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### IBM Certified Advanced Technical Expert

**000-237: hacmp for aix 5l**

**Practice Exam:** 000-237 Exams

**Exam Number/Code:** 000-237

**Exam Name:** hacmp for aix 5l

**Questions and Answers:** 164 Q&As

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Exam : IBM 000-237

Title : Hacmp for aix 5l

1. An enterprise has three nodes: - Node 'A' is a production database, - Node 'B' is a production application server, and - Node 'C' is a test and development node. Node 'C' is used by six programmers to develop and test software releases and new versions of the database, as well as to test new AIX PTFs. The CIO identified the production application as business critical and would like to make it highly available with HACMP. Application development and testing is not business critical. Which of the following describes the best solution?

A. There is not an adequate solution because HACMP should not be configured in this environment without a dedicated standby node.

B. Nodes 'A' and 'B' should be configured in a cluster with mutual failover of two cascading resource groups to provide both nodes will deliver acceptable response time with both resource groups.

C. Nodes 'A' and 'C' should be configured in one cluster, and Nodes 'B' and 'C' in another cluster to prevent both the database and application server from falling over to Node 'C' at the same time.

D. Nodes 'A', 'B', and 'C' should be configured in a cluster with Node 'C' the hot standby for both the database and application server resource groups. Workload Manager (WLM) must be configured on Node 'C' to prevent the application developers from over utilizing the CPU resources.

Answer: B

2. What is a prerequisite for using the application availability analysis tool in HACMP?

A. Tivoli is required to generate reports from the data collected.

B. An application monitor must be associated with the application to monitor.

C. An "aaatd" daemon must be started and added in as a post event to "node\_up\_complete".

D. Resource group is present on all of the systems in the cluster that have the desired application.

Answer: B

3. A customer has a three-node cluster (Node 'A', Node 'B', and Node 'C') with three resource groups (rg1, rg2, and rg3). Node 'A' has twice as many CPUs and twice as much memory as the two test and development Nodes 'B' and 'C'. During normal production processing, all resource groups are active on Node 'A'. What is most efficient way to configure the cluster to manage the workload?

A. Use three cascading resource groups where 'rg1' and 'rg2' failover to Node 'B' and 'rg3' falls over to Node 'C'.

B. Use Dynamic Node Priority resource groups with a priority chain consisting of Node 'A' then Node 'B' then Node 'C'.

C. Use three rotating resource groups with 'rg1' and 'rg2' falling over to Node 'B' and 'rg3' falling over to Node 'C'.

D. Upgrade Nodes 'B' and 'C' to be equal to Node 'A' in CPU and memory resources to enable the cluster to synchronize three resource groups.

Answer: A

4. During a planning meeting, a customer indicates that they intend to make a relational database highly available.

The application has a pre-requisite that a kernel extension be loaded from /etc/inittab. How would this be managed in an HACMP environment?

- A.It can be started with a crontab entry.
- B.It can be created as an Application Server.
- C.It can be added to a resource group as a dependency.
- D.It cannot be done because HACMP provides no method to order application start/stop scripts.

Answer: B

5. While reviewing the HACMP log file, a warning message appears stating that a custom event script could not be found. A check of the current path settings indicates that all required paths are present. What step can be taken to correct the missing paths issues during cluster event processing?

- A.Move the custom script to a different location such as /usr/sbin.
- B.Include required paths at the start of the custom script.
- C.Synchronize and verify the cluster to ensure both nodes are the same.
- D.Create a pre event that sets the correct paths and executes the script.

Answer: B

6. A customer has installed HACMP and is configuring a three-node cluster. One of the applications uses the AIX hostname as a key for authorization to execute on the specific computer. The application vendor was contacted and consented to having multiple copies of the application but required that only one application be active at any one point in time. How can the AIX host name dependency be managed in an HACMP environment?

- A.It cannot be managed because the application will not work properly with HACMP.
- B.The application start and stop script for the application can manage the hostname.
- C.HACMP will require customization to correctly manage a change in the hostname since it is tied to the primary network adapter.
- D.HACMP will have to be restarted if the hostname is changed. This can be done with customization in the node\_up and node\_down event scripts.

Answer: B

7. What must be done to make a shared tape drive highly available?

- A.Ensure the rmt numbers are unique per node.
- B.Nothing, because HACMP manages the state of the tape drive.
- C.Nothing, because highly available tape devices are not supported.
- D.Ensure that the tape device is in a defined state after system startup.

Answer: D

8. A customer is implementing an HACMP solution. The application has a license key based on the hostname. The hostname is also the name used for one of the TCP/IP interfaces. The application vendor has worked with HACMP systems before and is aware of the issue. The preferred method for resolving this issue is to:

- A.include the hostname in the resource group definition.
- B.include the license key in the resource group definition.
- C.obtain a second license key for a "standby" system from the application vendor.
- D.set the hostname to be one of the TCP/IP interface included in a resource group.

Answer: C

9. A customer has an application that has a hard-coded hostname in the startup routines. The application is being made highly available using HACMP. During testing, the application does not start on the standby node because the hostname was not what the application expected. What can be done to fix this problem?

- A.Manage the hostname in the application server start and stop scripts.
- B.Nothing, because this application cannot be controlled by HACMP and should be started with /etc/inittab.
- C.Change the hard-coded hostname in the application startup routines to use the uname rather than the hostname.
- D.Override the default ha\_hostname in the cluster configuration to reflect the shared hostname rather than the default ha\_hostname.

Answer: A

10. During a cluster functionality test, an administrator performs a graceful stop for Node 'B' in a three-node cluster.

What is the expected state of the cluster after Node 'B' successfully completes?

- A.All cluster resources halt on Node 'B', and one or both surviving nodes will gracefully acquire the resources.
- B.All cluster processes halt on Node 'B', the cluster resources remain active, and the remaining nodes take no action.
- C.All cluster processes stay active on Node 'B', cluster resources are halted, and the remaining nodes take no action.
- D.All cluster resources will stop, cluster processes halt on Node 'B', and the remaining cluster nodes take no action.

Answer: D

11. Which log contains the output generated when starting and stopping a cluster?

- A./tmp/cspoc.log
- B./tmp/hacmp.out
- C./var/adm/ras/hacmp.error
- D./var/hacmp/clcomd/clcomddiag.log

Answer: B

12. A customer environment consists of 10 volume groups and 4 physical networks. The customer desires the fastest possible failover for a two-node cluster. Which of the following configuration alternatives will provide the fastest failover?

- A.IPAT via IP Aliasing, default shared volume groups
- B.IPAT via IP Replacement, default shared volume groups
- C.IPAT via IP Aliasing, enhanced concurrent volume groups
- D.IPAT via IP Replacement, enhanced concurrent volume groups

Answer: C

13. During a customer planning session, the LVM requirements for HACMP are provided. The administrator explains that there are five volume groups in the current production environment because filesystems constantly change due to the nature of the business. Maintenance outages are limited to one Saturday per month. There is some concern about the amount of time that will be required for outages once HACMP is installed. With HACMP, what will be the simplest method of managing LVM changes while minimizing required downtime?

- A.Make changes and allow Lazy Update to sync the changes later.
- B.Use the Cluster Single Point Of Control to manage LVM changes.
- C.Use exportvg on the primary node and importvg on the second node.
- D.Set up a local NFS cross-mount, and use the local filesystem until the outage.

Answer: B

14. An administrator mistakenly shutdown production after a failover because the service IP address was shifted from the normal production node to the standby node. What can be done to avoid this type of mistake in the future?

- A.Include the service IP address in the administrator's PS1 prompt.
- B.Alias the service IP address to the hostname in the /etc/hosts file.
- C.Define a persistent IP address with HACMP and make it a practice to use the persistent address for administration work.
- D.Add a DNS entry to map the standby node name to the service IP address so telnet connections will be to the correct node.

Answer: C

15. A customer has I/O slot constraints on two nodes that are going to be configured in an HACMP cluster. There is room for only one Network Interface Card in each node, in addition to the built-in Ethernet port on the system planer.

The best HACMP configuration for these servers is to implement:

- A.A single adapter network using the Network Interface Card in each node
- B.A single adapter network using persistent addresses on the Network Interface Card in each node
- C.A dual adapter network using the internal Ethernet adapter as a non-service interface with IPAT via IP Replacement

D.EtherChannel high availability for the network connections with HACMP cascading resource groups for data and application failover

Answer: C

16. During an HACMP installation, it is discovered that the customer is using the 802.3 frame type on the Ethernet adapters. How will this affect HACMP?

A.HACMP will support all Ethernet frame types except EtherChannel.

B.HACMP will not complete autodiscovery if an adapter of type 802.3 is discovered.

C.HACMP does not support 802.3 frame types and will ignore any adapters that are that type.

D.HACMP does not support 802.3 frame type but will attempt to add them to HACMP networks during the discovery process.

Answer: D

17. Due to recent changes in infrastructure, a four-node cluster has been split into two locations, but is still listed as a single site in HACMP. The location split has proceeded smoothly, the only exception being the serial heartbeats. There are constant errors causing the serial network to go up and down. What is the best solution to resolve this issue?

A.Install the dialback failsafe optional filesets.

B.Change the speed parameter in "smitty tty" to be 38400,8,N,1.

C.Install additional rsct filesets required for non null modem connections.

D.Change the parameters in the Network Module to stop RSCT from changing the speed of the line.

Answer: D

18. During a planning session, a customer expresses concern about the behavior of the nodes when HACMP is installed. One department is reliant on an older piece of equipment that is critical to operations and must communicate to the database server. Previous network changes indicated that this piece of equipment does not support gratuitous ARP. How can HACMP best incorporate this restriction into the cluster design?

A.The administrator must use Hardware Address Take over with HACMP.

B.The clsmuxpd process and the contents of the /etc/cluster/ping\_client\_list can address the issue.

C.HACMP does not have any facility to be compatible with older devices that have limited capabilities.

D.HACMP can use either hardware address take over, or clinfo can update the arp cache of the clients when an adapter event occurs.

Answer: D

19. An enterprise has two nodes: - Node 'A' runs a large relational database and has six CPUs and 32GB of memory. - Node 'B' is an application server with three CPU's and 16GB of memory. During peak production periods, the CPU load for Node 'A' is normally between 30% and 40%. For Node 'B', the CPU load is 10% to 20% during peak production periods. Which of the following describes the best solution for an HACMP cluster?

A.Two clusters with two resource groups in a mutual takeover configuration.

B.One cluster with two cascading resource groups in a mutual takeover configuration.

C.One cluster with two rotating resource groups in a one-sided hot standby configuration.

D.Two clusters with two resource groups in a hot-standby configuration with a newly acquired third node.

Answer: B

20. A customer has an application that requires a serial connection for Electronic Data Interchange. What must be done to integrate the serial connection into an HACMP cluster?

A.Use an RS232/422 serial Y cable.

B.Alter the device settings to 9600 8/n/1 xon/xoff.

C.Use a network based terminal server for the serial connection.

D.Nothing because HACMP does not support native serial connection failovers.

Answer: C

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