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CompTIA XK0-006 Exam Syllabus Topics:

Topic	Details
Topic 1	• Troubleshooting: Addresses diagnosing and resolving issues across system health, hardware, storage, networking, security configurations, and performance optimization.
Topic 2	• Security: Focuses on securing Linux systems through authentication, firewalls, OS hardening, account policies, cryptography, and compliance checks.
Topic 3	• Services and User Management: Covers day-to-day Linux administration including file management, user accounts, processes, software, services, and container operations.
Topic 4	• 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 (Q201-Q206):

NEW QUESTION # 201

A DevOps engineer needs to create a local Git repository. Which of the following commands should the engineer use?

- A. git add
- B. git clone
- C. git init
- D. git config

Answer: C

Explanation:

Version control is a core DevOps practice, and CompTIA Linux+ V8 includes Git fundamentals as part of automation and orchestration objectives. To create a new local Git repository, the correct command is git init.

The git init command initializes a new Git repository in the current directory by creating a hidden .git directory. This directory contains all the metadata required for version control, including commit history, branches, configuration settings, and object storage. After running git init, the directory becomes a fully functional local repository ready to track files and commits.

The other options do not create a new repository. git clone is used to copy an existing remote repository to a local system, not to create a new one. git config is used to set Git configuration values such as username, email, or default editor. git add stages files for commit but only works after a repository has already been initialized.

Linux+ V8 documentation highlights git init as the foundational command for starting version control in new projects. This command is frequently used in DevOps workflows when creating infrastructure-as-code repositories, automation scripts, or application source trees from scratch.

By initializing a local repository, engineers can begin tracking changes, collaborating with others, and integrating Git into CI/CD pipelines. Therefore, the correct answer is A. git init.

NEW QUESTION # 202

An administrator attempts to install updates on a Linux system but receives error messages regarding a specific repository. Which of the following commands should the administrator use to verify that the repository is installed and enabled?

- A. yum list installed repos
- B. yum repo-pkgs
- **C. yum repolist all**
- D. yum reposync available

Answer: C

Explanation:

The yum repolist all command lists all configured repositories along with their status (enabled or disabled), allowing the administrator to verify if the problematic repository is installed and active.

NEW QUESTION # 203

Which of the following best describes the role of initrd?

- A. It is required to connect to the system via SSH.
- **B. It contains basic kernel modules and drivers required to start the system.**
- C. It contains trusted certificates and secret keys of the system.
- D. It is required to initialize a random device within a Linux system.

Answer: B

Explanation:

The initrd (initial RAM disk) plays a critical role in the Linux boot process, a topic covered under system management in Linux+ V8. Initrd is a temporary root filesystem loaded into memory by the bootloader before the main root filesystem is mounted.

Its primary purpose is to provide the kernel with the essential drivers, kernel modules, and utilities required to access the real root filesystem. This includes drivers for storage controllers, filesystems, RAID, LVM, or encrypted disks. Without initrd, the kernel may not be able to locate or mount the root filesystem, causing the boot process to fail.

Option B correctly describes this function. Initrd allows systems to boot flexibly across different hardware configurations by loading only the required modules at startup.

The other options are incorrect. Initrd is not related to SSH connectivity, which requires networking services that start much later in the boot process. It does not store trusted certificates or secret keys, which are typically located in persistent directories such as /etc/ssl. It is also unrelated to initializing random devices.

Linux+ V8 documentation emphasizes initrd (and its successor, initramfs) as a key component of the Linux boot sequence.

Therefore, the correct answer is B.

NEW QUESTION # 204

Users cannot access an application that is running inside containers. The administrator wants to validate whether the containers are running. Which of the following commands should the administrator use?

- **A. docker ps**
- B. docker run
- C. docker start
- D. docker images

Answer: A

Explanation:

Container troubleshooting is a key competency within the Automation, Orchestration, and Scripting domain of CompTIA Linux+ V8. When users report that an application running inside containers is not accessible, one of the first validation steps is to confirm whether the containers are currently running.

The docker ps command is specifically designed to list running containers on the system. By default, it displays container IDs, image names, command executed, uptime, port mappings, and container names. This allows administrators to quickly determine whether the application container is active and whether it is exposing the expected ports. This aligns directly with Linux+ V8 guidance on container lifecycle management and operational validation.

The other options are not suitable for this purpose. docker start is used to start one or more stopped containers but does not display container status. docker run creates and starts a new container, which is not appropriate when the goal is only to check the status of existing containers. docker images lists locally available container images but provides no information about running or stopped containers.

Linux+ V8 documentation emphasizes the importance of using the correct Docker subcommands when diagnosing containerized

applications. Verifying container runtime state using `docker ps` is a foundational troubleshooting step before investigating networking, firewall rules, or application-level errors.

Therefore, the correct command to validate whether containers are running is `docker ps`, making Answer B correct.

NEW QUESTION # 205

A Linux administrator receives reports that an application hosted in a system is not completing tasks in the allocated time. The administrator connects to the system and obtains the following details:

\$ uptime

12:47:43 up 22:17, 2 users, load average: 7.75, 5.72, 5.17

Which of the following is the most likely cause of the issue?

- A. Insufficient disk space
- B. Network latency
- C. High CPU load
- D. Memory leak

Answer: C

Explanation:

The correct answer is A. High CPU load because the uptime command output clearly shows elevated load averages (7.75, 5.72, 5.17), which indicate that the system is experiencing significant processing demand. Load average represents the number of processes that are either actively using the CPU or waiting for CPU time. When this value is consistently higher than the number of available CPU cores, it suggests that the CPU is overloaded and processes are being delayed.

In this scenario, the application is not completing tasks within the expected time frame, which aligns with CPU contention. When too many processes compete for CPU resources, scheduling delays occur, causing slower execution of applications and services. This is a common performance bottleneck in Linux systems.

NEW QUESTION # 206

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