmdba

ASM Instance Administration Operator (OSOPER) Group

asmoper

ASM Instance Administrator (OSASM) Group

asmadmin

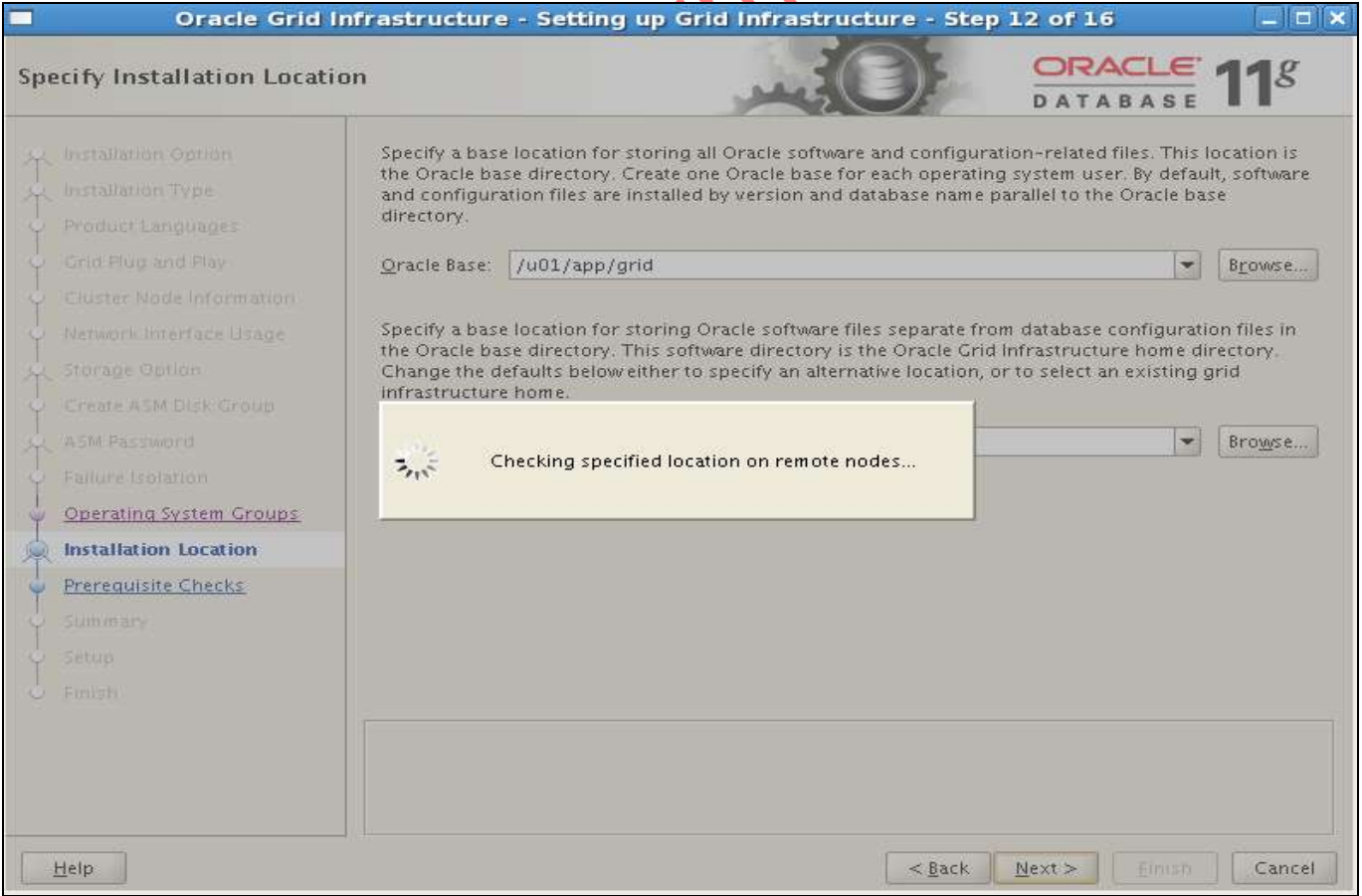
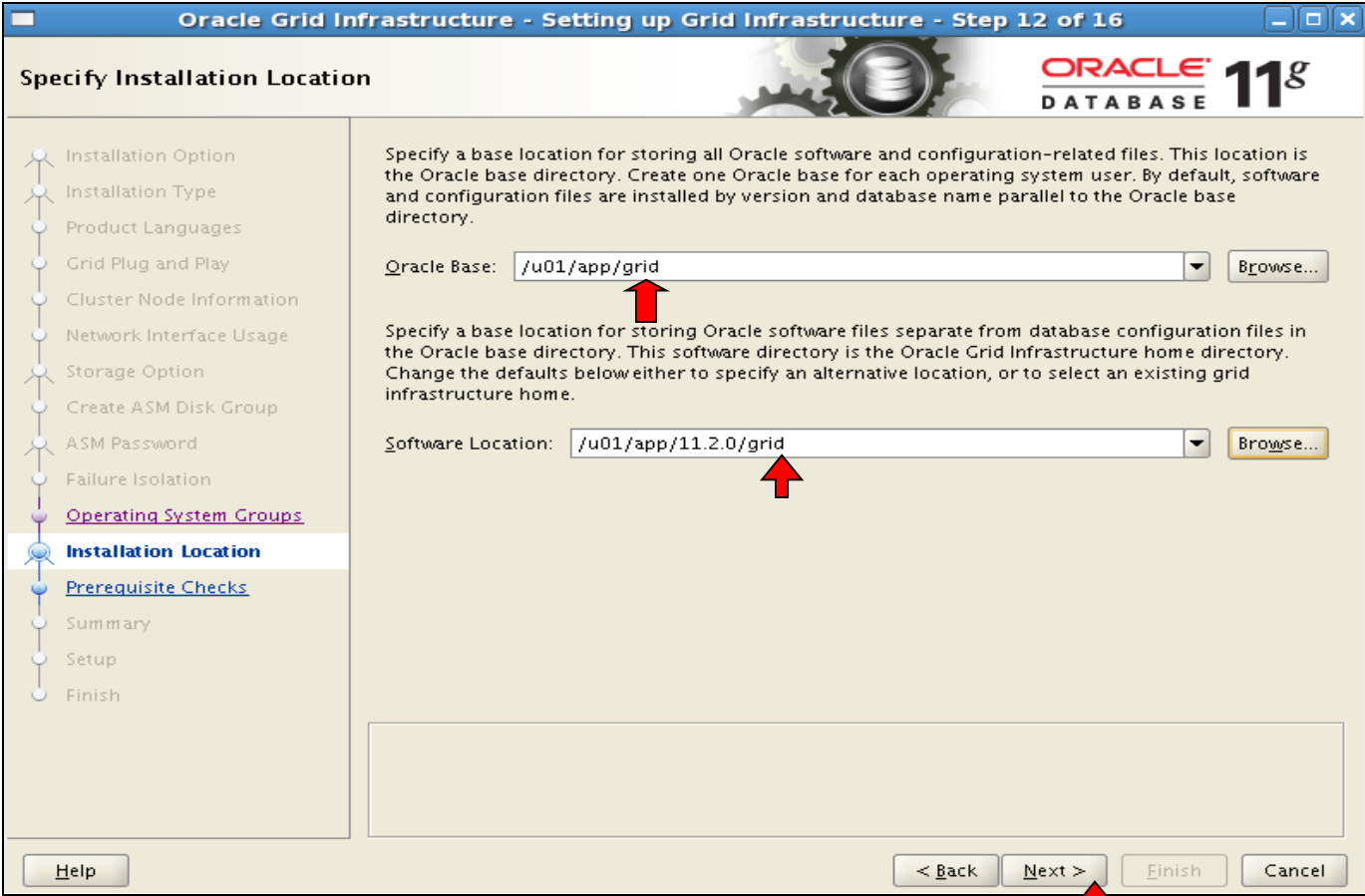
Help

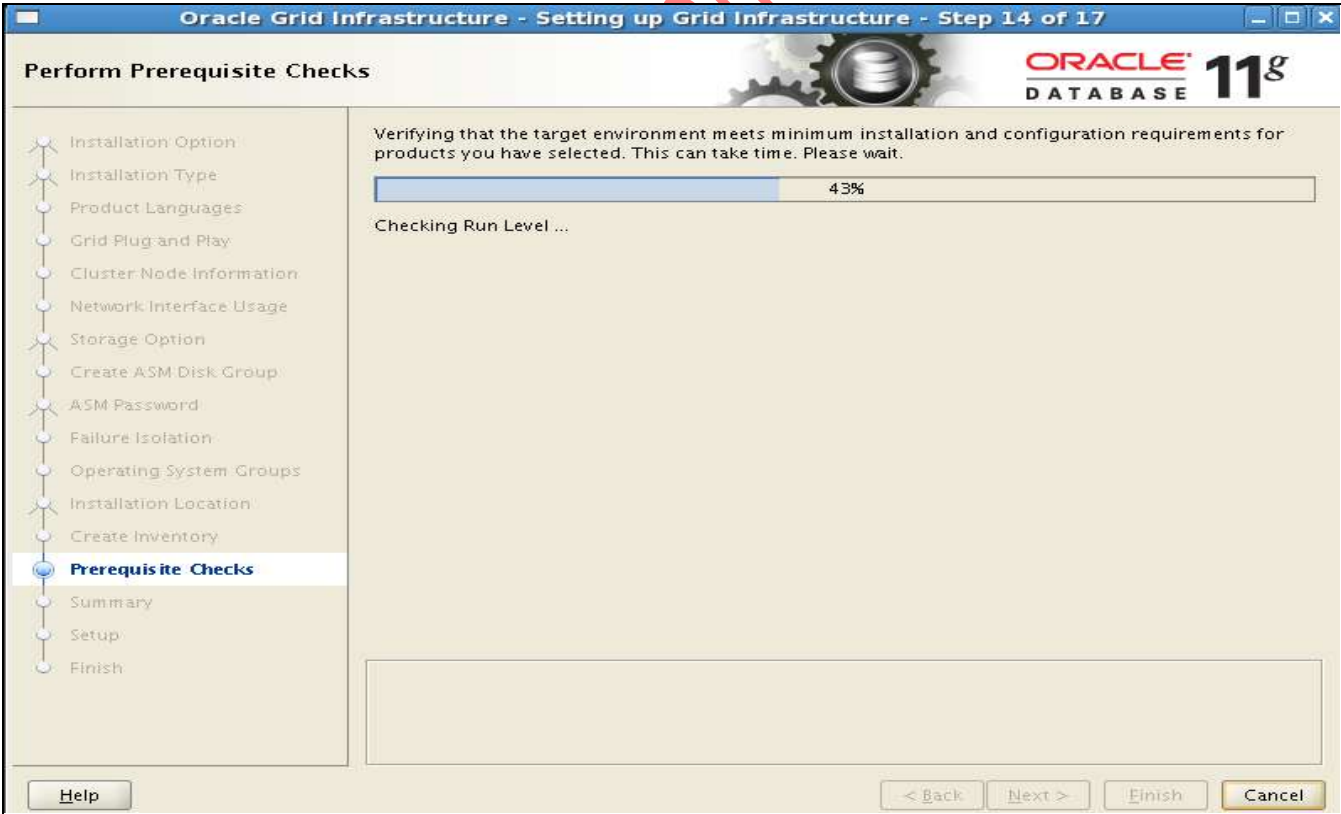
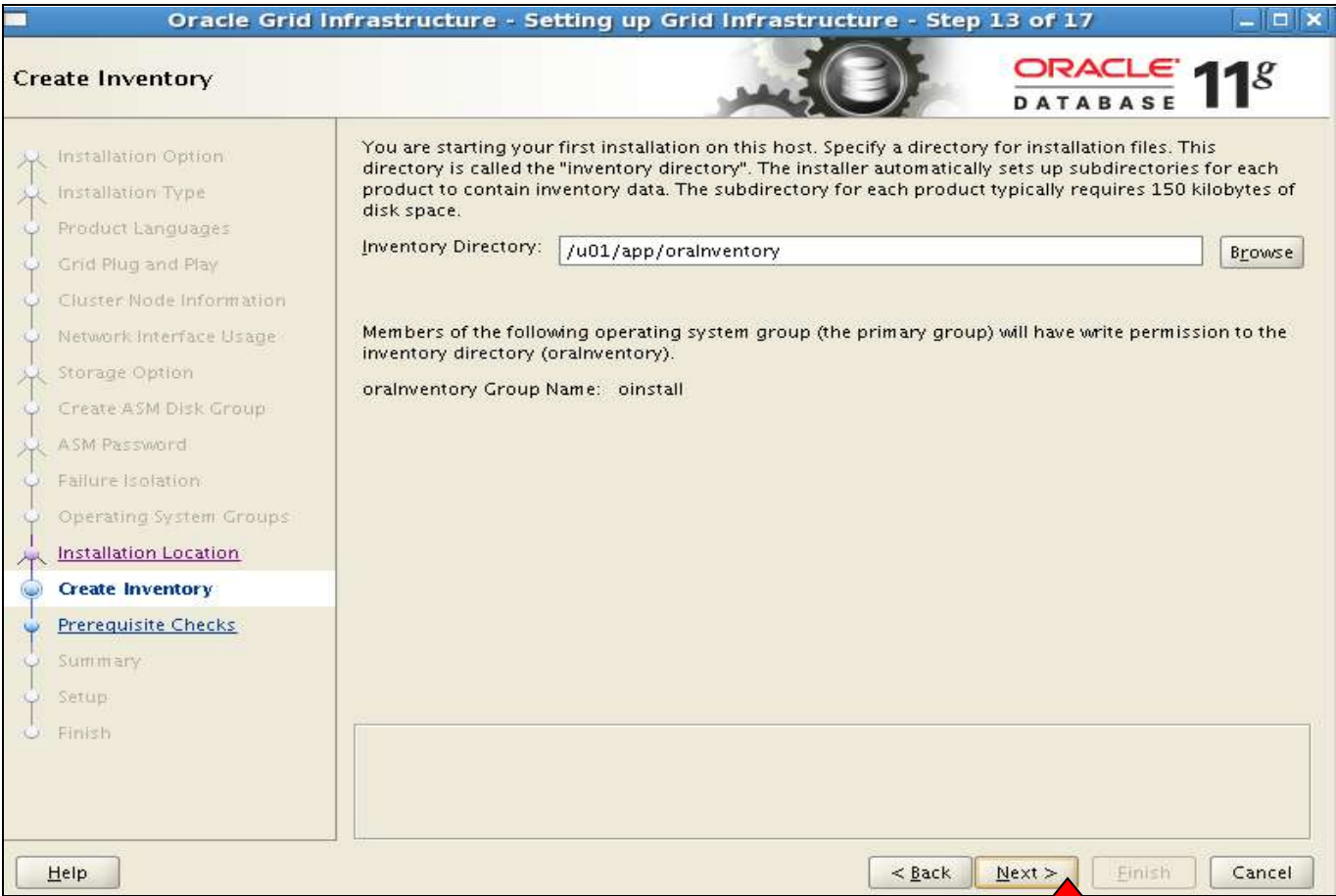
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Finish

Cancel





Oracle Grid Infrastructure - Setting up Grid Infrastructure - Step 15 of 17

Summary

Installation Option

Installation Type

Product Languages

Grid Plug and Play

Cluster Node Information

Network Interface Usage

Storage Option

Create ASM Disk Group

ASM Password

Failure Isolation

Operating System Groups

Installation Location

Create Inventory

Prerequisite Checks

Summary

Setup

Finish

Oracle Grid Infrastructure

Global Settings

Disk Space: required 2.95 GB available 22.8 GB

Install Option: Install and Configure Grid Infrastructure for a Cluster

Oracle base: /u01/app/grid

Oracle home: /u01/app/11.2.0/grid

Source Location: /u02/software/grid/install/./stage/products.xml

Inventory information

Inventory location: /u01/app/orainventory

Central inventory (orainventory) group:: oinstall

Grid Infrastructure Settings

Cluster Name: paw-rac-cluster

Local Node: paw-racnode1

Remote Node(s): paw-racnode2

SCAN Name: paw-rac01-scan.airydba.com

SCAN Port: 1521

Public Interfaces: eth0

Save Response File...

Help

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Next >

Finish

Cancel

Oracle Grid Infrastructure - Setting up Grid Infrastructure - Step 16 of 17

Setup

Installation Option

Installation Type

Product Languages

Grid Plug and Play

Cluster Node Information

Network Interface Usage

Storage Option

Create ASM Disk Group

ASM Password

Failure Isolation

Operating System Groups

Installation Location

Create Inventory

Prerequisite Checks

Summary

Setup

Finish

Progress

8%

Processing Sun JDK 1.5.0.17.0

Status

Install Grid Infrastructure for a Cluster

In Progress

• Prepare

Succeeded

• Copy files

Pending

• Link binaries

Pending

• Setup files

Pending

• Perform remote operations

Pending

Execute Root Scripts for Install Grid Infrastructure for a Cluster

Pending

Details

Retry

Skip

ORACLE 11g DATABASE

11g

Consolidate
Compress
Control

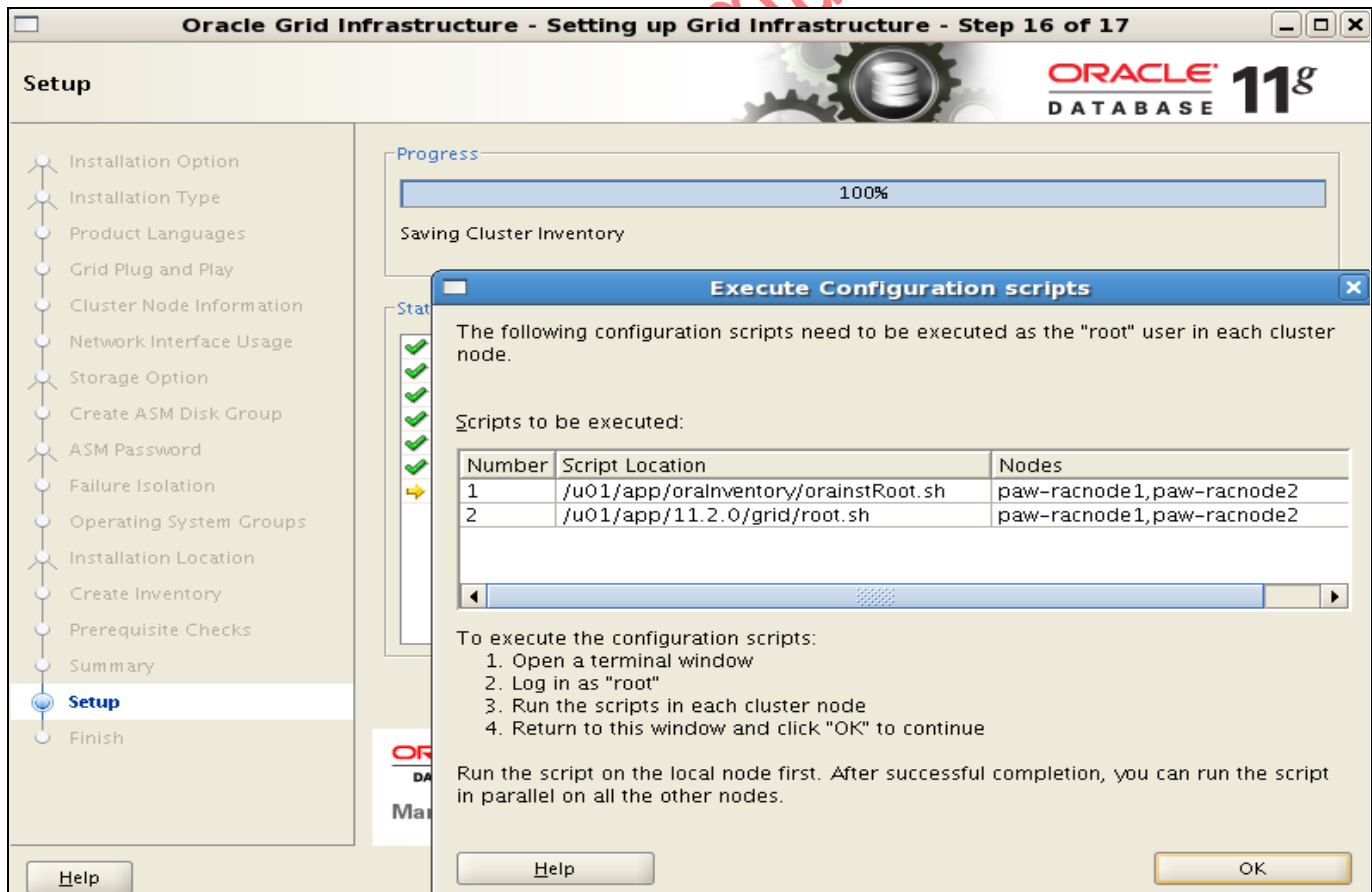
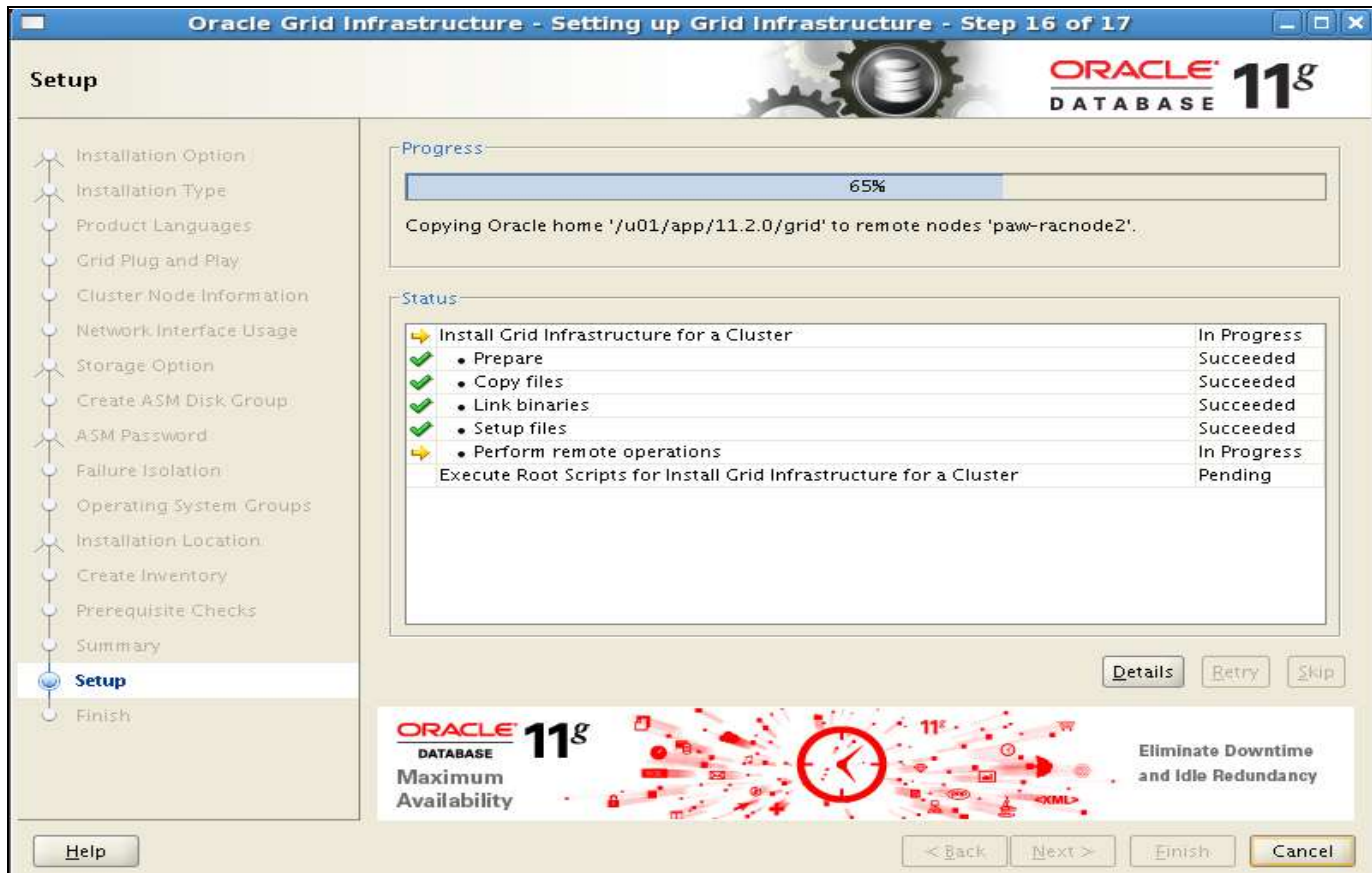
Help

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Next >

Finish

Cancel



Wait

Open a new Terminal and login as root user and run `orainstRoot.sh` and `root.sh` scripts from both the nodes (`paw-racnode1` and `paw-racnode2`) one by one.

[grid@paw-racnode1 ~]\$ su -

Password:

[root@paw-racnode1 ~]# /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@paw-racnode1 ~]# /u01/app/11.2.0/grid/root.sh

Running Oracle 11g root.sh script...

The following environment variables are set as:

ORACLE_OWNER= grid

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.sh script.

Now product-specific root actions will be performed.

2016-08-07 13:54:28: Parsing the host name

2016-08-07 13:54:28: Checking for super user privileges

2016-08-07 13:54:28: User has super user privileges

Using configuration parameter file: /u01/app/11.2.0/grid/crs/install/crsconfig_params

Creating trace directory

LOCAL ADD MODE

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

Operation 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 daemon to inittab
CRS-4123: Oracle High Availability Services has been started.
ohasd is starting
CRS-2672: Attempting to start 'ora.gipcd' on 'paw-racnode1'
CRS-2672: Attempting to start 'ora.mdnsd' on 'paw-racnode1'
CRS-2676: Start of 'ora.mdnsd' on 'paw-racnode1' succeeded
CRS-2676: Start of 'ora.gipcd' on 'paw-racnode1' succeeded
CRS-2672: Attempting to start 'ora.gpnpd' on 'paw-racnode1'
CRS-2676: Start of 'ora.gpnpd' on 'paw-racnode1' succeeded
CRS-2672: Attempting to start 'ora.cssdmonitor' on 'paw-racnode1'
CRS-2676: Start of 'ora.cssdmonitor' on 'paw-racnode1' succeeded
CRS-2672: Attempting to start 'ora.cssd' on 'paw-racnode1'
CRS-2672: Attempting to start 'ora.diskmon' on 'paw-racnode1'
CRS-2676: Start of 'ora.diskmon' on 'paw-racnode1' succeeded
CRS-2676: Start of 'ora.cssd' on 'paw-racnode1' succeeded
CRS-2672: Attempting to start 'ora.ctssd' on 'paw-racnode1'
CRS-2676: Start of 'ora.ctssd' on 'paw-racnode1' succeeded

```

ASM created and started successfully.

DiskGroup DATA created successfully.

```

clscfg: -install mode specified
Successfully accumulated necessary OCR keys.
Creating OCR keys for user 'root', privgrp 'root'...
Operation successful.
CRS-2672: Attempting to start 'ora.crsd' on 'paw-racnode1'
CRS-2676: Start of 'ora.crsd' on 'paw-racnode1' succeeded
CRS-4256: Updating the profile
Successful addition of voting disk 5602bcb2ef4f4fccbf9aa783e4152d61.
Successful addition of voting disk ace0c66391ff4fbbbf52b9093b72eb3e.
Successful addition of voting disk 691392814d314f21bf8d30819a04d03b.
Successfully replaced voting disk group with +DATA.
CRS-4256: Updating the profile
CRS-4266: Voting file(s) successfully replaced

```

##	STATE	File Universal Id	File Name	Disk group
1.	ONLINE	5602bcb2ef4f4fccbf9aa783e4152d61	((dev/oracleasm/disks/ASMDISK1)	[DATA]
2.	ONLINE	ace0c66391ff4fbbbf52b9093b72eb3e	((dev/oracleasm/disks/ASMDISK2)	[DATA]
3.	ONLINE	691392814d314f21bf8d30819a04d03b	((dev/oracleasm/disks/ASMDISK3)	[DATA]

Located 3 voting disk(s).

```

CRS-2673: Attempting to stop 'ora.crsd' on 'paw-racnode1'
CRS-2677: Stop of 'ora.crsd' on 'paw-racnode1' succeeded
CRS-2673: Attempting to stop 'ora.asm' on 'paw-racnode1'
CRS-2677: Stop of 'ora.asm' on 'paw-racnode1' succeeded
CRS-2673: Attempting to stop 'ora.ctssd' on 'paw-racnode1'
CRS-2677: Stop of 'ora.ctssd' on 'paw-racnode1' succeeded
CRS-2673: Attempting to stop 'ora.cssdmonitor' on 'paw-racnode1'
CRS-2677: Stop of 'ora.cssdmonitor' on 'paw-racnode1' succeeded
CRS-2673: Attempting to stop 'ora.cssd' on 'paw-racnode1'
CRS-2677: Stop of 'ora.cssd' on 'paw-racnode1' succeeded
CRS-2673: Attempting to stop 'ora.gpnpd' on 'paw-racnode1'
CRS-2677: Stop of 'ora.gpnpd' on 'paw-racnode1' succeeded
CRS-2673: Attempting to stop 'ora.gipcd' on 'paw-racnode1'
CRS-2677: Stop of 'ora.gipcd' on 'paw-racnode1' succeeded
CRS-2673: Attempting to stop 'ora.mdnsd' on 'paw-racnode1'
CRS-2677: Stop of 'ora.mdnsd' on 'paw-racnode1' succeeded
CRS-2672: Attempting to start 'ora.mdnsd' on 'paw-racnode1'

```

CRS-2676: Start of 'ora.mdnsd' on 'paw-racnode1' succeeded
CRS-2672: Attempting to start 'ora.gipcd' on 'paw-racnode1'
CRS-2676: Start of 'ora.gipcd' on 'paw-racnode1' succeeded
CRS-2672: Attempting to start 'ora.gpnpd' on 'paw-racnode1'
CRS-2676: Start of 'ora.gpnpd' on 'paw-racnode1' succeeded
CRS-2672: Attempting to start 'ora.cssdmonitor' on 'paw-racnode1'
CRS-2676: Start of 'ora.cssdmonitor' on 'paw-racnode1' succeeded
CRS-2672: Attempting to start 'ora.cssd' on 'paw-racnode1'
CRS-2672: Attempting to start 'ora.diskmon' on 'paw-racnode1'
CRS-2676: Start of 'ora.diskmon' on 'paw-racnode1' succeeded
CRS-2676: Start of 'ora.cssd' on 'paw-racnode1' succeeded
CRS-2672: Attempting to start 'ora.ctssd' on 'paw-racnode1'
CRS-2676: Start of 'ora.ctssd' on 'paw-racnode1' succeeded
CRS-2672: Attempting to start 'ora.asm' on 'paw-racnode1'
CRS-2676: Start of 'ora.asm' on 'paw-racnode1' succeeded
CRS-2672: Attempting to start 'ora.crsd' on 'paw-racnode1'
CRS-2676: Start of 'ora.crsd' on 'paw-racnode1' succeeded
CRS-2672: Attempting to start 'ora.evmd' on 'paw-racnode1'
CRS-2676: Start of 'ora.evmd' on 'paw-racnode1' succeeded
CRS-2672: Attempting to start 'ora.asm' on 'paw-racnode1'
CRS-2676: Start of 'ora.asm' on 'paw-racnode1' succeeded
CRS-2672: Attempting to start 'ora.DATA.dg' on 'paw-racnode1'
CRS-2676: Start of 'ora.DATA.dg' on 'paw-racnode1' succeeded
CRS-2672: Attempting to start 'ora.registry.acfs' on 'paw-racnode1'
CRS-2676: Start of 'ora.registry.acfs' on 'paw-racnode1' succeeded

paw-racnode1 2016/08/07 14:01:10 /u01/app/11.2.0/grid/cdata/paw-racnode1/backup_20160807_140110.olr
Preparing packages for installation...
cvuqdisk-1.0.7-1
Configure Oracle Grid Infrastructure for a Cluster ... succeeded
Updating inventory properties for clusterware
Starting Oracle Universal Installer...

Checking swap space: must be greater than 500 MB. Actual 4094 MB Passed
The inventory pointer is located at /etc/oraInst.loc
The inventory is located at /u01/app/oraInventory
'UpdateNodeList' was successful.
You have new mail in /var/spool/mail/root
[root@paw-racnode1 ~]#

[grid@paw-racnode2 ~]\$ su -

Password:

[root@paw-racnode2 ~]# /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.
You have new mail in /var/spool/mail/root

[root@paw-racnode2 ~]# /u01/app/11.2.0/grid/root.sh

Running Oracle 11g root.sh script...

The following environment variables are set as:
ORACLE_OWNER= grid

```
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.sh script.
```

```
Now product-specific root actions will be performed.
```

```
2016-08-07 14:05:03: Parsing the host name
```

```
2016-08-07 14:05:03: Checking for super user privileges
```

```
2016-08-07 14:05:03: User has super user privileges
```

```
Using configuration parameter file: /u01/app/11.2.0/grid/crs/install/crsconfig_params
```

```
Creating trace directory
```

```
LOCAL ADD MODE
```

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

```
Operation successful.
```

```
Adding daemon to inittab
```

```
CRS-4123: Oracle High Availability Services has been started.
```

```
ohasd is starting
```

```
CRS-4402: The CSS daemon was started in exclusive mode but found an active CSS daemon  
on node paw-racnode1, number 1, and is terminating
```

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

```
CRS-2672: Attempting to start 'ora.mdnsd' on 'paw-racnode2'
```

```
CRS-2676: Start of 'ora.mdnsd' on 'paw-racnode2' succeeded
```

```
CRS-2672: Attempting to start 'ora.gipcd' on 'paw-racnode2'
```

```
CRS-2676: Start of 'ora.gipcd' on 'paw-racnode2' succeeded
```

```
CRS-2672: Attempting to start 'ora.gpnpd' on 'paw-racnode2'
```

```
CRS-2676: Start of 'ora.gpnpd' on 'paw-racnode2' succeeded
```

```
CRS-2672: Attempting to start 'ora.cssdmonitor' on 'paw-racnode2'
```

```
CRS-2676: Start of 'ora.cssdmonitor' on 'paw-racnode2' succeeded
```

```
CRS-2672: Attempting to start 'ora.cssd' on 'paw-racnode2'
```

```
CRS-2672: Attempting to start 'ora.diskmon' on 'paw-racnode2'
```

```
CRS-2676: Start of 'ora.diskmon' on 'paw-racnode2' succeeded
```

```
CRS-2676: Start of 'ora.cssd' on 'paw-racnode2' succeeded
```

```
CRS-2672: Attempting to start 'ora.ctssd' on 'paw-racnode2'
```

```
CRS-2676: Start of 'ora.ctssd' on 'paw-racnode2' succeeded
```

```
CRS-2672: Attempting to start 'ora.drivers.acfs' on 'paw-racnode2'
```

```
CRS-2676: Start of 'ora.drivers.acfs' on 'paw-racnode2' succeeded
```

```
CRS-2672: Attempting to start 'ora.asm' on 'paw-racnode2'
```

```
CRS-2676: Start of 'ora.asm' on 'paw-racnode2' succeeded
```

```
CRS-2672: Attempting to start 'ora.crsd' on 'paw-racnode2'
```

```
CRS-2676: Start of 'ora.crsd' on 'paw-racnode2' succeeded
```

```
CRS-2672: Attempting to start 'ora.evmd' on 'paw-racnode2'
```

```
CRS-2676: Start of 'ora.evmd' on 'paw-racnode2' succeeded
```

```
paw-racnode2      2016/08/07 14:11:39      /u01/app/11.2.0/grid/cdata/paw-  
racnode2/backup_20160807_141139.olr
```

```
Preparing packages for installation...
```

```
cvuqdisk-1.0.7-1
```

```
Configure Oracle Grid Infrastructure for a Cluster ... succeeded
```

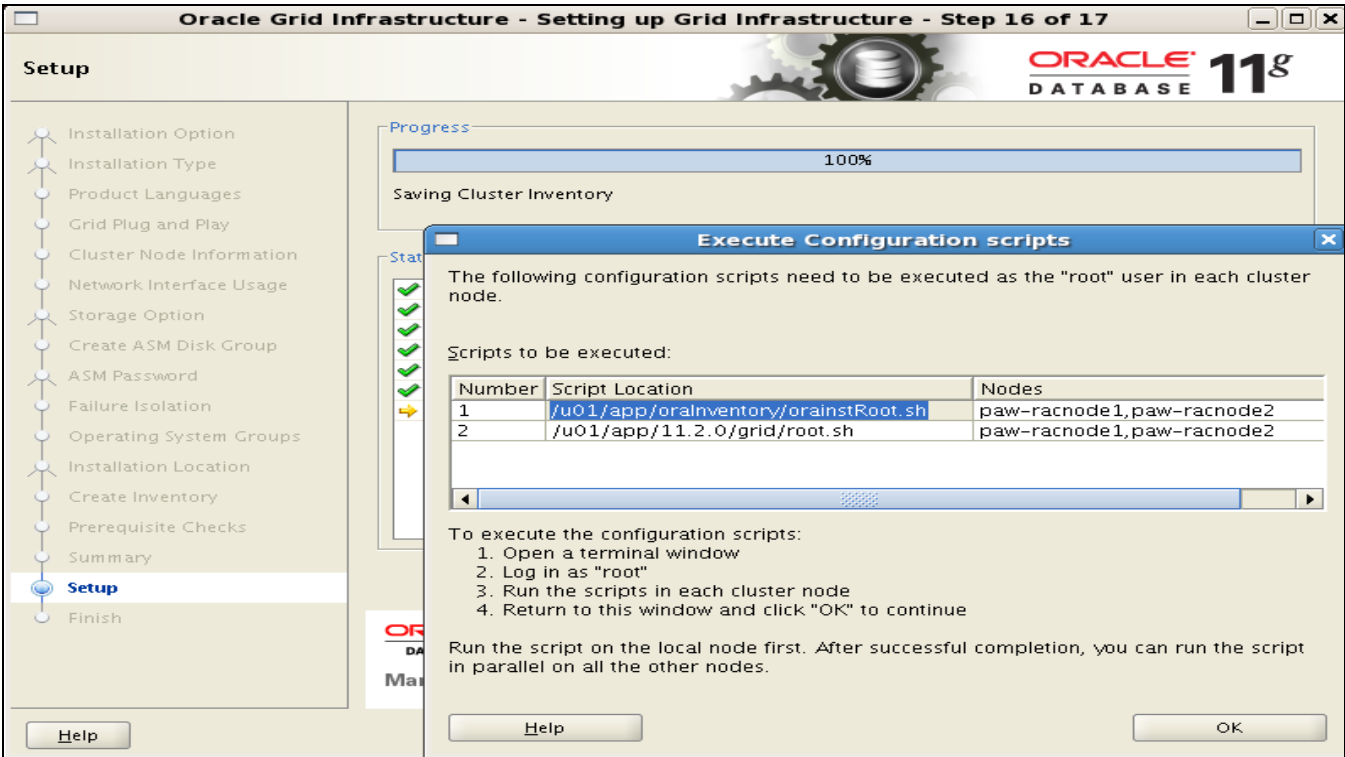
```
Updating inventory properties for clusterware
```

```
Starting Oracle Universal Installer...
```

```
Checking swap space: must be greater than 500 MB.      Actual 4094 MB      Passed
```

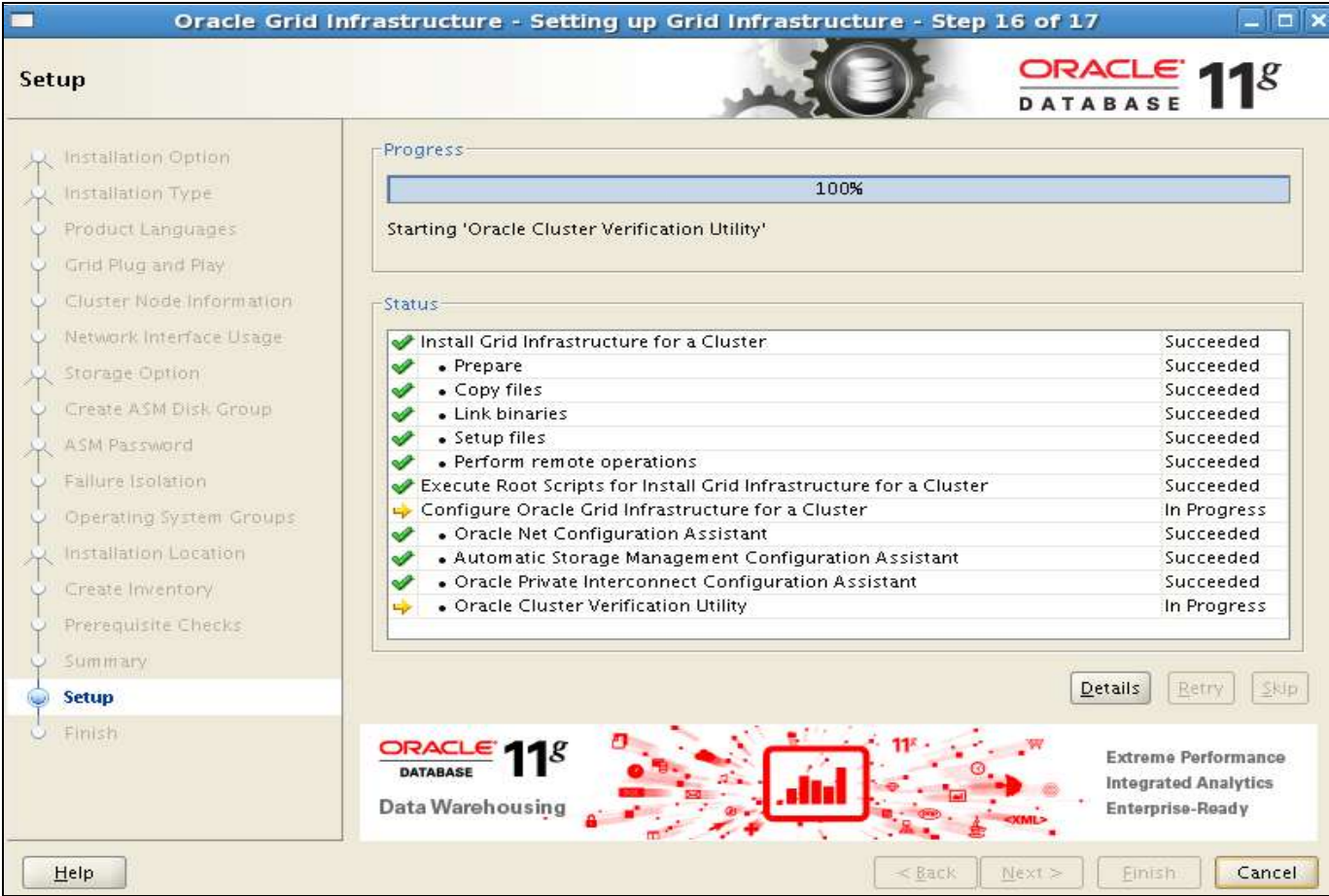
The inventory pointer is located at /etc/oraInst.loc
The inventory is located at /u01/app/oraInventory
'UpdateNodeList' was successful.

[root@paw-racnode2 ~]#



Now Click on OK Button.





```
grid@paw-racnode1:~  
File Edit View Terminal Tabs Help  
[grid@paw-racnode1 ~]$ crsctl check cluster  
CRS-4537: Cluster Ready Services is online  
CRS-4529: Cluster Synchronization Services is online  
CRS-4533: Event Manager is online  
[grid@paw-racnode1 ~]$ crsctl check cluster -all  
*****  
paw-racnode1:  
CRS-4537: Cluster Ready Services is online  
CRS-4529: Cluster Synchronization Services is online  
CRS-4533: Event Manager is online  
*****  
paw-racnode2:  
CRS-4537: Cluster Ready Services is online  
CRS-4529: Cluster Synchronization Services is online  
CRS-4533: Event Manager is online  
*****  
[grid@paw-racnode1 ~]$
```

[grid@paw-racnode1 ~]\$ crsctl stat res -t

NAME	TARGET	STATE	SERVER	STATE_DETAILS
Local Resources				
ora.DATA.dg	ONLINE	ONLINE	paw-racnode1	
	ONLINE	ONLINE	paw-racnode2	
ora.LISTENER.lsnr	ONLINE	ONLINE	paw-racnode1	
	ONLINE	ONLINE	paw-racnode2	
ora.asm	ONLINE	ONLINE	paw-racnode1	Started
	ONLINE	ONLINE	paw-racnode2	Started
ora.eons	ONLINE	ONLINE	paw-racnode1	
	ONLINE	ONLINE	paw-racnode2	
ora.gsd	OFFLINE	OFFLINE	paw-racnode1	
	OFFLINE	OFFLINE	paw-racnode2	
ora.net1.network	ONLINE	ONLINE	paw-racnode1	
	ONLINE	ONLINE	paw-racnode2	
ora.ons	ONLINE	ONLINE	paw-racnode1	
	ONLINE	ONLINE	paw-racnode2	
ora.registry.acfs				

	ONLINE	ONLINE	paw-racnode1
	ONLINE	ONLINE	paw-racnode2

Cluster Resources

ora.LISTENER_SCAN1.lsnr			
1	ONLINE	ONLINE	paw-racnode2
ora.LISTENER_SCAN2.lsnr			
1	ONLINE	ONLINE	paw-racnode1
ora.LISTENER_SCAN3.lsnr			
1	ONLINE	ONLINE	paw-racnode1
ora.oc4j			
1	OFFLINE	OFFLINE	
ora.paw-racnode1.vip			
1	ONLINE	ONLINE	paw-racnode1
ora.paw-racnode2.vip			
1	ONLINE	ONLINE	paw-racnode2
ora.scan1.vip			
1	ONLINE	ONLINE	paw-racnode2
ora.scan2.vip			
1	ONLINE	ONLINE	paw-racnode1
ora.scan3.vip			
1	ONLINE	ONLINE	paw-racnode1

[grid@paw-racnode1 ~]\$ crsctl stat res -l

NAME=ora.DATA.dg
 TYPE=ora.diskgroup.type
 CARDINALITY_ID=paw-racnode1
 DEGREE_ID=1
 TARGET=ONLINE
 STATE=ONLINE on paw-racnode1

CARDINALITY_ID=paw-racnode2
 DEGREE_ID=1
 TARGET=ONLINE
 STATE=ONLINE on paw-racnode2

NAME=ora.LISTENER.lsnr
 TYPE=ora.listener.type
 CARDINALITY_ID=paw-racnode1
 DEGREE_ID=1
 TARGET=ONLINE
 STATE=ONLINE on paw-racnode1

CARDINALITY_ID=paw-racnode2
 DEGREE_ID=1
 TARGET=ONLINE
 STATE=ONLINE on paw-racnode2

NAME=ora.LISTENER_SCAN1.lsnr
 TYPE=ora.scan_listener.type
 CARDINALITY_ID=1
 DEGREE_ID=1
 TARGET=ONLINE
 STATE=ONLINE on paw-racnode2

NAME=ora.LISTENER_SCAN2.lsnr
 TYPE=ora.scan_listener.type

CARDINALITY_ID=1
DEGREE_ID=1
TARGET=ONLINE
STATE=ONLINE on paw-racnode1

NAME=ora.LISTENER_SCAN3.lsnr
TYPE=ora.scan_listener.type
CARDINALITY_ID=1
DEGREE_ID=1
TARGET=ONLINE
STATE=ONLINE on paw-racnode1

NAME=ora.asm
TYPE=ora.asm.type
CARDINALITY_ID=paw-racnode1
DEGREE_ID=1
TARGET=ONLINE
STATE=ONLINE on paw-racnode1

CARDINALITY_ID=paw-racnode2
DEGREE_ID=1
TARGET=ONLINE
STATE=ONLINE on paw-racnode2

NAME=ora.eons
TYPE=ora.eons.type
CARDINALITY_ID=paw-racnode1
DEGREE_ID=1
TARGET=ONLINE
STATE=ONLINE on paw-racnode1

CARDINALITY_ID=paw-racnode2
DEGREE_ID=1
TARGET=ONLINE
STATE=ONLINE on paw-racnode2

NAME=ora.gsd
TYPE=ora.gsd.type
CARDINALITY_ID=paw-racnode1
DEGREE_ID=1
TARGET=OFFLINE
STATE=OFFLINE

CARDINALITY_ID=paw-racnode2
DEGREE_ID=1
TARGET=OFFLINE
STATE=OFFLINE

NAME=ora.net1.network
TYPE=ora.network.type
CARDINALITY_ID=paw-racnode1
DEGREE_ID=1
TARGET=ONLINE
STATE=ONLINE on paw-racnode1

CARDINALITY_ID=paw-racnode2
DEGREE_ID=1
TARGET=ONLINE
STATE=ONLINE on paw-racnode2

```
NAME=ora.oc4j
TYPE=ora.oc4j.type
CARDINALITY_ID=1
DEGREE_ID=1
TARGET=OFFLINE
STATE=OFFLINE
```

```
NAME=ora.ons
TYPE=ora.ons.type
CARDINALITY_ID=paw-racnode1
DEGREE_ID=1
TARGET=ONLINE
STATE=ONLINE on paw-racnode1
```

```
CARDINALITY_ID=paw-racnode2
DEGREE_ID=1
TARGET=ONLINE
STATE=ONLINE on paw-racnode2
```

```
NAME=ora.paw-racnode1.vip
TYPE=ora.cluster_vip_net1.type
CARDINALITY_ID=1
DEGREE_ID=1
TARGET=ONLINE
STATE=ONLINE on paw-racnode1
```

```
NAME=ora.paw-racnode2.vip
TYPE=ora.cluster_vip_net1.type
CARDINALITY_ID=1
DEGREE_ID=1
TARGET=ONLINE
STATE=ONLINE on paw-racnode2
```

```
NAME=ora.registry.acfs
TYPE=ora.registry.acfs.type
CARDINALITY_ID=paw-racnode1
DEGREE_ID=1
TARGET=ONLINE
STATE=ONLINE on paw-racnode1
```

```
CARDINALITY_ID=paw-racnode2
DEGREE_ID=1
TARGET=ONLINE
STATE=ONLINE on paw-racnode2
```

```
NAME=ora.scan1.vip
TYPE=ora.scan_vip.type
CARDINALITY_ID=1
DEGREE_ID=1
TARGET=ONLINE
STATE=ONLINE on paw-racnode2
```

```
NAME=ora.scan2.vip
TYPE=ora.scan_vip.type
CARDINALITY_ID=1
DEGREE_ID=1
TARGET=ONLINE
STATE=ONLINE on paw-racnode1
```

```
NAME=ora.scan3.vip
TYPE=ora.scan_vip.type
CARDINALITY_ID=1
DEGREE_ID=1
TARGET=ONLINE
STATE=ONLINE on paw-racnode1
```

```
[grid@paw-racnode1 ~]$ crs_stat -t
```

Name	Type	Target	State	Host
ora.DATA.dg	ora....up.type	ONLINE	ONLINE	paw-...ode1
ora....ER.lsnr	ora....er.type	ONLINE	ONLINE	paw-...ode1
ora....N1.lsnr	ora....er.type	ONLINE	ONLINE	paw-...ode2
ora....N2.lsnr	ora....er.type	ONLINE	ONLINE	paw-...ode1
ora....N3.lsnr	ora....er.type	ONLINE	ONLINE	paw-...ode1
ora.asm	ora.asm.type	ONLINE	ONLINE	paw-...ode1
ora.eons	ora.eons.type	ONLINE	ONLINE	paw-...ode1
ora.gsd	ora.gsd.type	OFFLINE	OFFLINE	
ora....network	ora....rk.type	ONLINE	ONLINE	paw-...ode1
ora.oc4j	ora.oc4j.type	OFFLINE	OFFLINE	
ora.ons	ora.ons.type	ONLINE	ONLINE	paw-...ode1
ora....SM1.asm	application	ONLINE	ONLINE	paw-...ode1
ora....E1.lsnr	application	ONLINE	ONLINE	paw-...ode1
ora....de1.gsd	application	OFFLINE	OFFLINE	
ora....de1.ons	application	ONLINE	ONLINE	paw-...ode1
ora....de1.vip	ora....t1.type	ONLINE	ONLINE	paw-...ode1
ora....SM2.asm	application	ONLINE	ONLINE	paw-...ode2
ora....E2.lsnr	application	ONLINE	ONLINE	paw-...ode2
ora....de2.gsd	application	OFFLINE	OFFLINE	
ora....de2.ons	application	ONLINE	ONLINE	paw-...ode2
ora....de2.vip	ora....t1.type	ONLINE	ONLINE	paw-...ode2
ora....ry.acfs	ora....fs.type	ONLINE	ONLINE	paw-...ode1
ora.scan1.vip	ora....ip.type	ONLINE	ONLINE	paw-...ode2
ora.scan2.vip	ora....ip.type	ONLINE	ONLINE	paw-...ode1
ora.scan3.vip	ora....ip.type	ONLINE	ONLINE	paw-...ode1