

Verifying Database "racldb"

Verifying Database Best Practice for "racldb"

Verifying OPTIMIZER_DYNAMIC_SAMPLING ...met
Verifying Invalid Java Objects ...met
Verifying SYSAUX tablespace existence ...met
Verifying JVM configuration for database ...met
Verifying Java based user in database ...met
Verifying Java Role Count ...met
Verifying Invalid SYS or SYSTEM Schema Objects ...met
Verifying INVALID objects in the application related schemas ...met
Verifying SPFILE ...met
Verifying Database word size(bits) ...met
Verifying Duplicate SYS or SYSTEM Schema Objects ...met
Verifying MAX_DUMP_FILE_SIZE ...met
Verifying REMOTE_LISTENER ...met
Verifying Database Datafiles in Backup Mode ...met
Verifying Files Needing Media Recovery ...met
Verifying In-doubt Distributed Transactions ...met
Verifying SYS-Owned Object Tables Check ...met
Verifying Invalid Objects in dba_registry ...met
Verifying Materialized View Group Refresh Jobs ...met
Verifying Materialized View Manual Group Refresh ...met
Verifying Redo Log Size (MB) ...met
Verifying All tablespaces are locally managed ...met
Verifying Cluster Interconnects ...met
Verifying CORE_DUMP_DESTINATION ...met
Verifying database [and ASM] alert log messages indicating internal errors (ORA-00600 errors) ...met
Verifying database [and ASM] alert log messages indicating internal errors (ORA-07445 errors) ...met
Verifying Old trace files in background dump destination ...not met
Verifying Database alert log file size ...met
Verifying Automatic segment storage management ...met
Verifying Average GC CR Block Receive Time ...met
Verifying Average GC Current Block Receive Time ...not met
Verifying Automatic Undo Management ...met
Verifying FILESYSTEMIO_OPTIONS ...not met

Verifying disk free space for Oracle Clusterware home "/u01/app/12.1.0/grid"...passed

Summary of environment

Date (mm/dd/yyyy) : 02/07/2016
Time (hh:mm:ss) : 05:41:27
Cluster name : cluster1
Clusterware version : 12.1.0.2.0
Grid home : /u01/app/12.1.0/grid
Grid User : grid

```

Operating system      : Linux3.8.13-118.2.2.el6uek.x86_64
Database1            : Database name      - rac1db
                      Database version   - 12.1.0.2.0
                      Database home     -
                      /u01/app/oracle/product/12.
                      1.0/dbhome_1

```

```

*****
Database recommendation checks for "rac1db"
*****

```

```

Verification Check      : Old trace files in background dump destination
Verification Description : Checks the BACKGROUND_DUMP_DEST for old trace files
Verification Result     : WARNING
Verification Summary    : Check for Old trace files in background dump destination
                          failed
Additional Details       : Old trace files from BACKGROUND_DUMP_DEST should regularly
                          be archived outside ORACLE_BASE, otherwise ORACLE_BASE
                          mount point may run out of space and may not be able to
                          collect diagnostic information when failure occurs.

```

Database (Instance)	Status	Expected Value	Actual Value
rac1db (RAC1DB1)	FAILED	0	6
rac1db (RAC1DB2)	FAILED	0	1

```

Verification Check      : Average GC Current Block Receive Time
Verification Description : Check Avg GC Current Block Receive Time
Verification Result     : WARNING
Verification Summary    : Check for Average GC Current Block Receive Time failed
Additional Details       : The average global cache current block receive time should
                          typically be less than 15 milliseconds depending on your
                          system configuration and volume. This is the average
                          latency of a current request round-trip from the
                          requesting instance to the holding instance and back to
                          the requesting instance.

```

Database (Instance)	Status	Expected Value	Actual Value
rac1db (RAC1DB1)	FAILED	avg_gc_current_block_rcv_time <= 15	avg_gc_current_block_rcv_time = 17.9057370059940754028157627 129349494388
rac1db (RAC1DB2)	FAILED	avg_gc_current_block_rcv_time <= 15	avg_gc_current_block_rcv_time = 16.0099398378236986659691341 87810619932

Verification Check : FILESYSTEMIO_OPTIONS
Verification Description : Checks FILESYSTEMIO_OPTIONS parameter
Verification Result : WARNING
Verification Summary : Check for FILESYSTEMIO_OPTIONS failed
Additional Details : FILESYSTEMIO_OPTIONS=setall supports both direct I/O and asynchronous I/O which helps to achieve optimal performance with database data files

Database (Instance)	Status	Expected Value	Actual Value
rac1db	FAILED	filesystemio_options = SETALL	filesystemio_options = none

Verification Check : OPTIMIZER_DYNAMIC_SAMPLING
Verification Description : Checks OPTIMIZER_DYNAMIC_SAMPLING setting
Verification Result : PASSED
Verification Summary : Check for OPTIMIZER_DYNAMIC_SAMPLING passed
Additional Details : Not having OPTIMIZER_DYNAMIC_SAMPLING set to the default value of 2 can have an adverse impact on cost based optimizer performance. This is a required setting for EBS and PeopleSoft applications.

Database (Instance)	Status	Expected Value	Actual Value
rac1db(RAC1DB1)	PASSED	optimizer_dynamic_sampling = 2	optimizer_dynamic_sampling = 2
rac1db(RAC1DB2)	PASSED	optimizer_dynamic_sampling = 2	optimizer_dynamic_sampling = 2

Verification Check : Invalid Java Objects
Verification Description : Checks invalid java objects
Verification Result : PASSED
Verification Summary : Check for Invalid Java Objects passed

Database (Instance)	Status	Expected Value	Actual Value
rac1db	PASSED	invalid_java_obj = 0	invalid_java_obj = 0

Verification Check : SYSAUX tablespace existence
Verification Description : Checks existence of SYSAUX tablespace
Verification Result : PASSED

Verification Summary : Check for SYSAUX tablespace existence passed
Additional Details : The SYSAUX tablespace is required for versions 10 and above. Refer to the Upgrade Companion for your target version for more details.

Database(Instance)	Status	Expected Value	Actual Value
racldb	PASSED	SYSAUX_TS >= 1	SYSAUX_TS = 1

Verification Check : JVM configuration for database
Verification Description : Checks JVM configuration for database
Verification Result : PASSED
Verification Summary : Check for JVM configuration for database passed
Additional Details : The query 'select dbms_java.longname('true') "JAVAVM TESTING" from dual;' should return "true" if the JVM is working correctly

Database(Instance)	Status	Expected Value	Actual Value
racldb	PASSED	dbms_java.longname('true') = true	dbms_java.longname('true') = true

Verification Check : Java based user in database
Verification Description : Checks presence of any Java based user in database
Verification Result : PASSED
Verification Summary : Check for Java based user in database passed
Additional Details : There should not be any Java Based users for database version 9.0.1 and above.

Database(Instance)	Status	Expected Value	Actual Value
racldb	PASSED	java_based_users_count = 0	java_based_users_count = 0

Verification Check : Java Role Count
Verification Description : Checks JVM roles
Verification Result : PASSED
Verification Summary : Check for Java Role Count passed
Additional Details : A healthy JVM should contain six roles. If there are more or less than six roles, the JVM is inconsistent.

Database(Instance)	Status	Expected Value	Actual Value
--------------------	--------	----------------	--------------

rac1db PASSED java_role_count = 6 java_role_count = 6

Verification Check : Invalid SYS or SYSTEM Schema Objects
Verification Description : Checks presence of any invalid SYS or SYSTEM schema objects
Verification Result : PASSED
Verification Summary : Check for Invalid SYS or SYSTEM Schema Objects passed
Additional Details : There should not be any invalid SYS or SYSTEM schema objects. Investigate invalid objects in the SYS and SYSTEM schemas.

Database(Instance)	Status	Expected Value	Actual Value
rac1db	PASSED	sys_invalid_obj = 0	sys_invalid_obj = 0

Verification Check : INVALID objects in the application related schemas
Verification Description : Checks for the presence of INVALID objects in the application related schemas (non SYS and SYSTEM)
Verification Result : PASSED
Verification Summary : Check for INVALID objects in the application related schemas passed
Additional Details : Investigate invalid objects in the application related schemas (non SYS and SYSTEM).

Database(Instance)	Status	Expected Value	Actual Value
rac1db	PASSED	app_invalid_obj = 0	app_invalid_obj = 0

Verification Check : SPFILE
Verification Description : Checks that the instances are using SPFILE
Verification Result : PASSED
Verification Summary : Check for SPFILE passed
Additional Details : Using one and the same SPFILE for all instances in clustered database is recommended.

Database(Instance)	Status	Expected Value	Actual Value
rac1db(RAC1DB1)	PASSED	spfile <> NULL	spfile = +DATA/RAC1DB/PARAMETERFILE/s pfile.268.898784645
rac1db(RAC1DB2)	PASSED	spfile <> NULL	spfile = +DATA/RAC1DB/PARAMETERFILE/s pfile.268.898784645

```

Verification Check      : Database word size(bits)
Verification Description : Checks that the database is created with 64-bit word size
Verification Result     : PASSED
Verification Summary    : Check for Database word size(bits) passed
Additional Details      : When database is created with 32-bit word size and
                        : upgrading database to 10.2.0.3.0 (64-bit) there are
                        : known issues.

```

Database(Instance)	Status	Expected Value	Actual Value
racldb	PASSED	db wordsize <> B023	db wordsize = B047

```

Verification Check      : Duplicate SYS or SYSTEM Schema Objects
Verification Description : Checks for duplicate SYS or SYSTEM schema objects
Verification Result     : PASSED
Verification Summary    : Check for Duplicate SYS or SYSTEM Schema Objects passed
Additional Details      : If any duplicate objects were found in the SYS and SYSTEM
                        : schemas, refer to articles in the references section. Read
                        : the exceptions carefully before taking action.
References (URLs/Notes) : https://support.oracle.com/CSP/main/article?cmd=show&type=NOT&id=1030426.6

```

Database(Instance)	Status	Expected Value	Actual Value
racldb	PASSED	sys_duplicate_obj ~ 0 4	sys_duplicate_obj = 0

```

Verification Check      : MAX_DUMP_FILE_SIZE
Verification Description : Checks the setting of MAX_DUMP_FILE_SIZE
Verification Result     : PASSED
Verification Summary    : Check for MAX_DUMP_FILE_SIZE passed
Additional Details      : Initialization parameter MAX_DUMP_FILE_SIZE should be set
                        : to 'unlimited' to avoid limiting the capture of failure
                        : and hang diagnostic data. See MOS note 30762.1 for more
                        : information.
References (URLs/Notes) : https://support.oracle.com/CSP/main/article?cmd=show&type=NOT&id=30762.1

```

Database(Instance)	Status	Expected Value	Actual Value
racldb(RAC1DB1)	PASSED	max_dump_file_size = UNLIMITED	max_dump_file_size = unlimited
racldb(RAC1DB2)	PASSED	max_dump_file_size = UNLIMITED	max_dump_file_size = unlimited

Verification Check : REMOTE_LISTENER
Verification Description : Checks that the REMOTE_LISTENER parameter is set
Verification Result : PASSED
Verification Summary : Check for REMOTE_LISTENER passed
Additional Details : Setting the database REMOTE_LISTENER parameter makes it possible to use listener-based load balancing and failover features.

Database (Instance)	Status	Expected Value	Actual Value
racldb(RAC1DB1)	PASSED	remote_listener <> NULL	remote_listener = cluster1-scan.mynet.com:15 21
racldb(RAC1DB2)	PASSED	remote_listener <> NULL	remote_listener = cluster1-scan.mynet.com:15 21

Verification Check : Database Datafiles in Backup Mode
Verification Description : Checks if there are any database datafiles in backup mode
Verification Result : PASSED
Verification Summary : Check for Database Datafiles in Backup Mode passed

Database (Instance)	Status	Expected Value	Actual Value
racldb	PASSED	files_in_backup = 0	files_in_backup = 0

Verification Check : Files Needing Media Recovery
Verification Description : Checks if there are any files needing media recovery
Verification Result : PASSED
Verification Summary : Check for Files Needing Media Recovery passed

Database (Instance)	Status	Expected Value	Actual Value
racldb	PASSED	media_recovery_files = 0	media_recovery_files = 0

Verification Check : In-doubt Distributed Transactions
Verification Description : Checks if there are any in-doubt distributed transactions
Verification Result : PASSED
Verification Summary : Check for In-doubt Distributed Transactions passed
Additional Details : Indoubt distributed transactions need to be investigated

before attempting any database upgrade. Refer the notes in the reference section for more details.

Database(Instance)	Status	Expected Value	Actual Value
racldb	PASSED	indoubt_dist_trans = 0	indoubt_dist_trans = 0

Verification Check : SYS-Owned Object Tables Check
Verification Description : Checks for the presence of any SYS-owned object tables
Verification Result : PASSED
Verification Summary : Check for SYS-Owned Object Tables Check passed
Additional Details : Refer the reference section before proceeding with any upgrade.
References (URLs/Notes) : <https://support.oracle.com/CSP/main/article?cmd=show&type=NOT&id=579523.1>

Database(Instance)	Status	Expected Value	Actual Value
racldb	PASSED	sys_obj_tables = 0	sys_obj_tables = 0

Verification Check : Invalid Objects in dba_registry
Verification Description : Checks for the presence of any invalid objects in dba_registry
Verification Result : PASSED
Verification Summary : Check for Invalid Objects in dba_registry passed
Additional Details : Checking for invalid components and objects before upgrade. There should not be any invalid objects in the database before upgrade. Prior to upgrade, resolving invalid objects under SYS and SYSTEM is mandatory. Run \$ORACLE_HOME/rdbms/admin/utlrp.sql to validate the invalid objects in the database and then re-execute multiple times, until there is no change in the number of invalid objects.
References (URLs/Notes) : <https://support.oracle.com/CSP/main/article?cmd=show&type=NOT&id=556477.1>

Database(Instance)	Status	Expected Value	Actual Value
racldb	PASSED	invalid_registry_comp_count = 0	invalid_registry_comp_count = 0

Verification Check : Materialized View Group Refresh Jobs
Verification Description : Checks if there are any materialized view group refresh in


```

Verification Result      : progress
Verification Result      : PASSED
Verification Summary     : Check for Materialized View Group Refresh Jobs passed
Additional Details       : Before proceeding with an upgrade ensure that all snapshot
                          refreshes are successfully completed, and that replication
                          is stopped.
References (URLs/Notes)  : https://support.oracle.com/CSP/main/article?cmd=show&type=N
                          OT&id=258021.1

```

Database (Instance)	Status	Expected Value	Actual Value
racldb	PASSED	mv_group_refresh_jobs = 0	mv_group_refresh_jobs = 0

```

Verification Check      : Materialized View Manual Group Refresh
Verification Description : Checks if there are any materialized view group refresh in
                          progress
Verification Result     : PASSED
Verification Summary    : Check for Materialized View Manual Group Refresh passed
Additional Details      : Before proceeding with an upgrade ensure that all snapshot
                          refreshes are successfully completed, and that replication
                          is stopped.
References (URLs/Notes) : https://support.oracle.com/CSP/main/article?cmd=show&type=N
                          OT&id=258021.1

```

Database (Instance)	Status	Expected Value	Actual Value
racldb	PASSED	mv_group_manual_refresh = 0	mv_group_manual_refresh = 0

```

Verification Check      : Redo Log Size (MB)
Verification Description : Checks if the redo log size is sufficient
Verification Result     : PASSED
Verification Summary    : Check for Redo Log Size (MB) passed
Additional Details      : Ensure that the redo logfile size is greater than 4MB when
                          upgrading to 11g
References (URLs/Notes) : https://support.oracle.com/CSP/main/article?cmd=show&type=N
                          OT&id=601807.1

```

Database (Instance)	Status	Expected Value	Actual Value
racldb	PASSED	redo_log_file_less_than_4mb = 0	redo_log_file_less_than_4mb = 0

```

Verification Check      : All tablespaces are locally managed

```

Verification Description : Checks that all tablespaces are locally managed
 Verification Result : PASSED
 Verification Summary : Check for All tablespaces are locally managed passed
 Additional Details : In order to reduce contention to the data dictionary,
 rollback data, and reduce the amount of generated redo,
 locally managed tablespaces should be used rather than
 dictionary managed tablespaces.
 References (URLs/Notes) : [https://support.oracle.com/CSP/main/article?cmd=show&type=N
 OT&id=175434.1](https://support.oracle.com/CSP/main/article?cmd=show&type=NOT&id=175434.1)
[https://support.oracle.com/CSP/main/article?cmd=show&type=N
 OT&id=105120.1](https://support.oracle.com/CSP/main/article?cmd=show&type=NOT&id=105120.1)

Database (Instance)	Status	Expected Value	Actual Value
rac1db	PASSED	no_of_dictionary_managed_ts = 0	no_of_dictionary_managed_ts = 0

Verification Check : Cluster Interconnects
 Verification Description : Check Cluster Interconnects
 Verification Result : PASSED
 Verification Summary : Check for Cluster Interconnects passed

Database (Instance)	Status	Expected Value	Actual Value
rac1db (RAC1DB1)	PASSED	cluster_interconnects >= 1	cluster_interconnects = 1
rac1db (RAC1DB2)	PASSED	cluster_interconnects >= 1	cluster_interconnects = 1

Verification Check : CORE_DUMP_DESTINATION
 Verification Description : Checks CORE_DUMP_DEST
 Verification Result : PASSED
 Verification Summary : Check for CORE_DUMP_DESTINATION passed
 Additional Details : Old trace files from CORE_DUMP_DEST should be archived
 regularly outside of ORACLE_BASE otherwise one may run out
 of space on ORACLE_BASE mount point and may not be able to
 collect diagnostic information when failure occurs.

Database (Instance)	Status	Expected Value	Actual Value
rac1db (RAC1DB1)	PASSED	0	0
rac1db (RAC1DB2)	PASSED	0	0

Verification Check : database [and ASM] alert log messages indicating internal
 errors (ORA-00600 errors)

Verification Description : Checks for ORA-00600 errors in alert log
 Verification Result : PASSED
 Verification Summary : Check for database [and ASM] alert log messages indicating internal errors (ORA-00600 errors) passed
 Additional Details : Recurring ORA-00600 errors may lead to database block corruption or some serious issue. Please see the trace file for more information next to ORA-00600 error in alert log. If you are not able to resolve the problem, please open service request with Oracle support.

Database (Instance)	Status	Expected Value	Actual Value
rac1db(RAC1DB1)	PASSED	ORA-00600_COUNT=0	ORA-00600_COUNT=0
rac1db(RAC1DB2)	PASSED	ORA-00600_COUNT=0	ORA-00600_COUNT=0

Verification Check : database [and ASM] alert log messages indicating internal errors (ORA-07445 errors)
 Verification Description : Checks for ORA-07445 errors in alert log
 Verification Result : PASSED
 Verification Summary : Check for database [and ASM] alert log messages indicating internal errors (ORA-07445 errors) passed
 Additional Details : Recurring ORA-07445 errors may lead to database block corruption or some serious issue. Please see the trace file for more information next to ORA-07445 error in alert log. If you are not able to resolve the problem, please open service request with Oracle support.

Database (Instance)	Status	Expected Value	Actual Value
rac1db(RAC1DB1)	PASSED	ORA-07445_ERR_COUNT=0	ORA-07445_ERR_COUNT=0
rac1db(RAC1DB2)	PASSED	ORA-07445_ERR_COUNT=0	ORA-07445_ERR_COUNT=0

Verification Check : Database alert log file size
 Verification Description : Checks for the size of database alert log file
 Verification Result : PASSED
 Verification Summary : Check for Database alert log file size passed
 Additional Details : If alert log file is larger than 50 MB, it should be rolled over to new file and old file should be backed up.

Database (Instance)	Status	Expected Value	Actual Value
rac1db(RAC1DB1)	PASSED	0	0
rac1db(RAC1DB2)	PASSED	0	0

Verification Check : Automatic segment storage management
 Verification Description : Checks all tablespaces are using automatic segment storage management
 Verification Result : PASSED
 Verification Summary : Check for Automatic segment storage management passed

Database (Instance)	Status	Expected Value	Actual Value
racldb	PASSED	auto_segment_space_managemen t <= 0	auto_segment_space_managemen t = 0

Verification Check : Average GC CR Block Receive Time
 Verification Description : Check Avg GC CR Block Receive Time
 Verification Result : PASSED
 Verification Summary : Check for Average GC CR Block Receive Time passed
 Additional Details : The average gc cr block receive time should typically be less than 15 milliseconds depending on your system configuration and volume. This is the average latency of a consistent-read request round-trip from the requesting instance to the holding instance and back to the requesting instance.

Database (Instance)	Status	Expected Value	Actual Value
racldb (RAC1DB1)	PASSED	avg_gc_cr_block_receive_time <= 15	avg_gc_cr_block_receive_time = 8.39689179952785601062566349 803434920235
racldb (RAC1DB2)	PASSED	avg_gc_cr_block_receive_time <= 15	avg_gc_cr_block_receive_time = 11.4586954003012397172981114 586954003012

Verification Check : Automatic Undo Management
 Verification Description : Check automatic undo management
 Verification Result : PASSED
 Verification Summary : Check for Automatic Undo Management passed
 Additional Details : Oracle provides a fully automated mechanism, referred to as automatic undo management, for managing undo information and space. In this management mode, you create an undo tablespace, and the server automatically manages undo segments and space among the various active sessions. You should set the UNDO_MANAGEMENT initialization parameter to AUTO to enable automatic undo management.

Database (Instance)	Status	Expected Value	Actual Value
rac1db (RAC1DB1)	PASSED	undo_management = AUTO	undo_management = AUTO
rac1db (RAC1DB2)	PASSED	undo_management = AUTO	undo_management = AUTO