

➤ **Vendor: LPI**

➤ **Exam Code: 304-200**

➤ **Exam Name: LPIC-3 Exam 304: Virtualization**

➤ **Question 61 -- Question 80**

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**QUESTION 61**

What is true for a virtual IP address in the context of keepalived? (Choose TWO correct answers.)

- A. The distinct IP addresses of all backend servers are called virtual IP addresses.
- B. Every server running keepalived has exactly one virtual IP address and cannot have any additional virtual IP addresses.
- C. The virtual IP address is the address to which incoming connections are made in order to reach the load balancer.
- D. keepalived uses VRRP to ensure the availability of the virtual IP address.
- E. Within the whole LVS cluster managed by keepalived, the virtual IP address never appears on any network interface.

**Answer: CD**

**QUESTION 62**

Which actions should be taken in a load balanced cluster in order to protect the load balancer against outages?

- A. Load balancers cannot be protected against outages which is why they should always be built on dedicated hardware.
- B. No actions are necessary as a load balancer cannot become a single point of failure.
- C. Two or more load balancers should be deployed as a cascade that passes packets from one to the other.
- D. Two load balancers should be deployed as a failover cluster.
- E. Load balancers are used for performance and scalability reasons only and cannot be used to archive high availability clusters.

**Answer: D**

**QUESTION 63**

When using HAProxy to load balance requests over a set of web servers, what directive is needed in the HAProxy configuration in order to be able to log, on the backend web servers, the IP address of the client making a request?

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- A. option reverseproxy
- B. option forwardfor
- C. option clientlog
- D. option exposeclient

**Answer: B**

**QUESTION 64**

Which of the following statements are true regarding the handling of a hardware error in a high availability cluster? (Choose THREE correct answers.)

- A. High availability provides automatic recovery from software errors only and cannot mitigate hardware issues.
- B. After the cluster deals with an error, no manual actions are required to bring the cluster back to normal operation.
- C. Erroneous components are physically turned off as they are in an undefined state.
- D. Services are restarted on or redirected to other cluster nodes.
- E. The cluster management components monitor the health of all cluster components.

**Answer: CDE**

**QUESTION 65**

What is the purpose of fencing in a high availability cluster?

- A. Prevent failed nodes from interfering with the remaining intact part of the cluster.
- B. Ensure a consistent assignment of all network connections from a client to the same cluster server.
- C. Define constraints on which services may run on the same cluster node.
- D. Enforce storage quota and other resource limitations for each service provided by the cluster.
- E. Provide multi-tenancy cluster configuration for cloud computing.

**Answer: A**

**QUESTION 66**

Which of the following are valid load balancing algorithms for HAProxy? (Choose TWO correct answers.)

- A. persistent
- B. weightedrr
- C. source
- D. leastconn
- E. destination

**Answer: CD**

**QUESTION 67**

Which of the following statements describes fencing resources in a high availability cluster?

- A. Fencing is the automated stop and restart of cluster services that suffer from software errors.
- B. Fencing is the disconnection of a failed cluster node from any other cluster resources.
- C. Fencing is the forwarding of incoming network connections to backend servers.
- D. Fencing is the assignment of services to different cluster nodes to avoid interference of the services.
- E. Fencing is the accounting and limitation of disk usage on shared storage.

**Answer: B**

**QUESTION 68**

Which of the following statements are true regarding the determination of the capacity of a high availability cluster? (Choose TWO correct answers.)

- A. The overall capacity of all components in the cluster doesn't have to be larger than the resources needed in a regular setup.
- B. The number of nodes in a cluster has no effect on the availability as long as the sum of the available computing resources is equal.
- C. Failover clusters can be used to scale a single service beyond the capacity of a single cluster node.
- D. In regular cluster operation, not all resources are used.
- E. In case of the failure of any component, enough resources must remain to provide all cluster services.

**Answer: DE**

**QUESTION 69**

How does the command to add a new resource to a Pacemaker cluster using crm begin?

- A. crm manage cluster
- B. crm configure resource
- C. crm service add
- D. crm configure primitive
- E. crm resource new

**Answer: D**

**QUESTION 70**

While setting up a load-balanced HTTP service, Linux Virtual Server was configured with the commands:

```
ipvsadm -A -t 198.51.100.2:80 -s rr  
ipvsadm -a -t 198.51.100.2:80 -r 192.168.10.1:80 -m  
ipvsadm -a -t 198.51.100.2:80 -r 192.168.10.2:80 -m
```

and all backend servers are using the LVS host as the default router. Which additional command has to be issued on the LVS host in order to correctly handle incoming HTTP traffic?

- A. echo "1" > /proc/sys/net/ipv4/ip\_forward
- B. iptables -t nat -Z
- C. ipvsadmin -L -n
- D. ipmasq -A 192.168.10.1 -A 192.168.10.2 -p tcp --dport www -j DEMASQ
- E. netstat -r

**Answer: A**

**QUESTION 71**

When running a Linux Virtual Server (LVS) cluster, what is the purpose of a nanny process?

- A. Each nanny process checks the state of one configured service on one real server, and tells LVS if the service on that real server is malfunctioning.
- B. The nanny process powers off a nonfunctional backend server.
- C. The nanny process restarts the daemon of a failed service on a real server node.

D. The nanny process changes the IP routing table in the Linux kernel according to the LVS configuration.

**Answer: A**

**QUESTION 72**

How does high availability clustering relate to periodic storage backup? (Choose TWO correct answers.)

- A. Regular backups become generally unnecessary as any data loss or corruption is automatically recovered by the high availability cluster.
- B. Regular backups remain vital as they allow restoration of data that was accidentally deleted or corrupted.
- C. Regular backups may be reduced to the cluster configuration and cluster state data as this information is sufficient to recover any state of the cluster, including data, at any time.
- D. Backups should be located only on the local storage of the cluster and should not be backed up in order to prevent bandwidth congestion.
- E. Backup procedures may have to be adapted to the cluster to ensure complete and recoverable backups.

**Answer: BE**

**QUESTION 73**

Which of the following commands displays only the resources of the cluster information base of a pacemaker cluster?

- A. cibquery -o resources
- B. cibadmin -R
- C. cibadmin -Q -o resources
- D. cibquery -L resources
- E. cib\_admin -L resources

**Answer: C**

**QUESTION 74**

Which of the following situations can result in a split brain situation in a high availability cluster?

- A. The load balancer of a load balanced cluster fails.
- B. The communication between the cluster nodes is interrupted.
- C. Cluster services are moved between cluster nodes.
- D. More than one node is active in a load balanced cluster.
- E. A cluster node has successfully been fenced.

**Answer: B**

**QUESTION 75**

Which of the following sections are found in the Pacemaker configuration XML file?

- A. <pacemaker> and <corosync>
- B. <configuration> and <status>
- C. <nodes> and <services>
- D. <ressources> and <services>
- E. <cluster> and <state>

**Answer: B**

**QUESTION 76**

Which of the following statements are true regarding the Red Hat Enterprise Linux High Availability Add-On? (Choose TWO correct answers.)

- A. It offers support for load balanced clusters only and cannot manage failover clusters.
- B. It does not include any storage components.
- C. It can be managed using the regular Pacemaker commands like pcs.
- D. It uses its own messaging subsystem, RHMQ, for cluster communication.
- E. It is built on top of several high availability components that are also available in other Linux distributions.

**Answer: CE**

**QUESTION 77**

Which of the following statements are true regarding a load balancer? (Choose TWO correct answers.)

- A. Failover clusters are not operational without at least one dedicated load balancer.
- B. All response packages sent from a backend server to a client must pass through the load balancer.
- C. The load balancer is usually deployed on one of the backend servers.
- D. Load balancers may be able to analyze traffic.
- E. All incoming connections to the cluster services are received by the load balancer.

**Answer: DE**

**QUESTION 78**

In a Pacemaker cluster, which one of the following commands shows the right syntax for fencing the node on port 3 using the APC rack PDU device which can be found at IP address 192.168.1.145?

- A. `apc_stonith -a 192.168.1.145 -l apc -n 3 -v -o shutdown -r now`
- B. `fence_apc -a 192.168.1.145 -l apc -p apc -n 3 -v -o shutdown -r now`
- C. `fence_apc -a 192.168.1.145 -l apc -p apc -n 3 -v -o reboot`
- D. `apc_stonith -a 192.168.1.145 -l apc -p apc -n 3 -v -o reboot`

**Answer: C**

**QUESTION 79**

Which command is used to edit and display the running Linux Virtual Server (LVS) configuration? (Specify ONLY the command without any path or parameters.)

**Answer:** `ipvsadm`

**QUESTION 80**

In the command:

```
pcs constraint order VHost1IPv4 _____ HTTPD
```

Which missing word is required in order to ensure that the service HTTPD is always started after the service VHost1IPv4?

**Answer:** `then, THEN`

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