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Updated Feb-2023 Pass XK0-005 Exam - Real Practice Test Questions [Q88-Q109]

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CompTIA Linux+ Certification Exam Sample Questions (Q636-Q641):

NEW QUESTION # 636

Which of the following is a function of a bootloader?

- A. It mounts the root filesystem that is required to load the OS.
- **B. It helps to load the different kernels to initiate the OS startup process.**
- C. It triggers the start of all the system services.
- D. It initializes all the devices that are required to load the OS.

Answer: B

Explanation:

Explanation

A function of a bootloader is to help load the different kernels to initiate the OS startup process. A bootloader is a program that runs when the system is powered on and prepares the system for booting the OS. A bootloader can load different kernels, which are the core components of the OS, and pass the control to the selected kernel. A bootloader can also provide a menu for the user to choose which kernel or OS to boot. This is a correct function of a bootloader. The other options are incorrect because they are either functions of the kernel (initialize devices or mount root filesystem) or functions of the init system (trigger the start of system services). References: CompTIA Linux+ (XK0-005) Certification Study Guide, Chapter 8: Managing the Linux Boot Process, page 265.

NEW QUESTION # 637

The security team has identified a web service that is running with elevated privileges. A Linux administrator is working to change the systemd service file to meet security compliance standards. Given the following output:

Which of the following remediation steps will prevent the web service from running as a privileged user?

- A. Adding the User=webservice to the [Service] section of the service file
- B. Updating the EnvironmentFile line in the [Service] section to /home/webservice/config
- C. Changing the multi-user.target in the [Install] section to basic.target
- D. Removing the ExecStart=/usr/sbin/webserver -D OPTIONS from the service file

Answer: A

Explanation:

Explanation

The remediation step that will prevent the web service from running as a privileged user is adding the User=webservice to the [Service] section of the service file. The service file is a configuration file that defines the properties and behavior of a systemd service. The systemd is a system and service manager that controls the startup and operation of Linux systems. The service file contains various sections and options that specify how the service should be started, stopped, and managed. The [Service] section defines how the service should be executed and what commands should be run. The User option specifies the user name or ID that the service should run as. The webservice is the name of the user that the administrator wants to run the web service as. The administrator should add the User=webservice to the [Service] section of the service file, which will prevent the web service from running as a privileged user, such as root, and improve the security of the system. This is the correct remediation step to use to prevent the web service from running as a privileged user. The other options are incorrect because they either do not change the user that the service runs as (removing the ExecStart=/usr/sbin/webserver -D OPTIONS from the service file or updating the EnvironmentFile line in the [Service] section to /home/webservice/config) or do not affect the user that the service runs as (changing the multi-user.target in the [Install] section to basic.target). References: CompTIA Linux+ (XK0-005) Certification Study Guide, Chapter 15: Managing System Services, page 458.

NEW QUESTION # 638

An administrator created an initial Git repository and uploaded the first files. The administrator sees the following when listing the repository:

The administrator notices the file .DS_Store should not be included and deletes it from the online repository. Which of the following should the administrator run from the root of the local repository before the next commit to ensure the file is not uploaded again in future commits?

- A. echo .DS_Store >> .gitignore
- B. rm -f .DS_Store && git push
- C. git fetch && git checkout .DS_Store
- D. rm -f .DS_Store && git rebase origin main

Answer: A

Explanation:

The correct answer is D. The administrator should run "echo .DS_Store >> .gitignore" from the root of the local repository before the next commit to ensure the file is not uploaded again in future commits.

This command will append the file name .DS_Store to the end of the .gitignore file, which is a special file that tells Git to ignore certain files or directories that should not be tracked or uploaded to the repository. By adding .DS_Store to the .gitignore file, the

administrator will prevent Git from staging, committing, or pushing this file in the future.

The other options are incorrect because:

A: `rm -f .DS STORE && git push`

This command will delete the file `.DS STORE` from the local repository and then push the changes to the remote repository. However, this does not prevent the file from being uploaded again in future commits, if it is recreated or copied to the local repository.

B: `git fetch && git checkout .DS STORE`

This command will fetch the latest changes from the remote repository and then restore the file `.DS STORE` from the remote repository to the local repository. This is not what the administrator wants to do, as this will undo the deletion of the file from the online repository.

C: `rm -f .DS STORE && git rebase origin main`

This command will delete the file `.DS STORE` from the local repository and then rebase the local branch onto the main branch of the remote repository. This will rewrite the commit history of the local branch and may cause conflicts or errors. This is not what the administrator wants to do, as this is a risky and unnecessary operation.

NEW QUESTION # 639

Joe, a user, is unable to log in to the Linux system. Given the following output:

Which of the following commands would resolve the issue?

- A. `usermod -s /bin/bash joe`
- B. `chage -E 90 joe`
- C. `pam_tally2 -u joe -r`
- D. `passwd -u joe`

Answer: C

Explanation:

The command `pam_tally2 -u joe -r` will resolve the issue of Joe being unable to log in to the Linux system.

The `pam_tally2` command is a tool for managing the login counter for the PAM (Pluggable Authentication Modules) system. PAM is a framework for managing authentication and authorization on Linux systems.

PAM allows the administrator to define the rules and policies for accessing various system resources and services, such as login, sudo, ssh, or cron. PAM also supports different types of authentication methods, such as passwords, tokens, biometrics, or smart cards. PAM can be used to implement login restrictions, such as limiting the number of failed login attempts, locking the account after a certain number of failures, or enforcing a minimum or maximum time between login attempts. The `pam_tally2` command can display, reset, or unlock the login counter for the users or hosts. The `-u joe` option specifies the user name that the command should apply to. The `-r` option resets the login counter for the user. The command `pam_tally2 -u joe -r` will reset the login counter for Joe, which will unlock his account and allow him to log in to the Linux system.

This will resolve the issue of Joe being unable to log in to the Linux system. This is the correct command to use to resolve the issue.

The other options are incorrect because they either do not unlock the account (`usermod -s /bin/bash joe` or `passwd -u joe`) or do not affect the login counter (`chage -E 90 joe`). References: CompTIA Linux+ (XK0-005) Certification Study Guide, Chapter 17: Implementing Basic Security, page 517.

NEW QUESTION # 640

While inspecting a recently compromised Linux system, the administrator identified a number of processes that should not have been running:

Which of the following commands should the administrator use to terminate all of the identified processes?

- A. `kill -9 "upload*.sh"`
- B. `killall -9 -upload*.sh"`
- C. `skill -9 "upload*.sh"`
- D. `pkill -9 -f"upload*.sh"`

Answer: D

Explanation:

The `pkill -9 -f"upload*.sh"` command will terminate all of the identified processes. This command will send a SIGKILL signal (-9) to all processes whose full command line matches the pattern `"upload*.sh"` (-f). This signal will force the processes to terminate immediately without giving them a chance to clean up or save their state. The `kill -9 "upload*.sh"` command is invalid, as `kill` requires

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