

Adding a new node to an existing cluster:

```
[grid@paw-racnode1 ~]$ cluvfy stage -post hwos -n paw-racnode3
```

Performing post-checks for hardware and operating system setup

Checking node reachability...

Node reachability check passed from node "paw-racnode1"

Checking user equivalence...

User equivalence check passed for user "grid"

Checking node connectivity...

Checking hosts config file...

Verification of the hosts config file successful

Node connectivity passed for subnet "192.168.75.0" with node(s) paw-racnode3

TCP connectivity check passed for subnet "192.168.75.0"

Node connectivity passed for subnet "10.0.0.0" with node(s) paw-racnode3

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

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

paw-racnode3 eth1:10.0.0.3

Node connectivity check passed

Check for multiple users with UID value 0 passed

Post-check for hardware and operating system setup was successful.

[grid@paw-racnode1 ~]\$ cluvfy comp peer -refnode paw-racnode1 -n paw-racnode3 -orainv oinstall -osdba asmdba -verbose

Verifying peer compatibility

Checking peer compatibility...

Compatibility check: Physical memory [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
paw-racnode3	2.45GB (2568496.0KB)	2.45GB (2568496.0KB)	matched

Physical memory check passed

Compatibility check: Available memory [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
paw-racnode3	2.16GB (2261128.0KB)	1.13GB (1186864.0KB)	mismatched

Available memory check failed

Compatibility check: Swap space [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
paw-racnode3	4.4GB (4618648.0KB)	4.4GB (4618648.0KB)	matched

Swap space check passed

Compatibility check: Free disk space for "/tmp" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
paw-racnode3	3.78GB (3959808.0KB)	3.78GB (3958784.0KB)	mismatched

Free disk space check failed

Compatibility check: User existence for "grid" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
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paw-racnode3	grid(501)	grid(501)	matched
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User existence for "grid" check passed

Compatibility check: Group existence for "oinstall" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
-----	-----	-----	-----
paw-racnode3	oinstall(501)	oinstall(501)	matched

Group existence for "oinstall" check passed

Compatibility check: Group existence for "asmdba" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
-----	-----	-----	-----
paw-racnode3	asmdba(505)	asmdba(505)	matched

Group existence for "asmdba" check passed

Compatibility check: Group membership for "grid" in "oinstall (Primary)" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
-----	-----	-----	-----
paw-racnode3	yes	yes	matched

Group membership for "grid" in "oinstall (Primary)" check passed

Compatibility check: Group membership for "grid" in "asmdba" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
-----	-----	-----	-----
paw-racnode3	yes	yes	matched

Group membership for "grid" in "asmdba" check passed

Compatibility check: Run level [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
-----	-----	-----	-----
paw-racnode3	5	5	matched

Run level check passed

Compatibility check: System architecture [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
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Node Name	Status	Ref. node status	Comment
paw-racnode3	x86_64	x86_64	matched

System architecture check passed

Compatibility check: Kernel version [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
paw-racnode3	2.6.18-274.el5	2.6.18-274.el5	matched

Kernel version check passed

Compatibility check: Kernel param "semmsl" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
paw-racnode3	250	250	matched

Kernel param "semmsl" check passed

Compatibility check: Kernel param "semmns" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
paw-racnode3	32000	32000	matched

Kernel param "semmns" check passed

Compatibility check: Kernel param "semopm" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
paw-racnode3	100	100	matched

Kernel param "semopm" check passed

Compatibility check: Kernel param "semmni" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
paw-racnode3	128	128	matched

Kernel param "semmni" check passed

Compatibility check: Kernel param "shmmax" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
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paw-racnode3	819212288	819212288	matched
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Kernel param "shmmmax" check passed

Compatibility check: Kernel param "shmmni" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
-----	-----	-----	-----
paw-racnode3	4096	4096	matched

Kernel param "shmmni" check passed

Compatibility check: Kernel param "shmall" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
-----	-----	-----	-----
paw-racnode3	2097152	2097152	matched

Kernel param "shmall" check passed

Compatibility check: Kernel param "file-max" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
-----	-----	-----	-----
paw-racnode3	6815744	6815744	matched

Kernel param "file-max" check passed

Compatibility check: Kernel param "ip_local_port_range" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
-----	-----	-----	-----
paw-racnode3	9000 65500	9000 65500	matched

Kernel param "ip_local_port_range" check passed

Compatibility check: Kernel param "rmem_default" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
-----	-----	-----	-----
paw-racnode3	262144	262144	matched

Kernel param "rmem_default" check passed

Compatibility check: Kernel param "rmem_max" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
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paw-racnode3	4194304	4194304	matched
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Kernel param "rmem_max" check passed

Compatibility check: Kernel param "wmem_default" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
-----	-----	-----	-----
paw-racnode3	262144	262144	matched

Kernel param "wmem_default" check passed

Compatibility check: Kernel param "wmem_max" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
-----	-----	-----	-----
paw-racnode3	1048576	1048576	matched

Kernel param "wmem_max" check passed

Compatibility check: Kernel param "aio-max-nr" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
-----	-----	-----	-----
paw-racnode3	1048576	1048576	matched

Kernel param "aio-max-nr" check passed

Compatibility check: Package existence for "make" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
-----	-----	-----	-----
paw-racnode3	make-3.81-3.e15	make-3.81-3.e15	matched

Package existence for "make" check passed

Compatibility check: Package existence for "binutils" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
-----	-----	-----	-----
paw-racnode3	binutils-2.17.50.0.6-14.e15	binutils-2.17.50.0.6-14.e15	matched

Package existence for "binutils" check passed

Compatibility check: Package existence for "gcc" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
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paw-racnode3	gcc-4.1.2-51.el5	gcc-4.1.2-51.el5	matched
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Package existence for "gcc" check passed

Compatibility check: Package existence for "libaio" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
paw-racnode3	libaio-0.3.106-5 (x86_64),libaio-0.3.106-5 (i386)	libaio-0.3.106-5 (x86_64),libaio-0.3.106-5 (i386)	libaio-0.3.106-5 (x86_64),libaio-0.3.106-5 (i386) matched

Package existence for "libaio" check passed

Compatibility check: Package existence for "libaio" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
paw-racnode3	libaio-0.3.106-5 (x86_64),libaio-0.3.106-5 (i386)	libaio-0.3.106-5 (x86_64),libaio-0.3.106-5 (i386)	libaio-0.3.106-5 (x86_64),libaio-0.3.106-5 (i386) matched

Package existence for "libaio" check passed

Compatibility check: Package existence for "glibc" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
paw-racnode3	glibc-2.5-65 (x86_64),glibc-2.5-65 (i686)	glibc-2.5-65 (x86_64),glibc-2.5-65 (i686)	glibc-2.5-65 (x86_64),glibc-2.5-65 (i686) matched

Package existence for "glibc" check passed

Compatibility check: Package existence for "glibc" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
paw-racnode3	glibc-2.5-65 (x86_64),glibc-2.5-65 (i686)	glibc-2.5-65 (x86_64),glibc-2.5-65 (i686)	glibc-2.5-65 (x86_64),glibc-2.5-65 (i686) matched

Package existence for "glibc" check passed

Compatibility check: Package existence for "compat-libstdc++-33" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
paw-racnode3	compat-libstdc++-33-3.2.3-61 (x86_64),compat-libstdc++-33-3.2.3-61 (i386)	compat-libstdc++-33-3.2.3-61 (x86_64),compat-libstdc++-33-3.2.3-61 (i386)	compat-libstdc++-33-3.2.3-61 (x86_64),compat-libstdc++-33-3.2.3-61 (i386) matched

Package existence for "compat-libstdc++-33" check passed

Compatibility check: Package existence for "compat-libstdc++-33" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
-----	-----	-----	-----
paw-racnode3	compat-libstdc++-33-3.2.3-61 (x86_64),compat-libstdc++-33-3.2.3-61 (i386)	compat-libstdc++-33-3.2.3-61 (x86_64),compat-libstdc++-33-3.2.3-61 (i386)	matched

Package existence for "compat-libstdc++-33" check passed

Compatibility check: Package existence for "elfutils-libelf" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
-----	-----	-----	-----
paw-racnode3	elfutils-libelf-0.137-3.el5 (x86_64),elfutils-libelf-0.137-3.el5 (i386)	elfutils-libelf-0.137-3.el5 (x86_64),elfutils-libelf-0.137-3.el5 (i386)	matched

Package existence for "elfutils-libelf" check passed

Compatibility check: Package existence for "elfutils-libelf-devel" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
-----	-----	-----	-----
paw-racnode3	elfutils-libelf-devel-0.137-3.el5	elfutils-libelf-devel-0.137-3.el5	matched

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

Compatibility check: Package existence for "glibc-common" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
-----	-----	-----	-----
paw-racnode3	glibc-common-2.5-65	glibc-common-2.5-65	matched

Package existence for "glibc-common" check passed

Compatibility check: Package existence for "glibc-devel" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
-----	-----	-----	-----
paw-racnode3	glibc-devel-2.5-65 (x86_64),glibc-devel-2.5-65 (i386)	glibc-devel-2.5-65 (x86_64),glibc-devel-2.5-65 (i386)	matched

Package existence for "glibc-devel" check passed

Compatibility check: Package existence for "glibc-devel" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
-----	-----	-----	-----

paw-racnode3 glibc-devel-2.5-65 (x86_64),glibc-devel-2.5-65 (i386) glibc-devel-2.5-65 (x86_64),glibc-devel-2.5-65 (i386) **matched**

Package existence for "glibc-devel" check passed

Compatibility check: Package existence for "glibc-headers" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
-----	-----	-----	-----
paw-racnode3	glibc-headers-2.5-65	glibc-headers-2.5-65	matched

Package existence for "glibc-headers" check passed

Compatibility check: Package existence for "gcc-c++" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
-----	-----	-----	-----
paw-racnode3	gcc-c++-4.1.2-51.el5	gcc-c++-4.1.2-51.el5	matched

Package existence for "gcc-c++" check passed

Compatibility check: Package existence for "libaio-devel" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
-----	-----	-----	-----
paw-racnode3	libaio-devel-0.3.106-5 (i386),libaio-devel-0.3.106-5 (x86_64)	libaio-devel-0.3.106-5 (i386),libaio-devel-0.3.106-5 (x86_64)	matched

Package existence for "libaio-devel" check passed

Compatibility check: Package existence for "libaio-devel" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
-----	-----	-----	-----
paw-racnode3	libaio-devel-0.3.106-5 (i386),libaio-devel-0.3.106-5 (x86_64)	libaio-devel-0.3.106-5 (i386),libaio-devel-0.3.106-5 (x86_64)	matched

Package existence for "libaio-devel" check passed

Compatibility check: Package existence for "libgcc" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment
-----	-----	-----	-----
paw-racnode3	libgcc-4.1.2-51.el5 (x86_64),libgcc-4.1.2-51.el5 (i386)	libgcc-4.1.2-51.el5 (x86_64),libgcc-4.1.2-51.el5 (i386)	matched

Package existence for "libgcc" check passed

Compatibility check: Package existence for "libgcc" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment

paw-racnode3	libgcc-4.1.2-51.el5 (x86_64),libgcc-4.1.2-51.el5 (i386)	libgcc-4.1.2-51.el5 (x86_64),libgcc-4.1.2-51.el5 (i386)	matched

Package existence for "libgcc" check passed

Compatibility check: Package existence for "libstdc++" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment

paw-racnode3	libstdc++-4.1.2-51.el5 (x86_64),libstdc++-4.1.2-51.el5 (i386)	libstdc++-4.1.2-51.el5 (x86_64),libstdc++-4.1.2-51.el5 (i386)	matched

Package existence for "libstdc++" check passed

Compatibility check: Package existence for "libstdc++" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment

paw-racnode3	libstdc++-4.1.2-51.el5 (x86_64),libstdc++-4.1.2-51.el5 (i386)	libstdc++-4.1.2-51.el5 (x86_64),libstdc++-4.1.2-51.el5 (i386)	matched

Package existence for "libstdc++" check passed

Compatibility check: Package existence for "libstdc++-devel" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment

paw-racnode3	libstdc++-devel-4.1.2-51.el5 (x86_64)	libstdc++-devel-4.1.2-51.el5 (x86_64)	matched

Package existence for "libstdc++-devel" check passed

Compatibility check: Package existence for "sysstat" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment

paw-racnode3	sysstat-7.0.2-11.el5	sysstat-7.0.2-11.el5	matched

Package existence for "sysstat" check passed

Compatibility check: Package existence for "unixODBC" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment

paw-racnode3	unixODBC-2.2.11-7.1 (x86_64),unixODBC-2.2.11-7.1 (i386)	unixODBC-2.2.11-7.1 (x86_64),unixODBC-2.2.11-7.1 (i386)	matched

Package existence for "unixODBC" check passed

Compatibility check: Package existence for "unixODBC" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment

paw-racnode3	unixODBC-2.2.11-7.1 (x86_64),unixODBC-2.2.11-7.1 (i386)	unixODBC-2.2.11-7.1 (x86_64),unixODBC-2.2.11-7.1 (i386)	matched

Package existence for "unixODBC" check passed

Compatibility check: Package existence for "unixODBC-devel" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment

paw-racnode3	unixODBC-devel-2.2.11-7.1 (i386),unixODBC-devel-2.2.11-7.1 (x86_64)	unixODBC-devel-2.2.11-7.1 (i386),unixODBC-devel-2.2.11-7.1 (x86_64)	matched

Package existence for "unixODBC-devel" check passed

Compatibility check: Package existence for "unixODBC-devel" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment

paw-racnode3	unixODBC-devel-2.2.11-7.1 (i386),unixODBC-devel-2.2.11-7.1 (x86_64)	unixODBC-devel-2.2.11-7.1 (i386),unixODBC-devel-2.2.11-7.1 (x86_64)	matched

Package existence for "unixODBC-devel" check passed

Compatibility check: Package existence for "ksh" [reference node: paw-racnode1]

Node Name	Status	Ref. node status	Comment

paw-racnode3	ksh-20100202-1.el5_6.6	ksh-20100202-1.el5_6.6	matched

Package existence for "ksh" check passed

Verification of peer compatibility was unsuccessful.

Checks did not pass for the following node(s):

paw-racnode3

```
[grid@paw-racnode1 ~]$ cluvfy stage -pre nodeadd -n paw-racnode3 -fixup -verbose | tee /home/grid/Desktop/addnode.txt
```

Performing pre-checks for node addition

Check: Node reachability from node "paw-racnode1"

Destination Node	Reachable?
-----	-----
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

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-racnode1"

Name	IP Address	Subnet	Gateway	Def. Gateway	HW Address	MTU
-----	-----	-----	-----	-----	-----	-----
eth1	10.0.0.1	10.0.0.0	0.0.0.0	192.168.75.1	00:0C:29:18:7C:DC	1500
eth0	192.168.75.11	192.168.75.0	0.0.0.0	192.168.75.1	00:0C:29:18:7C:E6	1500
eth0	192.168.75.102	192.168.75.0	0.0.0.0	192.168.75.1	00:0C:29:18:7C:E6	1500
eth0	192.168.75.21	192.168.75.0	0.0.0.0	192.168.75.1	00:0C:29:18:7C:E6	1500

eth0	192.168.75.22	192.168.75.0	0.0.0.0	192.168.75.1	00:0C:29:18:7C:E6	1500
eth0	192.168.75.101	192.168.75.0	0.0.0.0	192.168.75.1	00:0C:29:18:7C:E6	1500
eth0	192.168.75.103	192.168.75.0	0.0.0.0	192.168.75.1	00:0C:29:18:7C:E6	1500

Interface information for node "paw-racnode2"

Name	IP Address	Subnet	Gateway	Def. Gateway	HW Address	MTU
eth1	10.0.0.2	10.0.0.0	0.0.0.0	192.168.75.1	00:0C:29:C7:FC:3C	1500
eth0	192.168.75.12	192.168.75.0	0.0.0.0	192.168.75.1	00:0C:29:C7:FC:46	1500

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:AF:F1:01	1500
eth1	10.0.0.3	10.0.0.0	0.0.0.0	192.168.75.1	00:0C:29:AF:F1:F7	1500

Check: Node connectivity for interface "eth0"

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

paw-racnode1:eth0	paw-racnode1:eth0	yes
paw-racnode1:eth0	paw-racnode1:eth0	yes
paw-racnode1:eth0	paw-racnode2:eth0	yes
paw-racnode1:eth0	paw-racnode3:eth0	yes
paw-racnode1:eth0	paw-racnode1:eth0	yes
paw-racnode1:eth0	paw-racnode1:eth0	yes
paw-racnode1:eth0	paw-racnode2:eth0	yes
paw-racnode1:eth0	paw-racnode3:eth0	yes
paw-racnode1:eth0	paw-racnode1:eth0	yes
paw-racnode1:eth0	paw-racnode2:eth0	yes
paw-racnode1:eth0	paw-racnode3:eth0	yes
paw-racnode1:eth0	paw-racnode2:eth0	yes
paw-racnode1:eth0	paw-racnode3:eth0	yes
paw-racnode2:eth0	paw-racnode3:eth0	yes

Result: Node connectivity passed for interface "eth0"

Result: Node connectivity check passed

Checking CRS integrity...

The Oracle clusterware is healthy on node "paw-racnode1"

The Oracle clusterware is healthy on node "paw-racnode2"

CRS integrity check passed

Checking shared resources...

Checking CRS home location...

The location "/u01/app/grid/product/11.2.0/grid" is not shared but is present/creatable on all nodes

Result: Shared resources check for node addition passed

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-racnode1"

Name	IP Address	Subnet	Gateway	Def. Gateway	HW Address	MTU
-----	-----	-----	-----	-----	-----	-----
eth1	10.0.0.1	10.0.0.0	0.0.0.0	192.168.75.1	00:0C:29:18:7C:DC	1500
eth0	192.168.75.11	192.168.75.0	0.0.0.0	192.168.75.1	00:0C:29:18:7C:E6	1500
eth0	192.168.75.102	192.168.75.0	0.0.0.0	192.168.75.1	00:0C:29:18:7C:E6	1500
eth0	192.168.75.21	192.168.75.0	0.0.0.0	192.168.75.1	00:0C:29:18:7C:E6	1500
eth0	192.168.75.22	192.168.75.0	0.0.0.0	192.168.75.1	00:0C:29:18:7C:E6	1500
eth0	192.168.75.101	192.168.75.0	0.0.0.0	192.168.75.1	00:0C:29:18:7C:E6	1500
eth0	192.168.75.103	192.168.75.0	0.0.0.0	192.168.75.1	00:0C:29:18:7C:E6	1500

Interface information for node "paw-racnode2"

Name	IP Address	Subnet	Gateway	Def. Gateway	HW Address	MTU
-----	-----	-----	-----	-----	-----	-----
eth1	10.0.0.2	10.0.0.0	0.0.0.0	192.168.75.1	00:0C:29:C7:FC:3C	1500
eth0	192.168.75.12	192.168.75.0	0.0.0.0	192.168.75.1	00:0C:29:C7:FC:46	1500

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:AF:F1:01	1500
eth1	10.0.0.3	10.0.0.0	0.0.0.0	192.168.75.1	00:0C:29:AF:F1:F7	1500

Check: Node connectivity of subnet "10.0.0.0"

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

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

Check: TCP connectivity of subnet "10.0.0.0"

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

Result: TCP connectivity check passed for subnet "10.0.0.0"

Check: Node connectivity of subnet "192.168.75.0"

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

paw-racnode1:eth0	paw-racnode2:eth0	yes
paw-racnode1:eth0	paw-racnode3:eth0	yes
paw-racnode1:eth0	paw-racnode1:eth0	yes
paw-racnode1:eth0	paw-racnode1:eth0	yes
paw-racnode1:eth0	paw-racnode2:eth0	yes
paw-racnode1:eth0	paw-racnode3:eth0	yes
paw-racnode1:eth0	paw-racnode1:eth0	yes
paw-racnode1:eth0	paw-racnode2:eth0	yes
paw-racnode1:eth0	paw-racnode3:eth0	yes
paw-racnode1:eth0	paw-racnode2:eth0	yes
paw-racnode1:eth0	paw-racnode3:eth0	yes
paw-racnode2:eth0	paw-racnode3:eth0	yes

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

Check: TCP connectivity of subnet "192.168.75.0"

Source	Destination	Connected?
-----	-----	-----
paw-racnode1:192.168.75.11	paw-racnode1:192.168.75.102	passed
paw-racnode1:192.168.75.11	paw-racnode1:192.168.75.21	passed
paw-racnode1:192.168.75.11	paw-racnode1:192.168.75.22	passed
paw-racnode1:192.168.75.11	paw-racnode1:192.168.75.101	passed
paw-racnode1:192.168.75.11	paw-racnode1:192.168.75.103	passed
paw-racnode1:192.168.75.11	paw-racnode2:192.168.75.12	passed
paw-racnode1:192.168.75.11	paw-racnode3:192.168.75.13	passed

Result: TCP connectivity check passed for subnet "192.168.75.0"

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

paw-racnode1 eth0:192.168.75.11 eth0:192.168.75.102 eth0:192.168.75.21 eth0:192.168.75.22
eth0:192.168.75.101 eth0:192.168.75.103
paw-racnode2 eth0:192.168.75.12
paw-racnode3 eth0:192.168.75.13

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

paw-racnode1 eth1:10.0.0.1

paw-racnode2 eth1:10.0.0.2

paw-racnode3 eth1:10.0.0.3

Result: Node connectivity check passed

Check: Total memory

Node Name	Available	Required	Comment
-----	-----	-----	-----
paw-racnode3	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 (2256492.0KB)	50MB (51200.0KB)	passed

Result: Available memory check passed

Check: Swap space

Node Name	Available	Required	Comment
-----	-----	-----	-----
paw-racnode3	4.4GB (4618648.0KB)	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	3.78GB	1GB	passed

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

Check: User existence for "grid"

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

Result: User existence check passed for "grid"

Check: Run level

Node Name	run level	Required	Comment
-----	-----	-----	-----
paw-racnode3	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

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

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

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

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

Check: System architecture

Node Name	Available	Required	Comment
-----	-----	-----	-----
paw-racnode3	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

Result: Kernel version check passed

Check: Kernel parameter for "semmsl"

Node Name	Configured	Required	Comment
-----	-----	-----	-----
paw-racnode3	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

Result: Kernel parameter check passed for "semmns"

Check: Kernel parameter for "semopm"

Node Name	Configured	Required	Comment
-----	-----	-----	-----
paw-racnode3	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

Result: Kernel parameter check passed for "semmni"

Check: Kernel parameter for "shmmax"

Node Name	Configured	Required	Comment
-----	-----	-----	-----
paw-racnode3	819212288	536870912	passed

Result: Kernel parameter check passed for "shmmax"

Check: Kernel parameter for "shmmni"

Node Name	Configured	Required	Comment
-----	-----	-----	-----
paw-racnode3	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

Result: Kernel parameter check passed for "shmall"

Check: Kernel parameter for "file-max"

Node Name	Configured	Required	Comment
-----	-----	-----	-----
paw-racnode3	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

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

Result: Kernel parameter check passed for "rmem_default"

Check: Kernel parameter for "rmem_max"

Node Name	Configured	Required	Comment
-----	-----	-----	-----
paw-racnode3	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

Result: Kernel parameter check passed for "wmem_default"

Check: Kernel parameter for "wmem_max"

Node Name	Configured	Required	Comment
-----	-----	-----	-----
paw-racnode3	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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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.e15_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

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

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

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

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

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

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]"...

Check: Clock time offset from NTP Time Server

Time Server: .LOCL.

Time Offset Limit: 1000.0 msec

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

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

Clock time offset check passed

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

Pre-check for node addition was successful.

```
[grid@paw-racnode1 ~]$ cd $GRID_HOME/oui/bin
```

```
[grid@paw-racnode1 bin]$ ./addNode.sh -silent "CLUSTER_NEW_NODES={paw-racnode3}"  
"CLUSTER_NEW_VIRTUAL_HOSTNAMES={paw-racnode3-vip}" | tee /home/grid/Desktop/addnodefinal.txt
```

```
./addNode.sh -silent "CLUSTER_NEW_NODES={paw-racnode3}"
```

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

```
Checking swap space: must be greater than 500 MB.    Actual 4510 MB    Passed
```

```
Oracle Universal Installer, Version 11.2.0.1.0 Production
```

```
Copyright (C) 1999, 2009, Oracle. All rights reserved.
```

```
Performing tests to see whether nodes paw-racnode2,paw-racnode3 are available
```

```
..... 100% Done.
```

```
.
```

Cluster Node Addition Summary

Global Settings

```
Source: /u01/app/grid/product/11.2.0/grid
```

```
New Nodes
```

Space Requirements

```
New Nodes
```

```
paw-racnode3
```

```
/u01: Required 3.78GB : Available 28.06GB
```

Installed Products

```
Product Names
```

```
Oracle Grid Infrastructure 11.2.0.1.0
```

```
Sun JDK 1.5.0.17.0
```

```
Installer SDK Component 11.2.0.1.0
```

```
Oracle One-Off Patch Installer 11.2.0.0.2
```

```
Oracle Universal Installer 11.2.0.1.0
```

Oracle Configuration Manager Deconfiguration 10.3.1.0.0

Enterprise Manager Common Core Files 10.2.0.4.2

Oracle DBCA Deconfiguration 11.2.0.1.0

Oracle RAC Deconfiguration 11.2.0.1.0

Oracle Quality of Service Management (Server) 11.2.0.1.0

Installation Plugin Files 11.2.0.1.0

Universal Storage Manager Files 11.2.0.1.0

Oracle Text Required Support Files 11.2.0.1.0

Automatic Storage Management Assistant 11.2.0.1.0

Oracle Database 11g Multimedia Files 11.2.0.1.0

Oracle Multimedia Java Advanced Imaging 11.2.0.1.0

Oracle Globalization Support 11.2.0.1.0

Oracle Multimedia Locator RDBMS Files 11.2.0.1.0

Oracle Core Required Support Files 11.2.0.1.0

Bali Share 1.1.18.0.0

Oracle Database Deconfiguration 11.2.0.1.0

Oracle Quality of Service Management (Client) 11.2.0.1.0

Expat libraries 2.0.1.0.1

Oracle Containers for Java 11.2.0.1.0

Perl Modules 5.10.0.0.1

Secure Socket Layer 11.2.0.1.0

Oracle JDBC/OCI Instant Client 11.2.0.1.0

Oracle Multimedia Client Option 11.2.0.1.0

LDAP Required Support Files 11.2.0.1.0

Character Set Migration Utility 11.2.0.1.0

Perl Interpreter 5.10.0.0.1

PL/SQL Embedded Gateway 11.2.0.1.0

OLAP SQL Scripts 11.2.0.1.0

Database SQL Scripts 11.2.0.1.0

Oracle Extended Windowing Toolkit 3.4.47.0.0

SSL Required Support Files for InstantClient 11.2.0.1.0

SQL*Plus Files for Instant Client 11.2.0.1.0

Oracle Net Required Support Files 11.2.0.1.0

Oracle Database User Interface 2.2.13.0.0

RDBMS Required Support Files for Instant Client 11.2.0.1.0

Enterprise Manager Minimal Integration 11.2.0.1.0

XML Parser for Java 11.2.0.1.0

Oracle Security Developer Tools 11.2.0.1.0

Oracle Wallet Manager 11.2.0.1.0

Enterprise Manager plugin Common Files 11.2.0.1.0

Platform Required Support Files 11.2.0.1.0

Oracle JFC Extended Windowing Toolkit 4.2.36.0.0

RDBMS Required Support Files 11.2.0.1.0

Oracle Ice Browser 5.2.3.6.0

Oracle Help For Java 4.2.9.0.0

Enterprise Manager Common Files 10.2.0.4.2

Deinstallation Tool 11.2.0.1.0

Oracle Java Client 11.2.0.1.0

Cluster Verification Utility Files 11.2.0.1.0

Oracle Notification Service (eONS) 11.2.0.1.0

Oracle LDAP administration 11.2.0.1.0

Cluster Verification Utility Common Files 11.2.0.1.0

Oracle Clusterware RDBMS Files 11.2.0.1.0

Oracle Locale Builder 11.2.0.1.0

Oracle Globalization Support 11.2.0.1.0

Buildtools Common Files 11.2.0.1.0

Oracle RAC Required Support Files-HAS 11.2.0.1.0

SQL*Plus Required Support Files 11.2.0.1.0

XDK Required Support Files 11.2.0.1.0

Agent Required Support Files 10.2.0.4.2

Parser Generator Required Support Files 11.2.0.1.0

Precompiler Required Support Files 11.2.0.1.0

Installation Common Files 11.2.0.1.0

Required Support Files 11.2.0.1.0

Oracle JDBC/THIN Interfaces 11.2.0.1.0

Oracle Multimedia Locator 11.2.0.1.0

Oracle Multimedia 11.2.0.1.0

HAS Common Files 11.2.0.1.0

Assistant Common Files 11.2.0.1.0

PL/SQL 11.2.0.1.0

HAS Files for DB 11.2.0.1.0

Oracle Recovery Manager 11.2.0.1.0

Oracle Database Utilities 11.2.0.1.0

Oracle Notification Service 11.2.0.0.0

SQL*Plus 11.2.0.1.0

Oracle Netca Client 11.2.0.1.0

Oracle Net 11.2.0.1.0

Oracle JVM 11.2.0.1.0

Oracle Internet Directory Client 11.2.0.1.0

Oracle Net Listener 11.2.0.1.0

Cluster Ready Services Files 11.2.0.1.0

Oracle Database 11g 11.2.0.1.0

Instantiating scripts for add node (Tuesday, January 12, 2016 5:05:25 PM IST)

. 1% Done.

Instantiation of add node scripts complete

Copying to remote nodes (Tuesday, January 12, 2016 5:05:30 PM IST)

.....
96% Done.

Home copied to new nodes

Saving inventory on nodes (Tuesday, January 12, 2016 5:10:16 PM IST)

. 100% Done.

Save inventory complete

WARNING:A new inventory has been created on one or more nodes in this session. However, it has not yet been registered as the central inventory of this system.

To register the new inventory please run the script at '/u01/app/oraInventory/orainstRoot.sh' with root privileges on nodes 'paw-racnode3'.

If you do not register the inventory, you may not be able to update or patch the products you installed.

The following configuration scripts need to be executed as the "root" user in each cluster node.

/u01/app/oraInventory/orainstRoot.sh #On nodes paw-racnode3

/u01/app/grid/product/11.2.0/grid/root.sh #On nodes paw-racnode3

To execute the configuration scripts:

1. Open a terminal window
2. Log in as "root"
3. Run the scripts in each cluster node

The Cluster Node Addition of /u01/app/grid/product/11.2.0/grid was **successful**.

Please check '/tmp/silentInstall.log' for more details.

[grid@paw-racnode3 ~]\$ su -

Password:

[root@paw-racnode3 ~]# /u01/app/oraInventory/orainstRoot.sh

Creating the Oracle inventory pointer file (/etc/oraInst.loc)

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-racnode3 ~]# /u01/app/grid/product/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/grid/product/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.

2016-04-12 17:36:22: Parsing the host name

2016-04-12 17:36:22: Checking for super user privileges

2016-04-12 17:36:22: User has super user privileges

Using configuration parameter file: /u01/app/grid/product/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-racnode3'

CRS-2676: Start of 'ora.mdnsd' on 'paw-racnode3' succeeded

CRS-2672: Attempting to start 'ora.gipcd' on 'paw-racnode3'

CRS-2676: Start of 'ora.gipcd' on 'paw-racnode3' succeeded

CRS-2672: Attempting to start 'ora.gpnpd' on 'paw-racnode3'

CRS-2676: Start of 'ora.gpnpd' on 'paw-racnode3' succeeded

CRS-2672: Attempting to start 'ora.cssdmonitor' on 'paw-racnode3'

CRS-2676: Start of 'ora.cssdmonitor' on 'paw-racnode3' succeeded

CRS-2672: Attempting to start 'ora.cssd' on 'paw-racnode3'

CRS-2672: Attempting to start 'ora.diskmon' on 'paw-racnode3'

CRS-2676: Start of 'ora.diskmon' on 'paw-racnode3' succeeded

CRS-2676: Start of 'ora.cssd' on 'paw-racnode3' succeeded

CRS-2672: Attempting to start 'ora.ctssd' on 'paw-racnode3'

CRS-2676: Start of 'ora.ctssd' on 'paw-racnode3' succeeded

CRS-2672: Attempting to start 'ora.drivers.acfs' on 'paw-racnode3'

CRS-2676: Start of 'ora.drivers.acfs' on 'paw-racnode3' succeeded

CRS-2672: Attempting to start 'ora.asm' on 'paw-racnode3'

CRS-2676: Start of 'ora.asm' on 'paw-racnode3' succeeded

CRS-2672: Attempting to start 'ora.crsd' on 'paw-racnode3'

CRS-2676: Start of 'ora.crsd' on 'paw-racnode3' succeeded

CRS-2672: Attempting to start 'ora.evmd' on 'paw-racnode3'

CRS-2676: Start of 'ora.evmd' on 'paw-racnode3' succeeded

clscfg: EXISTING configuration version 5 detected.

Successfully accumulated necessary OCR keys.

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

Operation successful.

paw-racnode3 2016/04/12 17:39:39 /u01/app/grid/product/11.2.0/grid/cdata/paw-racnode3/backup_20160412_173939.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 4510 MB Passed

The inventory pointer is located at /etc/oraInst.loc

The inventory is located at /u01/app/oraInventory

'UpdateNodeList' was successful.

[grid@paw-racnode1 bin]\$ cluvfy stage -post nodeadd -n paw-racnode3 -verbose | tee /home/grid/Desktop/addnodepost_check.txt

Performing post-checks for node addition

Checking node reachability...

Check: Node reachability from node "paw-racnode1"

Destination Node	Reachable?

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

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:AF:F1:01	1500
eth0	192.168.75.102	192.168.75.0	0.0.0.0	192.168.75.1	00:0C:29:AF:F1:01	1500
eth0	192.168.75.23	192.168.75.0	0.0.0.0	192.168.75.1	00:0C:29:AF:F1:01	1500
eth1	10.0.0.3	10.0.0.0	0.0.0.0	192.168.75.1	00:0C:29:AF:F1:F7	1500

Interface information for node "paw-racnode2"

Name	IP Address	Subnet	Gateway	Def. Gateway	HW Address	MTU
eth1	10.0.0.2	10.0.0.0	0.0.0.0	192.168.75.1	00:0C:29:C7:FC:3C	1500
eth0	192.168.75.12	192.168.75.0	0.0.0.0	192.168.75.1	00:0C:29:C7:FC:46	1500

Interface information for node "paw-racnode1"

Name	IP Address	Subnet	Gateway	Def. Gateway	HW Address	MTU
eth1	10.0.0.1	10.0.0.0	0.0.0.0	192.168.75.1	00:0C:29:18:7C:DC	1500

eth0	192.168.75.11	192.168.75.0	0.0.0.0	192.168.75.1	00:0C:29:18:7C:E6	1500
eth0	192.168.75.21	192.168.75.0	0.0.0.0	192.168.75.1	00:0C:29:18:7C:E6	1500
eth0	192.168.75.22	192.168.75.0	0.0.0.0	192.168.75.1	00:0C:29:18:7C:E6	1500
eth0	192.168.75.101	192.168.75.0	0.0.0.0	192.168.75.1	00:0C:29:18:7C:E6	1500
eth0	192.168.75.103	192.168.75.0	0.0.0.0	192.168.75.1	00:0C:29:18:7C:E6	1500

```
Check: Node connectivity for interface "eth0"
```

[illegible]

paw-racnode1:eth0	paw-racnode1:eth0	yes
paw-racnode1:eth0	paw-racnode1:eth0	yes
paw-racnode1:eth0	paw-racnode1:eth0	yes
paw-racnode1:eth0	paw-racnode1:eth0	yes
paw-racnode1:eth0	paw-racnode1:eth0	yes
paw-racnode1:eth0	paw-racnode1:eth0	yes
paw-racnode1:eth0	paw-racnode1:eth0	yes
paw-racnode1:eth0	paw-racnode1:eth0	yes
paw-racnode1:eth0	paw-racnode1:eth0	yes
paw-racnode1:eth0	paw-racnode1:eth0	yes

Result: Node connectivity passed for interface "eth0"

Result: Node connectivity check passed

Checking cluster integrity...

Node Name

paw-racnode1

paw-racnode2

paw-racnode3

Cluster integrity check passed

Checking CRS integrity...

The Oracle clusterware is healthy on node "paw-racnode3"

The Oracle clusterware is healthy on node "paw-racnode2"

The Oracle clusterware is healthy on node "paw-racnode1"

CRS integrity check passed

Checking shared resources...

Checking CRS home location...

The location "/u01/app/grid/product/11.2.0/grid" is not shared but is present/creatable on all nodes

Result: Shared resources check for node addition passed

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:AF:F1:01	1500
eth0	192.168.75.102	192.168.75.0	0.0.0.0	192.168.75.1	00:0C:29:AF:F1:01	1500
eth0	192.168.75.23	192.168.75.0	0.0.0.0	192.168.75.1	00:0C:29:AF:F1:01	1500
eth1	10.0.0.3	10.0.0.0	0.0.0.0	192.168.75.1	00:0C:29:AF:F1:F7	1500

Interface information for node "paw-racnode2"

Name	IP Address	Subnet	Gateway	Def. Gateway	HW Address	MTU
-----	-----	-----	-----	-----	-----	-----
eth1	10.0.0.2	10.0.0.0	0.0.0.0	192.168.75.1	00:0C:29:C7:FC:3C	1500
eth0	192.168.75.12	192.168.75.0	0.0.0.0	192.168.75.1	00:0C:29:C7:FC:46	1500

Interface information for node "paw-racnode1"

Name	IP Address	Subnet	Gateway	Def. Gateway	HW Address	MTU
------	------------	--------	---------	--------------	------------	-----

eth1	10.0.0.1	10.0.0.0	0.0.0.0	192.168.75.1	00:0C:29:18:7C:DC 1500
eth0	192.168.75.11	192.168.75.0	0.0.0.0	192.168.75.1	00:0C:29:18:7C:E6 1500
eth0	192.168.75.21	192.168.75.0	0.0.0.0	192.168.75.1	00:0C:29:18:7C:E6 1500
eth0	192.168.75.22	192.168.75.0	0.0.0.0	192.168.75.1	00:0C:29:18:7C:E6 1500
eth0	192.168.75.101	192.168.75.0	0.0.0.0	192.168.75.1	00:0C:29:18:7C:E6 1500
eth0	192.168.75.103	192.168.75.0	0.0.0.0	192.168.75.1	00:0C:29:18:7C:E6 1500

Check: Node connectivity of subnet "192.168.75.0"

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

paw-racnode2:eth0	paw-racnode1:eth0	yes
paw-racnode2:eth0	paw-racnode1:eth0	yes
paw-racnode1:eth0	paw-racnode1:eth0	yes
paw-racnode1:eth0	paw-racnode1:eth0	yes
paw-racnode1:eth0	paw-racnode1:eth0	yes
paw-racnode1:eth0	paw-racnode1:eth0	yes
paw-racnode1:eth0	paw-racnode1:eth0	yes
paw-racnode1:eth0	paw-racnode1:eth0	yes
paw-racnode1:eth0	paw-racnode1:eth0	yes
paw-racnode1:eth0	paw-racnode1:eth0	yes
paw-racnode1:eth0	paw-racnode1:eth0	yes
paw-racnode1: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-racnode3:192.168.75.102	passed
paw-racnode1:192.168.75.11	paw-racnode3:192.168.75.23	passed
paw-racnode1:192.168.75.11	paw-racnode2:192.168.75.12	passed
paw-racnode1:192.168.75.11	paw-racnode1:192.168.75.21	passed
paw-racnode1:192.168.75.11	paw-racnode1:192.168.75.22	passed
paw-racnode1:192.168.75.11	paw-racnode1:192.168.75.101	passed
paw-racnode1:192.168.75.11	paw-racnode1:192.168.75.103	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

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 eth0:192.168.75.102 eth0:192.168.75.23
paw-racnode2 eth0:192.168.75.12
paw-racnode1 eth0:192.168.75.11 eth0:192.168.75.21 eth0:192.168.75.22 eth0:192.168.75.101
eth0:192.168.75.103

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

Checking node application existence...

Checking existence of VIP node application

Node Name	Required	Status	Comment
-----	-----	-----	-----
paw-racnode3	yes	online	passed
paw-racnode2	yes	unknown	failed
paw-racnode1	yes	does not exist	failed

Result: Check failed.

Checking existence of ONS node application

Node Name	Required	Status	Comment
-----	-----	-----	-----
paw-racnode3	no	online	passed
paw-racnode2	no	unknown	ignored
paw-racnode1	no	online	passed

Result: Check ignored.

Checking existence of GSD node application

Node Name	Required	Status	Comment
-----	-----	-----	-----
paw-racnode3	no	does not exist	ignored
paw-racnode2	no	unknown	ignored
paw-racnode1	no	does not exist	ignored

Result: Check ignored.

Checking existence of EONS node application

Node Name	Required	Status	Comment
-----	-----	-----	-----
paw-racnode3	no	online	passed
paw-racnode2	no	unknown	ignored
paw-racnode1	no	online	passed

Result: Check ignored.

Checking existence of NETWORK node application

Node Name	Required	Status	Comment
-----	-----	-----	-----
paw-racnode3	no	online	passed
paw-racnode2	no	unknown	ignored
paw-racnode1	no	online	passed

Result: Check ignored.

Checking Single Client Access Name (SCAN)...

SCAN VIP name	Node	Running?	ListenerName	Port	Running?
-----	-----	-----	-----	-----	-----
paw-rac01-scan	paw-racnode3	true	LISTENER	1521	true

Checking name resolution setup for "paw-rac01-scan"...

SCAN Name	IP Address	Status	Comment
-----	-----	-----	-----
paw-rac01-scan	192.168.75.101	passed	
paw-rac01-scan	192.168.75.102	passed	
paw-rac01-scan	192.168.75.103	passed	

Verification of SCAN VIP and Listener setup passed

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

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

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

Checking if Clusterware is installed on all nodes...

Check of Clusterware install passed

Checking if CTSS Resource is running on all nodes...

Check: CTSS Resource running on all nodes

Node Name	Status
-----	-----
paw-racnode3	passed

Result: CTSS resource check passed

Querying CTSS for time offset on all nodes...

Result: Query of CTSS for time offset passed

Check CTSS state started...

Check: CTSS state

Node Name	State
-----	-----
paw-racnode3	Observer

CTSS is in Observer state. Switching over to clock synchronization checks using NTP

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

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

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

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]"...

Check: Clock time offset from NTP Time Server

Time Server: .LOCL.

Time Offset Limit: 1000.0 msec

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

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

Clock time offset check passed

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

Oracle Cluster Time Synchronization Services check passed

Post-check for node addition was unsuccessful on all the nodes.

[grid@paw-racnode3 ~]\$ crsctl check crs

CRS-4638: Oracle High Availability Services is online

CRS-4537: Cluster Ready Services is online

CRS-4529: Cluster Synchronization Services is online

CRS-4533: Event Manager is online

[grid@paw-racnode3 ~]\$ crs_stat -t -v

Name	Type	R/RA	F/FT	Target	State	Host
ora.DATA.dg	ora....up.type	0/5	0/	ONLINE	ONLINE	paw-racnode1
ora....ER.lsnr	ora....er.type	0/5	0/	ONLINE	ONLINE	paw-racnode1
ora....N1.lsnr	ora....er.type	0/5	0/0	ONLINE	ONLINE	paw-racnode3

ora....N2.lsnr	ora....er.type	0/5	0/0	ONLINE	ONLINE	paw-racnode1
ora....N3.lsnr	ora....er.type	0/5	0/0	ONLINE	ONLINE	paw-racnode1
ora.asm	ora.asm.type	0/5	0/	ONLINE	ONLINE	paw-racnode1
ora.eons	ora.eons.type	0/3	0/	ONLINE	ONLINE	paw-racnode1
ora.gsd	ora.gsd.type	0/5	0/	OFFLINE	OFFLINE	
ora....network	ora....rk.type	2/5	0/	ONLINE	ONLINE	paw-racnode1
ora.oc4j	ora.oc4j.type	0/5	0/0	OFFLINE	OFFLINE	
ora.ons	ora.ons.type	1/3	0/	ONLINE	ONLINE	paw-racnode1
ora....SM1.asm	application	0/5	0/0	ONLINE	ONLINE	paw-racnode1
ora....E1.lsnr	application	0/5	0/0	ONLINE	ONLINE	paw-racnode1
ora....de1.gsd	application	0/5	0/0	OFFLINE	OFFLINE	
ora....de1.ons	application	1/3	0/0	ONLINE	ONLINE	paw-racnode1
ora....de1.vip	ora....t1.type	0/0	0/0	ONLINE	ONLINE	paw-racnode1
ora....SM2.asm	application	0/5	0/0	ONLINE	ONLINE	paw-racnode2
ora....E2.lsnr	application	0/5	0/0	ONLINE	ONLINE	paw-racnode2
ora....de2.gsd	application	0/5	0/0	OFFLINE	OFFLINE	
ora....de2.ons	application	0/3	0/0	ONLINE	ONLINE	paw-racnode2
ora....de2.vip	ora....t1.type	0/0	0/0	ONLINE	ONLINE	paw-racnode1
ora....SM3.asm	application	0/5	0/0	ONLINE	ONLINE	paw-racnode3
ora....E3.lsnr	application	0/5	0/0	ONLINE	ONLINE	paw-racnode3
ora....de3.gsd	application	0/5	0/0	OFFLINE	OFFLINE	
ora....de3.ons	application	0/3	0/0	ONLINE	ONLINE	paw-racnode3
ora....de3.vip	ora....t1.type	0/0	0/0	ONLINE	ONLINE	paw-racnode3
ora....ry.acfs	ora....fs.type	0/5	0/	ONLINE	ONLINE	paw-racnode1
ora.scan1.vip	ora....ip.type	0/0	0/0	ONLINE	ONLINE	paw-racnode3
ora.scan2.vip	ora....ip.type	0/0	0/0	ONLINE	ONLINE	paw-racnode1
ora.scan3.vip	ora....ip.type	0/0	0/0	ONLINE	ONLINE	paw-racnode1

[grid@paw-racnode3 ~]\$ crsctl check crs

CRS-4638: Oracle High Availability Services is online

CRS-4537: Cluster Ready Services is online

CRS-4529: Cluster Synchronization Services is online

CRS-4533: Event Manager is online

```
[grid@paw-racnode3 ~]$ olsnodes -n
```

```
paw-racnode1      1
paw-racnode2      2
paw-racnode3      3
```

```
[grid@paw-racnode3 ~]$ ps -ef | grep lsnr | grep -v 'grep' | grep -v 'ocfs' | awk '{print $9}'
```

```
grid      15882      1  0 17:39 ?   00:00:00 /u01/app/grid/product/11.2.0/grid/bin/tnslsnr
LISTENER_SCAN1 -inherit
grid      16088      1  0 17:39 ?   00:00:00 /u01/app/grid/product/11.2.0/grid/bin/tnslsnr
LISTENER -inherit
```

```
[grid@paw-racnode3 ~]$ srvctl status asm -a
```

```
ASM is running on paw-racnode1,paw-racnode2,paw-racnode3
```

```
ASM is enabled.
```

```
[grid@paw-racnode3 ~]$ ocrcheck
```

```
Status of Oracle Cluster Registry is as follows :
```

```
Version          :          3
Total space (kbytes) :      262120
Used space (kbytes) :         2600
Available space (kbytes) :    259520
ID               :    38394016
Device/File Name :      +DATA
```

```
Device/File integrity check succeeded
```

```
Device/File not configured
```

```
Device/File not configured
```

Device/File not configured

Device/File not configured

Cluster registry integrity check succeeded

Logical corruption check bypassed due to non-privileged user

[grid@paw-racnode3 ~]\$ crsctl query css votedisk

##	STATE	File Universal Id	File Name	Disk group
--	-----	-----	-----	-----
1.	ONLINE	4dleef63e8304f36bf726e0fcfc7acd5	(/dev/oracleasm/disks/ASMDISK1)	[DATA]

Located 1 voting disk(s).

[grid@paw-racnode3 ~]\$ 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
*****
paw-racnode3:
CRS-4537: Cluster Ready Services is online
CRS-4529: Cluster Synchronization Services is online
CRS-4533: Event Manager is online
*****
```

Extend Oracle Software to the New Node:

Login as a oracle user on all nodes:

```
[oracle@paw-racnode1 ~]$ . oraenv
```

```
ORACLE_SID = [racdb1] ?
```

```
The Oracle base for ORACLE_HOME=/u01/app/oracle/product/11.2.0/db_1 is /u01/app/oracle
```

```
[oracle@paw-racnode1 ~]$ cd $ORACLE_HOME/oui/bin
```

```
[oracle@paw-racnode1 bin]$ pwd
```

```
/u01/app/oracle/product/11.2.0/db_1/oui/bin
```

```
[oracle@paw-racnode1 bin]$ ll run*
```

```
-rwxr-x--- 1 oracle oinstall  1073 Apr 19 12:57 runConfig.sh
-rwxr-x--- 1 oracle oinstall 152477 Aug 13  2009 runInstaller
-rwxr-x--- 1 oracle oinstall    75 Apr 19 12:57 runInstaller.sh
-rwxr-x--- 1 oracle oinstall  22033 Aug 13  2009 runSSHSetup.sh
```

```
[oracle@paw-racnode1 bin]$ ./runSSHSetup.sh -user oracle -hosts "paw-racnode2 paw-racnode3" -advance
-exverify
```

This script will setup SSH Equivalence from the host 'paw-racnode1.localdomain' to specified remote hosts.

```
ORACLE_HOME = /u01/app/oracle/product/11.2.0/db_1
JAR_LOC = /u01/app/oracle/product/11.2.0/db_1/oui/jlib
SSH_LOC = /u01/app/oracle/product/11.2.0/db_1/oui/jlib
OUI_LOC = /u01/app/oracle/product/11.2.0/db_1/oui
PROP_LOC = /u01/app/oracle/product/11.2.0/db_1/sysman/prov/resources
JAVA_HOME = /u01/app/oracle/product/11.2.0/db_1/jdk
```

Checking if the remote hosts are reachable.

```
formulateLocalCmd paw-racnode2/bin/ping-c 1 -w 5
```

```
/bin/ping#paw-racnode2#-c#1#-w#5
```

```
formulateLocalCmd paw-racnode3/bin/ping-c 1 -w 5
```

```
/bin/ping#paw-racnode3#-c#1#-w#5
```

Remote host reachability check succeeded.

All hosts are reachable. Proceeding further...

NOTE :

As part of the setup procedure, this script will use ssh and scp to copy files between the local host and the remote hosts. You may be prompted for the password during the execution of the script.

AS PER SSH REQUIREMENTS, THIS SCRIPT WILL SECURE THE USER HOME DIRECTORY AND THE .ssh DIRECTORY BY REVOKING GROUP AND WORLD WRITE PRIVILEGES TO THESE directories.

Do you want to continue and let the script make the above mentioned changes (yes/no)?

yes

If The files containing the client public and private keys already exist on the local host. The current private key may or may not have a passphrase associated with it. In case you remember the passphrase and do not want to re-run ssh-keygen, type 'no'. If you type 'yes', the script will remove the old private/public key files and, any previous SSH user setups would be reset.

Enter 'yes', 'no'

no

Enter the password: **xxxxxx**

Logfile Location : /u01/app/oracle/product/11.2.0/db_1/oui/bin/SSHSetup2016-01-20_01-58-50-PM

Doing SSHSetup...

Please be patient, this operation might take sometime...Dont press Ctrl+C...

Local Platform:- Linux

Verifying SSH setup

=====

The script will now run the date command on the remote nodes using ssh

to verify if ssh is setup correctly. IF THE SETUP IS CORRECTLY SETUP,

THERE SHOULD BE NO OUTPUT OTHER THAN THE DATE AND SSH SHOULD NOT ASK FOR PASSWORDS. If you see any output other than date or are prompted for the password, ssh is not setup correctly and you will need to resolve the issue and set up ssh again.

The possible causes for failure could be:

1. The server settings in /etc/ssh/sshd_config file do not allow ssh for user oracle.
2. The server may have disabled public key based authentication.
3. The client public key on the server may be outdated.
4. ~oracle or ~oracle/.ssh on the remote host may not be owned by oracle.
5. User may not have passed -shared option for shared remote users or may be passing the -shared option for non-shared remote users.
6. If there is output in addition to the date, but no password is asked, it may be a security alert shown as part of company policy. Append the additional text to the <OMS HOME>/sysman/prov/resources/ignoreMessages.txt file.

--paw-racnode2:--

Running /usr/bin/ssh -x -l oracle paw-racnode2 date to verify SSH connectivity has been setup from local host to paw-racnode2.

IF YOU SEE ANY OTHER OUTPUT BESIDES THE OUTPUT OF THE DATE COMMAND OR IF YOU ARE PROMPTED FOR A PASSWORD HERE, IT MEANS SSH SETUP HAS NOT BEEN SUCCESSFUL. Please note that being prompted for a passphrase may be OK but being prompted for a password is ERROR.

Wed Apr 20 13:59:15 IST 2016

--paw-racnode3:--

Running /usr/bin/ssh -x -l oracle paw-racnode3 date to verify SSH connectivity has been setup from local host to paw-racnode3.

IF YOU SEE ANY OTHER OUTPUT BESIDES THE OUTPUT OF THE DATE COMMAND OR IF YOU ARE PROMPTED FOR A PASSWORD HERE, IT MEANS SSH SETUP HAS NOT BEEN SUCCESSFUL. Please note that being prompted for a passphrase may be OK but being prompted for a password is ERROR.

Wed Apr 20 13:59:15 IST 2016

Verifying SSH connectivity has been setup from paw-racnode2 to paw-racnode2

IF YOU SEE ANY OTHER OUTPUT BESIDES THE OUTPUT OF THE DATE COMMAND OR IF YOU ARE PROMPTED FOR A PASSWORD HERE, IT MEANS SSH SETUP HAS NOT BEEN SUCCESSFUL.

Wed Apr 20 13:59:15 IST 2016

Verifying SSH connectivity has been setup from paw-racnode2 to paw-racnode3

IF YOU SEE ANY OTHER OUTPUT BESIDES THE OUTPUT OF THE DATE COMMAND OR IF YOU ARE PROMPTED FOR A PASSWORD HERE, IT MEANS SSH SETUP HAS NOT BEEN SUCCESSFUL.

Host key verification failed.

-Verification from paw-racnode2 complete-

Verifying SSH connectivity has been setup from paw-racnode3 to paw-racnode2

IF YOU SEE ANY OTHER OUTPUT BESIDES THE OUTPUT OF THE DATE COMMAND OR IF YOU ARE PROMPTED FOR A PASSWORD HERE, IT MEANS SSH SETUP HAS NOT BEEN SUCCESSFUL.

Host key verification failed.

Verifying SSH connectivity has been setup from paw-racnode3 to paw-racnode3

IF YOU SEE ANY OTHER OUTPUT BESIDES THE OUTPUT OF THE DATE COMMAND OR IF YOU ARE PROMPTED FOR A PASSWORD HERE, IT MEANS SSH SETUP HAS NOT BEEN SUCCESSFUL.

Host key verification failed.

-Verification from paw-racnode3 complete-

SSH verification complete.

[oracle@paw-racnode1 bin]\$./addNode.sh -silent "CLUSTER_NEW_NODES={paw-racnode3}" |tee /home/oracle/Desktop/add_db.txt

Starting Oracle Universal Installer...

Checking swap space: must be greater than 500 MB. Actual 4820 MB Passed

Oracle Universal Installer, Version 11.2.0.1.0 Production

Copyright (C) 1999, 2009, Oracle. All rights reserved.

Performing tests to see whether nodes paw-racnode2,paw-racnode3 are available

..... 100% Done.

..

Cluster Node Addition Summary

Global Settings

Source: /u01/app/oracle/product/11.2.0/db_1

New Nodes

Space Requirements

New Nodes

paw-racnode3

/u01: Required 3.98GB : Available 22.88GB

Installed Products

Product Names

Oracle Database 11g 11.2.0.1.0

Sun JDK 1.5.0.17.0

Installer SDK Component 11.2.0.1.0

Oracle One-Off Patch Installer 11.2.0.0.2

Oracle Universal Installer 11.2.0.1.0

Oracle Configuration Manager Deconfiguration 10.3.1.0.0

Oracle DBCA Deconfiguration 11.2.0.1.0

Oracle RAC Deconfiguration 11.2.0.1.0

Oracle Database Deconfiguration 11.2.0.1.0

Oracle Configuration Manager 10.3.1.1.0

Oracle ODBC Driverfor Instant Client 11.2.0.1.0

LDAP Required Support Files 11.2.0.1.0

SSL Required Support Files for InstantClient 11.2.0.1.0

Bali Share 1.1.18.0.0

Oracle Extended Windowing Toolkit 3.4.47.0.0

Oracle JFC Extended Windowing Toolkit 4.2.36.0.0

Oracle Real Application Testing 11.2.0.1.0

Oracle Database Vault J2EE Application 11.2.0.1.0

Oracle Label Security 11.2.0.1.0

Oracle Data Mining RDBMS Files 11.2.0.1.0

Oracle OLAP RDBMS Files 11.2.0.1.0

Oracle OLAP API 11.2.0.1.0

Platform Required Support Files 11.2.0.1.0

Oracle Database Vault option 11.2.0.1.0

Oracle RAC Required Support Files-HAS 11.2.0.1.0

SQL*Plus Required Support Files 11.2.0.1.0

Oracle Display Fonts 9.0.2.0.0

Oracle Ice Browser 5.2.3.6.0

Oracle JDBC Server Support Package 11.2.0.1.0

Oracle SQL Developer 11.2.0.1.0

Oracle Application Express 11.2.0.1.0

XDK Required Support Files 11.2.0.1.0

RDBMS Required Support Files for Instant Client 11.2.0.1.0

SQLJ Runtime 11.2.0.1.0

Database Workspace Manager 11.2.0.1.0

RDBMS Required Support Files 11.2.0.1.0

Oracle Globalization Support 11.2.0.1.0

Exadata Storage Server 11.2.0.1.0

Provisioning Advisor Framework 10.2.0.4.2

Enterprise Manager Database Plugin -- Repository Support 11.2.0.1.0

Enterprise Manager Repository Core Files 10.2.0.4.2

Enterprise Manager Database Plugin -- Agent Support 11.2.0.1.0

Enterprise Manager Grid Control Core Files 10.2.0.4.2

Enterprise Manager Common Core Files 10.2.0.4.2

Enterprise Manager Agent Core Files 10.2.0.4.2

Agent Required Support Files 10.2.0.4.2

regexp 2.1.9.0.0

Parser Generator Required Support Files 11.2.0.1.0

Oracle 11g Warehouse Builder Required Files 11.2.0.1.0

Oracle Notification Service (eONS) 11.2.0.1.0

Oracle Text Required Support Files 11.2.0.1.0

Precompiler Required Support Files 11.2.0.1.0

Oracle Database 11g Multimedia Files 11.2.0.1.0

Oracle Multimedia Java Advanced Imaging 11.2.0.1.0

Oracle Multimedia Annotator 11.2.0.1.0

Oracle JDBC/OCI Instant Client 11.2.0.1.0

Oracle Multimedia Locator RDBMS Files 11.2.0.1.0

Oracle Core Required Support Files 11.2.0.1.0

Oracle Help For Java 4.2.9.0.0

Sample Schema Data 11.2.0.1.0

Oracle Starter Database 11.2.0.1.0

Oracle Message Gateway Common Files 11.2.0.1.0

Oracle XML Query 11.2.0.1.0

XML Parser for Oracle JVM 11.2.0.1.0

Expat libraries 2.0.1.0.1

Installation Plugin Files 11.2.0.1.0

Enterprise Manager Common Files 10.2.0.4.2

Perl Modules 5.10.0.0.1

Deinstallation Tool 11.2.0.1.0

Oracle Quality of Service Management (Client) 11.2.0.1.0

Perl Interpreter 5.10.0.0.1

JAccelerator (COMPANION) 11.2.0.1.0

Oracle Containers for Java 11.2.0.1.0

Oracle Code Editor 1.2.1.0.0I

Oracle Net Required Support Files 11.2.0.1.0

Secure Socket Layer 11.2.0.1.0

Oracle Universal Connection Pool 11.2.0.1.0

Oracle JDBC/THIN Interfaces 11.2.0.1.0

Oracle Multimedia Client Option 11.2.0.1.0

Oracle Java Client 11.2.0.1.0

Character Set Migration Utility 11.2.0.1.0

Oracle Locale Builder 11.2.0.1.0

PL/SQL Embedded Gateway 11.2.0.1.0

OLAP SQL Scripts 11.2.0.1.0

Database SQL Scripts 11.2.0.1.0

Oracle Globalization Support 11.2.0.1.0

Required Support Files 11.2.0.1.0

SQL*Plus Files for Instant Client 11.2.0.1.0

Oracle ODBC Driver 11.2.0.1.0

Oracle Database User Interface 2.2.13.0.0

Oracle Notification Service 11.2.0.0.0

Enterprise Manager Minimal Integration 11.2.0.1.0

XML Parser for Java 11.2.0.1.0

Oracle Security Developer Tools 11.2.0.1.0

Oracle Wallet Manager 11.2.0.1.0

Cluster Verification Utility Common Files 11.2.0.1.0

Oracle Clusterware RDBMS Files 11.2.0.1.0

Oracle UIX 2.2.24.5.0

Enterprise Manager plugin Common Files 11.2.0.1.0

HAS Common Files 11.2.0.1.0

Precompiler Common Files 11.2.0.1.0

Installation Common Files 11.2.0.1.0

Oracle Help for the Web 2.0.14.0.0

Oracle LDAP administration 11.2.0.1.0

Buildtools Common Files 11.2.0.1.0

Assistant Common Files 11.2.0.1.0

Oracle Recovery Manager 11.2.0.1.0

PL/SQL 11.2.0.1.0

Generic Connectivity Common Files 11.2.0.1.0

Oracle Database Gateway for ODBC 11.2.0.1.0

Oracle Programmer 11.2.0.1.0

Oracle Database Utilities 11.2.0.1.0

Enterprise Manager Agent 10.2.0.4.2

Oracle Netca Client 11.2.0.1.0

SQL*Plus 11.2.0.1.0

Oracle Call Interface (OCI) 11.2.0.1.0

Oracle Multimedia Locator 11.2.0.1.0

Oracle Multimedia 11.2.0.1.0

Oracle Net 11.2.0.1.0

Database Configuration and Upgrade Assistants 11.2.0.1.0

Oracle XML Development Kit 11.2.0.1.0

Oracle JVM 11.2.0.1.0

Oracle Advanced Security 11.2.0.1.0

Oracle Internet Directory Client 11.2.0.1.0

HAS Files for DB 11.2.0.1.0

Oracle Enterprise Manager Console DB 11.2.0.1.0

Oracle Net Listener 11.2.0.1.0

Oracle Text 11.2.0.1.0

Oracle Net Services 11.2.0.1.0

Oracle Database 11g 11.2.0.1.0

Oracle OLAP 11.2.0.1.0

Oracle Spatial 11.2.0.1.0

Oracle Partitioning 11.2.0.1.0

Enterprise Edition Options 11.2.0.1.0

Instantiating scripts for add node (Sunday, January 15, 2016 3:08:56 PM IST)

. 1% Done.

Instantiation of add node scripts complete

Copying to remote nodes (Sunday, January 15, 2016 3:09:02 PM IST)

.....
96% Done.

Home copied to new nodes

Saving inventory on nodes (Sunday, January 15, 2016 3:18:55 PM IST)

. 100% Done.

Save inventory complete

WARNING:

The following configuration scripts need to be executed as the "root" user in each cluster node.

/u01/app/oracle/product/11.2.0/db_1/root.sh #On nodes paw-racnode3

To execute the configuration scripts:

1. Open a terminal window
2. Log in as "root"
3. Run the scripts in each cluster node

The Cluster Node Addition of /u01/app/oracle/product/11.2.0/db_1 was successful.

Please check '/tmp/silentInstall.log' for more details.

[oracle@paw-racnode3 ~]\$ su -

Password:

[root@paw-racnode3 ~]# /u01/app/oracle/product/11.2.0/db_1/root.sh

Running Oracle 11g root.sh script...

The following environment variables are set as:

```
ORACLE_OWNER= oracle
```

```
ORACLE_HOME= /u01/app/oracle/product/11.2.0/db_1
```

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

The file "dbhome" already exists in /usr/local/bin. Overwrite it? (y/n)

[n]:

The file "oraenv" already exists in /usr/local/bin. Overwrite it? (y/n)

[n]:

The file "coraenv" already exists in /usr/local/bin. Overwrite it? (y/n)

[n]:

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.

Finished product-specific root actions.

[root@paw-racnode3 ~]# /usr/sbin/oracleasm configure

```
ORACLEASM_ENABLED=true
```

```
ORACLEASM_UID=grid
```

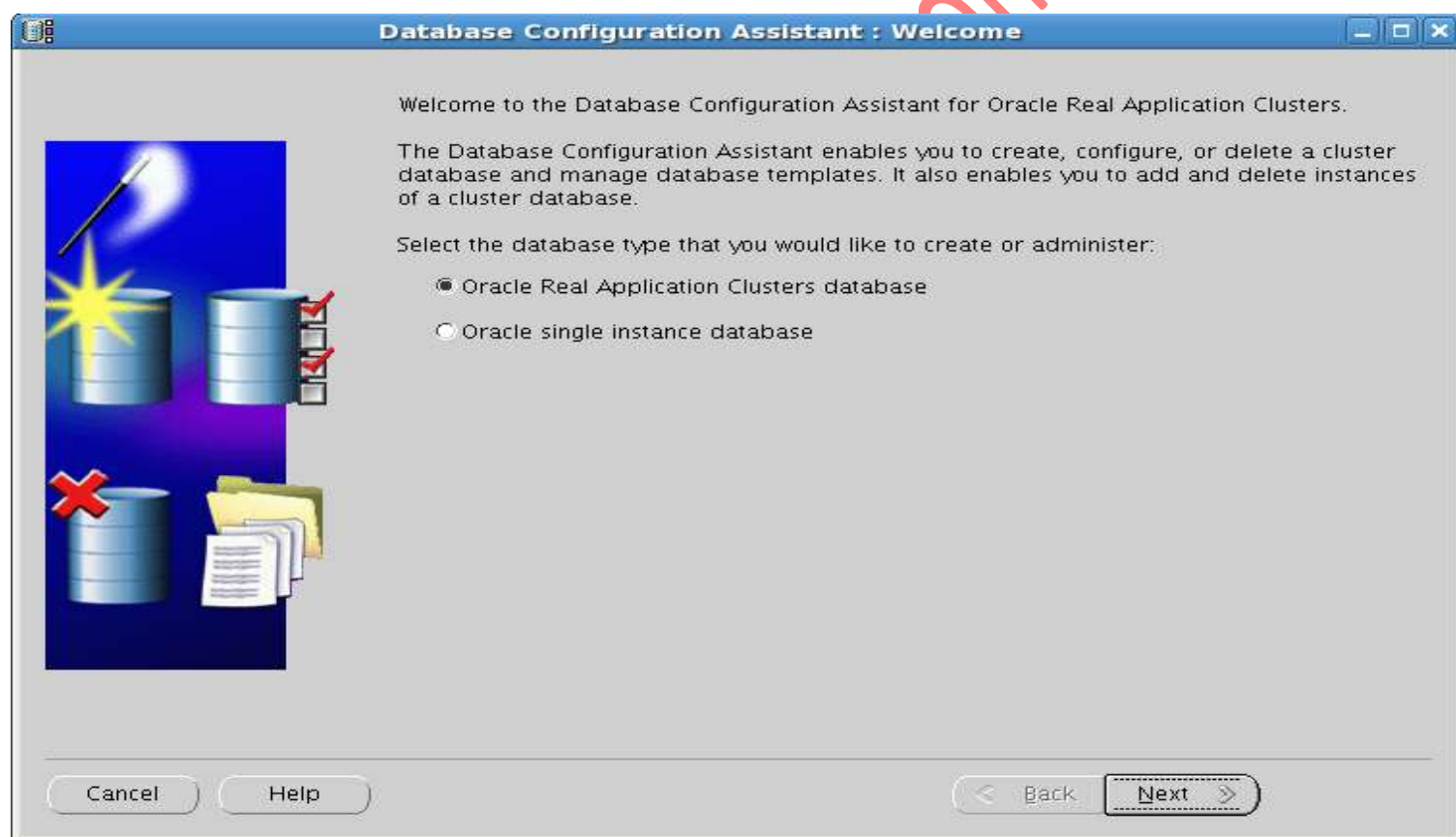
```
ORACLEASM_GID=asmadmin
```

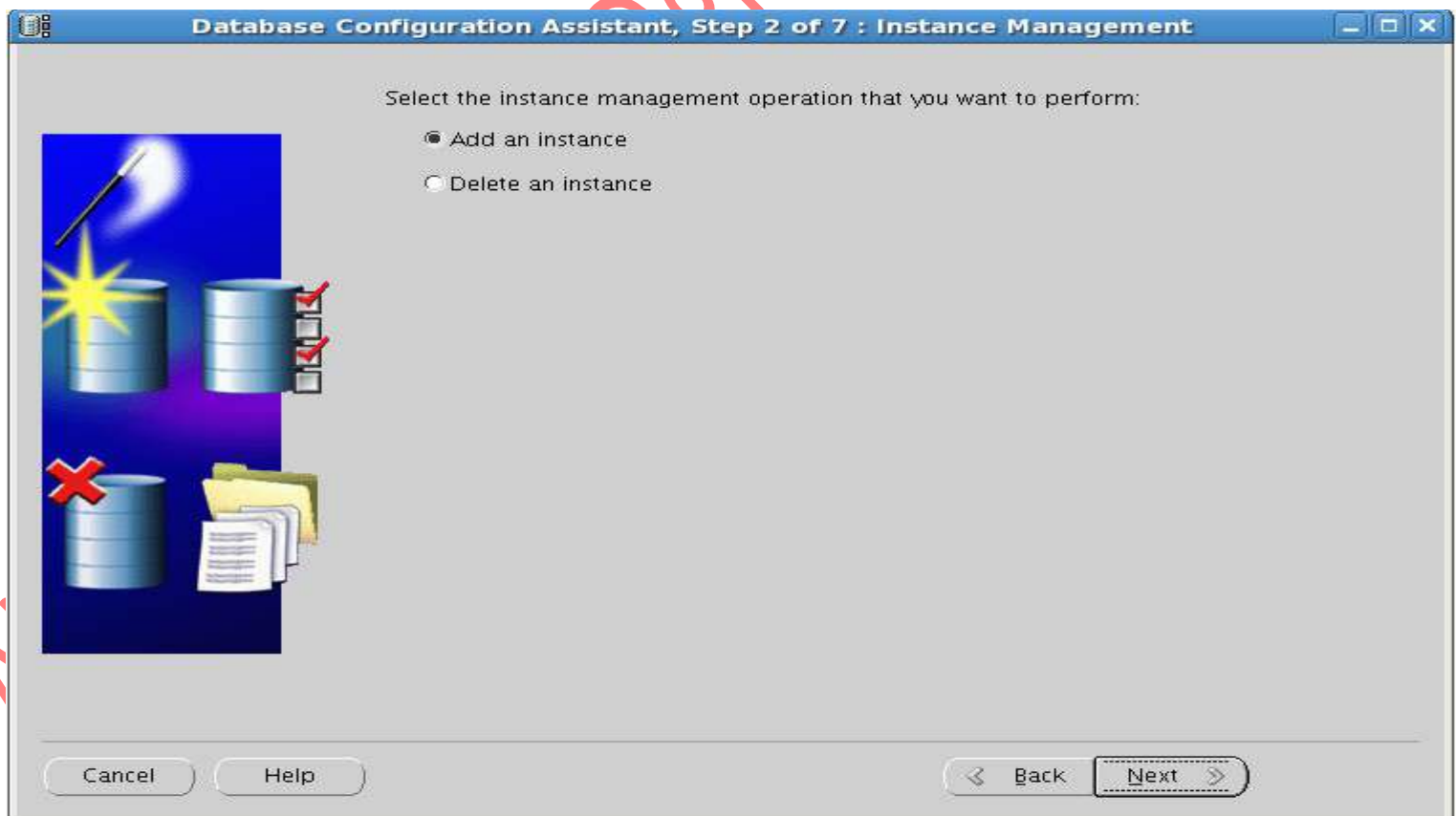
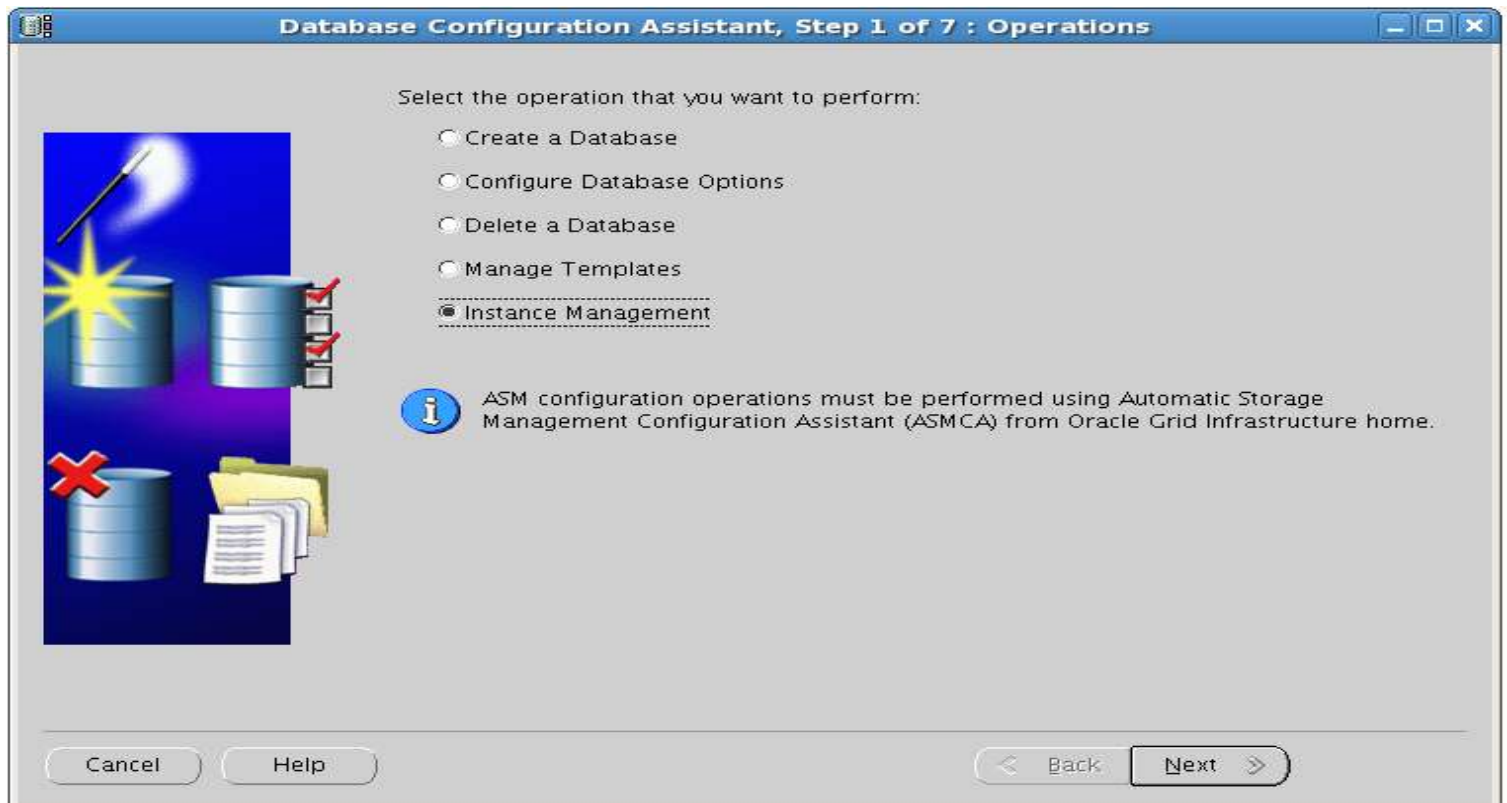
```
ORACLEASM_SCANBOOT=true
```

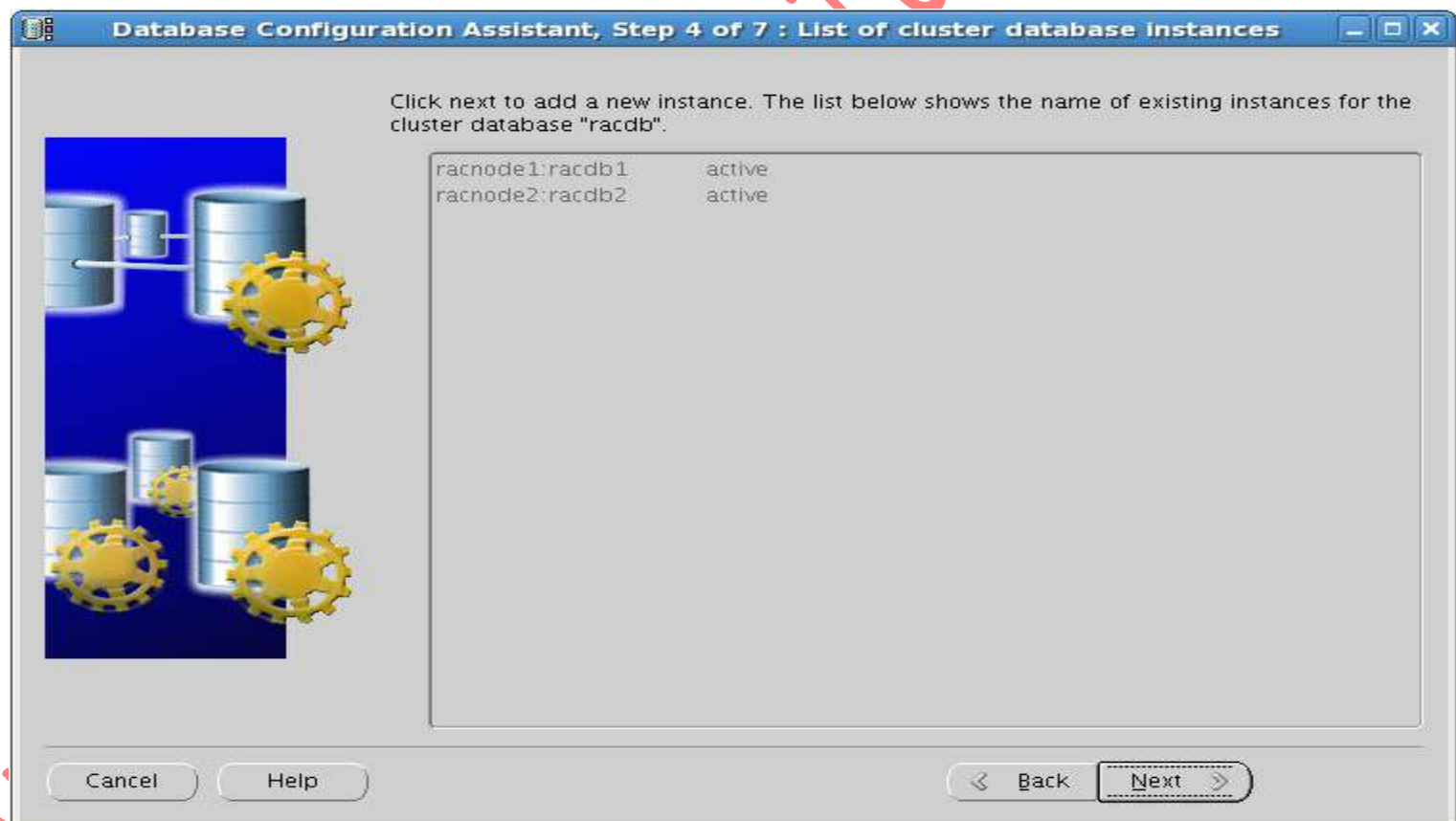
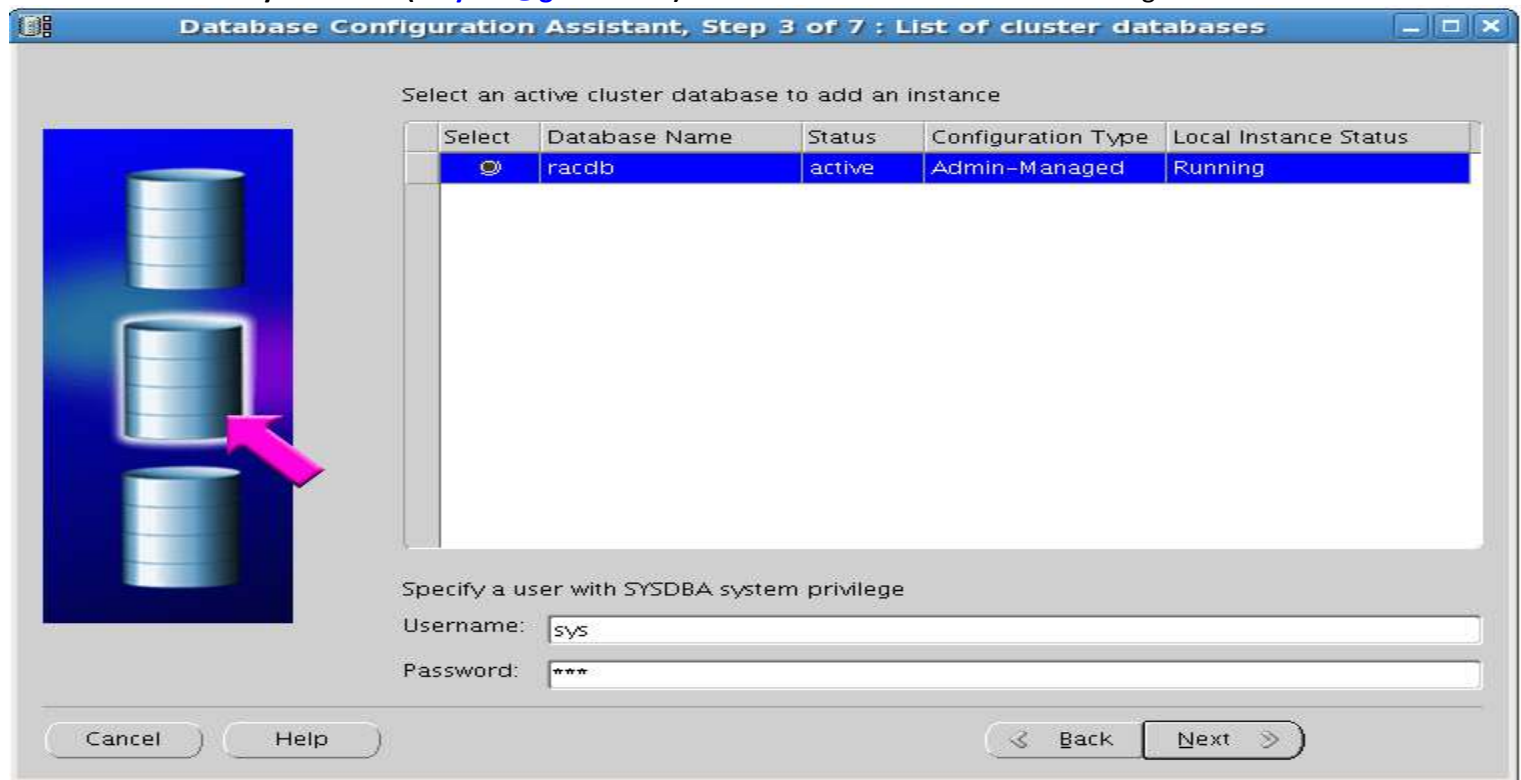
```
ORACLEASM_SCANORDER=""
```

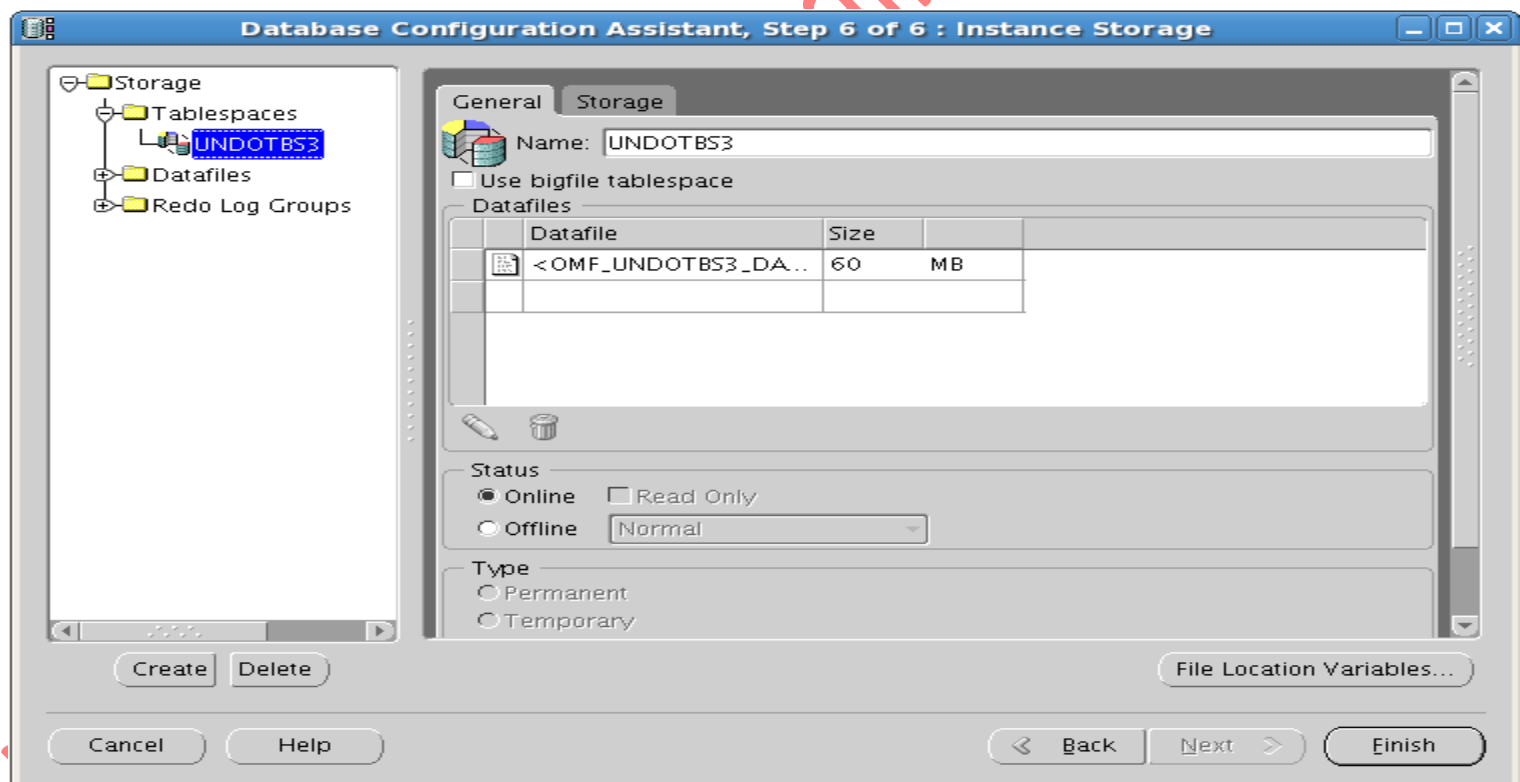
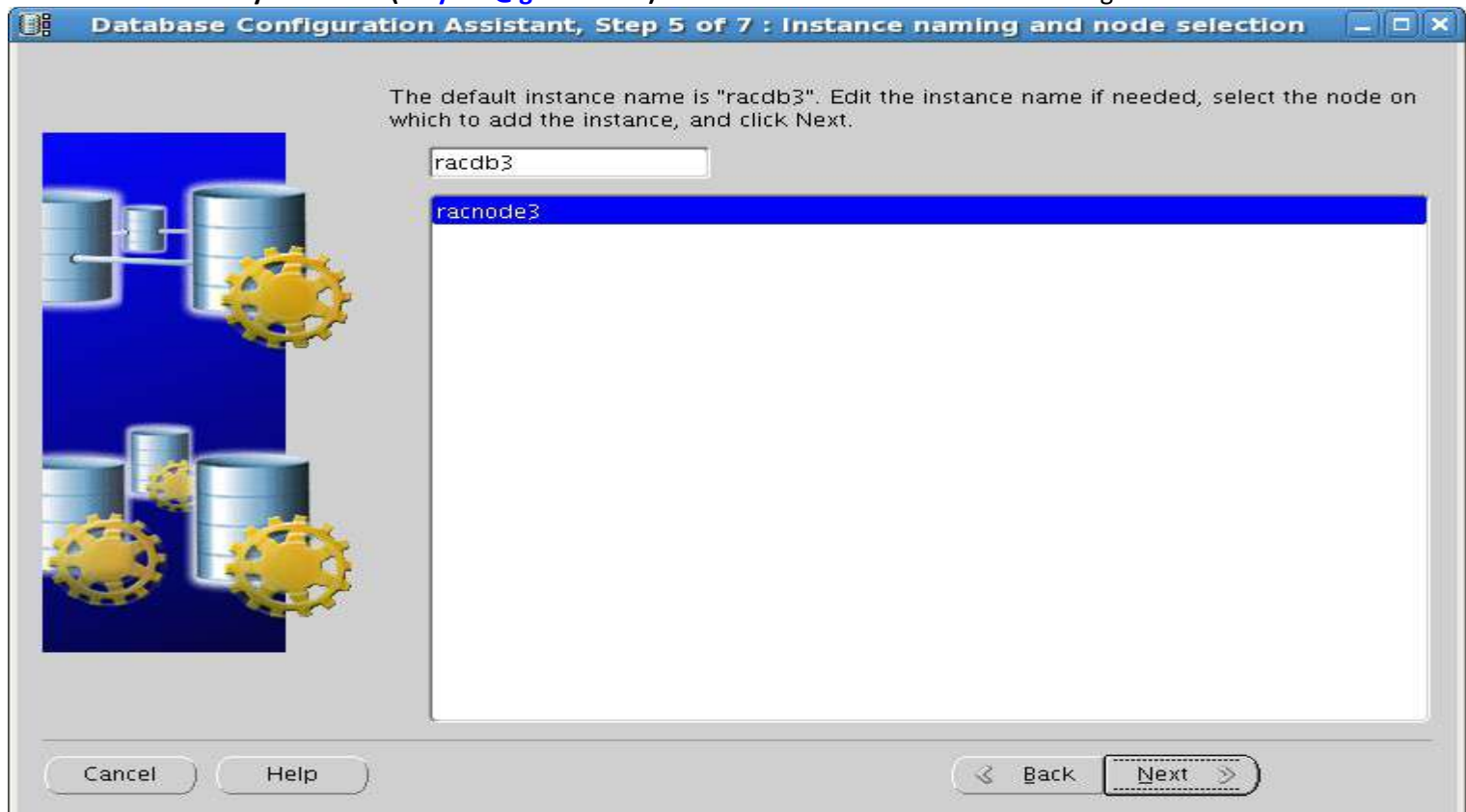
```
ORACLEASM_SCANEXCLUDE=""
```

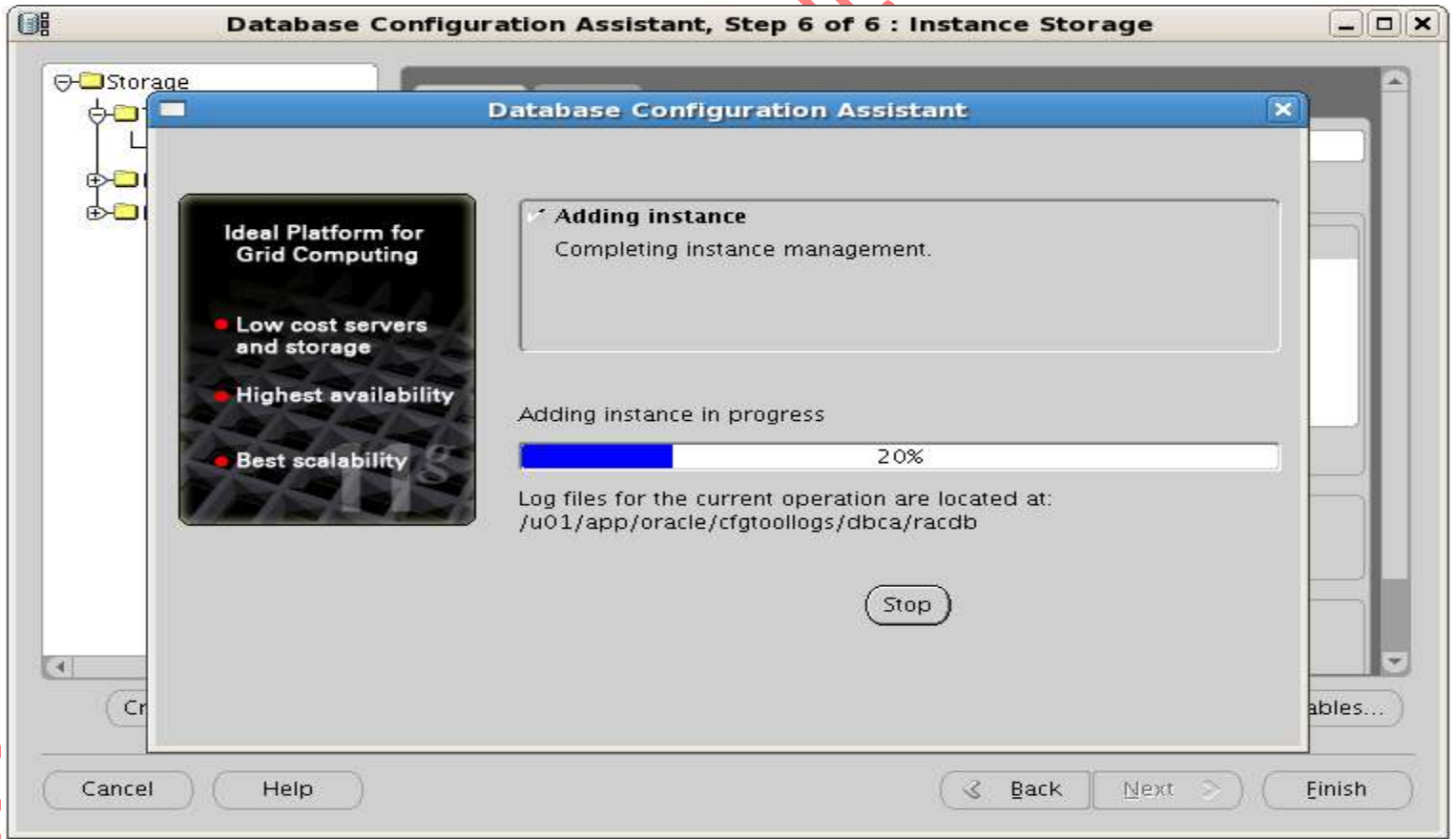
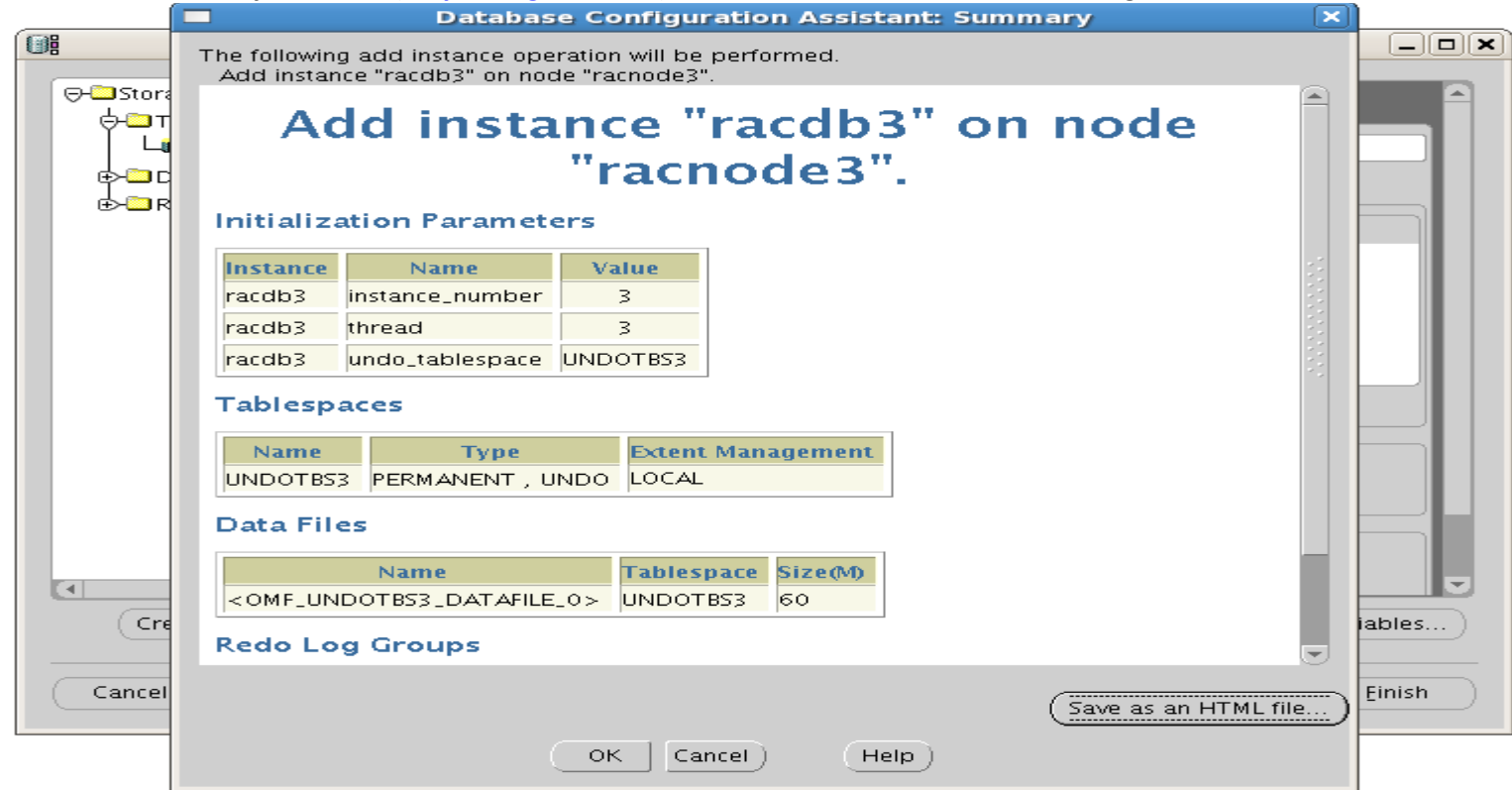
[oracle@paw-racnode1 ~]\$ dbca

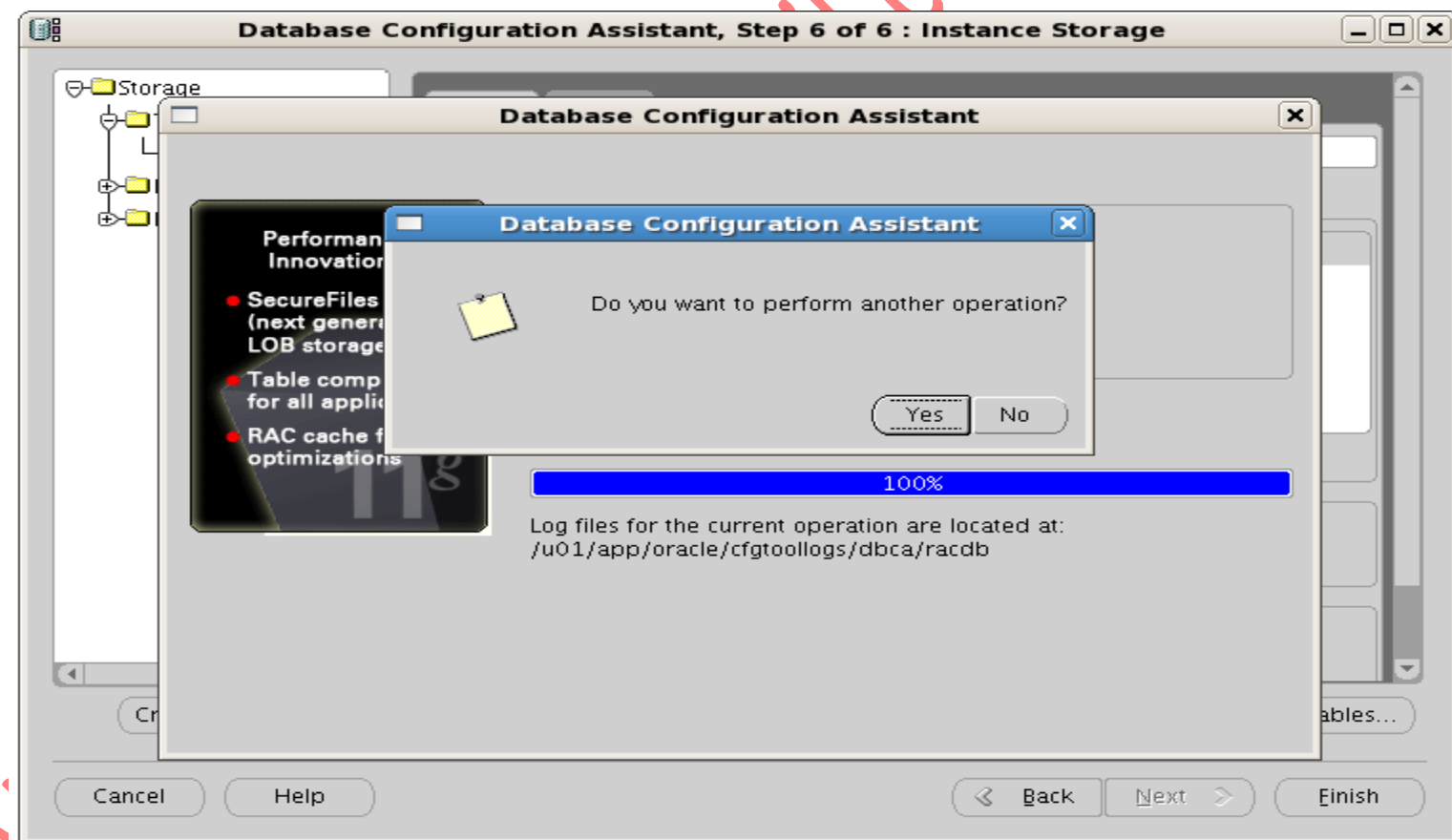
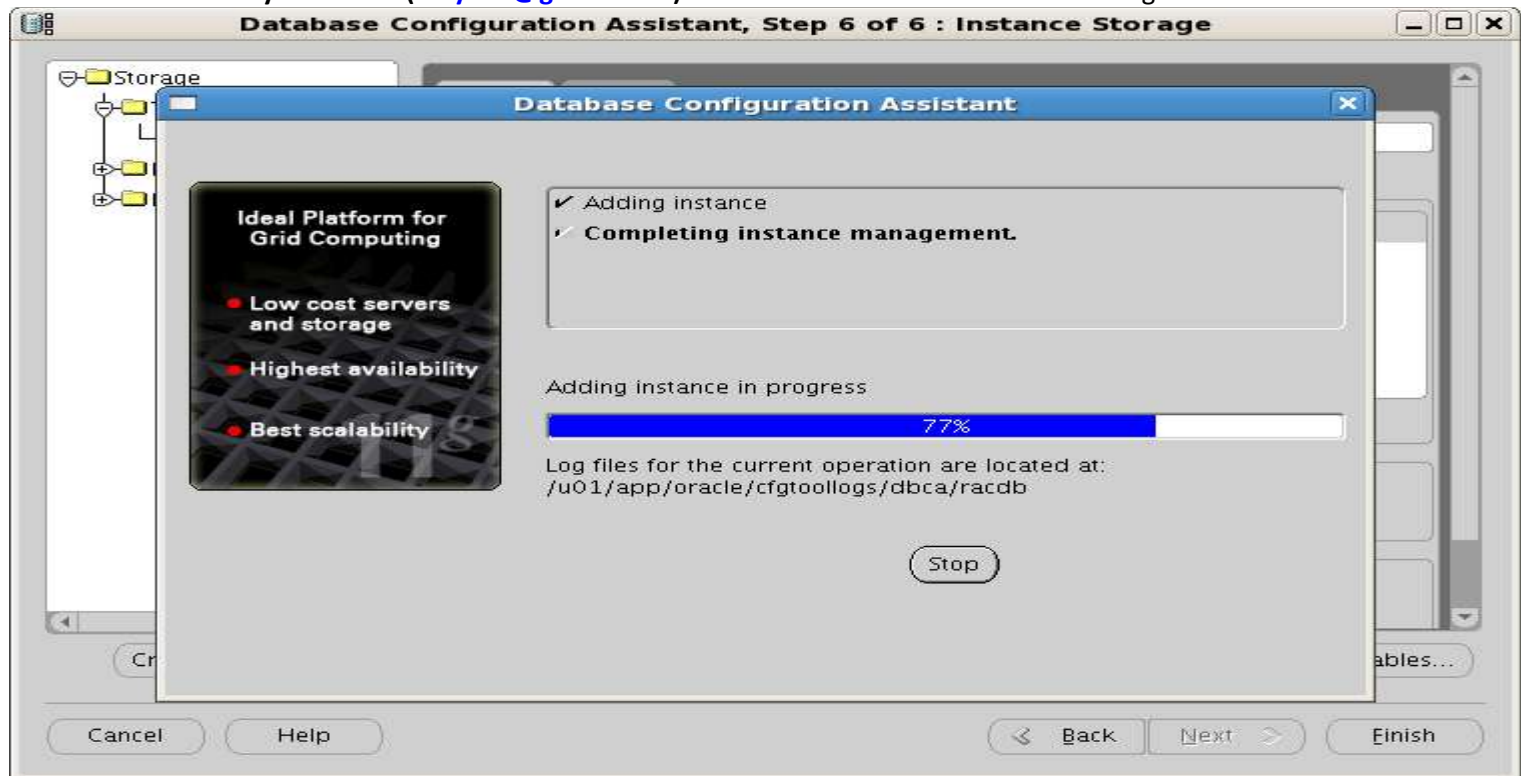












Edit /etc/oratab on paw-racnode3 and add following line at the end.

```
racdb3:/u01/app/oracle/product/11.2.0/db_1:N
```

```
[oracle@paw-racnode3 ~]$ vi /etc/oratab
```

```
[oracle@paw-racnode3 ~]$ tail -3 /etc/oratab
```

```
+ASM3:/u01/app/11.2.0/grid:N          # line added by Agent
racdb:/u01/app/oracle/product/11.2.0/db_1:N          # line added by Agent
racdb3:/u01/app/oracle/product/11.2.0/db_1:N
```

Verify the Instance:

```
[oracle@paw-racnode3 ~]$ srvctl status database -d racdb -v
```

```
Instance racdb1 is running on node paw-racnode1
Instance racdb2 is running on node paw-racnode2
Instance racdb3 is running on node paw-racnode3
```

```
[oracle@paw-racnode3 ~]$ sqlplus / as sysdba
```

```
SQL*Plus: Release 11.2.0.1.0 Production on Mon Apr 25 12:28:52 2016
Copyright (c) 1982, 2009, Oracle. All rights reserved.
```

```
Connected to:
```

```
Oracle Database 11g Enterprise Edition Release 11.2.0.1.0 - 64bit Production
With the Partitioning, Real Application Clusters, Automatic Storage Management, OLAP,
Data Mining and Real Application Testing options
```

```
SQL> select inst_id,instance_name,status, to_char(startup_time,'DD-Mon-YYYY HH24:MI:SS') AS "Start_Time"
from gv$instance order by 1;
```

INST_ID	INSTANCE_NAME	STATUS	Start_Time
1	racdb1	OPEN	25-Apr-2016 12:23:18

2 racdb2

OPEN

25-Apr-2016 12:23:21

3 racdb3

OPEN

25-Apr-2016 12:23:20

[grid@paw-racnode3 ~]\$ crsctl status res -t

NAME	TARGET	STATE	SERVER	STATE_DETAILS
------	--------	-------	--------	---------------

Local Resources

ora.DATA.dg

ONLINE	ONLINE	paw-racnode1
ONLINE	ONLINE	paw-racnode2
ONLINE	ONLINE	paw-racnode3

ora.FRA.dg

ONLINE	ONLINE	paw-racnode1
ONLINE	ONLINE	paw-racnode2
ONLINE	ONLINE	paw-racnode3

ora.LISTENER.lsnr

ONLINE	ONLINE	paw-racnode1
ONLINE	ONLINE	paw-racnode2
ONLINE	ONLINE	paw-racnode3

ora.asm

ONLINE	ONLINE	paw-racnode1	Started
ONLINE	ONLINE	paw-racnode2	Started
ONLINE	ONLINE	paw-racnode3	Started

ora.eons

ONLINE	ONLINE	paw-racnode1
ONLINE	ONLINE	paw-racnode2
ONLINE	ONLINE	paw-racnode3

ora.gsd

OFFLINE	OFFLINE	paw-racnode1
---------	---------	--------------

OFFLINE	OFFLINE	paw-racnode2
---------	---------	--------------

OFFLINE	OFFLINE	paw-racnode3
---------	---------	--------------

ora.net1.network

ONLINE	ONLINE	paw-racnode1
--------	--------	--------------

ONLINE	ONLINE	paw-racnode2
--------	--------	--------------

ONLINE	ONLINE	paw-racnode3
--------	--------	--------------

ora.ons

ONLINE	ONLINE	paw-racnode1
--------	--------	--------------

ONLINE	ONLINE	paw-racnode2
--------	--------	--------------

ONLINE	ONLINE	paw-racnode3
--------	--------	--------------

ora.registry.acfs

ONLINE	ONLINE	paw-racnode1
--------	--------	--------------

ONLINE	ONLINE	paw-racnode2
--------	--------	--------------

ONLINE	ONLINE	paw-racnode3
--------	--------	--------------

Cluster Resources

ora.LISTENER_SCAN1.lsnr

1	ONLINE	ONLINE	paw-racnode1
---	--------	--------	--------------

ora.oc4j

1	OFFLINE	OFFLINE	
---	---------	---------	--

ora.racdb.db

1	ONLINE	ONLINE	paw-racnode1	Open
---	--------	--------	--------------	------

2	ONLINE	ONLINE	paw-racnode2	Open
---	--------	--------	--------------	------

3	ONLINE	ONLINE	paw-racnode3	Open
---	--------	--------	--------------	------

ora.paw-racnode1.vip

1	ONLINE	ONLINE	paw-racnode1
---	--------	--------	--------------

ora.paw-racnode2.vip

1	ONLINE	ONLINE	paw-racnode2
---	--------	--------	--------------

ora.paw-racnode3.vip

```
1 ONLINE ONLINE paw-racnode3
```

ora.scan1.vip

```
1      ONLINE  ONLINE      paw-racnode1
```

```
[grid@paw-racnode3 ~]$
```

```
[root@paw-racnode1 ~]# scp /u01/app/oracle/product/11.2.0/db_1/network/admin/tnsnames.ora root@paw-racnode3:/u01/app/oracle/product/11.2.0/db_1/network/admin
```

```
root@paw-racnode3's password:
```

```
tnsnames.ora 100% 557 0.5KB/s 00:00
```

```
[root@paw-racnode1 ~]# scp /u01/app/11.2.0/grid/network/admin/listener.ora root@paw-racnode3:/u01/app/11.2.0/grid/network/admin/
```

```
root@paw-racnode3's password:
```

listener.ora	100%	350	0.3KB/s	00:00
--------------	------	-----	---------	-------

```
[root@paw-racnode1 ~]# scp /u01/app/11.2.0/grid/network/admin/endpoints_listener.ora root@paw-racnode3:/u01/app/11.2.0/grid/network/admin/
```

```
root@paw-racnode3's password:
```

endpoints	listener.ora	100%	186	0.2KB/s	00:00
-----------	--------------	------	-----	---------	-------

```
[root@paw-racnode1 admin]# scp /u01/app/11.2.0/grid/network/admin/sqlnet.ora root@paw-racnode3:/u01/app/11.2.0/grid/network/admin/
```

```
root@paw-racnode3's password:
```

sqlnet.ora	100%	220	0.2KB/s	00:00
------------	------	-----	---------	-------

```
[root@paw-racnode1 ~]# cd /u01/app/11.2.0/grid/network/admin/
```

```
[root@paw-racnode1 admin]# ll
```

total 28

```
-rw-r--r-- 1 grid oinstall 186 Apr 18 14:44 endpoints listener.ora
```

```
-rw-r--r-- 1 grid oinstall 350 Apr 18 14:44 listener.ora
```

```
drwxr-xr-x 2 grid oinstall 4096 Apr 18 12:53 samples
```

```
-rw-r--r-- 1 grid oinstall 187 May 7 2007 shrept.lst
```

```
-rw-r--r-- 1 grid oinstall 220 Apr 18 14:44 sqlnet.ora
```

```
[root@paw-racnode1 admin]# cd /u01/app/oracle/product/11.2.0/db_1/network/admin/
```

```
[root@paw-racnode1 admin]# ll
```

```
total 12
```

```
drwxr-xr-x 2 oracle oinstall 4096 Apr 19 12:53 samples
```

```
-rw-r--r-- 1 oracle oinstall 187 May 7 2007 shrept.lst
```

```
-rw-r----- 1 oracle oinstall 557 Apr 25 12:43 tnsnames.ora
```

AIRYDBA (airydba@gmail.com) Don't Copy