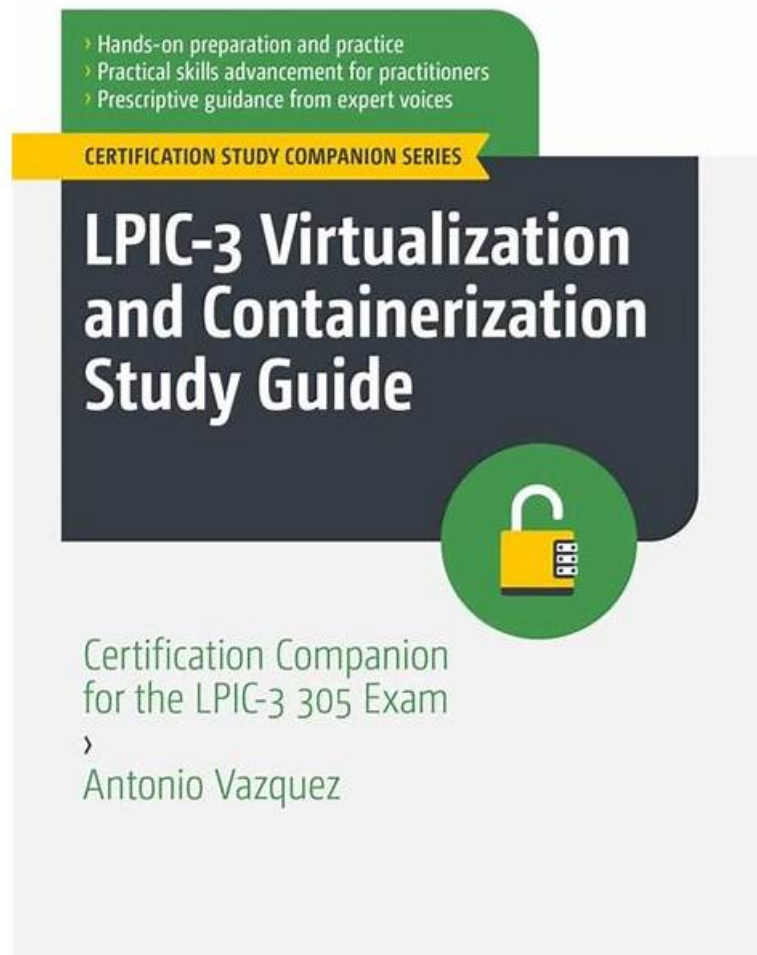


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Lpi LPIC-3 Exam 305: Virtualization and Containerization Sample Questions (Q32-Q37):

NEW QUESTION # 32

What happens when the following command is executed twice in succession?

```
docker run -tid -v data/data debian bash
```

- A. The original content of the container image data is available in both containers, although changes stay local within each container.
- B. Each container is equipped with its own independent data volume, available at /data/ in the respective container.
- C. The container resulting from the second invocation can only read the content of /data/ and cannot change it.
- D. The second command invocation fails with an error stating that the volume data is already associated with a running container.
- **E. Both containers share the contents of the data volume, have full permissions to alter its content and mutually see their respective changes.**

Answer: E

Explanation:

Explanation

The command `docker run -tid -v data/data debian bash` creates and runs a new container from the debian image, with an interactive terminal and a detached mode, and mounts a named volume data at /data in the container¹². If the volume data does not exist, it is created automatically³. If the command is executed twice in succession, two containers are created and run, each with its own terminal and process ID, but they share the same volume data. This means that both containers can access, modify, and see the contents of the data volume, and any changes made by one container are reflected in the other container. Therefore, the statement C is true and the correct answer. The statements A, B, D, and E are false and incorrect, as they do not describe the behavior of the

command or the volume correctly. References:

- * 1: docker run | Docker Docs.
- * 2: Docker run reference | Docker Docs - Docker Documentation.
- * 3: Use volumes | Docker Documentation.
- * [4]: How to Use Docker Run Command with Examples - phoenixNAP.

NEW QUESTION # 33

Which of the following commands executes a command in a running LXC container?

- A. lxc-run
- B. lxc-batch
- C. lxc-eval
- **D. lxc-attach**
- E. lxc-enter

Answer: D

Explanation:

The command lxc-attach is used to execute a command in a running LXC container. It allows the user to start a process inside the container and attach to its standard input, output, and error streams¹. For example, the command lxc-attach -n mycontainer -- ls -lh /home will list all the files and directories in the /home directory of the container named mycontainer¹. The other options are not valid LXC commands. The command lxc-batch does not exist. The command lxc-run is an alias for lxc-start, which is used to start a container, not to execute a command in it². The command lxc-enter is also an alias for lxc-attach, but it is deprecated and should not be used³. The command lxc-eval is also not a valid LXC command. References:

- * 1: Executing a command inside a running LXC - Unix & Linux Stack Exchange.
- * 2: lxc-start: start a container. - SysTutorials.
- * 3: lxc-attach: start a process inside a running container. - SysTutorials.

NEW QUESTION # 34

Which of the following statements are true regarding VirtualBox?

- A. It is available for Linux only and requires the source code of the currently running Linux kernel to be available.
- B. It only supports Linux as a guest operating system and cannot run Windows inside a virtual machine.
- **C. It provides both a graphical user interface and command line tools to administer virtual machines.**
- D. It is a hypervisor designed as a special kernel that is booted before the first regular operating system starts.
- E. It requires dedicated shared storage, as it cannot store virtual machine disk images locally on block devices of the virtualization host.

Answer: C

Explanation:

Explanation

VirtualBox is a hosted hypervisor, which means it runs as an application on top of an existing operating system, not as a special kernel that is booted before the first regular operating system starts¹. VirtualBox supports a large number of guest operating systems, including Windows, Linux, Solaris, OS/2, and OpenBSD¹. VirtualBox does not require dedicated shared storage, as it can store virtual machine disk images locally on block devices of the virtualization host, or on network shares, or on iSCSI targets¹. VirtualBox provides both a graphical user interface (GUI) and command line tools (VBoxManage) to administer virtual machines¹. VirtualBox is available for Windows, Linux, macOS, and Solaris hosts¹, and does not require the source code of the currently running Linux kernel to be available. References:

- * Oracle VM VirtualBox: Features Overview

NEW QUESTION # 35

In order to use the option dom0_mem to limit the amount of memory assigned to the Xen Domain-0, where must this option be specified?

- **A. In the bootloader configuration, when Xen is booted.**
- B. In any of Xen's global configuration files.

- C. In its .config file, when the Domain-0 kernel is built.
- D. In its Makefile, when Xen is built.
- E. In the configuration file /etc/xen/Domain-0.cfg, when Xen starts.

Answer: A

NEW QUESTION # 36

Which of the following are true regarding the CPU of a QEMU virtual machine? (Choose two.)

- **A. QEMU virtual machines support multiple virtual CPUs in order to run SMP systems.**
- B. For each QEMU virtual machine, one dedicated physical CPU core must be reserved.
- C. Each QEMU virtual machine can only have one CPU with one core.
- **D. The CPU architecture of a QEMU virtual machine is independent of the host system's architecture.**
- E. QEMU uses the concept of virtual CPUs to map the virtual machines to physical CPUs.

Answer: A,D

Explanation:

The CPU architecture of a QEMU virtual machine is independent of the host system's architecture. QEMU can emulate many CPU architectures, including x86, ARM, Alpha, and SPARC, regardless of the host system's architecture¹. This allows QEMU to run guest operating systems that are not compatible with the host system's hardware. Therefore, option A is correct. QEMU virtual machines support multiple virtual CPUs in order to run SMP systems. QEMU uses the concept of virtual CPUs (vCPUs) to map the virtual machines to physical CPUs. Each vCPU is a thread that runs on a physical CPU core. QEMU allows the user to specify the number of vCPUs and the CPU model for each virtual machine. QEMU can run SMP systems with multiple vCPUs, as well as single-processor systems with one vCPU². Therefore, option E is also correct. The other options are incorrect because they do not describe the CPU of a QEMU virtual machine. Option B is wrong because QEMU virtual machines can have more than one CPU with more than one core. Option C is wrong because QEMU does not require a dedicated physical CPU core for each virtual machine. QEMU can share the physical CPU cores among multiple virtual machines, depending on the load and the scheduling policy. Option D is wrong because QEMU does not use the term CPU, but vCPU, to refer to the virtual machines' processors.

References:

- * QEMU vs VirtualBox: What's the difference? - LinuxConfig.org
- * QEMU / KVM CPU model configuration - QEMU documentation
- * Introduction - QEMU documentation
- * Qemu/KVM Virtual Machines - Proxmox Virtual Environment

NEW QUESTION # 37

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