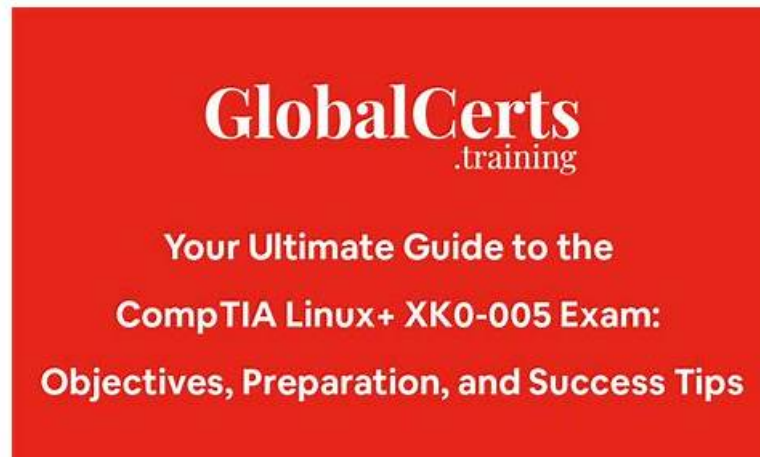


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## CompTIA Linux+ Certification Exam Sample Questions (Q416-Q421):

### NEW QUESTION # 416

A Linux administrator is troubleshooting SSH connection issues from one of the workstations.

When users attempt to log in from the workstation to a server with the IP address 104.21.75.76, they receive the following message:

□ The administrator reviews the information below:

□ Which of the following is causing the connectivity issue?

- A. The server has an incorrect default gateway configuration.
- B. The sshd service is disabled.
- C. The workstation has the wrong IP settings.
- D. The server's firewall is preventing connections from being made.

**Answer: D**

Explanation:

The server's firewall is preventing connections from being made, which is causing the connectivity issue. The output of `iptables -L -n`

shows that the firewall is blocking all incoming traffic on port 22, which is the default port for SSH. The output of `ssh -v user@104.21.75.76` shows that the connection is refused by the server. To resolve the issue, the administrator needs to allow port 22 on the firewall. The other options are incorrect because they are not supported by the outputs. The workstation has the correct IP settings, as shown by the output of `ip addr show`. The `sshd` service is enabled and running, as shown by the output of `systemctl status sshd`. The server has the correct default gateway configuration, as shown by the output of `ip route show`. References: CompTIA Linux+ (XK0-005) Certification Study Guide, Chapter 13: Managing Network Services, pages 406-407.

#### NEW QUESTION # 417

A user is asking the systems administrator for assistance with writing a script to verify whether a file exists.

Given the following:

□ Which of the following commands should replace the <CONDITIONAL> string?

- A. `if [ -f "$filename" ]; while`
- B. `if [ -f "$filename" ] then`
- C. `if [ -f "$filename" ]; then`
- D. `if [ -d "$filename" ]; then`

**Answer: C**

Explanation:

The command `if [ -f "$filename" ]; then` checks if the variable `$filename` refers to a regular file that exists.

The `-f` option is used to test for files. If the condition is true, the commands after `then` are executed. This is the correct way to replace the <CONDITIONAL> string. The other options are incorrect because they either use the wrong option (`-d` tests for directories), the wrong syntax (missing a semicolon after the condition), or the wrong keyword (`while` is used for loops, not conditions).

References: CompTIA Linux+ (XK0-005) Certification Study Guide, Chapter 16: Writing and Executing Bash Shell Scripts, page 493.

#### NEW QUESTION # 418

A systems administrator is troubleshooting connectivity issues and trying to find out why a Linux server is not able to reach other servers on the same subnet it is connected to. When listing link parameters, the following is presented:

□ Based on the output above, which of following is the MOST probable cause of the issue?

- A. The network interface cable is not connected to a switch.
- B. The Ethernet broadcast address should be `ac:00:11:22:33:ff` instead.
- C. The address `ac:00:11:22:33:cd` is not a valid Ethernet address.
- D. The network interface `eth0` is using an old kernel module.

**Answer: A**

Explanation:

The most probable cause of the connectivity issue is that the network interface cable is not connected to a switch. This can be inferred from the output of the `ip link list dev eth0` command, which shows that the network interface `eth0` has the `NO-CARRIER` flag set. This flag indicates that there is no physical link detected on the interface, meaning that the cable is either unplugged or faulty. The other options are not valid causes of the issue. The address `ac:00:11:22:33:cd` is a valid Ethernet address, as it follows the format of six hexadecimal octets separated by colons. The Ethernet broadcast address should be `ff:ff:ff:ff:ff:ff`, which is the default value for all interfaces. The network interface `eth0` is not using an old kernel module, as it shows the `UP` flag, which indicates that the interface is enabled and ready to transmit data. References: CompTIA Linux+ (XK0-005) Certification Study Guide, Chapter 14: Managing Networking

#### NEW QUESTION # 419

A Linux administrator was informed that the server time zone is incorrect. Which of the following commands should the administrator use to correct the time zone?

- A. `systemctl configure-timezone Africa/Nairobi`
- B. `tzconfig configure Europe/London`
- C. `systemd-timezone set Asia/Tokyo`
- D. `timedatectl set-timezone America/New_York`

**Answer: D**

Explanation:

In modern Linux distributions using systemd, the correct way to change the system time zone is by using the `timedatectl` command:

cpp

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```
timedatectl set-timezone <TimeZone>
```

For example, to set the time zone to America/New\_York, the command would be:

cpp

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```
timedatectl set-timezone America/New_York
```

\* Why the other options are incorrect?

\* B. `systemd-timezone set Asia/Tokyo` # Incorrect, as there is no `systemd-timezone` command in Linux.

\* C. `systemctl configure-timezone Africa/Nairobi` # Incorrect, `systemctl` does not have a `configure-timezone` option.

\* D. `tzconfig configure Europe/London` # Incorrect, `tzconfig` was used in older Debian-based systems, but it has been deprecated in favor of `timedatectl`.

References:

\* CompTIA Linux+ Official Documentation

\* `timedatectl` Documentation - Red Hat

### NEW QUESTION # 420

A Linux administrator is troubleshooting a memory-related issue. Based on the output of the commands:

Which of the following commands would address the issue?

- A. `kill -9 8321`
- B. `renice -10 8321`
- C. `top -p 8321`
- D. `free 8321`

**Answer: A**

Explanation:

The command that would address the memory-related issue is `kill -9 8321`. This command will send a SIGKILL signal to the process with the PID 8321, which is the `mysqld` process that is using 99.7% of the available memory according to the `top` output. The SIGKILL signal will terminate the process immediately and free up the memory it was using. However, this command should be used with caution as it may cause data loss or corruption if the process was performing some critical operations.

### NEW QUESTION # 421

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