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The XK0-005 Exam covers a broad range of topics related to Linux, including system administration, system architecture, security, storage management, virtualization, scripting, and networking. XK0-005 exam consists of 90 multiple-choice and performance-based questions that are designed to evaluate the candidate's ability to perform various tasks related to Linux administration.

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CompTIA Linux+ Certification Exam Sample Questions (Q41-Q46):

NEW QUESTION # 41

A systems administrator has been tasked with disabling the nginx service from the environment to prevent it from being automatically and manually started. Which of the following commands will accomplish this task?

- A. systemctl cancel nginx
- B. systemctl mask nginx**
- C. systemctl disable nginx
- D. systemctl stop nginx

Answer: B

Explanation:

Explanation

The command `systemctl mask nginx` disables the `nginx` service from the environment and prevents it from being automatically and manually started. This command creates a symbolic link from the service unit file to `/dev/null`, which makes the service impossible to start. This is the correct way to accomplish the task. The other options are incorrect because they either do not exist (`systemctl cancel nginx`), do not prevent manual start (`systemctl disable nginx`), or do not prevent automatic start (`systemctl stop nginx`). References: CompTIA Linux+ (XK0-005) Certification Study Guide, Chapter 14: Managing Processes and Scheduling Tasks, page 429.

NEW QUESTION # 42

A Linux administrator is creating a primary partition on the replacement hard drive for an application server. Which of the following commands should the administrator issue to verify the device name of this partition?

- A. `sudo fdisk -s /dev/sda`
- B. `sudo fdisk -h`
- C. `sudo fdisk /dev/sda`
- D. `sudo fdisk -l`

Answer: D**NEW QUESTION # 43**

Employees in the finance department are having trouble accessing the file `/opt/work/file`. All IT employees can read and write the file. Systems administrator reviews the following output:

```
admin@server:/opt/work$ ls -al file
-rw-rw----+ 1 root  it 4 Sep 5 17:29 file
```

Which of the following commands would permanently fix the access issue while limiting access to IT and finance department employees?

- A. `chown it:finance file`
- B. `chattr +i file`
- C. `chmod 666 file`
- D. `setfacl -m g:finance:rw file`

Answer: D

Explanation:

Explanation

The command `setfacl -m g:finance:rw file` will permanently fix the access issue while limiting access to IT and finance department employees. The `setfacl` command is a tool for modifying the access control lists (ACLs) of files and directories on Linux systems. The ACLs are a mechanism that allows more fine-grained control over the permissions of files and directories than the traditional owner-group-others model. The `-m` option specifies the modification to the ACL. The `g:finance:rw` means that the group named `finance` will have read and write permissions on the file. The file is the name of the file to modify, in this case `/opt/work/file`. The command `setfacl -m g:finance:rw file` will add an entry to the ACL of the file that will grant read and write access to the `finance` group. This will fix the access issue and allow the `finance` employees to access the file.

The command will also preserve the existing permissions of the file, which means that the IT employees will still have read and write access to the file. This will limit the access to IT and finance department employees and prevent unauthorized access from other users. This is the correct command to use to accomplish the task.

The other options are incorrect because they either do not fix the access issue (`chattr +i file` or `chown it:finance file`) or do not limit the access to IT and finance department employees (`chmod 666 file`). References: CompTIA Linux+ (XK0-005) Certification Study Guide, Chapter 11: Managing File Permissions and Ownership, page 352.

NEW QUESTION # 44

Which of the following commands is used to configure the default permissions for new files?

- A. sudo
- B. chmod
- C. setenforce
- D. umask

Answer: D

Explanation:

The command that is used to configure the default permissions for new files is umask. The umask command is a tool for setting the default permissions for new files and directories on Linux systems. The umask value is a four-digit octal number that represents the permissions that are subtracted from the default permissions. The default permissions for files are 666, which means read and write for owner, group, and others. The default permissions for directories are 777, which means read, write, and execute for owner, group, and others. The umask value consists of four digits: the first digit is for special permissions, such as setuid, setgid, and sticky bit; the second digit is for the owner permissions; the third digit is for the group permissions; and the fourth digit is for the others permissions. The umask value can be calculated by subtracting the desired permissions from the default permissions. For example, if the desired permissions for files are 664, which means read and write for owner and group, and read for others, then the umask value is 002, which is 666 - 664. The command umask 002 will set the umask value to 002, which will ensure that only file owners and group members can modify new files by default. The command that is used to configure the default permissions for new files is umask. This is the correct answer to the question. The other options are incorrect because they either do not set the default permissions for new files (setenforce, sudo, or chmod) or do not exist (kill -HUP or kill -TERM). Reference: CompTIA Linux+ (XK0-005) Certification Study Guide, Chapter 11: Managing File Permissions and Ownership, page 349.

NEW QUESTION # 45

A systems administrator is investigating an issue in which one of the servers is not booting up properly. The journalctl entries show the following:

```
Sep 16 20:30:43 server kernel: acpi PNP0A03:00: _OSC failed (AE_NOT_FOUND);
-- Subject: Unit dev-mapper-centos\x2dapp.device has failed
Sep 16 20:32:15 server systemd[1]: Dependency failed for /opt/app
-- Subject: Unit opt-app.mount has failed
-- Unit opt-app.mount has failed
Sep 16 20:32:15 server systemd[1]: Dependency failed for Local File Systems.
-- Subject: Unit local-fs.target has failed
-- Unit local-fs.target has failed.
Sep 16 20:32:15 server systemd[1]: Dependency failed for Relabel all filesystem, if necessary.
-- Subject: Unit rhel-autorelabel.service has failed
-- Unit rhel-autorelabel.service has failed.
```

Which of the following will allow the administrator to boot the Linux system to normal mode quickly?

- A. Perform filesystem checks on local filesystems and reboot.
- B. Comment out the /opt/app filesystem in /etc/fstab and reboot.
- C. Trigger a filesystem relabel and reboot.
- D. Reformat the /opt/app filesystem and reboot.

Answer: B

Explanation:

Explanation

The fastest way to boot the Linux system to normal mode is to comment out the /opt/app filesystem in /etc/fstab and reboot. This will prevent the system from trying to mount the /opt/app filesystem at boot time, which causes an error because the filesystem does not exist or is corrupted. Commenting out a line in /etc/fstab can be done by adding a # symbol at the beginning of the line. Rebooting the system will apply the changes and allow the system to boot normally. Reformatting the /opt/app filesystem will not help to boot the system, as it will erase any data on the filesystem and require manual intervention to create a new filesystem.

Performing filesystem checks on local filesystems will not help to boot the system, as it will not fix the missing or corrupted /opt/app filesystem. Triggering a filesystem relabel will not help to boot the system, as it will only change the security context of files and directories according to SELinux policy. References: CompTIA Linux+ (XK0-005) Certification Study Guide, Chapter 14: Managing Disk Storage, page 456.

NEW QUESTION # 46

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