



1Z0-068^{Q&As}

Oracle Database 12c: RAC and Grid Infrastructure Administration

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**QUESTION 1**

Which three are benefits of using RAC databases with multiple instances? (Choose three.)

- A. surviving node failures
- B. surviving storage network failures
- C. surviving interconnect failures
- D. automatic workload management for services on local connections
- E. automatic workload management for services on Oracle Net connections
- F. parallel execution across all instances supporting a balanced policy-management service
- G. parallel execution across all instances supporting a singleton policy-management service

Correct Answer: BCD

Section: (none)

QUESTION 2

When using Oracle 12 Clusterware, which two actions are required to repair the ocr.loc file on host01 in a cluster having three other nodes called host02, host03, and host04?

- A. Run ocr.config ?epair on another node in the cluster to repair the ocr.loc file on host01
- B. Stop the clusterware stack on host01 only.
- C. Stop the clusterware stack on all cluster nodes.
- D. Run ocrconfig ?epair on host01.
- E. Stop the clusterware stack on host01 and on the node used to issue the ocrconfig ?epair command.

Correct Answer: BD

Section: (none)

B: You cannot repair the OCR configuration on a node on which the Oracle Cluster Ready Services daemon is running.

D: When you repair OCR on a stopped node using ocrconfig -repair, you must provide the same OCR file name (which should be case-sensitive) as the OCR file names on other nodes. Reference:
https://docs.oracle.com/cd/E11882_01/rac.112/e41959/votocr.htm#CHDJJDEF

QUESTION 3

Your flex cluster has these attributes:



1. Hub nodes host01 and host02
2. Leaf nodes host03 and host04
3. Full Featured GNS is configured and running.

You attempt to run this command to add two more nodes to the cluster:

```
$ ./addnode.sh ?ilent "CLUSTER_NEW_NODES={host05,host06}" "CLUSTER_NEW_NODE_ROLES={hub,leaf}"
```

What is the result and the reason for this result?

- A. It fails because no VIP was specified for the hub node host05.
- B. It fails because hub and leaf nodes may not be added by the same execution of addNode.sh.
- C. It fails because GNS doesn't assign VIPs for leaf nodes and no VIP was specified in the command.
- D. It succeeds because no VIP specification is required for leaf nodes and none need to be specified for hub nodes when using full featured GNS.

Correct Answer: A

Section: (none)

Hub Nodes always have VIPs.

Incorrect Answers:

C: Hub Nodes always have VIPs but Leaf Nodes may not.

B: Use the CLUSTER_NEW_NODE_ROLES parameter to indicate, in an Oracle Flex Cluster, whether the node you are adding is a Hub Node or a Leaf Node.

You can add multiple nodes, as follows:

```
$ addnode.sh -silent -noCopy ORACLE_HOME=Grid_home "CLUSTER_NEW_NODES= {node2,node3,node4}"  
"CLUSTER_NEW_VIRTUAL_HOSTNAMES={node2-vip,node3-vip,}"  
"CLUSTER_NEW_NODE_ROLES={HUB,HUB,LEAF}"
```

In the preceding syntax example, Node 4 is designated as a Leaf Node and does not require that a VIP be included.

References: <https://docs.oracle.com/database/121/CWADD/clonecluster.htm#CWADD92139>

QUESTION 4

Which three statements are true about Server Categorization in Oracle 12c Clusterware?

- A. All server attributes that may be used to determine the server category are discovered automatically by Oracle Clusterware.
- B. Different Hub nodes in a flex cluster may belong to separate administrator-defined categories.



- C. All hub nodes in a flex cluster belong to the same Oracle-supplied category.
- D. A server may be added to only one category using the crsctl utility.
- E. All leaf nodes in a flex cluster belong to the same Oracle-supplied category.
- F. All server attributes used for categorization are administrator modifiable.

Correct Answer: CEF

Section: (none)

CE: The SERVER_CATEGORY is the name of a registered server category, used as part of server categorization. Oracle Clusterware standard Clusters and Oracle Flex Clusters have default categories of hub and leaf.

F: Server Category Attributes You define servers into named categories, and assign attributes that define servers as members of that category. Some attributes that you can use to define members of a category describe the state conditions for the server, and others describe the physical characteristics of the server. You can also create your own characteristics to define servers as members of a particular category.

References: <https://docs.oracle.com/database/121/CWADD/pbmgmt.htm#CWADD92638>

QUESTION 5

Which three commands can be used to verify the integrity of Oracle Clusterware 12c OCR and OLR files? (Choose three.)

- A. ocrcheck
- B. ocrcheck -config -local
- C. ocrcheck -local
- D. ocrcheck -config
- E. cluvfy comp ocr -n all -verbose

Correct Answer: ABE

Section: (none)

QUESTION 6

Which three statements are true about ASM Cloud File System (ACFS) replication?

- A. ACFS auditing information is replicated from the primary file system to the standby file system.
- B. One site of an ACFS replication configuration can be host both primary and standby file systems.
- C. Replication is automatically terminated if the primaries file system has less than 2GB free space.
- D. Standby redo log files are required on the standby site for synchronous redo transport.



E. The privilege SYSREPL has been introduced for ACFS replication.

Correct Answer: BCD

Section: (none)

B: A site can host both primary and standby file systems.

C: If the primary file system has less than 2 GB available free disk space, Oracle ACFS attempts to automatically terminate replication on the primary file system.

D: On the standby system, the remote file server (RFS) receives redo data over the network from the LGWR process and writes the redo data to the standby redo log files.

Reference: <https://docs.oracle.com/database/121/OSTMG/GUID-8522E0B6-BE6E-4BE3-B7C7-5EA2ED4A602C.htm#OSTMG34600>

https://docs.oracle.com/cd/B19306_01/server.102/b14239/log_transport.htm#i1280979

QUESTION 7

Which three components are integral parts of High Availability NFS (HANFS)?

A. Application VIP

B. DHCP

C. ExportFS

D. HAVIP

E. NFS

F. HAIP

Correct Answer: CDE

Section: (none)

CD: In addition to ACFS/ADVM and ASM, HANFS also relies on new Oracle 12.1 Clusterware (CRS) resources, namely the HAVIP and the ExportFS.

DE: High Availability Network File Storage (NFS) for Oracle Grid Infrastructure provides uninterrupted service of NFS V2/V3/V4 exported paths by exposing NFS exports on Highly Available Virtual IPs (HAVIP) and using Oracle Clusterware

agents to ensure that the HAVIPs and NFS exports are always online.

References: <https://docs.oracle.com/database/121/OSTMG/GUID-4D7A5911-8FA6-47DC-98BB-593B2C90D43E.htm#OSTMG95489>

<http://www.oracle.com/ocom/groups/public/@otn/documents/webcontent/2011281.pdf>

QUESTION 8



Which two statements are true about ASM alias names?

- A. ASM files created using an alias name are not OMF files even if OMF is enabled.
- B. Alias file names cannot be used together with templates when creating tablespaces.
- C. ASM files created using an alias name are OMF files even if OMF is not enabled.
- D. Alias names can be stored only in user-defined directories.
- E. ASM files created using an alias name also have a fully qualified name and can be accessed by either name.

Correct Answer: AB

Section: (none)

A: Alias names are not created as OMF.

B: An alias ASM filename with template is used only for ASM file creation operations. It has the following format: +dgroup(template_name)/alias

Incorrect Answers:

D: You can create an alias in any system-generated or user-created Oracle ASM directory.

References: <https://docs.oracle.com/database/121/OSTMG/GUID-7AE5B8CA-B563-4864-A934-4C170A9590F5.htm#OSTMG10065>

QUESTION 9

Which two statements are true about resources defined by an administrator and registered with Oracle 12c Clusterware for high availability?

- A. A policy-managed resource can be started manually using crsctl.
- B. A policy-managed resource can be started manually using srvctl.
- C. Resource dependencies are automatically set when using a policy-managed resource.
- D. An administrator-managed resource can be started manually using crsctl.
- E. An administrator-managed resource can be started manually using srvctl.
- F. The action script is automatically set when using a policy-managed resource.

Correct Answer: AE

Section: (none)

A: With policy-based management, administrators specify the server pool (excluding the Generic and Free pools) in which the servers run. For example, a database administrator uses SRVCTL to create a server pool for servers hosting a database or database service. A clusterware administrator uses CRSCTL to create server pools for non-database use, such as creating a server pool for servers hosting an application.

E: Administrator-managed resources refer to databases. You must use SRVCTL to create server pools that host Oracle



databases. You must use CRSCTL to create server pools that host non-database resources such as middle tiers and applications.

References: <https://docs.oracle.com/database/121/CWADD/pbmgmt.htm#CWADD92894>

QUESTION 10

Which three statements are true about the cluster file system archiving scheme?

- A. Each node can read only the archived logs written by itself.
- B. Nodes don't use network to archive files.
- C. Each node can read the archive redo log files of the other nodes.
- D. Each node archives to a uniquely named local directory.
- E. Each node archives to a local directory with the same path on each cluster node.
- F. Each node writes to a single location on the cluster file system while archiving the redo log files.

Correct Answer: ABD

Section: (none)

AB: In a cluster file system each node can only read from and write to its own local file system.

D: Configure each node to write to a local archiving directory that is named the same on each node.

References: https://docs.oracle.com/cd/E18283_01/rac.112/e16795/rman.htm

QUESTION 11

Examine this command:

```
$ srvctl modify service -db RACDB -service SRVB1 -clbgoal LONG
```

This three-Instance RAC database uses Flex ASM.

Which two statements are true regarding server-side connect-time load balancing using SCAN listeners for this service? (Choose two.)

- A. It is enabled only when LOAD_BALANCE=YES is coded in the client-side TNS entry used by the client.
- B. The SCAN listeners redirect clients to the node listener serving the instance that has the fewest sessions for the SRVB1 service.
- C. The SCAN listeners automatically balance the connections across the instances accepting logins for the SRVB1 service.
- D. It is disabled because the -c1bgoal attribute is set to LONG.
- E. The SCAN listeners redirect clients to the node listener serving the instance that has the fastest response time for the



SRVB1 service.

Correct Answer: AD

Section: (none)

QUESTION 12

Which three statements are true about opatch version 12?

- A. It can apply patches to a database ORACLE_HOME.
- B. It can apply a patchset to a database ORACLE_HOME.
- C. It cannot apply a patch to a Grid Infrastructure ORACLE_HOME.
- D. It cannot run with root privileges on a Unix-like system.
- E. It can apply some patches without shutting down database instances.
- F. It can only apply patches on the cluster node from where it is issued.

Correct Answer: ACD

Section: (none)

QUESTION 13

Which three statements are true concerning node evictions and reboots performed by Oracle Clusterware 12c?

- A. All node evictions require that the evicted node or nodes be rebooted.
- B. A node whose performance is severely degraded can be evicted.
- C. The OCSSD process may evict a node after an escalation request from a database instance LMON process.
- D. The CSSDMONITOR process can request a node eviction.
- E. The OCLSKD process is used for node eviction requests originating on the node to be evicted.
- F. The reboot advisory broadcasts reboot decisions only over the interconnect.

Correct Answer: BDE

Section: (none)

D: The cssdagent and cssdmonitor provide the following services to guarantee data integrity: Monitors the CSS daemon; if the CSS daemon stops, then it shuts down the node

Monitors the node scheduling to verify that the node is not hung, and shuts down the node on recovery from a hang.



Note If the Oracle Clusterware itself is working perfectly but one of the RAC instances is hanging , the database LMON process will request a member kill escalation and ask the CSS process to remove the hanging database instance from the

cluster.

On a Linux/Unix system CSS consists of ocspd.bin, cssdmonitor, and cssdagent.

E: Cluster kill daemon (oclskd) handles instance/node evictions requests that have been escalated to the Cluster Synchronization Service (CSS). Incorrect Answers:

C: Ocspd manages cluster node membership and runs as the oracle user; failure of this process results in a node restart.

QUESTION 14

Examine these commands:

```
$ srvctl add service ?b racdb ?ervice erp ?erverpool srvpooll
```

```
- failovertype TRANSACTION ?ommit_outcome TRUE ?replay_init_time 1800
```

```
- retention 86400 ?otification TRUE ?lbgoal SERVICE_TIME ?lbgoal SHORT
```

```
- failoverretry 30 ?failoverdelay 10 $ srvctl start service ?db racdb ?service erp
```

Instances RACDB_1 and RACDB_2 run on host01 and host02, respectively. Which three statements are true regarding the service erp?

- A. Connections to the database using erp benefit from Application Continuity.
- B. erp is configured for an administrator-managed RAC database.
- C. Load Balancing Advisory (LBA) will be disabled for this service.
- D. Connections to the database using erp benefit from Load Balancing.
- E. Connections to the database using erp benefit from Transaction Guard.

Correct Answer: ADE

Section: (none)

A: To enable Application Continuity for Java, set the failovertype parameter to TRANSACTION.

D: -clbgoal {SHORT | LONG}

Connection Load Balancing Goal. Use a value of SHORT for this parameter for run-time load balancing, or if using an integrated connection pool.

E: Enable Transaction Guard through the -commit_outcome parameter. When it is set to TRUE, the commit outcome for a transaction is accessible after the transaction's session fails due to a recoverable outage.

Incorrect Answers:



C: Load Balancing Advisory (LBA) is set through ?lbgol parameter. Set this parameter to SERVICE_TIME to balance connections by response time

References: <https://docs.oracle.com/database/121/RACAD/srvctladmin.htm#RACAD5050>

QUESTION 15

Which two statements are true concerning ASM diskgroups using disks with a 4k sector size?

- A. Their COMPATIBLE.ASM attributes must be set to 12.1 or higher.
- B. Their COMPATIBLE.ASM attributes must be set to 11.2 or higher.
- C. Performance of ACFS is improved by using these diskgroups.
- D. Their COMPATIBLE.RDBMS attributes must be set to 11.2 or higher.
- E. Their sector size attributes can be changed using the ALTER DISKGROUP command.

Correct Answer: BD

Section: (none)

The values for SECTOR_SIZE can be set to 512, 4096, or 4K if the disks support those values. The default value is platform dependent. The COMPATIBLE.ASM and COMPATIBLE.RDBMS disk group attributes must be set to 11.2 or higher

to set the sector size to a value other than the default value.

Incorrect Answers:

C: Oracle ASM provides support for 4 KB sector disk drives without negatively affecting performance.

Reference: <https://docs.oracle.com/database/121/OSTMG/GUID-8B656725-D347-4166-8775-1070B6C4D580.htm#OSTMG10203>

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