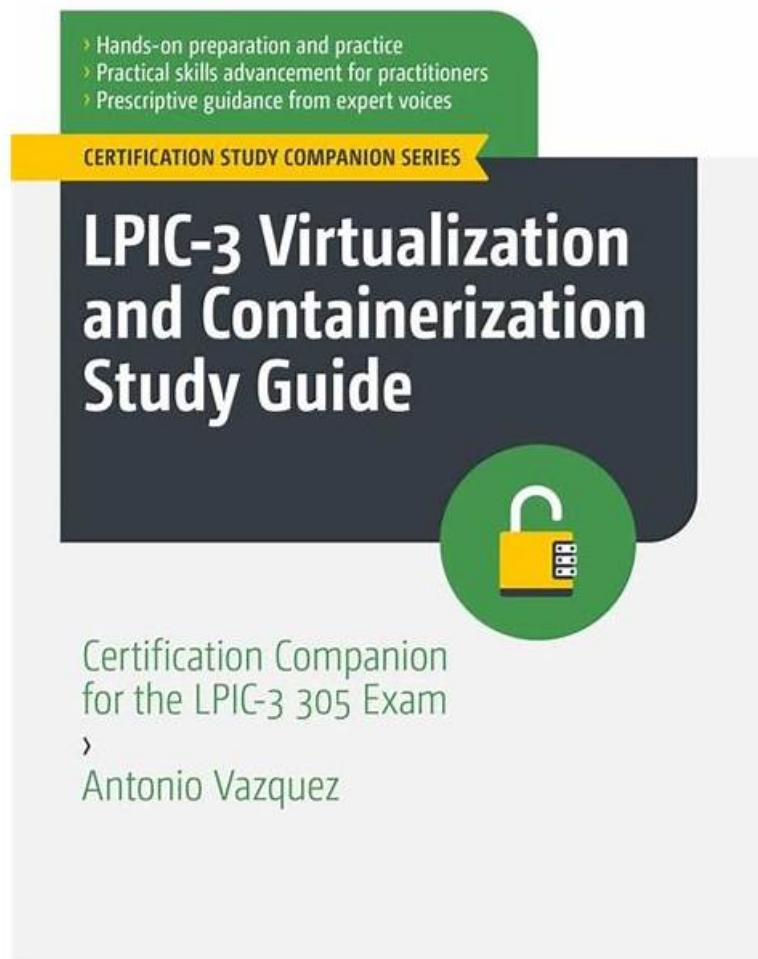


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Lpi LPIC-3 Exam 305: Virtualization and Containerization Sample Questions (Q113-Q118):

NEW QUESTION # 113

What is the purpose of capabilities in the context of container virtualization?

- A. Allow regular users to start containers with elevated permissions.
- B. Prevent processes from performing actions which might infringe the container.
- C. Restrict the disk space a container can consume.
- D. Enable memory deduplication to cache files which exist in multiple containers.
- E. Map potentially dangerous system calls to an emulation layer provided by the container virtualization.

Answer: B

Explanation:

Explanation

Capabilities are a way of implementing fine-grained access control in Linux. They are a set of flags that define the privileges that a process can have. By default, a process inherits the capabilities of its parent, but some capabilities can be dropped or added by the process itself or by the kernel. In the context of container virtualization, capabilities are used to prevent processes from performing actions that might infringe the container, such as accessing the host's devices, mounting filesystems, changing the system time, or killing other processes. Capabilities allow containers to run with a reduced set of privileges, enhancing the security and isolation of the container environment. For example, Docker uses a default set of capabilities that are granted to the processes running inside a container, and allows users to add or drop capabilities as needed¹².

References:

* Capabilities | Docker Documentation¹

* Linux Capabilities: Making Them Work in Containers²

NEW QUESTION # 114

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

- A. By attaching the same virtual hard disk to all virtual machines and activating EXT4 sharing extensions on it.
- B. By writing data to the file system since all virtual machines on the same host system use the same file system.
- C. By setting up a ramdisk in one virtual machine and mounting it using its UUID in the other VMs.
- D. By using a network file system or file transfer protocol.
- E. By mounting other virtual machines' file systems from /dev/virt-disks/remote/.

Answer: D

Explanation:

Explanation

The correct way to share data between several virtual machines running on the same Linux-based host system is by using a network file system or file transfer protocol. A network file system (NFS) is a distributed file system protocol that allows a user on a client computer to access files over a network in a manner similar to how local storage is accessed¹. A file transfer protocol (FTP) is a standard network protocol used for the transfer of computer files between a client and server on a computer network². Both methods allow data to be shared between virtual machines regardless of their underlying file systems or virtualization technologies. The other options are incorrect because they either do not work or are not feasible. Option A is wrong because each virtual machine has its own file system that is not directly accessible by other virtual machines. Option B is wrong because there is no such device as /dev/virt-disks/remote/ that can be used to mount other virtual machines' file systems. Option C is wrong because a ramdisk is a volatile storage device that is not suitable for sharing data between virtual machines. Option E is wrong because attaching the same virtual hard disk to multiple virtual machines can cause data corruption and conflicts, and EXT4 does not have any sharing extensions that can prevent this. References: <https://kb.vmware.com/s/article/1012706>

<https://bing.com/search?q=data+sharing+between+virtual+machines>

NEW QUESTION # 115

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

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

Answer: A,B,D

Explanation:

Docker architecture consists of several core components that enable container creation and management.

According to Docker documentation, the Docker Client, Docker Daemon, and Docker Registry are essential components.

The Docker Client is the user-facing command-line interface that sends commands to the daemon. The Docker Daemon (dockerd) performs the heavy lifting, such as building images, running containers, and managing networks and storage. The Docker Registry stores container images, enabling image distribution and reuse.

Docker Compose is an optional orchestration tool used to define and run multi-container applications, but it is not an essential architectural component.

Therefore, the correct answers are A, C, and D.

NEW QUESTION # 116

Which of the following statements are true regarding IaaS computing instances? (Choose TWO correct answers.)

- A. Each user of an IaaS cloud has exactly one computing instance
- B. Creation of new instances can be automated by using scripts or APIs and service interfaces
- C. Instances may be created when needed and destroyed when they become obsolete
- D. The root file system of a computing instance is always persistent and can be accessed after the instance is destroyed
- E. Once created, computing instances are seldom deleted to ensure data accessibility

Answer: B,C

Explanation:

Infrastructure as a Service (IaaS) provides on-demand virtual computing resources that can be dynamically created and destroyed. According to cloud computing documentation, IaaS instances are designed to be ephemeral, allowing users to launch instances when needed and terminate them when no longer required. This makes statement A correct.

Additionally, IaaS platforms expose APIs and service interfaces that enable full automation of instance lifecycle management. Instances can be created, modified, and deleted programmatically using scripts, orchestration tools, or cloud SDKs, making statement B correct.

Statement C is incorrect because root disks are often ephemeral unless explicitly configured as persistent volumes. Statement D contradicts the elastic nature of IaaS, and statement E is false because users may have zero, one, or many instances.

Therefore, the correct answers are A and B.

NEW QUESTION # 117

What is QEMU primarily used for?

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

Answer: B

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 # 118

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