



304-200^{Q&As}

LPIC-3 Exam 304: Virtualization & High Availability, version 2.0

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QUESTION 1

What is the name and path of the configuration file for the O2CB cluster that coordinates the nodes using OCFS2 filesystems?

- A. /etc/ocfs2/cluster.conf
- B. /etc/ocfs/cluster.conf
- C. /etc/ocfs2.conf
- D. /etc/cluster.conf

Correct Answer: A

QUESTION 2

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

- A. and
- B. and
- C. and
- D. and
- E. and

Correct Answer: B

QUESTION 3

How can data in a computing instance in an IaaS cloud be permanently saved and accessed even after the recreation of the computing instance? (Choose TWO correct answers.)

- A. By saving the data to the memory of the computing instance using tmpfs.
- B. By saving the data anywhere in the computing instance's file system.
- C. By saving the data to /cloud/persistent/ which is provided in all common IaaS clouds.
- D. By saving the data to object stores provided by a separate service in the cloud.
- E. By saving the data on persistent block devices that must be explicitly connected to the computing instance.

Correct Answer: DE

QUESTION 4



When using the user mode network stack with qemu, TCP and UDP connections work fine but ping does not work. Why is this?

- A. The Qemu user mode network stack does not implement ICMP.
- B. The problem is caused by incorrect routing.
- C. The Qemu user mode network stack blocks all ICMP traffic.
- D. The Qemu user mode network stack requires explicit permission for ping to work.

Correct Answer: A

QUESTION 5

Which of the following types of guest systems does Xen support? (Choose TWO correct answers.)

- A. Paravirtualized guests (PV)
- B. Foreign architecture guests (FA)
- C. Fully virtualized guests (HVM)
- D. Container virtualized guests (CVM)
- E. Emulated guests (EMU)

Correct Answer: AC

QUESTION 6

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`

Correct Answer: A



QUESTION 7

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.

Correct Answer: D

QUESTION 8

What is the usual way to gain command line access to computing instances in an IaaS cloud?

- A. By providing a public SSH key to the cloud management system and using the matching private SSH key to log into the instances.
- B. Usually computing instances are accessed through a web frontend and do not allow command line access.
- C. By either telnet or SSH using the credentials of the cloud management system account with administrative privileges.
- D. By using a telnet session with the credentials set and publicized by the creator of the computing instance's system image.
- E. By using a VNC console which does not require authentication when it is invoked via the cloud management system.

Correct Answer: A

QUESTION 9

Which of the following is true regarding the CPU of a KVM virtual machine? (Choose TWO correct answers.)

- A. Each KVM virtual machine can only have one CPU with one core.
- B. KVM virtual machines support multiple virtual CPUs in order to run SMP systems.
- C. The CPU architecture of a KVM virtual machine is independent of the host system's architecture.
- D. For each KVM virtual machine one dedicated physical CPU core must be reserved.
- E. KVM uses the concept of virtual CPUs to map the virtual machines to physical CPUs.

Correct Answer: BE



QUESTION 10

Which of the following statements is true regarding VirtualBox?

- A. VirtualBox uses container-based virtualization and can only run virtual machines using the operating system of the host system.
- B. VirtualBox can only be run from a graphical desktop environment and not from the text console.
- C. VirtualBox provides special device drivers for several operating systems to enhance the virtual machine's performance.
- D. VirtualBox contains a hypervisor that runs independently from any other operating system on a bare metal host.
- E. VirtualBox is part of the vanilla Linux kernel and does not require any additional software installation on recent Linux distributions.

Correct Answer: C

QUESTION 11

Which of the following statements is true regarding the quorum in a two node Pacemaker cluster?

- A. Clusters with one or two nodes cannot have a quorum and require no quorum configuration.
- B. In a two node cluster, quorum can be determined and handled just as in a cluster with a higher number of nodes.
- C. In a two node cluster the quorum is always held by the node that first started the cluster software.
- D. The default quorum policy in a two node cluster must be set to ignore in order to configure a working cluster.

Correct Answer: D

QUESTION 12

Which command is used to perform all central management and configuration operations regarding OpenVZ containers? (Specify ONLY the command without any path or parameters.)

- A. vzctl -or- virsh

Correct Answer: A

QUESTION 13

How can the state of the backing storage disks of a DRBD device be checked? (Choose TWO correct answers.)

- A. cat /proc/drdb/status



- B. cat /proc/drdb
- C. drbdadm dstate all
- D. drbdadm diskstatus all
- E. drbdadm state --disk all

Correct Answer: BC

QUESTION 14

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

Correct Answer: D

QUESTION 15

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.

Correct Answer: A

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