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CompTIA XK0-006 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<ul style="list-style-type: none">Security: Focuses on securing Linux systems through authentication, firewalls, OS hardening, account policies, cryptography, and compliance checks.
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 (Q30-Q35):

NEW QUESTION # 30

An administrator logs in to a Linux server and notices the clock is 37 minutes fast. Which of the following commands will fix the issue?

- A. ntpd -q
- B. hwclock
- C. timedatectl
- D. ntpdate

Answer: D

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

The ntpdate command synchronizes the system clock with a remote NTP server immediately, correcting any significant time drift. This is ideal for one-time corrections.

For example:

```
bash
```

```
CopyEdit
```

```
ntpdate pool.ntp.org
```

Other options:

- * A. hwclock reads or sets the hardware clock, but does not sync with network time.
- * C. timedatectl can set the time manually or manage time settings, but does not immediately sync with a remote NTP server.
- * D. ntpd -q can also sync the clock once, but ntpdate is designed specifically for immediate synchronization and is more straightforward for one-time corrections.

Reference:

CompTIA Linux+ Study Guide: Exam XK0-006, Sybex, Chapter 5: "System Management", Section: "Time Synchronization"

CompTIA Linux+ XK0-006 Objectives, Domain 1.0: System Management

NEW QUESTION # 31

A systems administrator is helping to secure a new web application. During the tests, the administrator obtains the following output to validate the application:

```
* SSL connection using TLSv1.2 / ECDHE-RSA-AES256-GCM-SHA384
* ALPN, server accepted to use http/1.1
* Server certificate:
*  subject: CN=*.newapp.comptia.org
*  start date: Jan 17 00:00:00 2024 GMT
*  expire date: Feb 16 23:59:59 2024 GMT
*  issuer: C=US; O=CompTIA; OU=IT Security; CN=ssl.comptia.org
*  SSL certificate verify result: unable to get local issuer certificate (20), continuing anyway.
> HEAD /artifactory HTTP/1.1
> Host: api.newapp.comptia.org
> User-Agent: curl/7.61.1
> Accept: */*
```

Which of the following explains the validation results?

- A. The certificate uses an outdated algorithm and should be replaced with a more secure one.
- B. The certificate is a wildcard certificate that is highly insecure and should never be used.
- C. The certificate was only issued for one month, is already expired, and needs to be replaced
- D. The certificate was not signed by trusted authority, which was forcefully ignored during the tests.

Answer: D

Explanation:

The validation output indicates that the certificate chain could not be verified because the local system does not trust the issuing certificate authority, and the connection proceeded anyway by ignoring the verification failure during testing.

NEW QUESTION # 32

A Linux administrator needs to analyze a compromised disk for traces of malware. To complete the analysis, the administrator wants to make an exact, block-level copy of the disk. Which of the following commands accomplishes this task?

- A. cp -rp /dev/sdc/* /tmp/image
- B. dd if=/dev/sdc of=/tmp/image bs=8192
- C. cpio -i /dev/sdc -ov /tmp/image
- D. tar cvzf /tmp/image /dev/sdc

Answer: B

Explanation:

Disk forensics and malware analysis fall under the Security domain in the CompTIA Linux+ V8 objectives.

When analyzing a compromised disk, it is critical to preserve the data exactly as it exists, including unused space, deleted files, and hidden metadata. This requires a block-level copy, not a file-level copy.

The dd command is the correct tool for this task. It operates at a low level, copying raw data from an input device (if=/dev/sdc) directly to an output file (of=/tmp/image) without interpreting filesystem structures. This ensures an exact, bit-for-bit replica of the disk, which is essential for forensic integrity and malware analysis.

The bs=8192 option improves performance by specifying a larger block size during copying.

The other options are incorrect. cp -rp copies files and directories but does not capture free space, deleted data, or disk metadata. cpio and tar are archive utilities that operate at the filesystem level and cannot produce a true disk image. These tools also require the filesystem to be mounted and readable, which is not appropriate for forensic preservation.

Linux+ V8 documentation highlights dd as the preferred utility for disk imaging, backups, and forensic investigations. Administrators are also advised to perform such operations on unmounted disks to avoid altering evidence.

Therefore, the correct and best command for creating an exact block-level disk copy is D. dd if=/dev/sdc of=/tmp/image bs=8192.

NEW QUESTION # 33

Which of the following utilities supports the automation of security compliance and vulnerability management?

- A. Nmap
- B. AIDE
- C. SELinux
- D. OpenSCAP

Answer: D

Explanation:

OpenSCAP is a framework that automates security compliance checking and vulnerability management by using standardized security content (SCAP). It helps administrators enforce policies and detect vulnerabilities.

NEW QUESTION # 34

An administrator added a new disk to expand the current storage. Which of the following commands should the administrator run first to add the new disk to the LVM?

- A. vgextend
- B. lvextend
- C. pvcreate
- D. pvresize

Answer: C

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

To add a new physical disk to LVM, the disk must first be initialized as a physical volume using the pvcreate command. This prepares the new disk for use by the LVM subsystem. After initializing with pvcreate, you would use vgextend to add the new physical volume to an existing volume group.

Other options:

* A. vgextend adds a physical volume to a volume group, but you must use pvcreate first.

* B. lvextend is used to increase the size of a logical volume, not to add a new disk.

* D. pvresize is used to resize an existing physical volume, not to create one.

Reference:

CompTIA Linux+ Study Guide: Exam XK0-006, Sybex, Chapter 7: "Managing Storage", Section: "Managing Logical Volumes"

CompTIA Linux+ XK0-006 Objectives, Domain 4.0: Storage and Filesystems

NEW QUESTION # 35

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