LPI

Exam 304-200

LPI Level 3 Exam 304

Version: 7.0

[Total Questions: 120]

Topic break down

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Topic 1, Virtualization

Question No : 1 - (Topic 1)

When used with KVM, which of the following block device image formats support snapshots?

A. qcow
B. dmg
C. qed
D. qcow2
E. raw

Answer: D

Question No : 2 - (Topic 1)

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.

Answer: C

Question No : 3 - (Topic 1)

When migrating a physical machine to a full virtualized machine, which of the following properties should be expected to change from the perspective of the guest operating system? (Choose TWO correct answers.)

A. The user accounts within the guest operating system.
B. The properties of the CPU and other hardware devices.
C. The MAC address of the network interfaces.
D. The version of the guest operating system.
E. The software and applications installed on the guest system.

Answer: B,C

Question No : 4 - (Topic 1)

Which of the following statementsaretrue regarding Xen domains? (Choose TWO correct answers.)

A. Fully virtualized and paravirtualized domains are managed using the same tools and commands.
B. Xen domains of all types require virtualization extensions in the host system's CPU.
C. All fully virtualized domains are called 'Dom0' while all paravirtualized domains are called 'DomU'.
D. Both paravirtualized and fully virtualized domains may run on the same host system.
E. Paravirtualized domainsare significantly slower than fully virtualized domains.

Answer: A,D

Question No : 5 - (Topic 1)

Which of the following statements describes the concept behind paravirtualization?

A. Guest operating systems are modified to actively cooperate with the hypervisor in order to ease virtualization costs and gain better performance.
B. Instead of running full virtual machines, containers are used to separate distinct parts of one commonly shared operating system that appear as a virtual machine.
C. To avoid the need for virtualization, special security measures are taken to allow different applications to coexist on one physical machine.
D. Each operating system is trusted to use only those resources assigned to it, thereby eliminating the need of an additional virtualization layer.

Answer: A

CERTKILL

Question No : 6 - (Topic 1)

Which of the following technologies is the most important component of IaaS clouds?

A. Database replication
B. DNS delegation
C. Emulation
D. Mandatory Access Control
E. Virtualization

Answer: E

Question No : 7 CORRECT TEXT - (Topic 1)

Which command was used in Xen 3.x as a predecessor of the xl command? (Specify ONLY the command without any path or parameters.)

Answer: xm

Question No : 8 - (Topic 1)

Which of the following are valid KVM parameters? (Choose THREE correct answers.)

A. -drive file=iscsi://user%password@fileserver/iqn.2001-04.com.example/1
B. -drive file=rsync://user%password@fileserver:/tmp/file.iso,media=cdrom,readonly
C. -drive file=ssh://user@host/tmp/file.img
D. -drive file=imap://user:password@mailserver:/INBOX/Wufnc6MjYp@mailgate
E. -drive file=http://user:password@fileserver/pub/linux.iso,media=cdrom,readonly

Answer: A,C,E

Question No : 9 - (Topic 1)

Which of the following commands provides a detailed list of all image files contained in the libvirt storage pool vol1?

A. virsh list --volumes --pool vol1 --details
B. virsh vol-details vol1
C. virsh --show-pool vol1 --details
D. virsh vol-list vol1 --details
E. virsh volumes --source vol1–details

Answer: D

Question No : 10 - (Topic 1)

Which of the following directives is used in the configuration file of a Xen guest domain in order to define network interfaces?

A. vif
B. eth
C. vnet
D. vbr
E. net

Answer: A

Question No : 11 - (Topic 1)

Which of the following statements are true regarding hardware based virtualization? (Choose TWO correct answers.)

A. Hardware based virtualization requires special support in the host system's hardware which is present in all recent x86-based computers.
B. Hardware based virtualization implements a whole machine in software and therefore can run virtual machines of a given hardware platform on an arbitrary host system.
C. Hardware based virtualization relies on the host system's processor to call the hypervisor when critical instructions are executed by a virtual machine.
D. Hardware based virtualization is not available on x86-based CPU architectures and requires special virtualization host hardware.

Answer: A,C

Question No : 12 CORRECT TEXT - (Topic 1)

In order to determine if a virtualization host offers Intel VT-x support, which CPU flag must be searched for in the file /proc/cpuinfo? (Specify the name of the CPU flag as it is mentioned in the given file only without any additional information.)

Answer: vmx, VMX

Question No : 13 - (Topic 1)

How can data be shared between several virtual machines running on the same Linux-based host system?

A. By mounting other VM's file systems from /dev/virt-disks/remote/.
B. By using a network file system or file transfer protocol.
C. By default, Linux-based virtualization products provide full access to the host system to all virtual machines.
D. By setting up a ramdisk in one virtual machine and mounting it using its UUID in the other VMs.
E. By attaching the same virtual hard disk to all virtual machines and activating EXT4 sharing extensions on it.

Answer: B

Question No : 14 - (Topic 1)

Which of the following commands boots a KVM virtual machine using Debian GNU/Linux?

A. qemu -create -drive file=debian.img -cdrom debian.iso -m 1024 -boot d
B. qemu-kvm -drive file=debian.img -cdrom debian.iso -m 1024 -boot d
C. kvm -create -drive file=debian.img -cdrom debian.iso -m 1024 -boot d
D. kvm -qemu -drive file=debian.img -cdrom debian.iso -m 1024 -boot d

Answer: B

Question No : 15 - (Topic 1)

Which of the following restrictions is true when using KVM with the User Network?

A. Virtual Machines must use a SOCKS proxy to connect to the internet.

B. Virtual Machines can communicate with the host system and with other virtual machines using User Network.

C. Virtual Machines can only communicate with other virtual machines but not with the host system.

D. Virtual Machinescannotuse ICMP.

E. Virtual Machines are restricted to only use IPv6 and not IPv4.

Answer: D

Question No : 16 - (Topic 1)

Which of the following tasksare partsof a hypervisor's responsibility? (Choose TWO correct answers.)

A. Create filesystems during the installation of new VM guest operating systems.

B. Provide host-wide unique PIDs to the processes running inside the VMs in order to ease interprocess communication between virtual machines.

C. Map the resources of virtual machines to the resources of the host system.

D. Ensure isolation and eliminate any interference between virtual machines.

E. Manage authentication to network services running inside a virtual machine.

Answer: C,D

Question No : 17 - (Topic 1)

Which of the following tasks is performed by Vagrant?

A. It migrates virtual machines automatically between host systemsto distribute the load of all virtual machines equally to all hosts involved.

B. It automates the installation of a virtual machine according to a configuration file describing the desired VM.

C. It monitors the functionality of a virtual machine and restarts the VM in case of failure.

D. It is a hypervisor optimized for the usage in embedded systems based on the ARM CPU architecture.

E. It is a programming interface used to create reports from collected performance and resource usage data of a libvirt-based virtualization infrastructure.

Answer: B