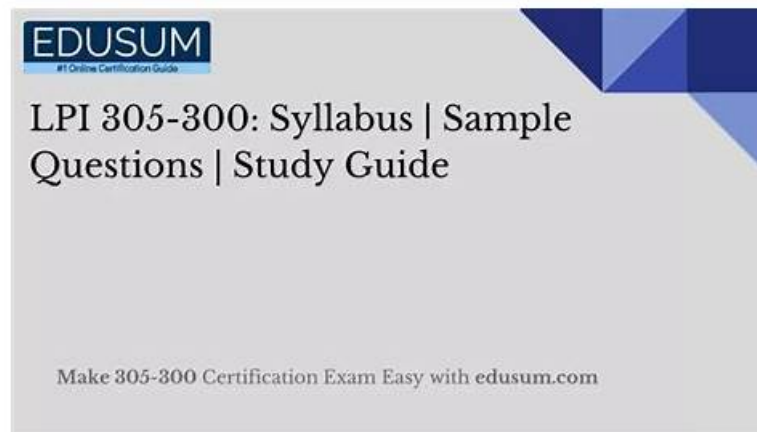


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## Lpi LPIC-3 Exam 305: Virtualization and Containerization Sample Questions (Q52-Q57):

### NEW QUESTION # 52

What is the purpose of a .dockerignore file?

- A. It specifies files that Docker does not submit to the Docker daemon when building a Docker image
- B. It specifies which parts of a Dockerfile should be ignored when building a Docker image.
- C. It exists in the root file system of containers that should ignore volumes and ports provided by Docker.
- D. It must be placed in the top level directory of volumes that Docker should never attach automatically to a container
- E. It lists files existing in a Docker image which should be excluded when building a derivative image.

**Answer: A**

### NEW QUESTION # 53

In an IaaS cloud, what is a common method for provisioning new computing instances with an operating system and software?

- A. Each new instance is a clone of another currently running instance that includes all the software, data and state of the original instance.
- B. Each new instance contains a minimal live system running from a virtual CD as the basis from which the administrator

deploys the target operating system.

- C. Each new instance is created based on an image file that contains the operating system as well as software and default configuration for a given purpose.
- D. Each new instance is connected via a VPN with the computer that started the provisioning and tries to PXE boot from that machine.
- E. Each new instance is connected to the installation media of a Linux distribution and provides access to the installer by logging in via SSH.

**Answer: C**

Explanation:

In an IaaS cloud, the most common method for provisioning new computing instances is to use an image file that contains a pre-installed operating system and software. This image file is also known as a machine image, a virtual appliance, or a template. The image file can be customized for a specific purpose, such as a web server, a database server, or a development environment. The image file can be stored in a repository or a library that is accessible by the cloud provider or the user. When a new instance is requested, the cloud provider copies the image file to a virtual disk and attaches it to the instance. The instance then boots from the virtual disk and runs the operating system and software from the image file. This method is faster and more efficient than installing the operating system and software from scratch for each new instance. It also ensures consistency and reliability across multiple instances that use the same image file. References:

\* LPI Virtualization and Containerization Exam Objectives, Topic 305.1: Virtualization Concepts and Theory, Objective: Describe the concept of machine images and templates

\* LPI Virtualization and Containerization Study Guide, Chapter 1: Virtualization Concepts and Theory, Section: Machine Images and Templates

\* LPI LPIC-3 305 Certification Sample Questions and Practice Exam, Question 10: In an IaaS cloud, what is a common method for provisioning new computing instances with an operating system and software?

#### NEW QUESTION # 54

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

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

**Answer: C,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 architecture<sup>1</sup>. 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 vCPU<sup>2</sup>. 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 # 55

What is the purpose of cloud-init?

- A. Assign an IaaS instance to a specific computing node within a cloud.

- B. Prepare the generic image of an IaaS instance to fit a specific instance's configuration.
- C. Orchestrate the creation and start of multiple related IaaS instances.
- D. Standardize the configuration of infrastructure services, such as load balancers or virtual firewalls in a cloud.
- E. Replace common Linux init systems, such as systemd or SysV init.

**Answer: B**

Explanation:

Cloud-init is a tool that processes configurations and runs through five stages during the initial boot of Linux VMs in a cloud. It allows users to customize a Linux VM as it boots for the first time, by applying user data to the instance. User data can include scripts, commands, packages, files, users, groups, SSH keys, and more.

Cloud-init can also interact with various cloud platforms and services, such as Azure, AWS, OpenStack, and others. The purpose of cloud-init is to prepare the generic image of an IaaS instance to fit a specific instance's configuration, such as hostname, network, security, and application settings. References:

- \* Cloud-init - The standard for customising cloud instances
- \* Understanding cloud-init - Azure Virtual Machines
- \* Tutorial - Customize a Linux VM with cloud-init in Azure - Azure Virtual Machines

## NEW QUESTION # 56

What is true about containerd?

- A. It is the initial process run at the start of any Docker container.
- B. It uses runc to start containers on a container host.
- C. It runs in each Docker container and provides DHCP client functionality
- D. It is a text file format defining the build process of containers.
- E. It requires the Docker engine and Docker CLI to be installed.

**Answer: B**

Explanation:

Containerd is an industry-standard container runtime that uses Runc (a low-level container runtime) by default, but can be configured to use others as well. Containerd manages the complete container lifecycle of its host system, from image transfer and storage to container execution and supervision<sup>1</sup>. It supports the standards established by the Open Container Initiative (OCI)<sup>1</sup>. Containerd does not require the Docker engine and Docker CLI to be installed, as it can be used independently or with other container platforms<sup>2</sup>.

Containerd is not a text file format, nor does it run in each Docker container or provide DHCP client functionality. Containerd is not the initial process run at the start of any Docker container, as that is the role of the container runtime, such as Runc<sup>3</sup>. References: 1 (search for "containerd"), 2 (search for "Containerd is an open source"), 3 (search for "It uses runc to start containers").

## NEW QUESTION # 57

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