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## CompTIA Linux+ Certification Exam Sample Questions (Q23-Q28):

### NEW QUESTION # 23

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. Available swap
- D. USB ports
- E. Available memory
- F. Network speed

**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 # 24

Which of the following commands should an administrator use to convert a KVM disk file to a different format?

- A. qemu-io
- **B. qemu-img**
- C. qemu-vg
- D. qemu-kvm

**Answer: B**

Explanation:

The `qemu-img` command is used to create, convert, and manage disk image files for KVM/QEMU. It allows conversion between formats such as `qcow2`, `raw`, and `vmdk`.

#### NEW QUESTION # 25

Which of the following utilities supports the automation of security compliance and vulnerability management?

- A. SELinux
- B. AIDE
- C. Nmap
- **D. OpenSCAP**

**Answer: D**

Explanation:

Security compliance and vulnerability management are critical components of Linux system administration, and CompTIA Linux+ V8 places strong emphasis on automated security assessment tools. OpenSCAP is specifically designed to address these requirements. OpenSCAP is an open-source framework that implements the Security Content Automation Protocol (SCAP), a set of standards used for automated vulnerability scanning, configuration compliance checking, and security auditing. It allows administrators to assess Linux systems against established security baselines such as CIS benchmarks, DISA STIGs, and organizational security policies. This makes OpenSCAP the most appropriate tool for automating both compliance and vulnerability management.

The other options serve different security-related purposes but do not fulfill the automation requirement.

SELinux is a mandatory access control system that enforces security policies at runtime but does not perform compliance scanning or vulnerability assessments. Nmap is a network scanning and discovery tool used to identify open ports and services, not compliance automation. AIDE (Advanced Intrusion Detection Environment) is a file integrity monitoring tool that detects unauthorized file changes but does not evaluate overall system compliance.

Linux+ V8 documentation highlights OpenSCAP as a tool used to automate security audits, generate compliance reports, and integrate with configuration management workflows. Its ability to standardize security checks across multiple systems makes it essential in enterprise and regulated environments.

Therefore, the correct answer is D. OpenSCAP.

#### NEW QUESTION # 26

A systems administrator is preparing a Linux system for application setup. The administrator needs to create an environment variable with a persistent value in one of the user accounts. Which of the following commands should the administrator use for this task?

- A. VAR=value
- B. echo "export VAR=value">>> ~/.bashrc
- C. export VAR=value
- D. export "VAR=SomeValue">>> ~/.ssh/profile

**Answer: B**

Explanation:

Environment variables are widely used in Linux systems to configure application behavior, and Linux+ V8 emphasizes the distinction between temporary and persistent variables. A variable is persistent only if it is defined in a shell initialization file.

The correct approach is echo "export VAR=value">>> ~/.bashrc. This command appends the variable definition to the user's .bashrc file, ensuring the variable is set automatically every time the user starts a new shell session. This makes the variable persistent for that specific user.

Options B and C only define variables in the current shell session and are lost when the session ends. Option A incorrectly targets the SSH configuration directory and is not appropriate for defining shell environment variables.

Linux+ V8 documentation highlights .bashrc, .bash\_profile, and /etc/profile as correct locations for persistent environment variables. Therefore, the correct answer is D.

**NEW QUESTION # 27**

Which of the following describes PEP 8?

- A. A package installer for Python
- B. A Python variable holding octal values
- C. The style guide for Python code
- D. Python virtual environments

**Answer: C**

Explanation:

PEP 8 is the official Python Enhancement Proposal that provides coding style guidelines for writing clean, consistent, and readable Python code.

**NEW QUESTION # 28**

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