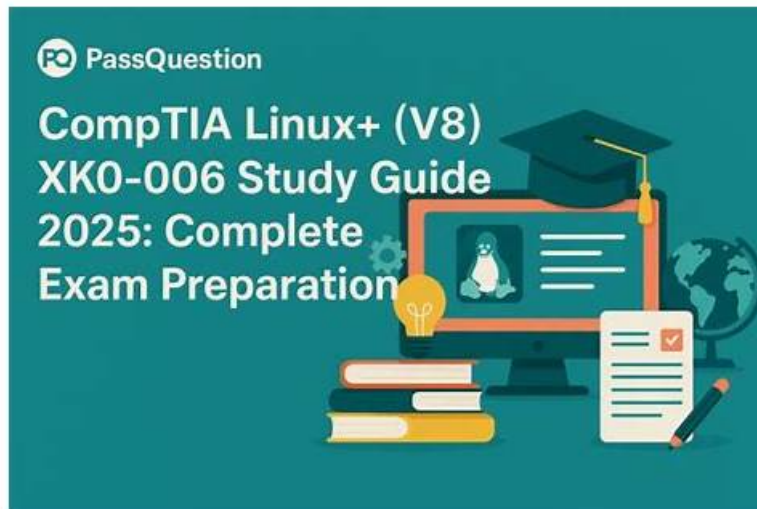


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CompTIA XK0-006 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• Troubleshooting: Addresses diagnosing and resolving issues across system health, hardware, storage, networking, security configurations, and performance optimization.
Topic 2	<ul style="list-style-type: none">• Security: Focuses on securing Linux systems through authentication, firewalls, OS hardening, account policies, cryptography, and compliance checks.
Topic 3	<ul style="list-style-type: none">• Services and User Management: Covers day-to-day Linux administration including file management, user accounts, processes, software, services, and container operations.
Topic 4	<ul style="list-style-type: none">• Automation, Orchestration, and Scripting: Covers task automation with tools like Ansible, shell and Python scripting, Git version control, and responsible AI-assisted development.

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CompTIA Linux+ Certification Exam Sample Questions (Q167-Q172):

NEW QUESTION # 167

A systems administrator manages multiple Linux servers and needs to set up a reliable and secure way to handle the complexity of managing event records on the OS and application levels. Which of the following should the administrator do?

- A. Deploy log rotation procedures to manage the records.
- **B. Implement a centralized log aggregation solution.**
- C. Create an automated process to retrieve logs from the server by demand.
- D. Configure daily automatic backups of logs to remote storage.

Answer: B

Explanation:

Log management is a critical system management function highlighted in CompTIA Linux+ V8, particularly in multi-server environments. As the number of systems and applications grows, managing logs locally on each server becomes inefficient and error-prone.

The best solution is to implement a centralized log aggregation solution, making option B correct.

Centralized logging collects logs from multiple systems and applications into a single, secure location. This simplifies monitoring, searching, correlation, auditing, and incident response. Common solutions include syslog servers, ELK/EFK stacks, and SIEM platforms.

Linux+ V8 documentation emphasizes centralized logging as a best practice for availability, troubleshooting, and security analysis. It enables administrators to detect patterns, investigate incidents, and maintain compliance more effectively than isolated log files.

The other options are insufficient on their own. On-demand retrieval does not scale well. Log backups protect data but do not simplify analysis. Log rotation manages disk usage but does not address distributed log complexity.

Therefore, the correct answer is B. Implement a centralized log aggregation solution.

NEW QUESTION # 168

Which of the following network types allows a VM to use the physical network connection independent of the host machine?

- **A. Bridged**
- B. Internal
- C. NAT
- D. Host-only

Answer: A

Explanation:

This network type connects the virtual machine directly to the physical network, allowing it to use the same network connection as other physical devices without relying on the host for network translation.

NEW QUESTION # 169

A Linux software developer wants to use AI to optimize source code used in a commercial product. Which of the following steps should the developer take first?

- A. Use open-source LLMs that undergo regular security reviews by the community.
- B. Install a private LLM to use on the internal network for source code optimization.
- **C. Verify that the company has a policy governing the use of AI in software development.**
- D. Research which of the available AI chatbots are best at optimizing source code.

Answer: C

Explanation:

Before using AI on commercial source code, the developer must first ensure compliance with company policies, legal requirements, and security standards. This prevents potential intellectual property, licensing, or confidentiality issues.

NEW QUESTION # 170

A Linux user needs to download the latest Debian image from a Docker repository. Which of the following commands makes this task possible?

- A. docker image init debian
- **B. docker image pull debian**
- C. docker image import debian
- D. docker image save debian

Answer: B

Explanation:

Container management and image handling are part of modern Linux automation practices covered in CompTIA Linux+ V8. Docker images are stored in container registries such as Docker Hub, and administrators commonly need to download images to deploy containers.

The correct command for downloading an image from a Docker repository is `docker image pull`. This command retrieves the specified image from a configured container registry and stores it locally. When no tag is specified, Docker automatically pulls the latest available version of the image. Therefore, `docker image pull debian` downloads the most recent Debian image from Docker Hub.

The other options are incorrect. `docker image init` is not a valid Docker command and does not exist in Docker's CLI. `docker image import` is used to create a Docker image from a tarball file, not to download an image from a repository. `docker image save` exports an existing local image into a tar archive and does not retrieve images from a remote registry.

Linux+ V8 documentation emphasizes understanding container image lifecycles, including pulling, tagging, and running images. Pulling images is a foundational step before container execution and automation workflows.

Therefore, the correct answer is B. `docker image pull debian`.

NEW QUESTION # 171

A Linux administrator needs to change the server name to `comptia1`. Which of the following commands should the administrator use?

- A. `export HOSTNAME=comptia1`
- **B. `hostnamectl set-hostname comptia1`**
- C. `systemctl daemon-reload -H comptia1`
- D. `echo "comptia1" >> /etc/resolv.conf`

Answer: B

Explanation:

The standard tool for managing the system hostname on modern Linux distributions using `systemd` is `hostnamectl`. According to the CompTIA Linux+ V8 objectives, the command `hostnamectl set-hostname < name >` is the correct and permanent way to change the server's identity.

When an administrator runs `hostnamectl set-hostname comptia1`, the utility updates the various types of hostnames recognized by the system:

* **Static Hostname:** This is stored in `/etc/hostname` and persists across reboots.

* **Transient Hostname:** A temporary name received via network configuration (like DHCP).

* **Pretty Hostname:** A high-level, human-readable name that can include special characters.

Using `hostnamectl` is preferred over manually editing `/etc/hostname` because it immediately notifies the kernel and running services of the change, often without requiring a reboot to take effect system-wide.

The other options are incorrect. Option A, `export HOSTNAME=comptia1`, only changes the environment variable for the current shell session; it does not change the system's actual hostname and is lost when the session ends. Option B, adding the name to `/etc/resolv.conf`, is incorrect because that file is used for DNS resolver settings (nameservers and search domains), not for the local system's hostname. Option D, `systemctl daemon-reload`, is used to refresh `systemd` after configuration changes to unit files and has no functionality for changing a hostname.

Therefore, `hostnamectl` is the verified command for this task.

NEW QUESTION # 172

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