

AuditCheck Name	Related to	Modules	Platforms	Pass Message
ASM Cache size	ASM	V2, 1/8, SSC, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	ASM Cache is sized properly
ASM Cell smart scan	ASM	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	All disk groups have CELL.SMART_SCAN_CAPABLE parameter set to true
ASM Version	ASM	1/8, SSC, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	ASM Version is 11.2.0.2 or higher as expected
ASM allocation unit size for all disk groups	ASM	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	All disk groups have allocation unit size set to 4MB
ASM disk group compatible.asm parameter	ASM	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	All disk groups have compatible.asm parameter set to recommended values
ASM disk group compatible.rdbms parameter	ASM	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	All disk groups have compatible.rdbms parameter set to recommended values

CRS and ASM version comparison	ASM	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	CRS version is higher or equal to ASM version.
Check ASM version	ASM	V2	Linux x86_64 (226) - OEL/RHEL 5	ASM version is higher or equal to 11.2.0.1
DBM FailGroups	ASM	V2, 1/8, SSC, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Correct number of FailGroups per ASM DiskGroup are configured

Disks without Disk Group	ASM	V2, 1/8, SSC, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	No disks found which are not part of any disk group
Infiniband Network for ASM Communication	ASM	V2	Linux x86_64 (226) - OEL/RHEL 5	Infiniband network is being used for ASM Communication
Info about ASM processes parameter change	ASM	PREUPGRDBM, PREUPGREIGHTH, PREUPGRSUPERCLUSTER, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Information about ASM process parameter when its not set to default value

Manage ASM Audit File Directory Growth with cron	ASM	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	ASM Audit file destination file count <= 100,000
Processes parameter for ASM instance	ASM	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	ASM processes parameter is set to recommended value
Startup sequence in ASM alert log for RDS check	ASM	V2	Linux x86_64 (226) - OEL/RHEL 5	Startup sequence found in ASM alert log for RDS check
Verify DATA% diskgroup content type attribute is "data"	ASM	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	ASM gridisk data content type attribute is set to Oracle recommendation
Verify DBFS_DG% diskgroup content type attribute is "system"	ASM	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	ASM gridisk system content type attribute is set to Oracle recommendation
Verify RECO% diskgroup content type attribute is "recovery"	ASM	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	ASM gridisk recovery content type attribute is set to Oracle recommendation

Verify no ASM corruption is reported	ASM	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	There was no ASM corruption found.
Verify no ASM external redundancy diskgroups exist	ASM	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	There are no ASM external redundancy diskgroups.
Verify no ASM unprotected templates exist	ASM	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	There are no ASM unprotected templates.
cluster_interconnects	ASM	V2, 1/8, POSTUPGRDBM, POSTUPGREIGHTH, POSTUPGRSUPERCLUSTER, POSTUPGRX2-2, POSTUPGRX2-8, POSTUPGRX3-2, POSTUPGRX3-8, PREUPGRDBM, PREUPGREIGHTH, PREUPGRSUPERCLUSTER, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	ASM parameter CLUSTER_INTERCONNECTS is set to the recommended value
CSS log file size	CRS	V2	Linux x86_64 (226) - OEL/RHEL 5	CSS log file size has been increased from default (50 MB) .

Clusterware resource status	CRS	PREUPGRDBM, PREUPGREIGHTH, PREUPGRSUPERCLUST ER, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	No clusterware resource are in unknown state
Infiniband for Cluster communication	CRS	V2	Linux x86_64 (226) - OEL/RHEL 5	Clusterware is using Infiniband for communication
Interconnect NIC bonding config.	CRS	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9	NIC bonding is configured for interconnect
Interconnect NIC bonding config.	CRS	V2, 1/8, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5	NIC bonding is configured for interconnect
Jumbo frames configuration for infiniband	CRS	V2	Linux x86_64 (226) - OEL/RHEL 5	MTU (65520) configuration for infiniband meets recommendation

NIC Bonding Mode Public	CRS	1/8, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5	NIC bonding mode is not set to Broadcast(3) for public network
NIC Bonding Mode Public	CRS	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9	NIC bonding mode is not set to Broadcast(3) for public network
NIC Bonding Mode interconnect	CRS	1/8, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5	NIC bonding mode is not set to Broadcast(3) for cluster interconnect
NIC Bonding Mode interconnect	CRS	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9	NIC bonding mode is not set to Broadcast(3) for cluster interconnect
Non-routable network for interconnect	CRS	1/8, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5	Interconnect is configured on non-routable network addresses

Non-routable network for interconnect	CRS	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9	Interconnect is configured on non-routable network addresses
Number of SCAN listeners	CRS	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Number of SCAN listeners is equal to the recommended number of 3.
Number of SCAN listners	CRS	1/8, SSC, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Number of SCAN listeners is equal to the recommended number of 3.

Public and Private Interface Link Local Check	CRS	POSTUPGRDBM	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	No Private or Public Interfaces are assigned to Link Local address range
VIP NIC bonding config.	CRS	1/8, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5	NIC bonding is configured for public network (VIP)
VIP NIC bonding config.	CRS	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9	NIC bonding is configured for public network (VIP)
Verify Cluster Synchronization Services (CSS) misscount = 60	CRS	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	CSS misscount is set to the recommended value of 60

Verify InfiniBand is the Private Network for Oracle Clusterware Communication	CRS	V2, 1/8, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5	InfiniBand is the Private Network for Oracle Clusterware Communication
Verify database server InfiniBand network MTU size is 65520	CRS	1/8, SSC, X2-2, X2-8, X3-2, X3-8	Solaris (23) - 11, Solaris x86-64 (267) - 11	Database Server InfiniBand network MTU size is 65520
Verify database server InfiniBand network MTU size is 65520	CRS	1/8, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5	Database Server InfiniBand network MTU size is 65520
Voting disk status	CRS	1/8, SSC, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	All voting disks are online
Voting disk status	CRS	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	All voting disks are online
Exadata software version compatibility with infiniband software version	IB SWITCH	V2, 1/8, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris x86-64 (267) - 11	Infiniband switch firmware version is compatible with Exadata software version

Hostname in /etc/hosts	IB SWITCH	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Hostname is set in /etc/hosts
Infiniband Switch NTP configuration	IB SWITCH	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	NTP configuration has been changed from default
Infiniband subnet manager status	IB SWITCH	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Subnet manager daemon is running
Infiniband subnet manager status for spine	IB SWITCH	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Subnet manager daemon is running on spine switch
Infiniband subnet manager status on leaf	IB SWITCH	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Subnet manager daemon is not running on leaf switch when more than 12 switch in fabric
Infiniband switch HOSTNAME configuration	IB SWITCH	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	HOSTNAME is set in /etc/sysconfig/network
Infiniband switch controlled_handover configuration	IB SWITCH	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	controlled_handover is set to recommended value of TRUE
Infiniband switch log_flags configuration	IB SWITCH	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	log_flags is set to recommended value of 0x03

Infiniband switch polling_retry_number configuration	IB SWITCH	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	polling_retry_number is set to recommended value of 5
Infiniband switch routing_engine configuration	IB SWITCH	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	routing_engine is set to recommended value of ftree
Infiniband switch sminfo_polling_timeout configuration	IB SWITCH	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	sminfo_polling_timeout is set to recommended value of 1000
Switch firmware version	IB SWITCH	V2, 1/8, PREUPGRDBM, PREUPGREIGHTH, PREUPGRSUPERCLUSTER, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8, SSC, X2-2, X2-8, X3-2	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Infiniband switch software version meets the recommendation
Verify average ping times to DNS nameserver	IB SWITCH	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	DNS Server ping time is in acceptable range
sm_priority configuration on Infiniband switch	IB SWITCH	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	sm_priority is set to recommended value

/tmp directory free space	OTHER	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9	Free space in /tmp directory meets or exceeds recommendation of minimum 1GB
BP14 11.2.0.3.5 GI PSU Upgrade Issue	OTHER	PREUPGRDBM, PREUPGREIGHTH, PREUPGRSUPERCLUSTER, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Solaris (23) - 11, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Applying BP 14 (11.2.0.3.5 GI PSU) During Upgrade Before Running rootupgrade.sh Can Cause Upgrade To Fail
BP9 or greater in Grid Infrastructure home for Write Back Flash Cache	OTHER	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Write Back Flash Cache is in use and the grid home version is 11.2.0.3 BP 9 or higher

Backing up Enterprise Manager Database Control Data	OTHER	PREUPGRDBM, PREUPGREIGHTH, PREUPGRSUPERCLUSTER, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Save "Oracle Enterprise Manager Database Control" files and data with the emdwgrd Utility before upgrading database.
CRS HOME env variable	OTHER	1/8, SSC, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86- 64 (267) - 11	ORA_CRS_HOME environment variable is not set
CRS HOME env variable	OTHER	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9	ORA_CRS_HOME environment variable is not set

CRS Opatch version	OTHER	PREUPGRDBM, PREUPGREIGHTH, PREUPGRSUPERCLUSTER, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Opatch version is equal or higher than recommended in GRID_HOME
Capture performance baseline, backup important configuration files and stop all scheduled jobs	OTHER	PREUPGRDBM, PREUPGREIGHTH, PREUPGRSUPERCLUSTER, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	manual tasks before upgrade

Client failover operational best practices	OTHER	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Client failover operational best practices
Clusterware status	OTHER	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Clusterware is running

Computer failure prevention best practices	OTHER	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Computer failure prevention best practices
Configure NTP slew_always settings as SMF property	OTHER	V2, 1/8, PREUPGRDBM, PREUPGREIGHTH, PREUPGRSUPERCLUSTER, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8, SSC, X2-2, X2-8, X3-2	Solaris (23) - 11, Solaris x86-64 (267) - 11	Database server NTP slew_always configuration matches recommended configuration

Consolidation Database Practices	OTHER	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Consolidation Database Practices
Critical issue DB14	OTHER	X2-8, X3-8	Linux x86_64 (226) - OEL/RHEL 5	System is not exposed to Exadata Critical Issue DB14
DB shell limits hard nfile	OTHER	1/8, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5	Shell limit hard nfile for DB is configured according to recommendation
DB shell limits hard nfile	OTHER	V2, PREUPGRDBM, PREUPGREIGHTH, PREUPGRSUPERCLUSTER, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9	Shell limit hard nfile for DB is configured according to recommendation
DB shell limits hard nproc	OTHER	1/8, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5	Shell limit hard nproc for DB is configured according to recommendation

DB shell limits hard nproc	OTHER	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9	Shell limit hard nproc for DB is configured according to recommendation
DB shell limits hard stack	OTHER	1/8, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5	Shell limit hard stack for DB is configured according to recommendation
DB shell limits hard stack	OTHER	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9	Shell limit hard stack for DB is configured according to recommendation
DB shell limits soft nfile	OTHER	1/8, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5	Shell limit soft nfile for DB is configured according to recommendation

DB shell limits soft nofile	OTHER	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9	Shell limit soft nofile for DB is configured according to recommendation
DB shell limits soft nproc	OTHER	1/8, SSC, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Shell limit soft nproc for DB is configured according to recommendation
DB shell limits soft nproc	OTHER	V2, PREUPGRDBM, PREUPGREIGHTH, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9	Shell limit soft nproc for DB is configured according to recommendation

Data corruption prevention best practices	OTHER	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Data corruption prevention best practices
Database failure prevention best practices	OTHER	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Database failure prevention best practices
Database server system model number	OTHER	1/8, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5	System model number is correct

Database/Cluster/Site failure prevention best practices	OTHER	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Database/Cluster/Site failure prevention best practices
Exadata Critical Issue DB04	OTHER	V2, 1/8, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	System is not exposed to Exadata Critical Issue DB04
Exadata Critical Issue DB09	OTHER	1/8, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5	System is not exposed to Exadata Critical Issue DB9
Exadata Critical Issue DB13	OTHER	X2-8, X3-8	Linux x86_64 (226) - OEL/RHEL 5	System is not exposed to Exadata Critical Issue DB13
Exadata Critical Issue DB8	OTHER	V2, 1/8, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5	System is not exposed to Exadata Critical Issue DB8
Free space in root file system	OTHER	V2, 1/8, SSC, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Free space in root(/) filesystem meets or exceeds recommendation.
Fully qualified hostname name length	OTHER	V2	Linux x86_64 (226) - OEL/RHEL 5	Hostname is less than or equal to 32 character
GI shell limits hard nofile	OTHER	V2, 1/8, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5	Shell limit hard nofile for GI is configured according to recommendation

GI shell limits hard nproc	OTHER	PREUPGRDBM, PREUPGREIGHTH, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9	Shell limit hard nproc for GI is configured according to recommendation
GI shell limits hard nproc	OTHER	V2, 1/8, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5	Shell limit hard nproc for GI is configured according to recommendation in /etc/security/limits.conf
GI shell limits hard stack	OTHER	V2, 1/8, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5	Shell limit hard stack for GI is configured according to recommendation
GI shell limits soft nofile	OTHER	PREUPGRDBM, PREUPGREIGHTH, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9	Shell limit soft nofile for GI is configured according to recommendation
GI shell limits soft nofile	OTHER	V2, 1/8, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5	Shell limit soft nofile for GI is configured according to recommendation in /etc/security/limits.conf
GI shell limits soft nproc	OTHER	V2, 1/8, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5	Shell limit soft nproc for GI is configured according to recommendation
HCA transfer rate on database server	OTHER	V2	Linux x86_64 (226) - OEL/RHEL 5	HCA transfer rate is 40 Gb/sec on database server

Hostname Formating	OTHER	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	None of the hostnames contains an underscore character
Infiniband Network for ASM Communication	OTHER	V2	Linux x86_64 (226) - OEL/RHEL 5	Infiniband network is being used for ASM Communication
Infiniband Switch counters on all switches	OTHER	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	InfiniBand network error counters are zero
Infiniband connection mode	OTHER	V2	Linux x86_64 (226) - OEL/RHEL 5	Infiniband connection mode is configured as "connected"

Instant Client Awareness	OTHER	PREUPGRDBM, PREUPGREIGHTH, PREUPGRSUPERCLUST ER, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Be Aware of New Instant Client for Simplified Deployment
Logical corruption prevention best practices	OTHER	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Logical corruption prevention best practices

MaxStartups setting in sshd_config	OTHER	V2, 1/8, PREUPGRDBM, PREUPGREIGHTH, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8, X2-2, X2-8, X3-2	Linux x86_64 (226) - OEL/RHEL 5	MaxStartups parameter in /etc/ssh/sshd_config is set to recommended value
Minimize Planned Downtime for Upgrades and Patching INFO	OTHER	PREUPGRDBM, PREUPGREIGHTH, PREUPGRSUPERCLUSTER, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Minimizing Planned Downtime for Upgrades and Patching
Minimum Operating system version	OTHER	PREUPGRDBM, PREUPGREIGHTH, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 5	Operating system version meets minimum required version to upgrade
Minimum exadata version required for ASR	OTHER	V2, 1/8, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris x86-64 (267) - 11	Exadata software version supports Automatic Service Request functionality

NTP with correct setting	OTHER	1/8, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9	NTP is running with correct setting
NTP with correct setting	OTHER	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9	NTP is running with correct setting

Network failure prevention best practices	OTHER	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Network failure prevention best practices
New Upgrade Utility catctl.pl	OTHER	PREUPGRDBM, PREUPGREIGHTH, PREUPGRSUPERCLUSTER, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Use New Upgrade Utility, catctl.pl script to upgrade database manually

OCR backup	OTHER	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	OCR is being backed up daily
OCR mirroring	OTHER	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9	OCR redundancy is being maintained using Oracle redundancy

ORACLE_HOME env variable	OTHER	PREUPGRDBM, PREUPGREIGHTH, PREUPGRSUPERCLUSTER, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	ORACLE_HOME environment variable is NOT set
ORA_CRS_HOME env variable	OTHER	PREUPGRDBM, PREUPGREIGHTH, PREUPGRSUPERCLUSTER, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	ORA_CRS_HOME environment variable is NOT set

ORA_NLS10 env variable	OTHER	PREUPGRDBM, PREUPGREIGHTH, PREUPGRSUPERCLUST ER, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	ORA_NLS10 environment variable is NOT set
OSWatcher status	OTHER	V2, 1/8, SSC, X2-2, X3- 2	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86- 64 (267) - 11	OSWatcher is running

Old log files in client directory in crs_home	OTHER	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	\$CRS_HOME/log/hostname/client directory does not have too many older log files
Older CVU trace files needing deletion	OTHER	V2	Linux x86_64 (226) - OEL/RHEL 5	NO old CVU log files found in \$CRS_HOME/cv/log
Operational Best Practices	OTHER	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Operational Best Practices

Oracle E-Business Suite Interoperability	OTHER	PREUPGRDBM, PREUPGREIGHTH, PREUPGRSUPERCLUSTER, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Oracle E-Business Suite interoperability and migration resources
Oracle OLAP Data Security Policies	OTHER	PREUPGRDBM, PREUPGREIGHTH, PREUPGRSUPERCLUSTER, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	If any OLAP Data security roles are defined in 11g database then delete it prior to upgrade.

Oracle Software Downloads INFO	OTHER	PREUPGRDBM, PREUPGREIGHTH, PREUPGRSUPERCLUSTER, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Oracle Software Download Sites
RDBMS_HOME Opatch version	OTHER	PREUPGRDBM, PREUPGREIGHTH, PREUPGRSUPERCLUSTER, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Opatch version is equal or higher than recommended in RDBMS_HOME
RDS Ping time over infiniband	OTHER	V2	Linux x86_64 (226) - OEL/RHEL 5	rds-ping time over infiniband to storage servers better than recommended

Requirement for Grid Infrastructure software installation directory	OTHER	PREUPGRDBM, PREUPGREIGHTH, PREUPGRSUPERCLUSTER, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Information about Grid Infrastructure software installation directory
Run olspreupgrade.sql	OTHER	PREUPGRDBM, PREUPGREIGHTH, PREUPGRSUPERCLUSTER, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	If OLS(Lable Security) and/or DV (Database Vault) was already in the database prior to the upgrade then execute on source database.
SELinux status	OTHER	1/8, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5	SELinux is not being Enforced.

SELinux status	OTHER	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6	SELinux is not being Enforced.
Software maintenance best practices	OTHER	MAA	Linux x86_64 (226) - OEL/RHEL 5, Solaris x86-64 (267) - 11	Software maintenance best practices
Standby Database Info	OTHER	PREUPGRDBM, PREUPGREIGHTH, PREUPGRSUPERCLUSTER, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Standby Database Info

Steps to execute rootupgrade.sh	OTHER	PREUPGRDBM, PREUPGREIGHTH, PREUPGRSUPERCLUST ER, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Steps to execute rootupgrade.sh
Storage failures prevention best practices	OTHER	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Storage failures prevention best practices

TNS_ADMIN env variable	OTHER	PREUPGRDBM, PREUPGREIGHTH, PREUPGRSUPERCLUST ER, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	TNS_ADMIN environment variable is NOT set
Turn NUMA Off [Operating System]	OTHER	1/8, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5	NUMA is OFF at operating system level.
Turn NUMA On [Operating System]	OTHER	X2-8, X3-8	Linux x86_64 (226) - OEL/RHEL 5	NUMA is ON at operating system level.

Upgrade Related References INFO	OTHER	PREUPGRDBM, PREUPGREIGHTH, PREUPGRSUPERCLUSTER, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Upgrade Related References
User Open File Limit	OTHER	PREUPGRDBM, PREUPGREIGHTH, PREUPGRSUPERCLUSTER, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Open files limit (ulimit -n) for current user is set to recommended value >= 65536 or unlimited

User Open File Limit	OTHER	V2, 1/8, SSC, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Open files limit (ulimit -n) for current user is set to recommended value >= 65536 or unlimited
Verify ASM griddisk,diskgroup and Failure group mapping	OTHER	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	ASM griddisk,diskgroup and Failure group mapping is as recommended
Verify Data Network is Separate from Management Network	OTHER	V2, 1/8, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5	Management network is separate from data network
Verify Database Server Disk Controller Configuration	OTHER	V2, 1/8, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5,Solaris x86-64 (267) - 11	Database Server Disk Controller Configuration meets recommendation
Verify Database Server Disk Controller Configuration	OTHER	X2-8, X3-8	Linux x86_64 (226) - OEL/RHEL 5,Solaris x86-64 (267) - 11	Database Server Disk Controller Configuration meets recommendation
Verify Database Server Physical Drive Configuration	OTHER	1/8, X3-2	Linux x86_64 (226) - OEL/RHEL 5	Database Server Physical Drive Configuration meets recommendation
Verify Database Server Physical Drive Configuration	OTHER	V2, 1/8, X2-2, X2-8, X3-2, X3-8	Solaris x86-64 (267) - 11	Database Server Physical Drive Configuration meets recommendation
Verify Database Server Physical Drive Configuration	OTHER	V2, 1/8, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5	Database Server Physical Drive Configuration meets recommendation
Verify Database Server Physical Drive Configuration	OTHER	V2, X2-2	Linux x86_64 (226) - OEL/RHEL 5	Database Server Physical Drive Configuration meets recommendation
Verify Database Server Physical Drive Configuration	OTHER	X2-8	Linux x86_64 (226) - OEL/RHEL 5	Database Server Physical Drive Configuration meets recommendation
Verify Database Server Physical Drive Configuration	OTHER	X2-8, X3-8	Linux x86_64 (226) - OEL/RHEL 5	Database Server Physical Drive Configuration meets recommendation
Verify Database Server Physical Drive Configuration	OTHER	X3-8	Linux x86_64 (226) - OEL/RHEL 5	Database Server Physical Drive Configuration meets recommendation
Verify Database Server Virtual Drive Configuration	OTHER	V2, 1/8, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5,Solaris x86-64 (267) - 11	Database Server Virtual Drive Configuration meets recommendation

Verify Database Server Virtual Drive Configuration	OTHER	X2-8, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris x86-64 (267) - 11	Database Server Virtual Drive Configuration meets recommendation
Verify Database Server ZFS RAID Configuration	OTHER	V2, 1/8, X2-2, X3-2	Solaris x86-64 (267) - 11	Database server ZFS RAID configuration matches recommended configuration
Verify Database Server ZFS RAID Configuration	OTHER	X2-8, X3-8	Solaris x86-64 (267) - 11	Database server ZFS RAID configuration matches recommended configuration
Verify Disk Cache Policy on database server	OTHER	V2, 1/8, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris x86-64 (267) - 11	Disk cache policy is set to Disabled on database server
Verify Ethernet Cable Connection Quality	OTHER	V2, 1/8, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5	All Ethernet network cables are connected
Verify Hardware and Firmware on Database and Storage Servers (CheckHWnFWProfile) [Database Server]	OTHER	V2, 1/8, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5	Hardware and firmware profile check is successful. [Database Server]
Verify InfiniBand Address Resolution Protocol (ARP) Configuration on Database Servers	OTHER	V2, 1/8, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5	Address Resolution Protocol (ARP) is configured properly on database server.
Verify InfiniBand Address Resolution Protocol (ARP) Configuration on Database Servers	OTHER	X2-8, X3-8	Linux x86_64 (226) - OEL/RHEL 5	Address Resolution Protocol (ARP) is configured properly on database server.
Verify InfiniBand Cable Connection Quality	OTHER	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Solaris (23) - 11, Solaris x86-64 (267) - 11	All InfiniBand network cables are connected
Verify InfiniBand Cable Connection Quality	OTHER	V2, 1/8, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5	All InfiniBand network cables are connected
Verify InfiniBand Fabric Topology (verify-topology)	OTHER	V2, 1/8, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Verify-topology executes without any errors or warning

Verify InfiniBand subnet manager is not running on database server	OTHER	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	The InfiniBand subnet manager is not running on database server
Verify InfiniBand subnet manager is running on an InfiniBand switch	OTHER	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	subnet manager is running on an InfiniBand switch
Verify Oracle ASM instance use RDS Protocol over InfiniBand Network.	OTHER	1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Oracle ASM Communication is using RDS protocol on Infiniband Network
Verify Oracle RAC Databases use RDS Protocol over InfiniBand Network	OTHER	V2	Linux x86_64 (226) - OEL/RHEL 5	Oracle RAC Communication is using RDS protocol on Infiniband Network
Verify Oracle RAC Databases use RDS Protocol over InfiniBand Network.	OTHER	1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Oracle RAC Communication is using RDS protocol on Infiniband Network
Verify Oracle RAC Databases use RDS Protocol over InfiniBand Network. [Cluster Home]	OTHER	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Clusterware Home is properly linked with RDS library
Verify Oracle RAC Databases use RDS Protocol over InfiniBand Network. [Database Home]	OTHER	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Database Home is properly linked with RDS library
Verify Platform Configuration and Initialization Parameters for Consolidation	OTHER	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Only one RDBMS instance discovered, apparently not a database consolidation environment

Verify RAID Controller Battery Condition [Database Server]	OTHER	V2, 1/8, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris x86-64 (267) - 11	RAID controller battery condition is good [Database Server]
Verify RAID Controller Battery Temperature [Database Server]	OTHER	V2, 1/8, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris x86-64 (267) - 11	RAID controller battery temperature is normal [Database Server]
Verify average ping times to DNS nameserver	OTHER	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Solaris (23) - 11, Solaris x86-64 (267) - 11	DNS Server ping time is in acceptable range
Verify average ping times to DNS nameserver	OTHER	V2, 1/8, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5	DNS Server ping time is in acceptable range
Verify database server boot device maximum mount count	OTHER	V2, 1/8, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5	The database server boot device had "Maximum mount count" equal to "-1"
Verify database server disk controllers use writeback cache	OTHER	V2, 1/8, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris x86-64 (267) - 11	Database server disk controllers use writeback cache
Verify database server logical volumes maximum mount count	OTHER	V2, 1/8, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5	All database server logical volumes found had "Maximum mount count" equal to "-1"
Verify operating system hugepages count satisfies total SGA requirements	OTHER	1/8, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9	Operating system hugepages count satisfies total SGA requirements
Verify service exachkcfg autostart status on database server	OTHER	V2, 1/8, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5	The service exachkcfg is not configured to autostart
Verify the database server InfiniBand network is in "connected" mode.	OTHER	1/8, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5	Database server InfiniBand network is in "connected" mode.
Verify vm.min_free_kbytes	OTHER	V2, 1/8, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5	vm.min_free_kbytes is set as recommended.

crsd Log File Ownership	OTHER	1/8, SSC, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	crsd Log Ownership is Correct (root root)
crsd Log File Ownership	OTHER	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	crsd Log Ownership is Correct (root root)
crsd/orarootagent_root Log File Ownership	OTHER	1/8, SSC, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	crsd/orarootagent_root Log Ownership is Correct (root root)

crsd/orarootagent_root Log File Ownership	OTHER	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	crsd/orarootagent_root Log Ownership is Correct (root root)
ip_local_port_range	OTHER	PREUPGRDBM, PREUPGREIGHTH, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9	ip_local_port_range is configured according to recommendation
memory (ECC) errors	OTHER	V2	Linux x86_64 (226) - OEL/RHEL 5	No memory(ECC) errors found
ohasd Log File Ownership	OTHER	1/8, SSC, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	ohasd Log Ownership is Correct (root root)

ohasd Log File Ownership	OTHER	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	ohasd Log Ownership is Correct (root root)
ohasd/orarootagent_root Log File Ownership	OTHER	1/8, SSC, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	ohasd/orarootagent_root Log Ownership is Correct (root root)

ohasd/orarootagent_root Log File Ownership	OTHER	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	ohasd/orarootagent_root Log Ownership is Correct (root root)
oradism executable ownership	OTHER	1/8, SSC, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	\$ORACLE_HOME/bin/oradism ownership is root

oradism executable ownership	OTHER	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	\$ORACLE_HOME/bin/oradism ownership is root
oradism executable permission	OTHER	1/8, SSC, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	\$ORACLE_HOME/bin/oradism setuid bit is set
oradism executable permission	OTHER	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	\$ORACLE_HOME/bin/oradism setuid bit is set

pam_limits check	OTHER	PREUPGRDBM, PREUPGREIGHTH, PREUPGRSUPERCLUST ER, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 9	pam_limits configured properly for shell limits
root umask Check for Upgrade	OTHER	PREUPGRDBM, PREUPGREIGHTH, PREUPGRSUPERCLUST ER, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	root user umask is set according to recommendation for upgrade to 11gR2
root umask Check for Upgrade	OTHER	PREUPGRDBM, PREUPGREIGHTH, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9	root user umask is set according to recommendation for upgrade to 11gR2

uid Length of GI Owner	OTHER	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	uid of GI owner is less than 7 digits long
voting disk mirroring	OTHER	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Redundant voting disks are being maintained using Oracle redundancy

ALL_TAB_COLUMNS Reserved Word Check	RDBMS	PREUPGRDBM, PREUPGREIGHTH, PREUPGRSUPERCLUSTER, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	No Column Names in ALL_TAB_COLUMNS table are Reserved Words
ASM initialization parameters	RDBMS	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	ASM parameter MEMORY_TARGET is set according to recommended value.
AUDSES\$ sequence cache size	RDBMS	1/8, SSC, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	SYS.AUDSES\$ sequence cache size >= 10,000

AUDSES\$ sequence cache size	RDBMS	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	SYS.AUDSES\$ sequence cache size >= 10,000
Archivelog Mode	RDBMS	HACHECK, MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Database Archivelog Mode is set to ARCHIVELOG

Audit Tablespace	RDBMS	PREUPGRDBM, PREUPGREIGHTH, PREUPGRSUPERCLUST ER, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Auditing Table (AUD\$) Is In SYSTEM Tablespace
Automatic segment storage management	RDBMS	1/8, SSC, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86- 64 (267) - 11	All tablespaces are using Automatic segment storage management

Automatic segment storage management	RDBMS	V2, MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	All tablespaces are using Automatic segment storage management
Block Corruptions	RDBMS	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	No reported block corruptions in V\$DATABASE_BLOCK_CORRUPTIONS

Check audit_file_dest	RDBMS	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	audit_file_dest does not have any audit files older than 30 days
Check ORA-00600 errors	RDBMS	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	No ORA-00600 errors found in alert log

Database init parameter DB_BLOCK_CHECKING	RDBMS	V2, 1/8, MAA, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Database parameter DB_BLOCK_CHECKING on PRIMARY is set to the recommended value
Database init parameter DB_BLOCK_CHECKING on standby	RDBMS	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Database parameter DB_BLOCK_CHECKING on STANDBY is set to the recommended value

Dataguard broker configuration	RDBMS	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Dataguard broker configuration exists
Default Temporary Tablespace	RDBMS	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Default temporary tablespace is set

Duplicate sys/system objects	RDBMS	PREUPGRDBM, PREUPGREIGHTH, PREUPGRSUPERCLUST ER, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	No Duplicate objects were found in the SYS and SYSTEM schemas
Flashback database on primary	RDBMS	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Flashback on PRIMARY is configured

Flashback database on standby	RDBMS	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Flashback on STANDBY is configured
GC block lost	RDBMS	1/8, SSC, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86- 64 (267) - 11	GC blocks lost is not occurring

GC block lost	RDBMS	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	No Global Cache lost blocks detected
High Redundancy Controlfile	RDBMS	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	A minimum of two controlfiles are stored in high redundancy diskgroups
High Redundancy Controlfile	RDBMS	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Database control files are configured as recommended
High Redundancy Redolog files	RDBMS	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Database parameter Db_create_online_log_dest_n is set to recommended value

High redundancy diskgroups	RDBMS	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	At least one high redundancy diskgroup configured
IDGEN\$ sequence cache size	RDBMS	1/8, SSC, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	SYS.IDGEN1\$ sequence cache size >= 1,000

IDGEN\$ sequence cache size	RDBMS	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	SYS.IDGEN1\$ sequence cache size >= 1,000
Infiniband Network for RAC Communication	RDBMS	V2	Linux x86_64 (226) - OEL/RHEL 5	Infiniband network is being used for RAC Communication
LMS priority	RDBMS	1/8, SSC, X2-2, X3-2	Solaris (23) - 11, Solaris x86-64 (267) - 11	LMS is running in real time scheduling class
LMS priority	RDBMS	1/8, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5	LMS is running in real time scheduling class
LMS priority	RDBMS	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9	LMS is running in real time scheduling class

LOG_FILE_NAME_CONVERT	RDBMS	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Database parameter LOG_FILE_NAME_CONVERT or DB_CREATE_ONLINE_LOG_DEST_1 is not null
Local listener set to node VIP	RDBMS	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Local listener init parameter is set to local node VIP
Local listener set to node VIP	RDBMS	V2, 1/8, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5	Local listener init parameter is set to local node VIP

Locally managed tablespaces	RDBMS	V2, MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	All tablespaces are locally managed tablespace
Locally managed tablespaces	RDBMS	1/8, SSC, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	All tablespaces are locally managed tablespace

Logical standby unsupported datatypes	RDBMS	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	No unsupported data types preventing Data Guard (transient logical standby or logical standby) rolling upgrade
Managed recovery processes status	RDBMS	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Managed recovery process is running

Materialized View Refresh Info	RDBMS	PREUPGRDBM, PREUPGREIGHTH, PREUPGRSUPERCLUSTER, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	No Materialized View Refresh Groups Are Being Refreshed
Network ACLs for Oracle Utility Packages check	RDBMS	PREUPGRDBM, PREUPGREIGHTH, PREUPGRSUPERCLUSTER, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	No Users Needing Network ACLs for Oracle Utility Packages Found

Non-autoextensible data and temp files	RDBMS	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	All data and temporary are autoextensible
Old trace files in background dump destination	RDBMS	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	background_dump_dest does not have any files older than 30 days

Oracle net services configuration to ship redo	RDBMS	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Oracle Net service name RECV_BUF_SIZE, SEND_BUF_SIZE, and SDU are set. Please review for your environment.
Orphaned Dictionary Rows	RDBMS	PREUPGRDBM, PREUPGREIGHTH, PREUPGRSUPERCLUSTER, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	No Orphaned Dictionary Rows Were Found

Physical standby status	RDBMS	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Physical standby status is valid
Pre-upgrade script	RDBMS	PREUPGRDBM, PREUPGREIGHTH, PREUPGRSUPERCLUSTER, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Pre-upgrade script finished without any error

Pre-upgrade script	RDBMS	PREUPGRDBM, PREUPGREIGHTH, PREUPGRSUPERCLUST ER, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Pre-upgrade script utlu112i.sql finished without any error
Primary database log_archive_config	RDBMS	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Initialization parameter LOG_ARCHIVE_CONFIG is not null on Primary database, verify configuration for your environment

Primary database log_archive_config	RDBMS	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	While initialization parameter LOG_ARCHIVE_CONFIG is set it should be verified for your environment on Primary Database
Primary database protection with Data Guard	RDBMS	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Primary database is protected with Data Guard (standby database) for real-time data protection and availability

Primary redo transport lag	RDBMS	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Redo transport from primary to standby has 5 minutes or less lag
RDBMS Version	RDBMS	1/8, SSC, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	RDBMS Version is 11.2.0.2 or higher as expected
RDBMS version compatibility	RDBMS	V2	Linux x86_64 (226) - OEL/RHEL 5	Oracle Database software version is running release 11.2.0.1 or higher
Recovery and Create File Destinations	RDBMS	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Database DB_CREATE_FILE_DEST and DB_RECOVERY_FILE_DEST are in different diskgroups

Redo Log File Size	RDBMS	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Redo log file size is >= 4Gb
Redo transport protocol	RDBMS	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Remote destination is using either ASYNC or SYNC transport for redo transport

Remote listener set to scan name	RDBMS	1/8, SSC, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Remote listener is set to SCAN name
Remote listener set to scan name	RDBMS	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Remote listener is set to SCAN name

SYS Owned Object Tables	RDBMS	PREUPGRDBM, PREUPGREIGHTH, PREUPGRSUPERCLUST ER, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	No SYS Owned Object Tables Found
Same size of redo log files	RDBMS	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	All redo log files are of same size

Session Failover configuration	RDBMS	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Failover method (SELECT) and failover mode (BASIC) are configured properly
Standby database log_archive_config	RDBMS	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Initialization parameter LOG_ARCHIVE_CONFIG is not null on Standby database, verify configuration for your environment

Standby database log_archive_config	RDBMS	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	While initialization parameter LOG_ARCHIVE_CONFIG is set it should be verified for your environment on Standby Database
Standby open mode	RDBMS	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Standby is in READ ONLY WITH APPLY mode

Standby recovery mode	RDBMS	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Standby is running in MANAGED REAL TIME APPLY mode
Standby recovery process status	RDBMS	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Standby is opened read only with managed recovery in real time apply mode

Standby redo apply lag	RDBMS	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Standby database is in sync with primary database
Standby redo logs status on primary	RDBMS	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Standby redo logs are configured on the primary

Standby redo logs status on standby	RDBMS	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Standby redo logs are configured on the standby
Startup sequence in RDBMS alert log for RDS check	RDBMS	V2	Linux x86_64 (226) - OEL/RHEL 5	Startup sequence found in RDBMS alert log for RDS check
VKTM priority	RDBMS	1/8, SSC, X2-2, X2-8, X3-2, X3-8	Solaris (23) - 11, Solaris x86-64 (267) - 11	VKTM is running in real time scheduling class
VKTM priority	RDBMS	1/8, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5	VKTM is running in real time scheduling class
VKTM priority	RDBMS	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9	VKTM is running in real time scheduling class

Verify AUD\$ and FGA_LOG\$ tables use Automatic Segment Space Management	RDBMS	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Table AUD\$[FGA_LOG\$] uses Automatic Segment Space Management
Verify Dynamic Shared Memory (DISM) is not used on x86 systems	RDBMS	1/8, SSC, X2-2, X3-2	Solaris (23) - 11, Solaris x86-64 (267) - 11	Dynamic shared memory(DISM) is disabled
Verify Hidden Database Initialization Parameter Usage	RDBMS	V2, 1/8, SSC, X2-2, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Hidden database initialization parameters are set per best practice recommendations
Verify Hidden Database Initialization Parameter Usage	RDBMS	X2-8	Linux x86_64 (226) - OEL/RHEL 5	Hidden database initialization parameters are set per best practice recommendations
Verify Log Transport Services for enabled redo destinations are functional	RDBMS	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	The log transport services for enabled redo destinations are functional

Verify all "BIGFILE" tablespaces have non-default "MAXBYTES" values set	RDBMS	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	All bigfile tablespaces have non-default maxbytes values set
Verify bundle patch version installed matches bundle patch version registered in database	RDBMS	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	The bundle patch version installed matches the bundle patch version registered in the database
Verify data files are recoverable	RDBMS	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	The data files are all recoverable

Verify log_archive_max_processes parameter is optimally configured	RDBMS	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Initialization parameter LOG_ARCHIVE_MAX_PROCESSES is configured as recommended
Verify spfile value across instances	RDBMS	V2, 1/8, MAA, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Database parameter DB_BLOCK_CHECKSUM is set to recommended value

Verify spfile value across instances	RDBMS	V2, 1/8, MAA, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Database parameter DB_LOST_WRITE_PROTECT is set to recommended value
_enable_NUMA_optimization	RDBMS	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	NUMA support is not enabled for database instances
_enable_NUMA_support	RDBMS	V2, 1/8, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5	Database parameter _ENABLE_NUMA_SUPPORT is set to recommended value

_enable_NUMA_support	RDBMS	X2-8, X3-8	Linux x86_64 (226) - OEL/RHEL 5	Database parameter _ENABLE_NUMA_SUPPORT is set to recommended value
_file_size_increase_increment	RDBMS	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Database parameter _file_size_increase_increment is set to the recommended value
_kill_diagnostics_timeout	RDBMS	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Database parameter _kill_diagnostics_timeout is set to recommended value
_lm_rcvr_hang_allow_time	RDBMS	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Database parameter _lm_rcvr_hang_allow_time is set to the recommended value
_parallel_cluster_cache_policy	RDBMS	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	System is not exposed to Exadata Critical Issue DB02
asm_power_limit	RDBMS	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	ASM parameter ASM_POWER_LIMIT is set to the default value.

cluster_interconnects	RDBMS	V2, 1/8, POSTUPGRDBM, POSTUPGREIGHTH, POSTUPGRSUPERCLUSTER, POSTUPGRX2-2, POSTUPGRX2-8, POSTUPGRX3-2, POSTUPGRX3-8, PREUPGRDBM, PREUPGREIGHTH, PREUPGRSUPERCLUSTER, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Database parameter CLUSTER_INTERCONNECTS is set to the recommended value
compatible	RDBMS	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Database parameter COMPATIBLE is set to recommended value
db_files	RDBMS	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Database parameter DB_FILES is set to recommended value.
db_recovery_file_dest_size	RDBMS	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Database parameter db_recovery_file_dest_size is set to recommended value

fast_start_mttr_target	RDBMS	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	fast_start_mttr_target has been changed from default
filesystemio_options	RDBMS	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	filesystemio_options is set to recommended value
fs.aio-max-nr	RDBMS	PREUPGRDBM, PREUPGREIGHTH, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5	Kernel Parameter fs.aio-max-nr is configured according to recommendation
global_names	RDBMS	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Database parameter GLOBAL_NAMES is set to recommended value

kernel.shmall	RDBMS	PREUPGRDBM, PREUPGREIGHTH, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9	Kernel Parameter kernel.shmall OK
kernel.shmmni	RDBMS	PREUPGRDBM, PREUPGREIGHTH, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9	Kernel parameter kernel.shmmni OK
log_archive_dest_n	RDBMS	1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86- 64 (267) - 11	Database parameters log_archive_dest_n with Location attribute are all set to recommended value
log_archive_dest_n	RDBMS	V2	Linux x86_64 (226) - OEL/RHEL 5	Database parameters log_archive_dest_n with Location attribute are all set to recommended value

log_buffer	RDBMS	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Database parameter LOG_BUFFER is set to recommended value
memory_max_target	RDBMS	V2, 1/8, POSTUPGRDBM, POSTUPGREIGHTH, POSTUPGRSUPERCLUSTER, POSTUPGRX2-2, POSTUPGRX2-8, POSTUPGRX3-2, POSTUPGRX3-8, SSC, X2-2, X2-8, X3-2	Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Solaris (23) - 11, Solaris x86-64 (267) - 11	ASM parameter MEMORY_MAX_TARGET is set according to recommended value

memory_target	RDBMS	V2, 1/8, POSTUPGRDBM, POSTUPGREIGHTH, POSTUPGRSUPERCLU STER, POSTUPGRX2-2, POSTUPGRX2-8, POSTUPGRX3-2, POSTUPGRX3-8, SSC, X2-2, X2-8, X3-2	Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Solaris (23) - 11, Solaris x86- 64 (267) - 11	ASM parameter MEMORY_TARGET is set according to recommended value
net.core.rmem_default	RDBMS	PREUPGRDBM, PREUPGREIGHTH, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9	net.core.rmem_default is configured properly
net.core.rmem_max	RDBMS	PREUPGRDBM, PREUPGREIGHTH, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9	Kernel parameter net.core.rmem_max OK

net.core.wmem_default	RDBMS	PREUPGRDBM, PREUPGREIGHTH, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9	net.core.wmem_default is configured properly
net.core.wmem_max	RDBMS	PREUPGRDBM, PREUPGREIGHTH, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9	net.core.wmem_max is configured properly
open_cursors	RDBMS	V2, 1/8, SSC, X2-2, X2- 8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86- 64 (267) - 11	Database parameter OPEN_CURSORS is set to recommended value

optimizer_dynamic_sampling	RDBMS	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	optimizer_dynamic_sampling is set to the recommended value of 2
os_authent_prefix	RDBMS	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Database parameter OS_AUTHENT_PREFIX is set to recommended value
parallel_adaptive_multi_user	RDBMS	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Database parameter PARALLEL_ADAPTIVE_MULTI_USER is set to recommended value

parallel_execution_message_size	RDBMS	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11, Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) -	Database Parameter parallel_execution_message_size is set to the recommended value
parallel_execution_message_size	RDBMS	1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Database parameter PARALLEL_EXECUTION_MESSAGE_SIZE is set to recommended value

parallel_threads_per_cpu	RDBMS	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Database parameter PARALLEL_THREADS_PER_CPU is set to recommended value
pga_aggregate_target	RDBMS	V2, 1/8, POSTUPGRDBM, POSTUPGREIGHTH, POSTUPGRSUPERCLUSTER, POSTUPGRX2-2, POSTUPGRX2-8, POSTUPGRX3-2, POSTUPGRX3-8, SSC, X2-2, X2-8, X3-2	Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Solaris (23) - 11, Solaris x86-64 (267) - 11	ASM parameter PGA_AGGREGATE_TARGET is set according to recommended value
processes	RDBMS	V2, 1/8, SSC, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Database parameter PROCESSES is set to recommended value
processes	RDBMS	X2-8, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Database parameter PROCESSES is set to recommended value

recyclebin	RDBMS	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	RECYCLEBIN on PRIMARY is set to the recommended value
recyclebin	RDBMS	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	RECYCLEBIN on STANDBY is set to the recommended value

remote_listener	RDBMS	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Remote listener parameter is set to achieve load balancing and failover
remote_login_passwordfile	RDBMS	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	remote_login_passwordfile is configured according to recommendation

semgni	RDBMS	PREUPGRDBM, PREUPGREIGHTH, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9	Kernel parameter SEMMNI OK
semmns	RDBMS	PREUPGRDBM, PREUPGREIGHTH, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9	Kernel parameter SEMMNS OK
semmsl	RDBMS	PREUPGRDBM, PREUPGREIGHTH, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9	Kernel parameter SEMMSL OK

semopm	RDBMS	PREUPGRDBM, PREUPGREIGHTH, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9	Kernel Parameter SEMOPM OK
sga_target	RDBMS	V2, 1/8, POSTUPGRDBM, POSTUPGREIGHTH, POSTUPGRSUPERCLU STER, POSTUPGRX2-2, POSTUPGRX2-8, POSTUPGRX3-2, POSTUPGRX3-8, SSC, X2-2, X2-8, X3-2	Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Solaris (23) - 11, Solaris x86- 64 (267) - 11	ASM parameter SGA_TARGET is set according to recommended value.
shared_servers	RDBMS	V2, 1/8, SSC, X2-2, X2- 8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86- 64 (267) - 10, Solaris x86-64 (267) - 11	Shared Servers are not in use

spfile	RDBMS	V2	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Instance is using spfile
sql92_security	RDBMS	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Database parameter SQL92_SECURITY is set to recommended value

undo_management	RDBMS	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Instance is using Automatic Undo Management
undo_retention	RDBMS	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Database parameter UNDO_RETENTION on PRIMARY is not null

undo_retention	RDBMS	MAA	Linux x86_64 (226) - OEL/RHEL 4, Linux x86_64 (226) - OEL/RHEL 5, Linux x86_64 (226) - OEL/RHEL 6, Linux x86_64 (226) - SUSE 10, Linux x86_64 (226) - SUSE 11, Linux x86_64 (226) - SUSE 9, Solaris (23) - 10, Solaris (23) - 11, Solaris (23) - 9, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Database parameter UNDO_RETENTION on STANDBY is not null
use_large_pages	RDBMS	V2, 1/8, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5	Database parameter USE_LARGE_PAGES is set to recommended value
Ambient Temperature	STORAGE SERVER	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Ambient temperature is within the recommended range
Configure Storage Server alerts to be sent via email	STORAGE SERVER	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Storage Server alerts are configured to be sent via email
Data network is separate from management network on storage server	STORAGE SERVER	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Management network is separate from data network on all storage servers
Exadata Critical Issue EX10	STORAGE SERVER	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	System is not exposed to Exadata Critical Issue EX10

Exadata Critical Issue EX11	STORAGE SERVER	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	System is not exposed to Exadata Critical Issue EX11
Exadata Critical Issue EX12	STORAGE SERVER	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	System is not exposed to Exadata Critical Issue EX12
Exadata Critical Issue EX2	STORAGE SERVER	V2, 1/8, SSC, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	System is not exposed to Exadata Critical Issue EX2
Exadata Critical Issue EX3	STORAGE SERVER	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	System is not exposed to Exadata Critical Issue EX3
Exadata Critical Issue EX4	STORAGE SERVER	V2, 1/8, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	System is not exposed to Exadata Critical Issue EX4
Exadata Critical Issue EX5	STORAGE SERVER	V2, 1/8, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	System is not exposed to Exadata Critical Issue EX5
Exadata Critical Issue EX6	STORAGE SERVER	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	System is not exposed to Exadata Critical Issue EX6
Exadata Critical Issue EX7	STORAGE SERVER	V2, 1/8, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	System is not exposed to Exadata Critical Issue EX7

Exadata Critical Issue EX8	STORAGE SERVER	V2, 1/8, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	System is not exposed to Exadata Critical Issue EX8
Exadata Critical Issue EX9	STORAGE SERVER	V2, SSC, X2-2, X2-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	System is not exposed to Exadata Critical Issue EX9
Exadata celldisk predictive failures	STORAGE SERVER	V2, 1/8, SSC, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	No celldisks have status of predictive failure
Exadata cells space pressure	STORAGE SERVER	V2	Linux x86_64 (226) - OEL/RHEL 5	No cells have higher than 90% space usage for /opt/oracle
Exadata software version on storage servers	STORAGE SERVER	PREUPGRDBM, PREUPGREIGHTH, PREUPGRSUPERCLUSTER, PREUPGRX2-2, PREUPGRX2-8, PREUPGRX3-2, PREUPGRX3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 10, Solaris x86-64 (267) - 11	Exadata software version meets minimum version requirement on all storage servers
Exadata storage server root filesystem free space	STORAGE SERVER	V2, 1/8, SSC, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	All storage servers meet or exceed root(/) filesystem free space recommendation
Exadata storage server system model number	STORAGE SERVER	1/8, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5	All Exadata storage server meet system model number requirement
HCA transfer rate on storage servers	STORAGE SERVER	V2	Linux x86_64 (226) - OEL/RHEL 5	Infiniband HCA transfer rate is 40 Gb/sec (4X QDR) on all Storage Servers
Health of Internal disk on Storage servers	STORAGE SERVER	V2	Linux x86_64 (226) - OEL/RHEL 5	All internal disks on storage servers are healthy
LUN status on Storage server	STORAGE SERVER	V2	Linux x86_64 (226) - OEL/RHEL 5	Status is normal for all LUNs on all storage servers

Number of Luns on cells	STORAGE SERVER	V2	Linux x86_64 (226) - OEL/RHEL 5	All luns for are available on all storage servers
Number of celldisks on cells	STORAGE SERVER	V2	Linux x86_64 (226) - OEL/RHEL 5	All celldisks are available on all storage servers
OFA RPM version on storage servers	STORAGE SERVER	V2	Linux x86_64 (226) - OEL/RHEL 5	Same version of OFA RPM is installed on all storage servers
OPENIB RPM version on storage servers	STORAGE SERVER	V2	Linux x86_64 (226) - OEL/RHEL 5	Correct version of OPENIB RPM is installed on all Storage servers
OSWatcher status on storage servers	STORAGE SERVER	V2, 1/8, SSC, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	OSWatcher is running on all storage servers
Oracle RDBMS software version compatibility with Exadata Software version	STORAGE SERVER	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Exadata software version is compatible with Oracle RDBMS software version
Oracle RDBMS software version compatibility with Exadata Software version	STORAGE SERVER	V2, 1/8, X2-2, X2-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris x86-64 (267) - 11	Exadata software version is compatible with Oracle RDBMS software version
Physical disk status on cells	STORAGE SERVER	V2	Linux x86_64 (226) - OEL/RHEL 5	Status is normal for all physical disks on all storage servers
Physicaldisk Count on storage servers	STORAGE SERVER	V2	Linux x86_64 (226) - OEL/RHEL 5	All Physical disks are available for all storage servers
RAID controller version on storage servers	STORAGE SERVER	V2, 1/8, SSC, X2-2, X3-2	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	RAID controller version matches on all storage servers
Scan storage server alerthistory for open alerts	STORAGE SERVER	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	No storage server has stateless alerts with null "examinedby" fields.

Set "mpt_cmd_retry_count=10" in /etc/modprobe.conf on Storage Servers	STORAGE SERVER	V2, 1/8, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	"mpt_cmd_retry_count=10" in /etc/modprobe.conf on Storage Servers
Suitable USB device on storage servers	STORAGE SERVER	V2	Linux x86_64 (226) - OEL/RHEL 5	USB device found on all storage storage servers
Verify Disk Cache Policy on Storage Server	STORAGE SERVER	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Disk cache policy is set to Disabled on all storage server
Verify Electronic Storage Module (ESM) Lifetime is within Specification	STORAGE SERVER	V2, SSC, X2-2, X2-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Electronic Storage Module (ESM) Lifetime is within specification for all flash cards on all storage servers
Verify Ethernet Cable Connection Quality on storage servers	STORAGE SERVER	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	All Ethernet network cables are connected on all Storage Servers
Verify Exadata Smart Flash Cache is created	STORAGE SERVER	8-Jan	Linux x86_64 (226) - OEL/RHEL 5, Solaris x86-64 (267) - 11	Storage Server Flash Memory is configured as Exadata Smart Flash Cache
Verify Exadata Smart Flash Cache is created	STORAGE SERVER	V2, SSC, X2-2, X2-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Storage Server Flash Memory is configured as Exadata Smart Flash Cache
Verify Exadata Smart Flash Cache is created	STORAGE SERVER	X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris x86-64 (267) - 11	Storage Server Flash Memory is configured as Exadata Smart Flash Cache
Verify Exadata Smart Flash Log is Created	STORAGE SERVER	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Smart flash log is created on all storage server

Verify Hardware and Firmware on Database and Storage Servers (CheckHWnFWProfile) [Storage Server]	STORAGE SERVER	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Hardware and firmware profile check is successful on all storage servers.
Verify InfiniBand Cable Connection Quality on storage servers	STORAGE SERVER	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	All InfiniBand network cables are connected on all Storage Servers
Verify InfiniBand subnet manager is not running on storage server	STORAGE SERVER	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	The InfiniBand subnet manager is not running on storage server
Verify PCI bridge is configured for generation II on storage servers	STORAGE SERVER	V2, SSC, X2-2, X2-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Peripheral component interconnect (PCI) bridge is configured for generation II on all storage servers
Verify RAID Controller Battery Condition [Storage Server]	STORAGE SERVER	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	RAID controller battery condition is good on all storage servers
Verify RAID Controller Battery Temperature [Storage Server]	STORAGE SERVER	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	RAID controller battery temperature is normal [Storage Server]
Verify Software on Storage Servers (CheckSWProfile.sh)	STORAGE SERVER	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Software profile check is successful on all storage servers.
Verify There Are No Storage Server Memory (ECC) Errors	STORAGE SERVER	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	No Storage Server Memory (ECC) Errors found.

Verify average ping times to DNS nameserver	STORAGE SERVER	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	DNS Server ping time is in acceptable range on all storage servers
Verify celldisk configuration on disk drives	STORAGE SERVER	8-Jan	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	The celldisk configuration on disk drives matches Oracle best practices
Verify celldisk configuration on disk drives	STORAGE SERVER	V2, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	The celldisk configuration on disk drives matches Oracle best practices
Verify celldisk configuration on flash memory devices	STORAGE SERVER	8-Jan	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	The celldisk configuration on flash memory devices matches Oracle best practices
Verify celldisk configuration on flash memory devices	STORAGE SERVER	V2, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	The celldisk configuration on flash memory devices matches Oracle best practices
Verify griddisk ASM status	STORAGE SERVER	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	The griddisk ASM status matches specification
Verify griddisk count matches across all storage servers where a given prefix name exists	STORAGE SERVER	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	The griddisk count matches across all storage servers where a given prefix name exists
Verify imageinfo on storage server	STORAGE SERVER	V2, 1/8, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5	imageinfo version matches on all storage servers
Verify release tracking bug on storage servers	STORAGE SERVER	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5	Release tracking bug matches on all storage servers
Verify service exachkcfg autostart status on storage server	STORAGE SERVER	V2, 1/8, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5	The service exachkcfg is configured to autostart

Verify storage server disk controllers use writeback cache	STORAGE SERVER	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	All storage server disk controllers use writeback cache
Verify storage server metric CD_IO_ST_RQ	STORAGE SERVER	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	No Storage Server conventional or flash disks have a performance problem
Verify storage server network configuration with ipconf	STORAGE SERVER	V2, 1/8, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	Storage server network passed ipconf verification checks.
Verify there are no griddisks configured on flash memory devices	STORAGE SERVER	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	There are no griddisks configured on flash memory devices
Verify total number of griddisks with a given prefix name is evenly divisible of celldisks	STORAGE SERVER	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	The total number of griddisks with a given prefix name is evenly divisible by the number of celldisks
Verify total size of all griddisks fully utilizes celldisk capacity	STORAGE SERVER	V2, 1/8, SSC, X2-2, X2-8, X3-2, X3-8	Linux x86_64 (226) - OEL/RHEL 5, Solaris (23) - 11, Solaris x86-64 (267) - 11	The total size of all griddisks fully utilizes celldisk capacity
celld status on storage servers	STORAGE SERVER	V2	Linux x86_64 (226) - OEL/RHEL 5	Celld daemon is running on all storage servers
griddisks status on storage server	STORAGE SERVER	V2	Linux x86_64 (226) - OEL/RHEL 5	Status is active for all griddisks on all storage servers
image partition status on storage servers	STORAGE SERVER	V2	Linux x86_64 (226) - OEL/RHEL 5	Image partitions status (imageinfo) is returning "success" on all storage servers
ulimit for celladmin on storage servers	STORAGE SERVER	V2	Linux x86_64 (226) - OEL/RHEL 5	Open files limit (ulimit -Hn) for celladmin is set to recommended value >= 65536 or unlimited on all storage servers

ulimit for root on storage servers	STORAGE SERVER	V2	Linux x86_64 (226) - OEL/RHEL 5	Open files limit (ulimit -Hn) for root is set to recommended value >= 65536 or unlimited on all storage servers
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