# Installation Prequisites

## Hardware

### Memory

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Recommend | Value | Passed |
| ***Instance 1*** | | | |
| RAM | >= 4 GB |  | ☐ |
| Swap | 2-16GB: = RAM  > 16GB: =0.75 RAM |  | ☐ |
| ***Instance2*** | | | |
| RAM | >= 4 GB |  | ☐ |
| Swap | 2-16GB: = RAM  > 16GB: =0.75 RAM |  | ☐ |

##### Commands

|  |  |
| --- | --- |
| *RAM check* | |
| # /usr/sbin/prtconf | grep "Memory size" | |
| ***Swap check*** | |
| # /usr/sbin/swap -l  # df –h  # sar -r -<i><n>  (Where, n is the number of seconds to delay for the next iterations and i is the number of iterations you want to test) | |
| ***Check log (please, embeded check log content in the file)*** |  |

### System architect

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Recommend | Value | Passed |
| ***Instance 1*** | | | |
| System architecture | 64-bit sparcv9 kernel modules |  | ☐ |
| ***Instance 2*** | | | |
| System architecture | 64-bit sparcv9 kernel modules |  | ☐ |

##### Commands

|  |  |
| --- | --- |
| *Check command* | |
| # /bin/isainfo -kv | |
| ***Check log (please, embeded check log content in the file)*** |  |

### Disk space

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Recommend | Value | Passed |
| ***Instance 1*** | | | |
| Oracle software space | >= 4.7 GB |  | ☐ |
| Free space in /tmp | >= 1 GB |  | ☐ |
| ***Instance 2*** | | | |
| Oracle software space | >= 4.7 GB |  | ☐ |
| Free space in /tmp | >= 1 GB |  | ☐ |

##### Commands

|  |  |
| --- | --- |
| *Free space check* | |
| # df –h | |
| ***If free space available in /tmp less than required, add to environment (profile)*** | |
| export TMP= *<directory>*  export TMPDIR=*<directory>* | |
| ***Check log (please, embeded check log content in the file)*** |  |

### Run level

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Recommend | Value | Passed |
| ***Instance 1*** | | | |
| Run level | 3 |  | ☐ |
| ***Instance 2*** | | | |
| Run level | 3 |  | ☐ |

##### Commands

|  |  |
| --- | --- |
| *Run level check* | |
| # who –r | |
| ***Run level change*** | |
| # /sbin/init *<run level>*  *Or permanent change in /etc/inittab (find the entry “is:3:initdefault:”)* | |
| ***Check log (please, embeded check log content in the file)*** |  |

## Software

### Operating system

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Recommend | Value | Passed |
| ***Instance 1*** | | | |
| Version | Oracle Solaris 10 U6 (5.10-2008.10) or later |  | ☐ |
| ***Instance 2*** | | | |
| Version | Oracle Solaris 10 U6 (5.10-2008.10) or later |  | ☐ |

##### Commands

|  |  |
| --- | --- |
| *Check value in /etc/release* | |
| # uname –r  # cat /etc/release | |
| ***Check "Actual Value" reported by the OUI*** | |
| # /usr/bin/pkginfo -l SUNWsolnm | /usr/bin/nawk -F= '/VERSION/ {"/usr/bin/uname -r" | getline uname; print uname "-" $2}' | |
| ***Check log (please, embeded check log content in the file)*** |  |

### Packages

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Recommend | Value | Passed |
| ***Instance 1*** | | | |
| Packages installed | SUNWarc  SUNWbtool  SUNWhea  SUNWlibC  SUNWlibm  SUNWlibms  SUNWsprot  SUNWtoo  SUNWi1of  SUNWi1cs (ISO8859-1)  SUNWi15cs (ISO8859-15)  SUNWxwfnt  SUNWcsl |  | ☐ |
| ***Instance 2*** | | | |
| Packages installed | SUNWarc  SUNWbtool  SUNWhea  SUNWlibC  SUNWlibm  SUNWlibms  SUNWsprot  SUNWtoo  SUNWi1of  SUNWi1cs (ISO8859-1)  SUNWi15cs (ISO8859-15)  SUNWxwfnt  SUNWcsl |  | ☐ |

##### If Sun Cluster used

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Recommend | Value | Passed |
| Patches | SUNWscucm 3.2.0-2008.02  SUNWudlmr 3.2.0-2008.02  SUNWudlm3.2.0-2008.2  ORCLudlm 64-Bit reentrant 3.3.4.10 |  | ☐ |

##### If ODBC used

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Recommend | Value | Passed |
| Patches | gcc 3.4.2 |  | ☐ |

##### If Pro\*C/C++, Oracle Call Interface, Oracle C++ Call Interface, Oracle XML Developer's Kit (XDK) installed

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Recommend | Value | Passed |
| Patches | Oracle Solaris Studio 12 |  | ☐ |

##### Commands

|  |  |
| --- | --- |
| *Check command* | |
| **# pkginfo -i SUNWarc SUNWbtool SUNWhea SUNWlibC SUNWlibms SUNWsprot SUNWtoo SUNWi1of SUNWi1cs SUNWi15cs SUNWxwfnt** | |
| ***Check log (please, embeded check log content in the file)*** |  |

### Java

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Recommend | Value | Passed |
| ***Instance 1*** | | | |
| Java version | JDK 6 Update 10 or  JDK 5 (1.5.0\_16) |  | ☐ |
| ***Instance 2*** | | | |
| Java version | JDK 6 Update 10 or  JDK 5 (1.5.0\_16) |  | ☐ |

##### Commands

|  |  |
| --- | --- |
| *Check command* | |
| **# which java**  **# java –version** | |
| ***Check log (please, embeded check log content in the file)*** |  |

### Patches

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Recommend | Value | Passed |
| ***Instance 1*** | | | |
| Patches | 120753-06  139574-03  141444-09  141414-02  119963-14  127111-03[[1]](#footnote-2) |  | ☐ |
| ***Instance 2*** | | | |
| Patches | 120753-06  139574-03  141444-09  141414-02  119963-14  127111-03[[2]](#footnote-3) |  | ☐ |

##### If Pro\*C/C++, Pro\*FORTRAN, Oracle Call Interface, Oracle C++ Call Interface, Oracle XML Developer's Kit (XDK) installed

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Recommend | Value | Passed |
| ***Instance 1*** | | | |
| Patches | 124861-15 |  | ☐ |
| ***Instance 2*** | | | |
| Patches | 124861-15 |  | ☐ |

##### If Database Smart Flash Cache used[[3]](#footnote-4)

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Recommend | Value | Passed |
| ***Instance 1*** | | | |
| Patches | 125555-03  140796-01  140899-01  141016-01  139555-08  141414-10  141736-05 |  | ☐ |
| ***Instance 2*** | | | |
| Patches | 125555-03  140796-01  140899-01  141016-01  139555-08  141414-10  141736-05 |  | ☐ |

##### If configured Failure Isolation using IPMI

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Recommend | Value | Passed |
| ***Instance 1*** | | | |
| Patches | 137585-05  137594-02 |  | ☐ |
| ***Instance 2*** | | | |
| Patches | 137585-05  137594-02 |  | ☐ |

##### If configured Failure Isolation using IPMI

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Item | Recommend | Value | Passed | |
| ***Instance 1*** | | | | |
| *Sun Blade T6340 Server Module Sun System Firmware with LDOMS support* | | | |  |
| Patches | 139448-03 |  | | ☐ |
| *SPARC Enterprise T5440 Sun System Firmware with LDOMS support* | | | |  |
| Patches | 139446-03 |  | | ☐ |
| *Netra T5440 Sun System Firmware with LDOMS support* | | | |  |
| Patches | 139445-04 |  | | ☐ |
| *SPARC Enterprise T5140 & T5240 Sun System Firmware LDOMS* | | | |  |
| Patches | 139444-03 |  | | ☐ |
| *Netra T5220 Sun System Firmware with LDOMS support* | | | |  |
| Patches | 139442-06 |  | | ☐ |
| *Sun Blade T6320 + T6320-G2 Server Module Sun System Firmware with LDOMS support* | | | |  |
| Patches | 139440-04 |  | | ☐ |
| *SPARC Enterprise T5120 & T5220 Sun System Firmware with LDOMS support* | | | |  |
| Patches | 139439-04 |  | | ☐ |
| ***Instance 2*** | | | | |
| *Sun Blade T6340 Server Module Sun System Firmware with LDOMS support* | | | |  |
| Patches | 139448-03 |  | | ☐ |
| *SPARC Enterprise T5440 Sun System Firmware with LDOMS support* | | | |  |
| Patches | 139446-03 |  | | ☐ |
| *Netra T5440 Sun System Firmware with LDOMS support* | | | |  |
| Patches | 139445-04 |  | | ☐ |
| *SPARC Enterprise T5140 & T5240 Sun System Firmware LDOMS* | | | |  |
| Patches | 139444-03 |  | | ☐ |
| *Netra T5220 Sun System Firmware with LDOMS support* | | | |  |
| Patches | 139442-06 |  | | ☐ |
| *Sun Blade T6320 + T6320-G2 Server Module Sun System Firmware with LDOMS support* | | | |  |
| Patches | 139440-04 |  | | ☐ |
| *SPARC Enterprise T5120 & T5220 Sun System Firmware with LDOMS support* | | | |  |
| Patches | 139439-04 |  | | ☐ |

##### If Sun Cluster used

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Recommend | Value | Passed |
| ***Instance 1*** | | | |
| Patches | 125508-08  125514-05  125992-04  126047-11  126095-05  126106-33 |  | ☐ |
| ***Instance 2*** | | | |
| Patches | 125508-08  125514-05  125992-04  126047-11  126095-05  126106-33 |  | ☐ |

##### Commands

|  |  |
| --- | --- |
| *Check command* | |
| **# /usr/sbin/patchadd -p | grep 120753**  **# /usr/sbin/patchadd -p | grep 139574**  **# /usr/sbin/patchadd -p | grep 141444**  **# /usr/sbin/patchadd -p | grep 141414**  **# /usr/sbin/patchadd -p | grep 119963**  **# /usr/sbin/patchadd -p | grep 124861**  **# /usr/sbin/patchadd -p | grep 125555**  **# /usr/sbin/patchadd -p | grep 140796**  **# /usr/sbin/patchadd -p | grep 140899**  **# /usr/sbin/patchadd -p | grep 141016**  **# /usr/sbin/patchadd -p | grep139555**  **# /usr/sbin/patchadd -p | grep141414**  **# /usr/sbin/patchadd -p | grep141736** | |
| ***Check log (please, embeded check log content in the file)*** |  |

##### Commands

|  |  |
| --- | --- |
| *Check command* | |
| **# /usr/sbin/patchadd -p | grep 120753**  **# /usr/sbin/patchadd -p | grep 139574**  **# /usr/sbin/patchadd -p | grep 141444**  **# /usr/sbin/patchadd -p | grep 141414**  **# /usr/sbin/patchadd -p | grep 125508**  **# /usr/sbin/patchadd -p | grep 125514**  **# /usr/sbin/patchadd -p | grep 125992**  **# /usr/sbin/patchadd -p | grep 126047**  **# /usr/sbin/patchadd -p | grep 126095**  **# /usr/sbin/patchadd -p | grep 126106** | |
| ***Check log (please, embeded check log content in the file)*** |  |

## Network

-On Oracle RAC each node has at least two network interface cards.

-Public interface names must be the same for all nodes.

-You should configure the same private interface names for all nodes as well.

-The network adapter for the public interface must support TCP/IP.

-The network adapter for the private interface must support the user datagram protocol (UDP) using high-speed network adapters and a network switch that supports TCP/IP (Gigabit Ethernet or better).

# Preparations

## UDP and TCP Kernel Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Recommend | Value | Passed |
| ***Instance 1*** | | | |
| tcp\_smallest\_anon\_port | 9000 |  | ☐ |
| tcp\_largest\_anon\_port | 65500 |  | ☐ |
| ***Instance 2*** | | | |
| tcp\_smallest\_anon\_port | 9000 |  | ☐ |
| tcp\_largest\_anon\_port | 65500 |  | ☐ |

##### Commands

|  |  |  |
| --- | --- | --- |
| *Check command* | | |
| # /usr/sbin/ndd /dev/tcp tcp\_smallest\_anon\_port tcp\_largest\_anon\_port | | |
| ***Set command*** | | |
| ndd -set /dev/tcp tcp\_smallest\_anon\_port 9000  ndd -set /dev/tcp tcp\_largest\_anon\_port 65500  ndd -set /dev/udp udp\_smallest\_anon\_port9000  ndd -set /dev/udp udp\_largest\_anon\_port 65500 | | |
| ***Permanent change scripts*** | |  |
| #  # # vi /etc/init.d/ndd  # # chmod 744 /etc/init.d/ndd  # # chown root:sys /etc/init.d/ndd  # # ln /etc/init.d/ndd /etc/rc2.d/S70ndd  #  # The basic idea is to put the ndd commands in this script so they get run # on a reboot at the proper time.  # Start content of script from below !!!!!!!  #!/sbin/sh  #  # Ephemeral port range adjustment  #  # These options define the upper and lower bounds on ephemeral ports.  # Ephemeral (means short-lived) ports are used when establishing  # outbound network connections.  #  # Defaults values:  # tcp\_smallest\_anon\_port=32768  # tcp\_largest\_anon\_port=65535  # udp\_smallest\_anon\_port=32768  # udp\_largest\_anon\_port=65535  #  #tcp\_smallest\_anon\_port=32768  #tcp\_largest\_anon\_port=65535  #udp\_smallest\_anon\_port=32768  #udp\_largest\_anon\_port=65535  #  # for oracle installation  ndd -set /dev/tcp tcp\_smallest\_anon\_port 9000  ndd -set /dev/tcp tcp\_largest\_anon\_port 65500  ndd -set /dev/udp udp\_smallest\_anon\_port9000  ndd -set /dev/udp udp\_largest\_anon\_port 65500 | | |
| ***Check log (please, embeded check log content in the file)*** |  | |

## Shell Limits

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Recommend | Value | Passed |
| ***Instance 1*** | | | |
| TIME | Unlimited |  | ☐ |
| FILE | Unlimited |  | ☐ |
| DATA | >=1048576 |  | ☐ |
| STACK | >=32768 |  | ☐ |
| NOFILES | >=4096 |  | ☐ |
| VMEMORY | >=4194304 |  | ☐ |
| ***Instance 2*** | | | |
| TIME | Unlimited |  | ☐ |
| FILE | Unlimited |  | ☐ |
| DATA | >=1048576 |  | ☐ |
| STACK | >=32768 |  | ☐ |
| NOFILES | >=4096 |  | ☐ |
| VMEMORY | >=4194304 |  | ☐ |

##### Commands

|  |  |
| --- | --- |
| *Check command* | |
| # ulimit -t  # ulimit -f  # ulimit -d  # ulimit -s  # ulimit -n  # ulimit –v  # ulimit -a | |
| ***Set command*** | |
| **# ulimit –s 32768**  **# ulimit –n 4096** | |
| ***Check log (please, embeded check log content in the file)*** |  |

## Kernel parameters

##### Reference

|  |  |  |
| --- | --- | --- |
| Parameter | Replaced by Resource Control | Recommended value |
| noexec\_user\_stack | NA | 1 |
| semsys:seminfo\_semmni | project.max-sem-ids | 100 |
| semsys:seminfo\_semmns | NA | 1024 |
| semsys:seminfo\_semmsl | process.max-sem-nsems | 256 |
| semsys:seminfo\_semvmx | NA | 32767 |
| shmsys:shminfo\_shmmax | project.max-shm-memory | 4294967295 |
| shmsys:shminfo\_shmmni | project.max-shm-ids | 100 |
| rlim\_fd\_max | process.max-file-descriptor | 65536[[4]](#footnote-5) |

* Values for project.max-shm-memory and shmsys:shminfo\_shmmax should be equal to 0.8\*RAM in bytes
* set ce:ce\_taskq\_disable=1 to /etc/system if the ce network interface is used for cluster interconnect to prevent frequent node reboots.
* **Values of parameters would be required to higher** during checking of cluster verify script.

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Recommend | Value | Passed |
| ***Instance 1*** | | | |
| project.max-sem-ids | >=100 |  | ☐ |
| process.max-sem-nsems | >=256 |  | ☐ |
| project.max-shm-memory | >=4294967295 |  | ☐ |
| project.max-shm-ids | >=100 |  | ☐ |
| noexec\_user\_stack | >=1 |  | ☐ |
| semsys:seminfo\_semmni | >=100 |  | ☐ |
| semsys:seminfo\_semmns | >=1024 |  | ☐ |
| semsys:seminfo\_semmsl | >=256 |  | ☐ |
| semsys:seminfo\_semvmx | >=32767 |  | ☐ |
| shmsys:shminfo\_shmmax | >=4294967295 |  | ☐ |
| shmsys:shminfo\_shmmni | >=100 |  | ☐ |
| process.max-file-descriptor | 65536 |  | ☐ |
| ***Instance 2*** | | | |
| project.max-sem-ids | >=100 |  | ☐ |
| process.max-sem-nsems | >=256 |  | ☐ |
| project.max-shm-memory | >=4294967295 |  | ☐ |
| project.max-shm-ids | >=100 |  | ☐ |
| noexec\_user\_stack | >=1 |  | ☐ |
| semsys:seminfo\_semmni | >=100 |  | ☐ |
| semsys:seminfo\_semmns | >=1024 |  | ☐ |
| semsys:seminfo\_semmsl | >=256 |  | ☐ |
| semsys:seminfo\_semvmx | >=32767 |  | ☐ |
| shmsys:shminfo\_shmmax | >=4294967295 |  | ☐ |
| shmsys:shminfo\_shmmni | >=100 |  | ☐ |
| process.max-file-descriptor | 65536 |  | ☐ |

##### If ce network interface is used

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Recommend | Value | Passed |
| ce:ce\_taskq\_disable | 1 |  | □ |

##### Commands

|  |  |
| --- | --- |
| *Check command* | |
| # /etc/sysdef | grep SHM  # /etc/sysdef | grep SEM  # cat /etc/system  #  $ id –p  $ prctl -n project.max-shm-memory -i process $$  $ prctl -i project user.oracle  # su oracle -c 'sh -c "prctl -i process $$"'  $ cat /etc/project  grid$ oifcfg getif | grep ce | |
| ***Set command*** | |
| # projadd -c "Oracle" 'user.oracle'  # projmod -sK "project.max-shm-memory=(privileged,4G,deny)" group.dba  # projmod -sK "project.max-sem-ids =(privileged,100,deny)" group.dba  # projmod -sK "process.max-sem-nsems=(privileged,256,deny)" group.dba  # projmod -sK "project.max-shm-ids=(privileged,100,deny)" group.dba  #  # vi /etc/system  set noexec\_user\_stack=1  set semsys:seminfo\_semmni=  set semsys:seminfo\_semmns=  set semsys:seminfo\_semmsl=  set semsys:seminfo\_semvmx=  set shmsys:shminfo\_shmmax=  set shmsys:shminfo\_shmmni=  set ce:ce\_taskq\_disable=1 | |
| ***Check log (please, embeded check log content in the file)*** |  |

## NTP Settings

* Oracle Clusterware requires the same time zone setting on all cluster nodes. There are two options:
  + Network Time Protocol (NTP)
  + Oracle Cluster Time Synchronization Service (CTSS)
* If NTP is used, CTSS run in observer mode. Setting needed for /etc/inetd/ntp.conf (see check list)
* If NTP is not used, CTSSrun in active mode. Check list should be ignored.

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Recommend | Value | Passed |
| ***Instance 1*** | | | |
| slewalways yes | Added |  | ☐ |
| disable pll | Added |  | ☐ |
| ***Instance 2*** | | | |
| slewalways yes | Added |  | ☐ |
| disable pll | Added |  | ☐ |

##### Commands

|  |  |
| --- | --- |
| *Check command* | |
| $ crsctl check ctss | |
| ***Set command*** | |
| $ps –ef|grep ntp  # vi /etc/inetd/ntp.conf  # /usr/sbin/svcadm restart ntp | |
| ***Check log (please, embeded check log content in the file)*** |  |

## Disabled Firewall

|  |
| --- |
| *Set command* |
| #svcadm disable ipfilter |

## Cluster verify scripts

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Recommend | Value | Passed |
| Cluster verify scripts | Passed all |  | ☐ |

##### Commands

|  |  |
| --- | --- |
| *Set command* | |
| $ ./runcluvfy.sh stage -pre crsinst -n node1,node2 -fixup -verbose | |
| ***Check log (please, embeded check log content in the file)*** |  |

# Oracle configuration

## Oracle users and directories

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Recommend | Value | Passed |
| ***Instance 1*** | | | |
| Grid owner | grid |  | ☐ |
| Grid based path | (local disk) |  | ☐ |
| GRID\_HOME | (local disk) |  | ☐ |
| GRID\_HOME mode | 755 |  | ☐ |
| TNS\_ADMIN for Grid | Not set |  | ☐ |
| Oracle owner | oracle |  | ☐ |
| Oracle based path | (local disk) |  | ☐ |
| ORACLE\_HOME | (local disk) |  | ☐ |
| ORACLE\_HOME mode | 755 |  | ☐ |
| Primary group | oinstall |  | ☐ |
| Secondary groups | dba |  | ☐ |
| ***Instance 2*** | | | |
| Grid owner | grid |  | ☐ |
| Grid based path | (local disk) |  | ☐ |
| GRID\_HOME | (local disk) |  | ☐ |
| GRID\_HOME mode | 755 |  | ☐ |
| TNS\_ADMIN for Grid | Not set |  | ☐ |
| Oracle owner | oracle |  | ☐ |
| Oracle based path | (local disk) |  | ☐ |
| ORACLE\_HOME | (local disk) |  | ☐ |
| ORACLE\_HOME mode | 755 |  | ☐ |
| Primary group | oinstall |  | ☐ |
| Secondary groups | dba |  | ☐ |

##### Commands

|  |  |
| --- | --- |
| Check command | |
| # id –a oracle  # id –a grid | |
| **Set command** | |
| # groupadd -g 1000 oinstall  # groupadd -g 1020 asmadmin  # groupadd -g 1021 asmdba  # groupadd -g 1022 asmoper  # groupadd -g 1031 dba  # useradd -u 1100 -g oinstall -G asmadmin,asmdba,asmoper –d /export/home/grid grid  # useradd -u 1101 -g oinstall -G dba,asmdba –d /export/home/oracle oracle  # mkdir -p /u01/app/11.2.0/grid  # mkdir -p /uo1/app/grid  # chown -R grid:oinstall /u01  # mkdir -p /u01/app/oracle  # chown oracle:oinstall /u01/app/oracle  # chmod -R 775 /u01 | |
| ***Check log (please, embeded check log content in the file)*** |  |

## Scan name and Ips

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Recommend | Value | Passed |
| Scan name | N/A |  | ☐ |
| Scan VIP | 3 VIPs |  | ☐ |
| Scan name resolved | DNS resolution |  | ☐ |
| Node 1 public | N/A |  | ☐ |
| Node 2 public | N/A |  | ☐ |
| Node 1 VIP | N/A |  | ☐ |
| Node 2 VIP | N/A |  | ☐ |
| Node 1 Private | N/A |  | ☐ |
| Node 2 Private | N/A |  | ☐ |

##### Commands

|  |  |
| --- | --- |
| *Check command* | |
| grid$ srvctl config scan  # nslookup <scanname.domain>  grid$ oifcfg getif  # ifconfig –a  grid$ srvctl config vip –n <node name>  SQL> select INST\_ID, IP\_ADDRESS from GV$CLUSTER\_INTERCONNECTS; | |
| ***Check log (please, embeded check log content in the file)*** |  |

## Database version

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Recommend | Value | Passed |
| Grid version | >=11.2.0.3 |  | ☐ |
| Database version | >=11.2.0.3 |  | ☐ |
| Patches applied | >=11.2.0.3.2 |  | ☐ |

##### Commands

|  |  |
| --- | --- |
| *Check command* | |
| SQL> select comp\_id, com\_name, version, status from dba\_registry;  $ opatch lsinventory | |
| ***Check log (please, embeded check log content in the file)*** |  |

## Database parameters

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Recommend | Value | Passed |
| DB\_LOCK\_SIZE | >=4096 |  | ☐ |
| ACTIVE\_INSTANCE\_COUNT | Not set |  | ☐ |
| PARALLEL\_MAX\_SERVERS | =4xCPU |  | ☐ |
| FAST\_START\_PARALLEL\_ROLLBACK | =4xCPU |  | ☐ |
| PRE\_PAGE\_SGA | False |  | ☐ |
| LOCAL\_LISTENER | Default values |  | ☐ |

##### Commands

|  |  |
| --- | --- |
| *Check command* | |
| SQL>show parameter <parameter name>; | |
| ***Check log (please, embeded check log content in the file)*** |  |

## ASM configuration

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Recommend | Value | Passed |
| ASM AU | 4MB |  | ☐ |
| Number of diskgroups for data | <=2 |  | ☐ |
| Number of diskgroups for cluster | <=1 |  | ☐ |

* Do not add more than 2 TB size disk to a diskgroup.

##### Commands

|  |  |
| --- | --- |
| *Check command* | |
| SQL>select group\_number, name, allocation\_unit\_size/1024/1024 sizeinMB from v$asm\_diskgroup; | |
| ***Check log (please, embeded check log content in the file)*** |  |

# 

1. According to note 1006158.1 [↑](#footnote-ref-2)
2. According to note 1006158.1 [↑](#footnote-ref-3)
3. Used in highend series like M-series or Exadata. Ask customer if Smart Flash Cache available [↑](#footnote-ref-4)
4. According to note 1073073.1 [↑](#footnote-ref-5)