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## CompTIA XK0-006 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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>• 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 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>

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### CompTIA Linux+ Certification Exam Sample Questions (Q95-Q100):

#### NEW QUESTION # 95

A systems administrator is configuring new Linux systems and needs to enable passwordless authentication between two of the servers. Which of the following commands should the administrator use?

- A. `ssh-agent -i rsa && ssh-copy-id ~/.ssh/key john@server2`
- B. `ssh-keygen -t rsa && ssh-copy-id -i ~/.ssh/id_rsa.pub john@server2`
- C. `ssh-keyscan -t rsa && ssh-copy-id john@server2 -i ~/.ssh/key`
- D. `ssh-add -t rsa && scp -rp ~/.ssh john@server2`

**Answer: B**

Explanation:

This command generates an SSH key pair and securely copies the public key to the remote server, enabling passwordless authentication by allowing key-based SSH login between the systems.

#### NEW QUESTION # 96

A systems administrator manages multiple Linux servers and needs to set up a reliable and secure way to handle the complexity of managing event records on the OS and application levels. Which of the following should the administrator do?

- A. Deploy log rotation procedures to manage the records.
- B. Create an automated process to retrieve logs from the server by demand.
- C. Configure daily automatic backups of logs to remote storage.
- D. **Implement a centralized log aggregation solution.**

**Answer: D**

Explanation:

Log management is a critical system management function highlighted in CompTIA Linux+ V8, particularly in multi-server environments. As the number of systems and applications grows, managing logs locally on each server becomes inefficient and error-prone.

The best solution is to implement a centralized log aggregation solution, making option B correct.

Centralized logging collects logs from multiple systems and applications into a single, secure location. This simplifies monitoring, searching, correlation, auditing, and incident response. Common solutions include syslog servers, ELK/EFK stacks, and SIEM platforms.

Linux+ V8 documentation emphasizes centralized logging as a best practice for availability, troubleshooting, and security analysis. It enables administrators to detect patterns, investigate incidents, and maintain compliance more effectively than isolated log files.

The other options are insufficient on their own. On-demand retrieval does not scale well. Log backups protect data but do not simplify analysis. Log rotation manages disk usage but does not address distributed log complexity.

Therefore, the correct answer is B. Implement a centralized log aggregation solution.

#### NEW QUESTION # 97

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-enabled --services`
- B. `systemctl list-sockets --type=services`

- C. `systemctl list-units --type=services`
- D. `systemctl is-active --services`

**Answer: C**

Explanation:

Service management using `systemd` is a core Linux+ V8 system management objective. Administrators frequently need to view the current status of all services to determine which ones are running, stopped, failed, or inactive.

The correct command is `systemctl list-units --type=services`, which displays all loaded service units along with their current state, including whether they are active, inactive, failed, or running. This provides a comprehensive, real-time view of service statuses on the system and is commonly used during troubleshooting and audits.

Option A, `systemctl is-active`, is designed to check the status of a single service, not all services. Option B lists socket units, not services. Option C, `systemctl is-enabled`, checks whether services are enabled at boot, not whether they are currently running. Linux+ V8 documentation explicitly references `systemctl list-units --type=service` as the primary command for viewing service runtime states. Therefore, the correct answer is D.

### NEW QUESTION # 98

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

**Answer: A**

Explanation:

In Linux, the ability to execute a program by typing only its name depends on whether the directory containing the executable is included in the user's `PATH` environment variable. The `PATH` variable defines a colon-separated list of directories that the shell searches when a command is entered.

Option C, `export PATH=$PATH:/home/user/scripts`, correctly appends the `/home/user/scripts` directory to the existing `PATH` variable. Once this command is executed, any executable script located in that directory can be run simply by typing its filename, provided the script has execute permissions. This behavior is explicitly covered in the Linux+ V8 objectives related to environment variables and shell configuration.

The other options are incorrect. Option A incorrectly attempts to redefine the `SHELL` variable and uses invalid syntax. Option B modifies the `TERM` variable, which controls terminal type and has nothing to do with command execution. Option D attempts to create an alias using invalid syntax and would not affect command lookup behavior.

Linux+ V8 documentation emphasizes modifying the `PATH` variable as the standard and recommended method for simplifying script execution. This approach is commonly used by developers and administrators who frequently run custom scripts.

Therefore, the correct answer is C.

### NEW QUESTION # 99

A Linux administrator receives reports about MySQL service availability issues. The administrator observes the following information:

`uptime -p` shows the system has been up for only 2 minutes

`journalctl` shows messages indicating:

`mysqld invoked oom-killer`

`mysqld cpuset=/ mems_allowed=0`

Which of the following explains why the server was offline?

- A. The process was intentionally terminated by a privileged user.
- B. **The process exhausted server memory.**
- C. The process crashed because of a filesystem error.
- D. A network outage caused a service availability issue.

**Answer: B**

Explanation:

This scenario clearly indicates a memory exhaustion condition, which falls under the Troubleshooting domain of the CompTIA Linux+ V8 objectives. The most critical clue is the log entry stating that mysqld invoked oom-killer.

The OOM (Out-Of-Memory) killer is a Linux kernel mechanism that activates when the system runs critically low on available memory and cannot satisfy memory allocation requests. When this happens, the kernel selects a process—typically one consuming a large amount of memory—and forcibly terminates it to protect overall system stability. In this case, the MySQL daemon (mysqld) was identified as the process responsible for triggering the OOM condition.

The journalctl output explicitly confirms this behavior. Linux+ V8 documentation emphasizes that when the OOM killer is invoked, it is almost always due to physical memory exhaustion or insufficient swap space, not user intervention or application bugs alone. The additional log line showing mems\_allowed=0 further supports the conclusion that the process could not allocate memory from available memory nodes.

The fact that uptime -p reports only 2 minutes of uptime strongly suggests that the system was either rebooted automatically or manually following the memory exhaustion event. Systems may reboot as part of recovery procedures after severe resource exhaustion, especially in production environments.

The other options can be ruled out. There is no indication of a user-initiated kill signal, filesystem corruption, or network connectivity issues. Network outages would not generate OOM killer messages, and filesystem errors would appear as I/O or disk-related errors in the logs.

Linux+ V8 best practices recommend addressing OOM issues by increasing system memory, tuning MySQL memory parameters, configuring swap space, or adjusting OOM scoring.

Therefore, the correct explanation is A. The process exhausted server memory.

## NEW QUESTION # 100

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