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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**

**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 l 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

**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

**Answer:** A,E

**QUESTION NO: 15**

What is the name of the main configuration file for the Xen Daemon, xend? (Please enter the file name without any path information).

Your Response

**Answer:** /etc/xen/xend-config.sxp xend-config.sxp

**QUESTION NO: 16**

In keepalived, what keyword starts the configuration section for one of the failover servers?

- A. lvs\_server
- B. virtual\_server
- C. vrrp\_instance
- D. vrrp\_sync\_group

**Answer:** B

**QUESTION NO: 17**

Which of the the following cluster infrastructure services are provided by heartbeat (versions 3 and post 2.1)? (Specify TWO correct answers)

- A. membership
- B. communication
- C. advanced resource management
- D. STONITH
- E. service migration

**Answer:** A,B

**QUESTION NO: 18**

A configuration file for a Xen virtual machine was created in the directory /etc/xen with filename slack.cfg. What is the command to start the virtual machine defined in this configuration file including displaying its console on screen?

- A. xm start slack
- B. xm create slack.cfg showconsole
- C. xm create slack.cfg
- D. xm start slack.cfg c
- E. xm create slack.cfg c

**Answer:** E

**QUESTION NO: 19**

Which configuration setting ultimately determines which server will be the MASTER with keep alived?

- A. advert\_int
- B. state
- C. type
- D. priority

**Answer:** D

**QUESTION NO: 20**

Which function is not supported in a GFS2 file system?

- A. repair
- B. grow
- C. shrink
- D. withdraw

**Answer: C**

**QUESTION NO: 21**

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.

**Answer: A**

**QUESTION NO: 22**

When using Xen, each VM will have a configuration file matching the name of the VM. Where are these configuration files stored?

- A. Each configuration file is stored with the VM disk files.
- B. In the directory /etc/xen
- C. On a LDAP, NIS or DHCP server
- D. In the directory /var/lib/xen

**Answer: B**

**QUESTION NO: 23**

In order to specify that a Xen virtual machine should start at boot time, under which directory must the VM's configuration file (or a link to it) be placed? (Please specify the directory name with or without the full default path) Your Response

**Answer: /etc/xen/auto auto**

**QUESTION NO: 24**

With HAProxy, which one of the following ACLs can match requests made to the domain example.org?

- A. `acl acl_example hdr_sub(Host) example.org`
- B. `acl acl_example url_domain example.org`
- C. `acl acl_example hdr_sub(Domain) example.org`
- D. `acl acl_example url_host example.org`

**Answer: A**

**QUESTION NO: 25**

Why is quorum used in a Red Hat Cluster Suite installation?

- A. To keep track of membership among nodes
- B. To prevent splitbrain conditions

- C. To establish communication protocols
- D. To detect configuration conflicts

**Answer: B**

**QUESTION NO: 26**

Which one of the following should NOT be used as a lowlevel device for DRBD?

- A. A LVM logical volume
- B. A physical hard disk
- C. A EVMS volume
- D. A loop device

**Answer: D**

**QUESTION NO: 27**

In heartbeat (versions 3 and post 2.1), what should the crm directive be set to?

- A. on
- B. no
- C. respawn
- D. pacemaker
- E. off

**Answer: C**

**QUESTION NO: 28**

What action does the virsh save command perform?

- A. It stops a VM and saves the data from memory to a file.
- B. It saves the a running domain configuration to file.
- C. It saves a copy of a running VM.
- D. It rescues a VM from being fenced.

**Answer: A**

**QUESTION NO: 29**

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**

**QUESTION NO: 30**

Which memory management subsystem does KVM use?

- A. QEMM
- B. Xen's memory management module