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Exam : HP HP0-093

Title : HP-UX High Availability

1. Consider the following entry in the /etc/rc.config.d/cmcluster file.

```
AUTOSTART_CMCLD=1
```

Which parameter in the cluster ascii file is most affected by this entry?

- A. CMCLD\_TIMEOUT
- B. CMCLD\_RUN\_START
- C. AUTOSTART\_TIMEOUT
- D. HEARTBEAT\_INTERVAL
- E. AUTOSTART\_CMCLD

Answer: C

2. When a RUN\_SCRIPT\_TIMEOUT or HALT\_SCRIPT\_TIMEOUT value is set and the control script hangs, causing the timeout to be exceeded, Serviceguard kills the script and marks the package "Halted." What else is also true? (Choose two).

- A. Control of the package will not be transferred.
- B. The run or halt instructions will always run to completion.
- C. Global switching will be disabled.
- D. The standby node will begin running the package.
- E. Serviceguard will automatically restart the package.

Answer: AC

3. When using a cluster lock disk in a two node cluster, what happens when all configured heartbeat LAN interfaces on one node fail at the same time?

- A. The node with the faulty LAN interfaces will TOC.
- B. The node with the healthy heartbeat will reform the cluster.
- C. All packages running on the node with the faulty heartbeat LAN interfaces will failover to the other node.
- D. Whichever node takes the ownership of the lock disk will reform the cluster and the other node will TOC.

Answer: D

4. Exhibit:

**\*\*MISSING\*\***

Package run\_donkey is running on shrek and will failover to fiona in case of a node failure. Review the package configuration files and control scripts on both systems shrek and fiona. What are the problems that can prevent a successful package failover? (Choose two).

- A. FAILBACK\_POLICY
- B. RUN\_SCRIPT\_TIMEOUT
- C. LV [ ]
- D. NODE\_FAST\_FAILOVER
- E. IP [ ]
- F. SUBNET [ ]
- G. FS\_UMOUNT\_COUNT
- H. FS\_MOUNT\_RETRY\_COUNT

Answer: CE

5. What is the purpose of a lock disk in a cluster?

- A. prevents activation of unclustered disks
- B. keeps track of who is activating each volume group
- C. prevents split-brain syndrome in the cluster
- D. locks non-root users from running Serviceguard commands

Answer: C

6. In a two node cluster, two identical servers (same CPU, memory, and I/O card configurations) are designed to host the application and database servers of a 3-tier application. Under normal operations the database is hosted on server A and the application server is hosted on server B, each server with load at 90% of capacity.

What is likely to occur in the event of a single server failure, after both applications have migrated to the surviving node?

- A. Nothing ;both application will perform as usual.
- B. Both applications run in degraded mode.
- C. The database application runs in degraded mode.
- D. The application server runs in degraded mode.

Answer: B

7. In a two node HA cluster, two identical servers (same CPU, memory, and I/O card configurations) are designed to host the database tier of a 3-tier application. They are connected to a large external disk array through two fibre channel links. Under normal operations the production database is hosted on server A and a batch reporting tool is hosted on server B.

What are possible remedies for slow performance of the production database during a failure situation? (Choose two).

- A. Re-adjust resource allocations using PRM.
- B. Terminate batch reporting to reduce CPU load.
- C. Renice the batch reporting to strengthen its priority.
- D. Utilize WLM and Perfview middleware to free up additional CPU.
- E. Terminate WLM and Perfview middleware to free up additional CPU.

Answer: AB

8. What are causes of an unsuccessful package failover? (Choose three).

- A. deleting the package log file
- B. deleting the package configuration file
- C. changing the control scripts execution rights
- D. changing the configuration scripts execution rights
- E. not synchronizing package control scripts on all nodes
- F. removing the package mount points on the standby node
- G. not synchronizing package configuration scripts on all nodes

Answer: CEF

9. A package along with its associated volume groups and data are being migrated from one Serviceguard cluster to another. The volume groups were exported from the old cluster and imported into the new one.

The following error is produced by cmcheckconf:

Error: Volume group /dev/vg70 currently belongs to another cluster.

It cannot be included in this one.

Error: Volume group /dev/vg75 currently belongs to another cluster.

It cannot be included in this one.

Maximum configured packages parameter is 30.

Configuring 7 package(s).

23 package(s) can be added to this cluster.

cmcheckconf : Unable to verify cluster file:

/etc/cmcluster/cmclconf.ascii.

Cross-device link.

What change is required to resolve this error?

- A. The cmclconf.ascii file requires corrections.
- B. The cmclmigrate command must be used to move the package.
- C. The disks must first be marked as non-cluster hardware.
- D. The system must be rebooted prior to running cmcheckconf.

Answer: C

10. In a two node cluster, two identical servers (same CPU, memory, and I/O card configurations) are designed to host the application and database servers of a 3-tier application. Under normal operations the database is hosted on server A and the application server is hosted on server B.

Which system middleware tool is helpful for rebalancing loads in the event of a single server failure, after both applications have migrated to the surviving node?

- A. None. Application performance must be rebalanced manually.
- B. OpenView plug-ins can automatically rebalance CPU and memory between database and application tiers.
- C. PRM can be used to reassign system resources (vPar CPUs) to the database and application to help rebalance the loads.
- D. WLM can be used to reassign system goals and resources (vPar CPUs) to the database and application to help rebalance the loads.

Answer: D

11. What are the results of the cmapplyconf command?

- A. creates the cmcld file and distributes it to all nodes
- B. creates the cmclconfig file and distributes it to all nodes
- C. creates the cmclconfig file and distributes the ascii file and the cmclconfig file to all nodes
- D. creates the cmclcluster file and distributes the ascii file and the cmclconfig file to all nodes

Answer: B

12. Exhibit:

**\*\*MISSING\*\***

An attempt to halt a package running on shrek fails and all attempts to start the package on node fiona fail also. Using the logfile exhibits, identify the reason that the package cannot be started on fiona.

- A. The volume group vg02 was initially created without the -s option.
- B. The vg02 volume group does not exist on node fiona.
- C. The volume group vg02 on node shrek was not exported.
- D. The /mnt2 mount point does not exist on node fiona.

Answer: C

13. In a two-node HA cluster, two servers are specified to host the application and database servers of a 3-tier application. Client systems connect through an external network.

Which techniques are employed to provide a degree of high availability to the clients that connect to the application tier? (Choose two).

- A. Implement load balancing on all three tiers.
- B. Implement alias user accounts to provide alternate access.
- C. Utilize redundant client IP networks for different groups.
- D. Implement network address translations in a round robin algorithm.
- E. Implement redundant routers between clients and the HA cluster network.

Answer: CE

14. The final step to create a two node cluster is to issue the command cmapplyconf. In which state should the cluster lock volume group, vglock, be in before issuing the cmapplyconf command?

- A. deactivated on both systems
- B. activated in standard mode on both systems
- C. activated in standard mode on one system

D. activated in exclusive mode on one system

Answer: C

15. If an NFS package control script fails, Serviceguard kills the script and marks the package "Halted." Which statements are true? (Choose three).

- A. The node must be rebooted.
- B. nfsd must be restarted.
- C. Volume groups may be left active.
- D. File systems may still be mounted.
- E. The NFS package will be enabled on the adoptive node.
- F. IP addresses may still be assigned.

Answer: CDF

16. What is true regarding Quorum Server?

- A. A Quorum Server is required for any cluster.
- B. Quorum Server can support more than one cluster.
- C. Quorum Server can be a member of the monitored cluster.
- D. Quorum Server must be installed on a server which is running HP-UX OS.

Answer: B

17. In a two node HA cluster, two identical servers (same CPU, memory, and I/O card configurations) are designed to host the database tier of a 3-tier application. They are connected to a large external disk array through two fibre channel links. Under normal operations the production database is hosted on server A and a batch reporting tool is hosted on server B.

What are possible remedies for slow performance of the production database during non-failure operation? (Choose two).

- A. Implement PVlinks on both servers.
- B. Activate available ICOD CPUs on server A.
- C. Terminate batch reporting on server B to reduce disk array load.
- D. Terminate WLM and Perview middleware to free up additional CPU.

Answer: BC

18. Given the Cluster Configuration Diagram as a reference, consider the following excerpt from the cluster config.file.

```
NETWORK_INTERFACE lan0
```

```
HEARTBEAT_IP 15.20.30.6
```

```
NETWORK_INTERFACE lan2
```

```
HEARTBEAT_IP 15.20.31.1
```

```
# warning: There are no standby network interfaces for lan0.
```

```
# warning: There are no standby network interfaces for lan2.
```

What is the likely network configuration issue?

- A. router is not configured correctly
- B. cluster config.file should be edited to include a standby lan
- C. /etc/rc.config.d/netconf file is incorrect
- D. network is not physically wired correctly

Answer: B

19. In a two-node HA cluster, two servers are specified to host the application and database servers of a 3-tier application. Client systems connect through an external network.

Which techniques are employed to provide a degree of high availability to the clients that connect to the application tier? (Choose two).

- A. Utilize redundant client IP networks for different groups.
- B. Alias user accounts to provide alternate access.
- C. Implement network address translations in a round robin algorithm.

D. Implement redundant routers between clients and the HA cluster network.

Answer: AD

20. Which command uses Serviceguard Flight Recorder to write out the log buffer to aid in troubleshooting when a failure occurs?

- A. cmextractfr
- B. cmfmtfr
- C. cmdumpfr
- D. cmcorefr

Answer: C

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