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CompTIA XK0-006 Exam Syllabus Topics:

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

>> XK0-006 Customized Lab Simulation <<

Quiz 2026 CompTIA XK0-006: Unparalleled CompTIA Linux+ Certification Exam Customized Lab Simulation

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CompTIA Linux+ Certification Exam Sample Questions (Q22-Q27):

NEW QUESTION # 22

A DevOps engineer made some changes to files on a local repository. The engineer realizes that the changes broke the application and the changes need to be reverted back. Which of the following commands is the best way to accomplish this task?

- A. git reset
- B. git pull
- C. git stash
- D. git rebase

Answer: A

Explanation:

The git reset command reverts changes in the local repository to a previous commit, effectively discarding the problematic modifications and restoring the application to a working state.

NEW QUESTION # 23

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

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

Answer: B

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 # 24

Users are unable to ping hosts on the same network segment using their hostname:

```
# ping host1
```

```
ping: host1: Temporary failure in name resolution
```

Users are only able to reach the hosts when using their FQDN, such as

```
host1.comptia.local.
```

A Linux administrator connects to the system and obtains the following output:

```
# resolvectl status
Global
    Protocols: LLMNR=resolve -mDNS -DNSOverTLS DNSSEC=no/unsupported
    resolv.conf mode: stub
[...]
Current DNS Server: 192.168.1.2
    DNS Servers: 192.168.1.2
    DNS Domain:
```

```
# cat /etc/resolv.conf | grep -v "#"
nameserver 192.168.1.2
search
```

Which of the following actions should the administrator take to resolve the issue?

- A. Add host1.comptia.local. to /etc/hosts.allow
- B. Add a DNS A record for the specific hosts

- C. Add another DNS server entry to /etc/resolv.conf
- D. Add the search domain to the network configuration

Answer: D

Explanation:

The system can resolve fully qualified domain names but fails when resolving short hostnames because no DNS search domain is configured. Adding the appropriate search domain allows the resolver to automatically append the domain to short hostnames during name resolution.

NEW QUESTION # 25

A systems administrator attempts to edit a file as root, but receives the following error:

```
E212: Cannot open file for writing

# ls -l /etc/resolv.conf
-rw-----. 1 root admin 141 May 30 11:00 /etc/resolv.conf

# lsattr /etc/resolv.conf
----i----- /etc/resolv.conf
```

Which of the following commands allows the administrator to edit the file?

- A. chgrp root /etc/resolv.conf
- B. chmod 750 /etc/resolv.conf
- C. chattr -i /etc/resolv.conf
- D. chown root /etc/resolv.conf

Answer: C

Explanation:

The lsattr output shows the immutable (i) attribute set on /etc/resolv.conf. This prevents any modifications, even by root. Running chattr -i removes the immutable flag, allowing the administrator to edit the file.

NEW QUESTION # 26

An

administrator is investigating the reason a Linux workstation is not resolving the website <http://www.comptia.org>. The administrator executes some commands and receives the following output:

```
dig 104.18.16.29 www.comptia.org +short
104.18.16.29

$ nslookup -querytype=A www.comptia.org
...
Name: www.comptia.org
Address: 104.18.16.29

$ nslookup -querytype=AAAA www.comptia.org
...
** Can't find www.comptia.org: No answer

$ ping -4 www.comptia.org
PING www.comptia.org (104.18.99.101)
From somehost (192.168.1.192) icmp_seq=3 Destination Host Unreachabl
...

$ cat /etc/hosts
127.0.0.1 localhost localhost.localdomain
104.18.99.101 www.comptia.org
```

Which of the following is the most likely cause?

- A. The remote website does not support IPv6, and the workstation requires it.
- **B. The static entry needs to be removed from /etc/hosts.**
- C. The nameserver in /etc/resolv.conf needs to be updated to 8.8.8.8
- D. The firewall needs to be modified to allow outbound HTTP and HTTPS.

Answer: B

Explanation:

When troubleshooting name resolution issues in Linux, /etc/hosts entries take precedence over DNS lookups.

The workstation's /etc/hosts file contains the line:

CopyEdit

```
104.18.99.101 www.comptia.org
```

This means any attempt to access www.comptia.org will resolve to 104.18.99.101, regardless of the real DNS response. However, both dig and nslookup show the correct IP as 104.18.16.29. Because the local /etc/hosts entry overrides DNS, and the hardcoded IP is either incorrect or unreachable, all network traffic to www.

comptia.org will fail or not reach the intended destination, resulting in the observed connectivity issue (Destination Host Unreachable).

Other options:

- * B. The lack of IPv6 support is irrelevant since the host is using IPv4 and the DNS queries for IPv4 (A record) are successful.
- * C. The firewall would block all HTTP/HTTPS connections, but the error shown is a host unreachable, not a port-specific issue.
- * D. The nameserver is working; both dig and nslookup queries succeed and return the correct A record.

Reference:

CompTIA Linux+ Study Guide: Exam XK0-006, Sybex, Chapter 8: "Networking Fundamentals", Section: "Troubleshooting Name Resolution"

CompTIA Linux+ XK0-006 Objectives, Domain 2.0: Networking

NEW QUESTION # 27

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