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Lpi 305-300 (LPIC-3 Exam 305: Virtualization and Containerization) Certification Exam is a professional certification exam that is designed for IT professionals who want to validate their expertise in virtualization and containerization technologies. 305-300 exam covers a wide range of topics, including virtual machine management, container management, network virtualization, storage virtualization, and cloud computing. It is a vendor-neutral certification, which means that it is not specific to any particular virtualization or containerization technology.

Lpi LPIC-3 Exam 305: Virtualization and Containerization Sample Questions (Q61-Q66):

NEW QUESTION # 61

Which directory is used by cloud-init to store status information and configuration information retrieved from external sources?

- A. /tmp/.cloud/
- B. /etc/cloud-init/cache/

- C. /var/lib/cloud/
- D. /opt/cloud/var/
- E. /proc/sys/cloud/

Answer: C

Explanation:

cloud-init uses the /var/lib/cloud/ directory to store status information and configuration information retrieved from external sources, such as the cloud platform's metadata service or user data files. The directory contains subdirectories for different types of data, such as instance, data, handlers, scripts, and sem. The instance subdirectory contains information specific to the current instance, such as the instance ID, the user data, and the cloud-init configuration. The data subdirectory contains information about the data sources that cloud-init detected and used. The handlers subdirectory contains information about the handlers that cloud-init executed. The scripts subdirectory contains scripts that cloud-init runs at different stages of the boot process, such as per- instance, per-boot, per-once, and vendor. The sem subdirectory contains semaphore files that cloud-init uses to track the execution status of different modules and stages. References:

* Configuring and managing cloud-init for RHEL 8 - Red Hat Customer Portal

* vsphere - what is the linux file location where the cloud-init user ...

NEW QUESTION # 62

Which of the following are valid KVM parameters? (Choose THREE correct answers.)

- A. -drive file=ssh://user@host/tmp/file.img
- B. -drive file=rsync://user%password@fileserv:tmp/file.iso,media=cdrom,readonly
- C. drive file=imap://user:password@mailserver:INBOX/Wufnc6MjYp@mailgate
- D. -drive file=http://user:password@fileserv/pub/linux.iso,media=cdrom,readonly
- E. -drive file=iscsi://user%password@fileserv/iqn.2001-04.com.example/1

Answer: A,D,E

Explanation:

KVM uses QEMU as its userspace component, and QEMU supports a variety of network-based block device backends through the -drive file= parameter. According to QEMU and KVM documentation, valid protocols include SSH, iSCSI, and HTTP/HTTPS.

Option B is valid because QEMU supports accessing disk images securely over SSH.

Option C is valid as iSCSI is a supported storage backend for QEMU block devices.

Option D is valid because QEMU can boot or attach ISO images over HTTP, commonly used for CD-ROM media in installation scenarios.

Option A is invalid because IMAP is not a supported QEMU block protocol.

Option E is invalid because rsync is not supported as a block device transport.

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

NEW QUESTION # 63

What is the typical format for cloud-init configuration files?

- A. .ini
- B. .yaml
- C. .json
- D. .xml

Answer: B

Explanation:

Cloud-init configuration files are typically written in YAML (Yet Another Markup Language) format.

Official cloud-init documentation specifies that cloud-config files use YAML syntax, which is human-readable and well suited for declarative configuration.

YAML files allow administrators to define users, packages, services, networking, and commands in a structured and consistent way.

While cloud-init can process shell scripts and MIME multipart data, YAML remains the standard and recommended format.

Thus, the correct answer is D.

NEW QUESTION # 64

How does cloud-init enhance the customization of cloud instances?

- A. It allows you to specify scripts and user data
- B. It integrates with popular containerization tools
- C. It automatically configures all aspects of the cloud instance
- D. It provides a GUI for configuration

Answer: A

Explanation:

Cloud-init enhances cloud instance customization by allowing users to provide user data and scripts that are executed during the first boot of an instance. According to cloud-init documentation, these scripts and configuration files enable tasks such as installing packages, configuring services, setting hostnames, managing users, and injecting SSH keys.

Cloud-init does not automatically configure every aspect of an instance, nor does it provide a graphical interface. It also does not directly integrate with containerization tools. Its strength lies in automation and repeatability, making instance initialization consistent across environments.

Thus, the correct answer is B.

NEW QUESTION # 65

What kind of virtualization is implemented by LXC?

- A. Paravirtualization
- B. System containers
- C. Hardware containers
- D. CPU emulation
- E. Application containers

Answer: B

Explanation:

LXC implements system containers, which are a type of operating-system-level virtualization. System containers allow running multiple isolated Linux systems on a single Linux control host, using a single Linux kernel. System containers share the same kernel with the host and each other, but have their own file system, libraries, and processes. System containers are different from application containers, which are designed to run a single application or service in an isolated environment. Application containers are usually smaller and more portable than system containers, but also more dependent on the host kernel and libraries. Hardware containers, CPU emulation, and paravirtualization are not related to LXC, as they are different kinds of virtualization methods that involve hardware abstraction, instruction translation, or modification of the guest operating system. References:

* 1: LXC - Wikipedia

* 2: Linux Virtualization : Linux Containers (lxc) - GeeksforGeeks

* 3: Features - Proxmox Virtual Environment

NEW QUESTION # 66

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