Vendor: CompTIA

Exam Code: XK0-006

Exam Name: CompTIA Linux+ XK0-006 Exam

Version: DEMO

QUESTION 1
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. `export "VAR=$VAR:value" >> ~/.ssh/profile`
B. `export VAR=value`
C. `VAR=value`
D. `echo "export VAR=value" >> ~/.bashrc`

Answer: D
Explanation:
Adding export VAR=value to ~/.bashrc ensures the environment variable is set persistently for the user. The variable will load automatically in every new shell session.

QUESTION 2
Which of the following describes PEP 8?

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

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

QUESTION 3
While hardening a system, an administrator runs a port scan with Nmap, which returned the following output:

```
# nmap 104.21.75.76
Starting Nmap 7.80 ( https://nmap.org ) at 2024-07-09 18:09 UTC
Nmap scan report for 104.21.75.76
Host is up (0.00087s latency).
Not shown: 996 closed ports
PORT STATE SERVICE
23/tcp open telnet
80/tcp open http
443/tcp open https
8080/tcp open http-proxy

Nmap done: 1 IP address (1 host up) scanned in 4.93 seconds
```

Which of the following is the best way to address this security issue?

A. Configuring a firewall to block traffic on port 23 on the server
B. Changing the systems administrator's password to prevent unauthorized access

C. Closing port 80 on the network switch to block traffic
D. Disabling and removing the Telnet service on the server

Answer: D
Explanation:
Port 23/tcp indicates Telnet, which is insecure because it transmits data in plaintext. The best hardening approach is to disable and remove the Telnet service entirely, eliminating the vulnerability rather than just blocking it at the firewall. Secure alternatives like SSH should be used instead.

QUESTION 4
A DevOps engineer needs to create a local Git repository. Which of the following commands should the engineer use?

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

Answer: A
Explanation:
The git init command initializes a new, empty Git repository in the current directory, making it the correct choice for creating a local repository.

QUESTION 5
A systems administrator needs to enable routing of IP packets between network interfaces. Which of the following kernel parameters should the administrator change?

A. `net.ipv4.ip_multicast`
B. `net.ipv4.ip_route`
C. `net.ipv4.ip_local_port_range`
D. `net.ipv4.ip_forward`

Answer: D
Explanation:
The net.ipv4.ip_forward kernel parameter controls whether the Linux kernel can forward IP packets between network interfaces, enabling routing functionality when set to 1.

QUESTION 6
A Linux user frequently tests shell scripts located in the `/home/user/scripts` directory. Which of the following commands allows the user to run the program by invoking only the script name?

A. `export SHELL=$SHELL=/home/user/scripts`
B. `export TERM=$TERM=/home/user/scripts`
C. `export PATH=$PATH:/home/user/scripts`
D. `export alias /home/user/scripts='/bin'`

Answer: C
Explanation:
By appending /home/user/scripts to the PATH environment variable, the user can execute scripts

from that directory by simply typing the script name without specifying the full path.

QUESTION 7
A systems administrator needs to check the statuses of all the services on a Linux server. Which of the following commands accomplishes this task?

A. `systemctl is-active --services`
B. `systemctl list-sockets --type-services`
C. `systemctl is-enabled --services`
D. `systemctl list-units --type-services`

Answer: D
Explanation:
The systemctl list-units --type=service command displays all loaded service units and their statuses (running, exited, failed, etc.), allowing the administrator to check the state of all services on the server.

QUESTION 8
Which of the following cryptographic functions ensures a hard drive is encrypted when not in use?

A. GPG
B. LUKS
C. PKI certificates
D. OpenSSL

Answer: B
Explanation:
LUKS (Linux Unified Key Setup) provides full-disk encryption, ensuring that the data on a hard drive is protected and unreadable when the system is powered off or the drive is not in use.

QUESTION 9
Which of the following **most** accurately describes a webhook?

A. An authentication method for web-server communication
B. An SNMP-based API for network device monitoring
C. A means to transmit sensitive information between systems
D. An HTTP-based callback function

Answer: D
Explanation:
A webhook is an HTTP-based callback that allows one system to send real-time data or notifications to another system when an event occurs.

QUESTION 10
An administrator attempts to install updates on a Linux system but receives error messages regarding a specific repository. Which of the following commands should the administrator use to verify that the repository is installed and enabled?

A. `yum repo-pkgs`
B. `yum list installed repos`

C. `yum reposync available`
D. `yum repolist all`

Answer: D
Explanation:
The yum repolist all command lists all configured repositories along with their status (enabled or disabled), allowing the administrator to verify if the problematic repository is installed and active.

QUESTION 11
Which of the following is the **main** reason for setting up password expiry policies?

A. To avoid using the same passwords repeatedly
B. To mitigate the use of exposed passwords
C. To force usage of passwordless authentication
D. To increase password strength and complexity

Answer: B
Explanation:
Password expiry policies ensure that even if a password has been compromised, its period of validity is limited, reducing the risk of long-term unauthorized access.

QUESTION 12
A Linux administrator is making changes to local files that are part of a Git repository. The administrator needs to retrieve changes from the remote Git repository. Which of the following commands should the administrator use to save the local modifications for later review?

A. `git stash`
B. `git pull`
C. `git merge`
D. `git fetch`

Answer: A
Explanation:
The git stash command temporarily saves local modifications without committing them, allowing the administrator to safely run git pull or git fetch later and then reapply the saved changes.

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