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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>Services and User Management: Covers day-to-day Linux administration including file management, user accounts, processes, software, services, and container operations.</li> </ul>
Topic 3	<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>
Topic 4	<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>

## CompTIA Linux+ Certification Exam Sample Questions (Q131-Q136):

### NEW QUESTION # 131

A DevOps engineer needs to create a local Git repository. Which of the following commands should the engineer use?

- A. git add
- B. git clone
- C. git config
- D. git init

**Answer: D**

### NEW QUESTION # 132

While reviewing local accounts on a server, a Linux administrator discovers that multiple users have not changed their passwords in more than a year. Which of the following commands should the administrator execute to bring the users' accounts into compliance with the 90-day guideline?

- A. usermod -aG 90
- B. chage -M 90
- C. passwd -d 90
- D. loginctl -H 90

**Answer: B**

Explanation:

The chage command is used to manage password aging policies, and setting the maximum password age to 90 days enforces the required password change interval for user accounts.

### NEW QUESTION # 133

To perform a live migration, which of the following must match on both host servers? (Choose two)

- A. Disk storage path
- B. CPU architecture
- C. USB ports
- D. Network speed
- E. Available memory
- F. Available swap

**Answer: B,E**

Explanation:

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

Live migration is a virtualization feature that allows a running virtual machine to be moved from one host to another with minimal or no downtime. This topic falls under System Management in the CompTIA Linux+ V8 objectives, particularly in the areas of virtualization and resource management.

For a live migration to succeed, the CPU architecture must match between the source and destination hosts.

This is critical because the running virtual machine's CPU state, instruction set, and registers must be compatible with the destination system. Migrating between different CPU architectures (for example, x86\_64 to ARM) is not supported and would cause the virtual machine to fail. Therefore, option D is required.

Additionally, the destination host must have sufficient available memory to accommodate the virtual machine being migrated. During live migration, the memory contents of the running VM are copied from the source host to the destination host while the VM continues to run. If enough memory is not available, the migration cannot complete successfully. This makes option E mandatory.

The other options are not strict requirements. USB ports do not need to match for live migration. Network speed may affect migration performance but does not need to be identical. Available swap space is not directly required for migration. Disk storage paths do not need to match as long as shared storage or compatible storage access is available.

Linux+ V8 documentation emphasizes CPU compatibility and memory availability as core prerequisites for live migration. Therefore, the correct answers are D and E.

### NEW QUESTION # 134

An average of one out of three users in a company cannot reach the company website. A Linux administrator determines that one of the three website servers is down. The administrator inspects the DNS configuration for the website and notices the following entry:

Which of the following accurately explains the issue?

- A. DNS returns all three records in a different order each time, and the browser typically uses the first address in the DNS response.
- B. The administrator has incorrectly configured the DNS server to be an iterative resolver instead of an authoritative resolver.
- C. One of the DNS records has not been signed with a DNSSEC-supported key, and this is causing some web browsers to reject the DNS response.
- D. The DNS configuration is missing corresponding AAAA records and PTR records, and this is causing clients to fail the hostname translation.

**Answer: A**

Explanation:

With multiple A records, DNS performs simple round-robin ordering and returns the records in a different sequence on each query. Most clients try the first address returned-so when the downed server's IP appears first (about one in three times), those users cannot connect.

### NEW QUESTION # 135

Joe, a user, has taken a position previously held by Ann. As a systems administrator, you need to archive all the files from Ann ' s home directory and extract them into Joe ' s home directory.

INSTRUCTIONS

Within each tab, click on an object to form the appropriate commands. Command objects may only be used once, but the spacebar \_ object may be used multiple times. Not all objects will be used.

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

□

**Answer:**

Explanation:

See the solution in Explanation below.

Explanation:

Archive Tab - Create the archive from Ann's home directory

Correct Command:

```
tar -cvf /tmp/ann.tar -C /home/ ann
```

Extract Tab - Extract the archive into Joe's home directory

Correct Command:

```
tar -xvf /tmp/ann.tar -C /home/ joe
```

This performance-based question tests file archiving and restoration using tar, a core System Management skill in the CompTIA Linux+ V8 objectives. The task requires preserving Ann's files and placing them correctly into Joe's home directory.

# Archive Phase Explanation

The goal of the first step is to archive Ann's entire home directory without embedding the full path (/home /ann) inside the archive. This is accomplished using the -C option.

Command breakdown:

```
tar # archive utility
-c # create an archive
-v # verbose output (optional but allowed)
-f/tmp/ann.tar # specifies the archive file
-C /home/ # changes directory before archiving
ann # archives the ann directory only
```

This results in a clean archive containing Ann's files without absolute paths, which is best practice and explicitly covered in Linux+ V8 documentation.

# Extract Phase Explanation

The second step extracts the archived files into Joe's home directory.

Command breakdown:

```
-x # extract
-v # verbose
-f/tmp/ann.tar # specifies the archive
-C /home/joe # extracts files directly into Joe's home directory
```

This ensures Joe receives Ann's files correctly under /home/joe/ann or directly under /home/joe depending on post-extraction handling, which matches Linux+ expectations for administrative user transitions.

## NEW QUESTION # 136

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