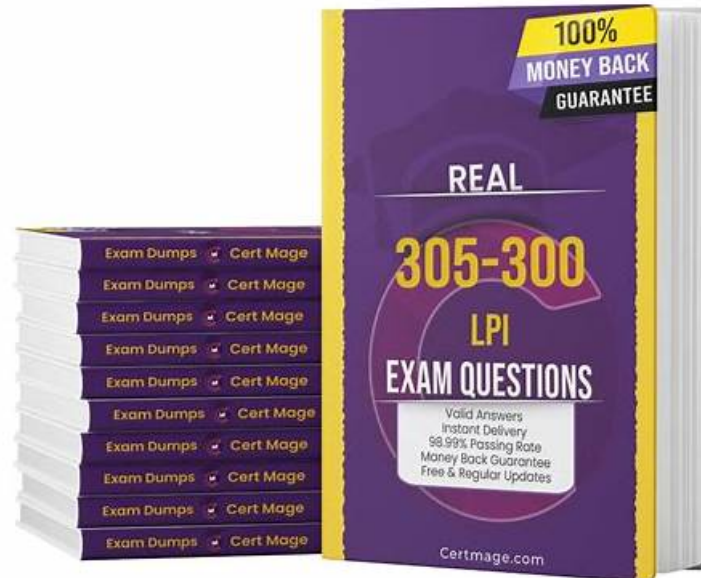


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Lpi LPIC-3 Exam 305: Virtualization and Containerization Sample Questions

(Q119-Q124):

NEW QUESTION # 119

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 # 120

If a `Dockerfile` contains the following lines:

```
WORKDIR /
```

```
RUN cd /tmp
```

```
RUN echo test > test
```

where is the file `test` located?

- A. test in the directory holding the `Dockerfile`.
- **B. `/test` within the container image.**
- C. `/tmp/test` within the container image.
- D. `/tmp/test` on the system running docker build.
- E. `/root/test` within the container image.

Answer: B

Explanation:

The `WORKDIR` instruction sets the working directory for any subsequent `RUN`, `CMD`, `ENTRYPOINT`, `COPY` and `ADD` instructions that follow it in the `Dockerfile`¹. The `RUN` instruction executes commands in a new layer on top of the current image and commits the results². The `RUN cd` command does not change the working directory for the next `RUN` instruction, because each `RUN` command runs in a new shell and a new environment³. Therefore, the file `test` is created in the root directory (`/`) of the container image, not in the `/tmp` directory. References:

* Dockerfile reference: `WORKDIR`

* Dockerfile reference: `RUN`

* difference between `RUN cd` and `WORKDIR` in Dockerfile

NEW QUESTION # 121

Which of the following resources can be limited by `libvirt` for a KVM domain? (Choose two.)

- A. Number of available files
- **B. Size of available memory**
- **C. Amount of CPU time**
- D. Number of running processes
- E. File systems allowed in the domain

Answer: B,C

Explanation:

Libvirt is a toolkit that provides a common API for managing different virtualization technologies, such as KVM, Xen, LXC, and others. Libvirt allows users to configure and control various aspects of a virtual machine (also called a domain), such as its CPU, memory, disk, network, and other resources. Among the resources that can be limited by libvirt for a KVM domain are:

* Amount of CPU time: Libvirt allows users to specify the number of virtual CPUs (vCPUs) that a domain can use, as well as the CPU mode, model, topology, and tuning parameters. Users can also set the CPU shares, quota, and period to control the relative or absolute amount of CPU time that a domain can consume. Additionally, users can pin vCPUs to physical CPUs or NUMA nodes to improve performance and isolation. These settings can be configured in the domain XML file under the <cpu> and <cpupin> elements¹².

* Size of available memory: Libvirt allows users to specify the amount of memory that a domain can use, as well as the memory backing, tuning, and NUMA node parameters. Users can also set the memory hard and soft limits, swap hard limit, and minimum guarantee to control the memory allocation and reclaim policies for a domain. These settings can be configured in the domain XML file under the <memory>, <memoryBacking>, and <memtune> elements¹³.

The other resources listed in the question are not directly limited by libvirt for a KVM domain. File systems allowed in the domain are determined by the disk and filesystem devices that are attached to the domain, which can be configured in the domain XML file under the <disk> and <filesystem> elements¹⁴. Number of running processes and number of available files are determined by the operating system and the file system of the domain, which are not controlled by libvirt.

:

libvirt: Domain XML format

CPU Allocation

Memory Allocation

Hard drives, floppy disks, CDROMs

NEW QUESTION # 122

What is the purpose of the command `vagrant init`?

- A. It executes a provisioning tool in a running box.
- B. It downloads a Vagrant box.
- C. It starts a Vagrant box.
- **D. It creates a Vagrant configuration file.**
- E. It installs Vagrant on a Linux host.

Answer: D

Explanation:

The command `vagrant init` is used to initialize the current directory to be a Vagrant environment by creating an initial Vagrantfile if one does not already exist¹. The Vagrantfile contains the configuration settings for the Vagrant box, such as the box name, box URL, network settings, synced folders, provisioners, etc. The command `vagrant init` does not execute any provisioning tool, start any box, install Vagrant on a Linux host, or download any box. Those actions are performed by other Vagrant commands, such as `vagrant provision`, `vagrant up`, `vagrant install`, and `vagrant box add`, respectively. References:

* 1: `vagrant init` - Command-Line Interface | Vagrant | HashiCorp Developer

NEW QUESTION # 123

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

Answer: A

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 # 124

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