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Lpi 305-300 (LPIC-3 Exam 305: Virtualization and Containerization) Certification Exam is designed to test the knowledge and skills of IT professionals in virtualization and containerization technologies. LPIC-3 Exam 305: Virtualization and Containerization

certification is intended for individuals who have experience in these areas and are looking to further their expertise in the field. 305-300 Exam covers a range of topics related to virtualization and containerization, including installation, configuration, management, and troubleshooting.

## Lpi LPIC-3 Exam 305: Virtualization and Containerization Sample Questions (Q72-Q77):

### NEW QUESTION # 72

Which of the following components are essential in Docker architecture? (Select all that apply)

- A. Docker Client
- B. Docker Registry
- C. Docker Compose
- D. Docker Daemon

**Answer: A,B,D**

### NEW QUESTION # 73

Which of the following statements are true about sparse images in the context of virtual machine storage? (Choose two.)

- A. Sparse images are automatically shrunk when files within the image are deleted.
- B. Sparse images allocate backend storage at the first usage of a block.
- C. Sparse images may consume an amount of space different from their nominal size.
- D. Sparse images can only be used in conjunction with paravirtualization.
- E. Sparse images are automatically resized when their maximum capacity is about to be exceeded.

**Answer: B,C**

Explanation:

Sparse images are a type of virtual disk images that grow in size as data is written to them, but do not shrink when data is deleted from them. Sparse images may consume an amount of space different from their nominal size, which is the maximum size that the image can grow to. For example, a sparse image with a nominal size of 100 GB may only take up 20 GB of physical storage if only 20 GB of data is written to it. Sparse images allocate backend storage at the first usage of a block, which means that the physical storage is only used when the virtual machine actually writes data to a block. This can save storage space and improve performance, as the image does not need to be pre-allocated or zeroed out.

Sparse images are not automatically shrunk when files within the image are deleted, because the virtual machine does not inform the host system about the freed blocks. To reclaim the unused space, a special tool such as `virt-sparsify`<sup>1</sup> or `qemu-img`<sup>2</sup> must be used to compact the image. Sparse images can be used with both full virtualization and paravirtualization, as the type of virtualization does not affect the format of the disk image. Sparse images are not automatically resized when their maximum capacity is about to be exceeded, because this would require changing the partition table and the filesystem of the image, which is not a trivial task. To resize a sparse image, a tool such as `virt-resize`<sup>3</sup> or `qemu-img`<sup>2</sup> must be used to increase the nominal size and the filesystem size of the image. References: 1 (search for "virt-sparsify"), 2 (search for "qemu- img"), 3 (search for "virt-resize").

### NEW QUESTION # 74

Which of the following commands boots a QEMU virtual machine using hardware virtualization extensions?

- A. `qemu -accel kvm -drive file=debian.img -cdrom debian.iso -m 1024 -boot d`
- B. `qemu-hw -create -drive file=debian.img -cdrom debian.iso -m 1024 -boot d`
- C. `vm -kvm -drive file=debian.img -cdrom debian.iso -m 1024 -boot d`
- D. `qvm start -vnx -drive file=debian.img -cdrom debian.iso -m 1024 -boot d`
- E. `qvirt -create -drive file=debian.img -cdrom debian.iso -m 1024 -boot d -driver hvm`

**Answer: A**

Explanation:

Explanation

The correct command to boot a QEMU virtual machine using hardware virtualization extensions is `qemu -accel kvm -drive file=debian.img -cdrom debian.iso -m 1024 -boot d`. This command uses the `-accel` option to specify the

hardware accelerator to use, which in this case is kvm. KVM is a full virtualization solution for Linux on x86 hardware containing virtualization extensions (Intel VT or AMD-V)<sup>1</sup>. The -drive option specifies the disk image file to use, which in this case is debian.img. The -cdrom option specifies the ISO image file to use as a CD-ROM, which in this case is debian.iso. The -m option specifies the amount of memory to allocate to the virtual machine, which in this case is 1024 MB. The -boot option specifies the boot order, which in this case is d, meaning to boot from the CD-ROM first. References:  
[https://access.redhat.com/documentation/en-us/red\\_hat\\_enterprise\\_linux/7/html/virtualization\\_deployment\\_and\\_configuration\\_guide/sectors1/chapter10.html](https://access.redhat.com/documentation/en-us/red_hat_enterprise_linux/7/html/virtualization_deployment_and_configuration_guide/sectors1/chapter10.html)  
<https://fedoraproject.org/wiki/Virtualization>

### NEW QUESTION # 75

Which of the following statements are true about container-based virtualization? (Choose two.)

- A. Linux does not support container-based virtualization because of missing kernel APIs.
- B. Each container runs its own operating system kernel.
- C. Different containers may use different distributions of the same operating system.
- D. All containers run within the operating system kernel of the host system.
- E. Container-based virtualization relies on hardware support from the host system's CPU.

**Answer: C,D**

Explanation:

Container-based virtualization is a method of operating system-level virtualization that allows multiple isolated user spaces (containers) to run on the same host system<sup>1</sup>. Each container shares the same operating system kernel as the host, but has its own file system, libraries, and processes<sup>2</sup>. Therefore, the statements A and C are false, as containers do not run their own kernels or rely on hardware support from the CPU. The statement E is also false, as Linux does support container-based virtualization through various technologies, such as cgroups, namespaces, LXC, Docker, etc<sup>2</sup>. The statement B is true, as different containers may use different distributions of the same operating system, such as Debian, Ubuntu, Fedora, etc., as long as they are compatible with the host kernel<sup>3</sup>. The statement D is also true, as all containers run within the operating system kernel of the host system, which provides isolation and resource management for them<sup>2</sup>. References:

\* 1: Containerization (computing) - Wikipedia.

\* 2: What are containers? | Google Cloud.

\* 3: What is Container-Based Virtualization? - StackHowTo.

### NEW QUESTION # 76

What is QEMU primarily used for?

- A. Monitoring virtualized environments
- B. Creating virtual disk images
- C. Managing virtual machines
- D. Emulating hardware to run virtual machines

**Answer: D**

Explanation:

QEMU is primarily used for hardware emulation, enabling virtual machines to run by emulating CPU, memory, storage, and peripheral devices. Virtualization documentation describes QEMU as a generic and open-source machine emulator and virtualizer. When used alone, QEMU can fully emulate hardware, allowing operating systems compiled for one architecture to run on another. In modern Linux virtualization environments, QEMU is most commonly paired with KVM (Kernel-based Virtual Machine). In this configuration, KVM provides CPU virtualization using hardware extensions, while QEMU supplies device emulation and virtual hardware components. This division of responsibility allows near-native performance while maintaining flexibility. Although QEMU includes utilities such as qemu-img for disk image creation, that is not its primary purpose. VM management is handled by tools like libvirt, virsh, and virt-manager, and monitoring is performed by separate observability tools. Virtualization notes consistently emphasize that QEMU's core function is hardware emulation, making option D the correct answer.

### NEW QUESTION # 77

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