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## CompTIA Linux+ Certification Exam Sample Questions (Q130-Q135):

### NEW QUESTION # 130

Which of the following Ansible components contains a list of hosts and host groups?

- A. Inventory
- B. Collection
- C. Playbook
- D. Fact

**Answer: A**

Explanation:

Ansible architecture and core components are part of the Automation, Orchestration, and Scripting domain in CompTIA Linux+ V8. Among these components, the inventory plays a foundational role in defining the infrastructure Ansible manages.

An Ansible inventory is a file (or set of files) that contains a list of managed hosts and optionally organizes them into logical groups. These hosts can be defined by IP address, fully qualified domain name (FQDN), or hostname. Inventories may be written in INI, YAML, or dynamically generated formats. Grouping hosts allows administrators to apply configurations, roles, and tasks to multiple systems simultaneously.

Option B, Inventory, is correct because it explicitly defines which systems Ansible will target. Without an inventory, Ansible does not know where to execute tasks. Linux+ V8 documentation emphasizes inventories as the starting point for all Ansible operations. The other options are incorrect. Facts are system variables automatically collected by Ansible about managed hosts, such as OS version or IP address. Playbooks define what actions to perform but rely on the inventory to know where to perform them. Collections are distribution units that package roles, modules, and plugins, not host definitions. Therefore, the correct answer is B. Inventory.

### NEW QUESTION # 131

Which of the following allows modules to be used in Python scripts?

- A. `__name__`
- B. `det`
- C. `__init__`
- D. `import`

**Answer: D**

Explanation:

This statement makes functions, classes, and variables from a module available for use within a Python script, enabling modular and reusable code.

### NEW QUESTION # 132

A Linux user needs to authenticate to a Windows Active Directory domain. Which of the following configuration files contains the domain configuration details?

- A. `pam.conf`
- B. `auditd.conf`
- C. `smb.conf`
- D. `sssd.conf`

**Answer: D**

Explanation:

The `sssd.conf` file contains the configuration for System Security Services Daemon, including Active Directory domain details used for authenticating Linux users against a Windows Active Directory domain.

### NEW QUESTION # 133

Which of the following is the best use of AI within a Linux environment?

- A. Uploading company internal messaging for user validation
- B. **Generating an `nginx` configuration file that can be used for testing**
- C. Outsourcing proprietary source code development to the LLM
- D. Giving full control of the Linux server to the AI engine

**Answer: B**

Explanation:

As AI and Large Language Models (LLMs) become integrated into IT workflows, CompTIA Linux+ V8 emphasizes the responsible and secure use of these tools. AI can significantly improve administrative efficiency when used as an assistant for repetitive or boilerplate tasks, but it introduces significant security and ethical risks if not governed properly.

The best and most appropriate use of AI among the options provided is generating configuration files for testing (Option B). AI is highly effective at creating standard templates, such as NGINX server blocks, systemd unit files, or basic shell scripts. This allows an administrator to quickly prototype a configuration.

However, the Linux+ curriculum stresses that any AI-generated output must be reviewed, linted, and tested by a human

administrator before being moved to production.

The other options represent major security or professional risks:

\* Option A: Giving full control to an AI engine is a violation of the principle of accountability and poses a significant risk to system stability and security.

\* Option B: Uploading internal messaging or sensitive data to a public LLM can lead to intellectual property leaks and violations of privacy regulations.

\* Option C: Outsourcing proprietary source code to a public AI model exposes the company's code base to external parties and may create licensing issues.

Using AI for generating non-sensitive configuration templates for development and testing environments is the verified best practice for leveraging these technologies securely in a Linux environment.

### NEW QUESTION # 134

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

**Answer: B**

Explanation:

Package management troubleshooting is a critical Linux administration skill addressed in CompTIA Linux+ V8. After system patching, identifying which packages were installed, updated, or removed is often the first step in diagnosing application failures.

The `dnf history` command is specifically designed for this purpose. It displays a chronological list of all DNF transactions, including installations, upgrades, downgrades, and removals. Each transaction is assigned an ID and includes timestamps, affected packages, and actions taken. This allows administrators to correlate application failures with recent changes.

Option A is correct because it provides historical context rather than just current package state. Linux+ V8 documentation highlights `dnf history` as an essential auditing and rollback tool.

The other options are insufficient. `dnf list` shows installed or available packages but does not indicate when they were installed. `dnf info` displays metadata for a specific package but does not show transaction history.

`dnf search` is used to find packages by name or description.

By reviewing recent transactions with `dnf history`, administrators can quickly identify problematic updates and take corrective action, such as rolling back a package.

Therefore, the correct answer is A.

### NEW QUESTION # 135

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