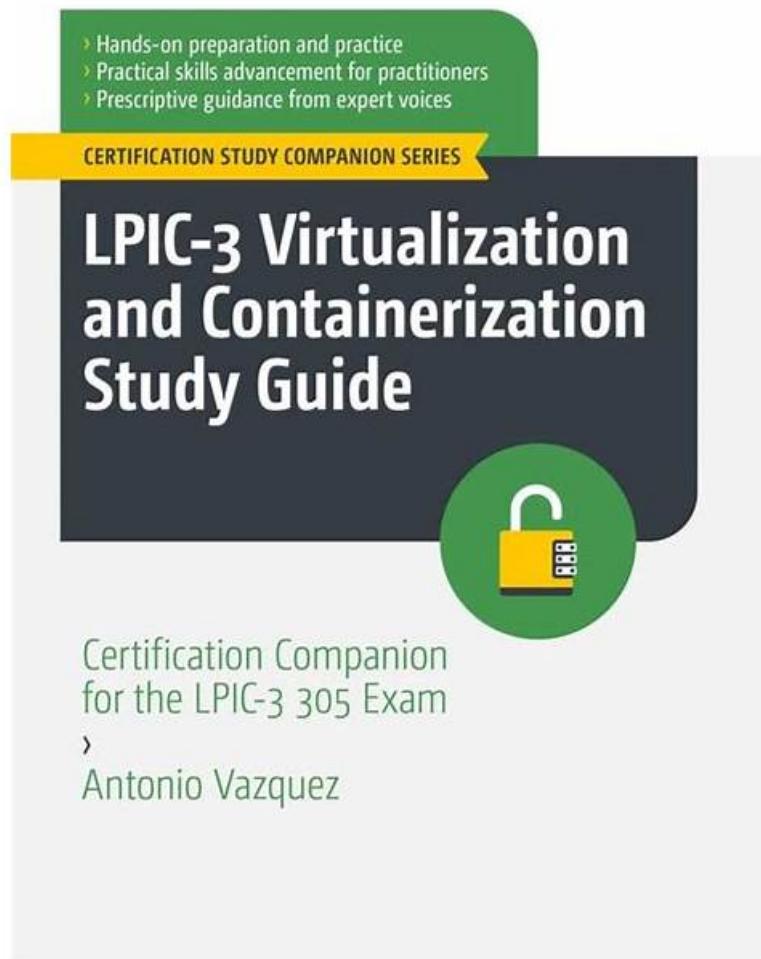


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Lpi LPIC-3 Exam 305: Virtualization and Containerization Sample Questions (Q40-Q45):

NEW QUESTION # 40

What is the purpose of a .dockerignore file?

- A. It must be placed in the top level directory of volumes that Docker should never attach automatically to a container
- 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 specifies files that Docker does not submit to the Docker daemon when building a Docker image
- E. It lists files existing in a Docker image which should be excluded when building a derivative image.

Answer: D

Explanation:

Explanation

The purpose of a .dockerignore file is to specify files that Docker does not submit to the Docker daemon when building a Docker image. A .dockerignore file is a text file that contains a list of files or directories that should be excluded from the build context, which is the set of files and folders that are available for use in a Dockerfile. By using a .dockerignore file, you can avoid sending files or directories that are large, contain sensitive information, or are irrelevant to the Docker image to the daemon, which can improve the efficiency and security of the build process. The other options are incorrect because they do not describe the function of a .dockerignore file. Option A is wrong because a .dockerignore file does not affect the files existing in a Docker image, but only the files sent to the daemon during the build. Option C is wrong because a .dockerignore file does not exist in the root file system of containers, but in the same directory as the Dockerfile. Option D is wrong because a .dockerignore file does not affect the volumes that Docker attaches to a container, but only the files included in the build context. Option E is wrong because a .dockerignore file does not affect the parts of a Dockerfile that are executed, but only the files available for use in a Dockerfile. References:

* What are .dockerignore files, and why you should use them?

* Dockerfile reference | Docker Docs

* How to use .dockerignore and its importance - Shisho Cloud

NEW QUESTION # 41

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

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

Answer: D

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 # 42

Which of the following values are valid in the type attribute of a<domain>element in a libvirt domain definition? (Choose two.)

- A. namespace
- B. proc
- C. cgroup
- D. kvm
- E. lxc

Answer: D,E

Explanation:

The type attribute of a <domain> element in a libvirt domain definition specifies the hypervisor used for running the domain. The allowed values are driver specific, but include "xen", "kvm", "hvf" (since 8.1.0 and QEMU 2.12), "qemu" and "lxc"¹. Therefore, the valid values among the options are C. kvm and E. lxc. KVM stands for Kernel-based Virtual Machine, which is a full virtualization solution for Linux on x86 hardware containing virtualization extensions (Intel VT or AMD-V)². LXC stands for Linux Containers, which is an operating system-level virtualization method for running multiple isolated Linux systems (containers) on a single control host³. The other options are not valid values for the type attribute, as they are either not hypervisors or not supported by libvirt.

References:<http://libvirt.org/formatdomain.html>

<https://libvirt.org/formatcaps.html>

NEW QUESTION # 43

Which of the following services can QEMU provide in a user network? (Choose three.)

- A. DHCP
- B. CIFS
- C. TFTP
- D. BGP
- E. AppleTalk

Answer: A,C

Explanation:

QEMU can provide some network services in a user network, which is a mode of networking that does not require any administrator privilege to run. The user network uses the SLIRP TCP/IP emulator to create a virtual NATted subnet, with a DHCP server started by QEMU that gives out IP addresses to the guest machines and puts the host on 10.0.2.21. QEMU can also provide a TFTP server in the user network, which can be used to boot the guest machines from a network image. The TFTP server can be configured with the - tftp option². QEMU does not provide BGP, CIFS, or AppleTalk services in the user network. BGP is a routing protocol that is used to exchange routing information between autonomous systems on the Internet³. CIFS is a file-sharing protocol that is used to access files and printers on a network⁴. AppleTalk is a deprecated network protocol suite that was used by Apple devices⁵. These services require more advanced networking features than the user network can offer, such as bridging, routing, or tunneling.

:

Documentation/Networking - QEMU

QEMU/Networking - Wikibooks, open books for an open world

Border Gateway Protocol - Wikipedia

Common Internet File System - Wikipedia

AppleTalk - Wikipedia

NEW QUESTION # 44

Which of the following tools is not typically used for VM provisioning and image creation?

- A. Kubernetes
- B. Packer
- C. Vagrant
- D. cloud-init

Answer: A

Explanation:

VM provisioning and image creation tools are used to build, configure, and initialize virtual machine images. According to virtualization documentation, Packer is specifically designed for automated image creation, Vagrant is used for provisioning reproducible development environments, and cloud-init is used to configure instances at first boot.

Kubernetes, however, is a container orchestration platform, not a VM provisioning or image creation tool.

It manages containerized workloads after infrastructure has already been provisioned.

Documentation clearly separates infrastructure provisioning tools from application orchestration platforms

. As such, Kubernetes is not typically used for VM provisioning or image creation.

Therefore, the correct answer is A.

NEW QUESTION # 45

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