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CompTIA Linux+ Certification Exam Sample Questions (Q141-Q146):

NEW QUESTION # 141

A Linux administrator is attempting to capture all network traffic coming to the server from the 10.0.6.5 IP address. Which of the following commands should the administrator run on the server to achieve the goal?

- A. `tcpdump net 10.0.6.5`
- B. `tcpdump addr 10.0.6.5`
- C. `tcpdump host 10.0.6.5`
- D. `tcpdump ip 10.0.6.5`

Answer: C

Explanation:

`tcpdump host 10.0.6.5` applies a Berkeley Packet Filter that matches any packets to or from the IP 10.0.6.5, capturing all traffic involving that host. The netqualifier is for entire subnets, ip isn't a valid filter keyword by itself, and addr is not recognized in `tcpdump`'s filter syntax.

NEW QUESTION # 142

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

Answer: A

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 # 143

An administrator set up a new user account called "test". However, the user is unable to change their password. Given the following output:

```
[test@localhost ~]$ passwd
Changing password for user test.
Current password:
passwd: Authentication token manipulation error

[test@localhost ~]$ ls -l /bin/passwd
-rwxr-xr-x. 1 root root 33424 Feb 7 2022 /bin/passwd

[test@localhost ~]$ chage -l test
Last password change : Oct 19, 2023
Password expires : never
Password inactive : never
Account expires : never
Minimum number of days between password change : 0
Maximum number of days between password change : 99999
Number of days of warning before password expires : 7

[root@localhost bin]# passwd test
Changing password for user test.
New password:
Retype new password:
passwd: all authentication tokens updated successfully
```

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

- A. The SUID bit is missing on the /bin/passwd file.
- B. The password has been disabled for user "test".
- C. The password provided by the user "test" does not meet complexity requirements.
- D. The user "test" already changed the password today.

Answer: A

Explanation:

For normal users to change their own password, /bin/passwd must have the SUID bit set (permissions should be -rwsr-xr-x). The SUID bit allows users to run the program with the permissions of the file owner (root), which is required to update /etc/shadow. The provided output shows /bin/passwd does not have the SUID bit (no 's' in the owner's execute field). As a result, user "test" receives an "Authentication token manipulation error". The password can be changed as root, which confirms it's a permissions/SUID issue.

Other options:

- B). If the password didn't meet requirements, a different error would appear.
- C). There is no minimum day limit preventing password change (see chage -l output).
- D). The account and password are active (not disabled).

Reference:

CompTIA Linux+ Study Guide: Exam XK0-006, Sybex, Chapter 6: "User and Group Management", Section: "Managing User Passwords and Policies" CompTIA Linux+ XK0-006 Objectives, Domain 1.0: System Management

NEW QUESTION # 144

A Linux systems administrator needs to extract the contents of a file named /home/dev/web.bkp to the /var/www/html/ directory. Which of the following commands should the administrator use?

- A. `unzip -c /home/dev/web.bkp /var/www/html/`
- B. `tar -c -f /home/dev/web.bkp /var/www/html/`
- C. `cd /var/www/html/ && gzip -c /home/dev/web.bkp | tar xf -`
- D. `pushd /var/www/html/ && cpio -idv < /home/dev/web.bkp && popd`

Answer: D

Explanation:

Comprehensive and Detailed 250 to 350 words of Explanation From Linux+ V8 documents:

File extraction and backup restoration are fundamental System Management tasks covered in CompTIA Linux+ V8. In this scenario, the administrator must extract the contents of an existing backup file into a target directory.

The correct command is option B, which uses `cpio` in extract mode. The command changes into the destination directory (`/var/www/html/`) using `pushd`, extracts the archive contents with `cpio -idv`, and then returns to the original directory with `popd`. This ensures that files are restored into the correct location without modifying paths inside the archive.

The `cpio` utility is commonly used for backups created with `cpio -o` and supports reading archive data from standard input. Linux+ V8 documentation includes `cpio` as a valid and supported archive format for backup and restore operations.

The other options are incorrect. Option A incorrectly assumes the backup is a `gzip`-compressed tar archive.

Option C creates a new archive instead of extracting one. Option D assumes the file is a ZIP archive, which is not indicated by the `.bkp` extension.

Linux+ V8 emphasizes using the correct tool based on the archive format and restoring files into the intended directory. Therefore, the correct answer is B.

NEW QUESTION # 145

Which of the following is the main reason for setting up password expiry policies?

- A. To force usage of passwordless authentication
- **B. To mitigate the use of exposed passwords**
- C. To increase password strength and complexity
- D. To avoid using the same passwords repeatedly

Answer: B

Explanation:

Password expiry policies ensure that even if a password has been compromised, its period of validity is limited, reducing the risk of long-term unauthorized access.

NEW QUESTION # 146

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