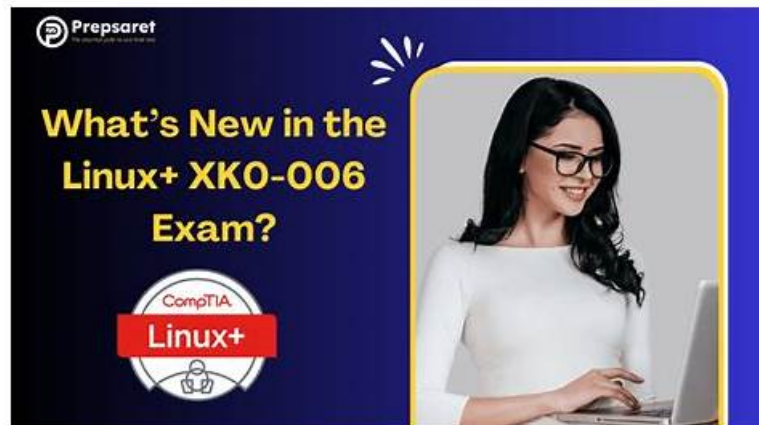


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Topic 1	<ul style="list-style-type: none">Automation, Orchestration, and Scripting: Covers task automation with tools like Ansible, shell and Python scripting, Git version control, and responsible AI-assisted development.
Topic 2	<ul style="list-style-type: none">Troubleshooting: Addresses diagnosing and resolving issues across system health, hardware, storage, networking, security configurations, and performance optimization.
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">Security: Focuses on securing Linux systems through authentication, firewalls, OS hardening, account policies, cryptography, and compliance checks.

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CompTIA Linux+ Certification Exam Sample Questions (Q24-Q29):

NEW QUESTION # 24

User1 reports "access denied" errors while trying to execute app. Given the following outputs:

□

Which of the following options will remediate this issue?

- A. Modifying the permissions for others to grant read, write, and execute
- B. Adding user1 to the wheel group
- C. Moving app to a different folder
- **D. Providing execute permissions to user1 in the ACL**

Answer: D

Explanation:

According to the output of `getfacl app`, user1 has only "rw" (read and write) permissions, but lacks "x" (execute). Without execute permission, user1 cannot run the file. To allow user1 to execute app, you must update the ACL to add execute permission (e.g., `setfacl -m u:user1 rwx app`). Modifying "others" permissions (option B) is not secure or necessary, adding user1 to the wheel group (option C) is unrelated, and moving the file (option D) does not resolve permission issues.

Reference:

CompTIA Linux+ Study Guide: Exam XK0-006, Sybex, Chapter 7: "Securing Linux Systems", Section: "Managing File and Directory Permissions and ACLs"

CompTIA Linux+ XK0-006 Objectives, Domain 3.0: Security

NEW QUESTION # 25

A Linux administrator needs to change the execution frequency of a systemd timer. Which of the following commands should the administrator use after editing the timer file to make the changes effective?

- **A. systemctl daemon-reload**
- B. systemd-analyze time
- C. timedatectl --adjust-system-clock
- D. sysctl --load

Answer: A

Explanation:

After modifying a systemd unit file such as a timer, this command reloads systemd's configuration so the updated execution schedule is recognized and applied.

NEW QUESTION # 26

Which of the following most accurately describes a webhook?

- A. An SNMP-based API for network device monitoring
- B. A means to transmit sensitive information between systems
- **C. An HTTP-based callback function**
- D. An authentication method for web-server communication

Answer: C

Explanation:

The correct answer is D. An HTTP-based callback function. A webhook is a mechanism that allows one system to automatically send real-time data to another system via HTTP when a specific event occurs. Instead of continuously polling an API for updates, a webhook enables event-driven communication, making automation more efficient and responsive.

In practical Linux and DevOps environments, webhooks are widely used in automation, orchestration, and integration workflows. For example, a version control system like GitHub can trigger a webhook to notify a CI/CD pipeline whenever new code is pushed. The receiving system exposes an HTTP endpoint (URL), and when the event occurs, the webhook sends an HTTP POST request with relevant data payload. This design significantly reduces overhead compared to polling mechanisms.

Option A is incorrect because webhooks are not authentication mechanisms. While authentication (such as tokens or signatures) may be used to secure webhook communication, it is not their primary purpose.

Option B is incorrect because SNMP (Simple Network Management Protocol) is unrelated to webhooks.

SNMP is used for monitoring and managing network devices, whereas webhooks operate over HTTP/HTTPS protocols.

Option C is incorrect because although webhooks can transmit data (including sensitive information if not properly secured), their purpose is not specifically to transmit sensitive data but to notify systems of events through automated callbacks.

From a Linux+ perspective, understanding webhooks is essential in automation and orchestration tasks. They are commonly integrated into scripts, configuration management tools, and cloud-native workflows to enable reactive, event-driven system behavior, improving efficiency and scalability in modern infrastructure environments.

NEW QUESTION # 27

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

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 # 28

A systems administrator is having issues with a third-party API endpoint. The administrator receives the following output:

□ Which of the following actions should the administrator take to resolve the issue?

- A. Enable internet connectivity on the host.
- B. Request a new API endpoint from a third party.
- **C. Review and fix the DNS client configuration file.**
- D. Open a secure port in the server's firewall.

Answer: C

Explanation:

The dig comp.tia.com output shows NXDOMAIN and that the query is being sent to 10.255.255.254, which is not a valid DNS server. This indicates a misconfigured DNS client configuration (e.g., /etc/resolv.conf). Fixing the DNS settings will allow proper hostname resolution.

NEW QUESTION # 29

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