

**Exam : LPI 117-304**

**Title : LPI Level 3 Exam 304**

**Version : Demo**

1. You have created a configuration file named `/etc/xen/debian.cfg` for a virtual machine. The virtual machine starts correctly on the command line, However, the virtual machine is not starting automatically when the server is powered on or rebooted. What can be done to start the virtual machine automatically?

- A. It is necessary to add `xendomains_auto = yes` to the virtual machine configuration file.
- B. It is necessary to configure the `xend` daemon to start automatically when `Domain0` starts.
- C. It is necessary to run the command `xm autostart debian.cfg`.
- D. It is necessary to add a symbolic link to the configuration file in `/etc/xen/auto` directory.
- E. It is not possible to use Xen and its tools to start virtual machines automatically.

**Answer: D**

2. Which one of the following options represent a valid declaration of a backend server with HAProxy?

- A. `host server_x 10.1.0.1:80 cookie server_x`
- B. `backend server_x 10.1.0.1:80`
- C. `server server_x 10.1.0.1:80 check`
- D. `pool server_x 10.1.0.1:80`

**Answer: C**

3. 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**

4. Which of the following statements are true about hardware virtualization? (Select THREE correct answers)

- A. Hardware virtualization can run an unmodified Guest OS.
- B. Hardware virtualization requires specially configured drivers for virtualized hardware.

- C. Hardware virtualization does not use CPU emulation.
- D. Hardware virtualization can take advantage of Intel VT and AMDV technologies.
- E. Hardware virtualization is also referred to as containerbased virtualization.

**Answer:** ACD

5. What is the effect of running the `virsh vcpupin CLUSNODE2 4,2` command?

- A. It sets the affinity of virtual CPU 4 of virtual machine CLUSNODE2 to physical processor 2.
- B. It reduces the number of virtual CPUs in CLUSNODE2 from 4 to 2.
- C. It increases the number of virtual CPUs in CLUSNODE2 from 2 to 4.
- D. It sets the affinity for all virtual CPUs of virtual machine CLUSNODE2 to the physical processors 2 and 4.

**Answer:** A

6. What is the main technical advantage that will be available on a server after installing virtualization technologies such as Xen or KVM?

- A. The execution time of processes which use the CPU intensively will be reduced.
- B. The computing power of the server will be increased.
- C. The number of running kernel instances will be limited to one.
- D. It will be possible to share physical resources between insulated execution environments.
- E. It will be possible to create virtual networks.

**Answer:** D

7. A user tries to install a Windows virtual machine, but this doesn't work. The same user has just successfully installed a Linuxbased virtual host. What is one possible reason why Windows cannot be installed?

- A. Virtualization support is not available in the CPU.
- B. The `xend` process is not loaded.
- C. The Xen kernel is not loaded.
- D. The NTFS file system is required in order to install Windows as a virtual machine.
- E. The `xendomain` process is not loaded.

**Answer:** A

8. An administrator needs to shutdown a Xen virtual machine immediately, otherwise, the virtual machine risks corrupting the file system. Which of the following methods could be used for an immediate shutdown?

- A. Use `xm shutdown <vmname> force`
- B. Use `xm destroy <vmname>`
- C. Use `xm poweroff <vmname>`
- D. Shut down the `xend` process
- E. Use `xm stop <vmname>`

**Answer: B**

9. An administrator wants to be able to do a live migration of a Xen virtual machine. Which of the following statements are true? (Select TWO correct answers)

- A. The virtual machines need to have the storage backend to the virtual disk files available on shared storage.
- B. Live migration is only supported in SAN environments.
- C. Live migration needs to be enabled in the configuration file of the virtual machine.
- D. Nothing needs to be done, live migration is supported by default.
- E. The Xen daemon's configuration file needs to be modified to make sure that live migration to this host is allowed.

**Answer: AE**

10. Which command should be used to make a backup of the current state and configuration of a Pacemaker cluster?

- A. `cibadmin Q > backup.xml`
- B. `crm_mon vv > backup.xml`
- C. `cibadmin V > backup.xml`
- D. `crm_backup`
- E. `cibadmin E force > backup.xml`

**Answer: A**

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**

12. An administrator wants to create a resource that can be ported to Red Hat Cluster Suite from a Pacemaker environment. Which resource type should be created?

- A. An OCF resource
- B. A clone
- C. A primitive
- D. An LSB resource
- E. A RHC resource

**Answer: A**

13. Which of the following statements about OpenVZ is NOT true?

- A. OpenVZ is developed for server virtualization.
- B. OpenVZ does not use a hypervisor.
- C. OpenVZ is very fast because virtual machines share a common base environment.
- D. OpenVZ supports virtualization of Windows as well as Linux.
- E. In OpenVZ a virtual machine is referred to as a container.

**Answer: D**

14. Which file in /proc should an administrator check to determine if full virtualization is supported on a system? (Provide only the file name, with no path information)

**Answer: /proc/cpuinfo   cpuinfo**

15. 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:** ABE