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CompTIA Linux+ Certification Exam Sample Questions (Q120-Q125):

NEW QUESTION # 120

A junior system administrator removed an LVM volume by mistake.

INSTRUCTIONS

Part 1

Review the output and select the appropriate command to begin the recovery process.

Part 2

Review the output and select the appropriate command to continue the recovery process.

Part 3

Review the output and select the appropriate command to complete the recovery process and access the underlying data.

☐

Answer:

Explanation:

Explanation:

Part 1 - Begin the recovery process

```
vgcfgrestore vg01 -f/etc/lvm/archive/vg01_00001-810050352.vg
```

Part 2 - Continue the recovery process

```
lvchange -ay /dev/vg01/lv01
```

Part 3 - Complete recovery and access data

```
mount /dev/vg01/lv01 /important_data
```

This performance-based question tests LVM recovery, a critical System Management skill in CompTIA Linux+ V8. The scenario indicates that a logical volume was removed, but the underlying physical volume and volume group metadata still exist.

Part 1: Restoring Volume Group Metadata

The first screenshot shows that:

Physical volumes (pvdisplay, pvs) still exist

The logical volume is missing

/etc/lvm/archive/ contains archived VG metadata

Linux automatically stores backups of LVM metadata in /etc/lvm/archive whenever changes are made. The correct first step is to restore the volume group metadata using:

```
vgcfgrestore vg01 -f/etc/lvm/archive/vg01_00001-810050352.vg
```

This restores the logical volume definitions but does not activate them yet.

This is the only correct starting point in Linux+ V8 recovery workflows.

Part 2: Activating the Logical Volume

After metadata restoration:

The LV exists but is inactive

```
blkid shows the LV as TYPE= "LVM2_member "
```

The logical volume must be activated before it can be mounted:

```
lvchange -ay /dev/vg01/lv01
```

This makes the LV available under /dev/vg01/lv01.

Linux+ explicitly requires LV activation after recovery.

Part 3: Accessing the Data

The final output shows:

The filesystem type is xfs

The logical volume is now visible

Since there is no indication of filesystem corruption, no repair is required.

The correct final step is to mount the filesystem:

```
mount /dev/vg01/lv01 /important_data
```

This restores full access to the underlying data.

NEW QUESTION # 121

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

Answer: B

Explanation:

The `dd` command performs a low-level, block-by-block copy of a device. Using `if=/dev/sdc` (input file) and `of=/tmp/image` (output file) with a block size (`bs`) ensures an exact replica of the disk, suitable for forensic analysis.

NEW QUESTION # 122

A Linux administrator just finished setting up passwordless SSH authentication between two nodes. However, upon test validation, the remote host prompts for a password. Given the following logs:

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

- A. The SELinux policy is incorrectly targeting the `unconfined_u` context.

- B. The authorized_keys file has the incorrect root permissions assigned.
- **C. The authorized_keys file does not have the correct security context to match SELinux policy.**
- D. The administrator forgot to restart the SSHD after creating the authorizedjceys file.

Answer: C

Explanation:

This issue is directly related to SELinux enforcement, which is a key topic in the Security domain of CompTIA Linux+ V8. The logs clearly indicate that SSH key-based authentication is failing due to an SELinux access control violation rather than a traditional file permission or SSH configuration problem.

The most important clue is the AVC denial message, which shows that the sshd process is being denied read access to the authorized_keys file. The security context of the file is listed as unconfined_uobject_r:home_root_ts0. Under a targeted SELinux policy, SSH is only permitted to read authorized_keys files that are labeled with the correct SELinux type, typically ssh_home_t.

Because SELinux is running in enforcing mode, it actively blocks access that violates policy rules, even if standard UNIX permissions are correct. Although the file permissions (600) are acceptable for an authorized_keys file, SELinux does not rely solely on traditional permissions. The mismatch between the expected SELinux context and the actual context prevents sshd from accessing the file, causing SSH to fall back to password authentication.

Option D correctly identifies the root cause: the authorized_keys file does not have the correct SELinux security context. This is a well-documented Linux+ V8 troubleshooting scenario, commonly resolved by restoring the correct context using commands such as restorecon or by ensuring the file resides in a properly labeled home directory.

The other options are incorrect. Restarting sshd does not fix SELinux labeling issues. The policy itself is functioning as intended, and file ownership alone does not override SELinux access controls.

Linux+ V8 documentation emphasizes that SELinux denials must be addressed by correcting file contexts rather than weakening security controls. Therefore, the correct answer is D.

NEW QUESTION # 123

A Linux administrator attempts to log in to a server over SSH as root and receives the following error message: Permission denied, please try again. The administrator is able to log in to the console of the server directly with root and confirms the password is correct. The administrator reviews the configuration of the SSH service and gets the following output:

Based on the above output, which of the following will most likely allow the administrator to log in over SSH to the server?

- A. Modify the SSH port to use 2222.
- B. Log out other user sessions because only one is allowed at a time.
- **C. Use a key to log in as root over SSH.**
- D. Enable PAM and configure the SSH module.

Answer: C

Explanation:

The SSH configuration option PermitRootLogin prohibit-password prevents the root user from logging in with password authentication. This setting means root cannot use a password to log in via SSH; only key-based authentication is permitted for root. The administrator can still log in as root locally, which is not affected by this SSH configuration. To allow SSH access as root, the administrator must use an SSH key instead of a password.

Other options:

A). MaxSessions controls the number of simultaneous SSH sessions but is not causing the login denial here.

B). PAM (Pluggable Authentication Modules) is disabled, but enabling it is not required for basic SSH authentication.

C). Changing the SSH port is unrelated to the authentication method issue.

Reference:

CompTIA Linux+ Study Guide: Exam XK0-006, Sybex, Chapter 11: "Securing Linux", Section: "Securing SSH Access"

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

NEW QUESTION # 124

Which of the following best describes journald?

- A. A feature that creates crash dumps in case of kernel failure
- **B. A system service that collects and stores logging data**
- C. A service responsible for writing audit records to a disk
- D. A service responsible for keeping the filesystem journal

Answer: B

Explanation:

journal, part of systemd, is the core logging service in modern Linux systems and is covered under Linux+ V8 logging and monitoring objectives.

The correct description is A. systemd-journal collects, stores, and indexes logging data from the kernel, system services, and applications. Logs are stored in a structured, binary format and can be queried using journalctl. Journald supports metadata tagging, log filtering, and centralized logging integration.

Option B refers to kernel crash dump mechanisms like kdump. Option C describes filesystem journaling (such as ext4 journaling).

Option D refers to auditd, which manages security audit logs.

Linux+ V8 documentation clearly distinguishes journald from other logging and auditing services. Therefore, the correct answer is A.

NEW QUESTION # 125

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