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**LPI Level 3 Exam (LPI 304: Virtualization
and High Availability)**

Version 3.1

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QUESTION NO: 1

Which one of the following statements is true about the live migration feature of Xen?

- A. It requires that the source and destination hosts have access, with same rights, to the device that exports the virtual machine file system.
- B. It is used to migrate the file system of virtual machines between two hosts on the same network segment, ensuring data integrity during the migration process.
- C. It is recommended that the virtual machines be restarted after migration to ensure that network settings will be updated.
- D. It requires that the virtual machines are turned off to ensure that data stored in the RAM of the virtual machine will not be lost during the migration.
- E. It is used to convert physical servers into virtual machines without having to stop the physical servers.

Answer: A

QUESTION NO: 2

Using Linux Virtual Server (LVS) provides which of the following features? (Select TWO correct answers)

- A. Balancing load across real servers
- B. Taking over for fenced nodes
- C. Stopping services on other nodes when one node has a stopped service
- D. Checking and maintaining the integrity of services on real servers
- E. Starting and stopping virtual machines as needed

Answer: A,D

QUESTION NO: 3

What actions are permitted by a hypervisor? (Select THREE correct answers)

- A. A hypervisor may install a Guest OS.
- B. A hypervisor may perform privileged tasks on behalf of the Guest OS.
- C. A hypervisor may shape traffic on the bridged network devices for the Guest OS.
- D. A hypervisor may directly manipulate memory.
- E. A hypervisor may execute privileged CPU instructions.

Answer: B,D,E

QUESTION NO:4

DRBD is equivalent to a networked version of what RAID level?

- A. 0
- B. 1
- C. 2
- D. 5

Answer: B

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QUESTION NO:5

Which of the following are common uses of virtualization? (Select TWO correct answers)

- A. Operating System virtualization
- B. User virtualization
- C. Identification virtualization
- D. Authentication virtualization
- E. Storage virtualization

Answer: A,E,

QUESTION NO: 6

Which option is missing in the command below to perform a Xen migration of a domain without pausing the virtual machine? (Please specify only the option in short or long form)

`xm migrate vm1 _____ 192.168.1.1` Your Response

Answer: -l --live | live

QUESTION NO: 7

Which of the following statements are true when comparing full virtualization and paravirtualization in Xen? (Select THREE correct answers)

- A. Paravirtualization demands changes to operating systems designed to be installed directly on the hardware when using those operating systems as guests.
- B. It is possible to use, without changes, operating systems designed to be installed directly on the hardware when using it as guest in full virtualization.
- C. The number of virtual CPUs can be configured only in the full virtualization mode.
- D. Paravirtualization depends on special CPU features like IntelVT or AMDV.
- E. The virtual network resources are available for both types of virtualization.

Answer: A,B,E,

QUESTION NO: 8

Why does this virtual machine NOT boot?

```
kvm drive file=sd  
a.img,if=scsi m 128
```

- A. KVM cannot be started on the command line.
- B. The boot=on parameter is missing in the drive definition.
- C. KVM does not use the drive option; it uses hda instead.
- D. It is missing a cdrom

Answer: B

QUESTION NO: 9

How many virtual CPUs can KVM support in SMP guests?

- A. 32
- B. 8
- C. 2
- D. 16
- E. 4

Answer: D

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QUESTION NO: 10

Which one of the following is NOT a required component for running an OCFS2 file system resource in a Pacemaker environment?

- A. A clone resource for the OCFS2 file system
- B. quorum
- C. dlm
- D. clvm
- E. o2cb

Answer: D

QUESTION NO: 11

Which one of the following statements about STONITH is NOT true?

- A. You can use hardware devices such as HP ILO or Dell DRAC management boards for STONITH.
- B. Resources will migrate only after a STONITH operation has been issued successfully.
- C. It is recommended to use STONITH to increase the integrity of the cluster.
- D. Null STONITH is a good solution if you have guaranteed the integrity of the file systems used in your cluster in another way.
- E. When setting up SSHSTONITH, you should use a dedicated communications link for the STONITH traffic in the cluster.

Answer: E

QUESTION NO: 12

In order to have all requests matching the ACL `acl_static_content` directed to the servers defined in `server_pool`, which HAProxy directive is required in the following declaration? (Specify ONLY the missing directive)

_____ `server_pool` if `acl_static_content`

Answer: use_backend

QUESTION NO: 13

Which of the following are Pacemaker components? (Select TWO correct answers)

- A. `ccmd`
- B. `crmd`
- C. `heartbeat`
- D. `pengine`
- E. `keepalived`

Answer: B,D

QUESTION NO: 14

Which of the following are the primary components to Conga? (Select TWO correct answers)

- A. `luci`
- B. `ipvsadm`
- C. `cman`
- D. `fenced`
- E. `ricci`