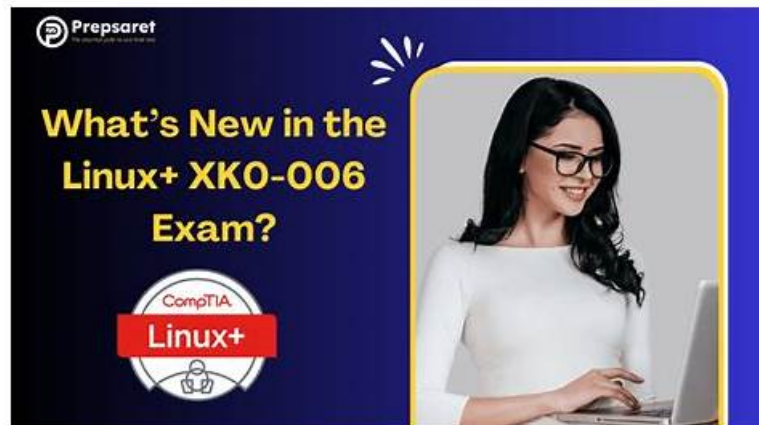


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CompTIA XK0-006 Exam Syllabus Topics:

Topic	Details
Topic 1	<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.
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">Troubleshooting: Addresses diagnosing and resolving issues across system health, hardware, storage, networking, security configurations, and performance optimization.

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CompTIA Linux+ Certification Exam Sample Questions (Q28-Q33):

NEW QUESTION # 28

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

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 # 29

Which of the following describes PEP 8?

- A. Python virtual environments
- B. A package installer for Python
- C. A Python variable holding octal values
- **D. The style guide for Python code**

Answer: D

Explanation:

Python scripting is part of Linux automation, and Linux+ V8 includes knowledge of Python development standards. PEP 8 stands for Python Enhancement Proposal 8 and defines the official style guide for Python code.

PEP 8 provides conventions for code layout, indentation, naming, line length, whitespace usage, and commenting. Its purpose is to improve code readability and maintainability, especially in collaborative environments. Linux+ V8 emphasizes that standardized coding practices are critical in automation and DevOps workflows.

The other options are incorrect. Python virtual environments are managed using tools such as venv. Package installation is handled by pip. Octal values are represented using specific syntax and are unrelated to PEP 8.

Therefore, the correct answer is A.

NEW QUESTION # 30

A systems administrator needs to report the IP addresses of the users currently connected to the server. Which of the following commands should the administrator use to find the required information?

- A. `$ whois @localhost`
- B. `$ cat /etc/hosts`
- C. `$ who -l`
- **D. `$ w -i`**

Answer: D

Explanation:

This command displays information about currently logged-in users and includes the IP addresses they are connected from, making it suitable for reporting active user connections.

NEW QUESTION # 31

An administrator has generated an RSA SSH key pair to log in to a remote server. After copying the public key and attempting to log in, the administrator sees the following message:

```
admin@192.168.10.50: Permission denied (publickey,password)
```

After seeing the message, the administrator attempts to connect using `ssh -v admin@192.168.10.50` and notices the following debug output:

```
debug1: send_pubkey_test: no mutual signature algorithm
```

Which of the following actions should the administrator take first to remediate this issue?

- A. Create a new key pair by running `ssh-keygen -t ecdsa`.
- B. Issue `systemctl restart sshd` on the local server.
- C. Update permissions on the `/home/admin/.ssh` directory to 700 on the remote server.
- D. Set `PermitRootLogin yes` in the `/etc/ssh/sshd_config` file.

Answer: A

Explanation:

The "no mutual signature algorithm" error means the RSA/SHA-1 key type (`ssh-rsa`) isn't supported by both client and server. Generating a new key with a modern algorithm (e.g., `ssh-keygen -t ecdsa`) ensures a mutually supported signature method.

NEW QUESTION # 32

A systems administrator is investigating bandwidth issues on a Linux file server that should be able to easily exceed 12.5MBps. The administrator inspects the following information:

Which of the following is causing the bandwidth issue?

- A. The network interface `enp1s0f0` is not using FEC mode
- B. The network interface `enp1s0f0` has misconfigured the MTU value
- C. The network interface negotiated speed for `enp1s0f0` is set too low
- D. The network interface `enp1s0f0` has the incorrect queue length configured

Answer: C

Explanation:

The interface has negotiated a speed of 100Mbps, which caps throughput to around 12.5MBps under ideal conditions. If the server should exceed that, the link is negotiating at a lower-than- expected speed (for example, it should be at 1Gbps or higher).

NEW QUESTION # 33

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