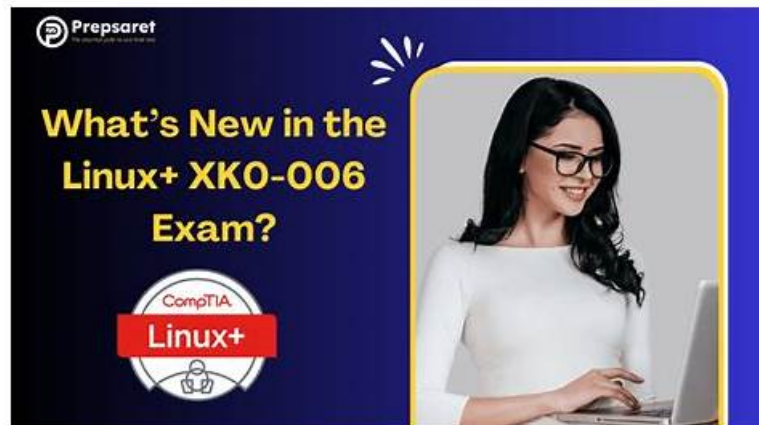


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## CompTIA XK0-006 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>Automation, Orchestration, and Scripting: Covers task automation with tools like Ansible, shell and Python scripting, Git version control, and responsible AI-assisted development.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>Troubleshooting: Addresses diagnosing and resolving issues across system health, hardware, storage, networking, security configurations, and performance optimization.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>Services and User Management: Covers day-to-day Linux administration including file management, user accounts, processes, software, services, and container operations.</li></ul>
Topic 4	<ul style="list-style-type: none"><li>Security: Focuses on securing Linux systems through authentication, firewalls, OS hardening, account policies, cryptography, and compliance checks.</li></ul>

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## CompTIA Linux+ Certification Exam Sample Questions (Q26-Q31):

NEW QUESTION # 26

A technician wants to temporarily use a Linux virtual machine as a router for the network segment 10.10.204.0/24. Which of the following commands should the technician issue? (Select three).

- A. `iptables -t nat -s 10.10.204.0/24 -A POSTROUTING -j MASQUERADE`
- B. `echo "0" > /proc/sys/net/ipv4/ip_forward`
- C. `iptables -t nat -s 10.10.204.0/24 -p tcp -A PREROUTING -j MASQUERADE`
- D. `iptables -A FORWARD -j ACCEPT`
- E. `echo "1" > /proc/sys/net/ipv4/ip_forward`
- F. `iptables -t nat -A PREROUTING -j MASQUERADE`
- G. `echo "1" > /proc/net/tcp`
- H. `iptables -A PREROUTING -j ACCEPT`

**Answer: A,D,E**

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

To temporarily configure a Linux virtual machine as a router, the technician must enable IP forwarding and set up iptables rules to allow and masquerade traffic:

\* A. `echo "1" > /proc/sys/net/ipv4/ip_forward`: Enables IPv4 forwarding in the Linux kernel, allowing the VM to forward packets between interfaces.

\* B. `iptables -A FORWARD -j ACCEPT`: Adds a rule to the iptables firewall to accept all forwarded packets (allows traffic to be routed).

\* G. `iptables -t nat -s 10.10.204.0/24 -A POSTROUTING -j MASQUERADE`: Sets up network address translation (NAT) for outgoing packets from the 10.10.204.0/24 subnet, masquerading them as if they are coming from the VM's external IP.

Other options:

\* C. and H. are not relevant for routing/NAT in this context (PREROUTING is generally used for DNAT, not for standard source NAT).

\* D. is syntactically incorrect and mixes PREROUTING with MASQUERADE, which is not the proper combination for SNAT.

\* E. disables forwarding.

\* F. is not related to IP forwarding.

Reference:

CompTIA Linux+ Study Guide: Exam XK0-006, Sybex, Chapter 9: "Networking", Section: "Configuring Linux as a Router"

CompTIA Linux+ XK0-006 Objectives: Domain 2.0 - Networking Official CompTIA Linux+ Cert Guide, Chapter 12: "Firewall and NAT configuration"

### NEW QUESTION # 27

Which of the following technologies is used to authenticate users on a Linux server when working in a Windows domain?

- A. Kerberos
- B. SSH Daemon
- C. PAM
- D. Samba

**Answer: A**

Explanation:

Kerberos provides centralized, ticket-based authentication and is the core authentication mechanism used by Windows Active Directory, allowing Linux systems joined to a Windows domain to authenticate users securely.

### NEW QUESTION # 28

Following the completion of monthly server patching, a Linux administrator receives reports that a critical application is not functioning. Which of the following commands should help the administrator determine which packages were installed?

- A. `dnf history`
- B. `dnf search`
- C. `dnf list`
- D. `dnf info`

**Answer: A**

Explanation:

The `dnf history` command shows a log of past package operations (install, update, remove), allowing the administrator to review which packages were installed or updated during the patching process.

### NEW QUESTION # 29

Which of the following actions is required to establish passwordless SSH authentication?

- A. Generate public and private keys on the remote server.
- B. Copy the public and private keys to the remote server.
- C. Copy the private SSH key to the remote server.
- D. Copy the public SSH key to the remote server.

**Answer: D**

Explanation:

Copying the public SSH key to the remote server's `authorized_keys` file is all that's needed to enable passwordless SSH authentication.

### NEW QUESTION # 30

#### SIMULATION 3

You are a systems administrator and have created an uncompressed backup of the application directory. Several hours later, you must restore the application from backup.

#### INSTRUCTIONS

Within each tab, click on an object to form the appropriate command used to create the backup and restore the application.

Command objects may only be used once, but the spacebar object may be used multiple times.

Not all objects will be used. Click the arrow to remove any unwanted objects from your command.

If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

The screenshot shows a simulation interface for creating a backup command. The interface has a blue header with the word "Backup" on the left and "CompTIA" in the center. Below the header is a grid of 18 orange buttons arranged in 6 rows and 3 columns. The buttons contain the following text:

-cvf	-xvf	/opt/
-d	-xzvf	/
application	-tvf	/home/
-Cvf	-C	-xjvf
/backups/application.tar.gz	/backups/application.tar	/backups/application.tgz
⌫	/backups/application.tar.bz2	-C

At the bottom of the interface, there is a command input field. The word "tar" is on the left, followed by a black input box, and the word "Backup" is on the right.

Restore Backup **CompTIA**

-cvf	-xvf	/opt/
-d	-xzvf	/
application	-tvf	/home/
-cJvf	-C	-xjvf
/backups/application.tar.gz	/backups/application.tar	/backups/application.tgz
-u	/backups/application.tar.bz2	-C

tar  Restore

**Answer:**

**Explanation:**

Backup Restore

-cvf	-xvf	/opt/
-d	-xzvf	/
application	-tvf	/home/
-cJvf	-C	-xjvf
/backups/application.tar.gz	/backups/application.tar	/backups/application.tgz
-u	/backups/application.tar.bz2	-C

tar tar -cvf /backups/application.tar -C /opt/ application Backup

**CompTIA**

The screenshot shows a backup utility interface with a 'Backup' tab selected. It features a grid of buttons for various options and paths. A terminal window at the bottom displays the command `tar -xvf /backups/application.tar -C /opt/` and a 'Restore' button.

-cvf creates (-c) a verbose (-v) archive file (-f) named /backups/application.tar.  
 -C /opt/ application changes to /opt/ so only the relative application directory is saved, avoiding absolute paths.  
 -xvf extracts (-x) the same archive, and -C /opt/ restores the contents back into the original location.

### NEW QUESTION # 31

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