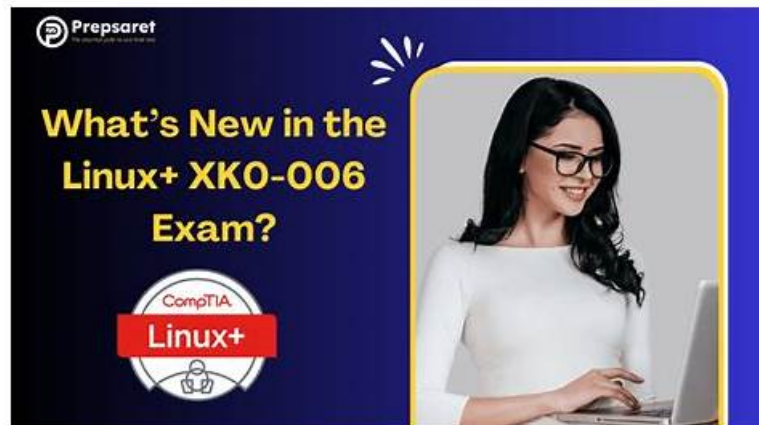


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CompTIA XK0-006 Exam Syllabus Topics:

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.

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CompTIA Linux+ Certification Exam Sample Questions (Q118-Q123):

NEW QUESTION # 118

A user on a Linux VM is running /work/test.shBash script and receives the following error:

bash: /work/test.sh: Permission denied

After further investigation, the user receives the following outputs:

```
# ls -l /work/test.sh
-rwxr--r--. 1 testuser test 512 Jul 12 2023 /work/test.sh

# mount
/dev/mapper/work on /work type xfs (rw,nosuid,nodev,noexec,relatime,seclabel,attr2,noquota)
```

Which of the following commands should a systems administrator run to fix the issue?

- A. `mount -o remount,suid /work`
- **B. `mount -o remount,exec /work`**
- C. `chmod o+x /work/test.sh`
- D. `chmod g+x /work/test.sh`

Answer: B

Explanation:

The script `/work/test.sh` already has execute permissions (`-rwxr--r--`), but the filesystem is mounted with the `noexec` option, which prevents execution of binaries and scripts. Remounting the filesystem with the `exec` option allows execution of the script.

NEW QUESTION # 119

Which of the following most accurately describes a webhook?

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

Answer: C

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.

NEW QUESTION # 120

User1 reports "access denied" errors while trying to execute app. Given the following outputs:

```
[devops@training data]$ id user1
uid=1011(user1) gid=1011(user1) groups=1011(user1)
```

```
$ ls -la app
-rwxrwx---. 1 devops devops 5423 Jan 3 2022 app
```

```
$ getfacl app
# file: app
# owner: devops
# group: devops
user::rwx
user:user1:rw
group::rwx
other:----
```

Which of the following options will remediate this issue?

- **A. Providing execute permissions to user1 in the ACL**
- B. Modifying the permissions for others to grant read, write, and execute
- C. Adding user1 to the wheel group
- D. Moving app to a different folder

Answer: A

Explanation:

According to the output of `getfacl` app, user1 has only "rw" (read and write) permissions, but lacks "x" (execute). Without execute permission, user1 cannot run the file. To allow user1 to execute app, you must update the ACL to add execute permission (e.g., `setfacl -m user1:rx app`). Modifying "others" permissions (option B) is not secure or necessary, adding user1 to the wheel group (option C) is unrelated, and moving the file (option D) does not resolve permission issues.

Reference:

CompTIA Linux+ Study Guide: Exam XK0-006, Sybex, Chapter 7: "Securing Linux Systems", Section: "Managing File and Directory Permissions and ACLs" CompTIA Linux+ XK0-006 Objectives, Domain 3.0: Security

NEW QUESTION # 121

A user reports Issues v/hen trying to connect to one of the Linux servers. The server administrator reviews the following outputs:

Output 1:

Kernel panic not syncing: Fatal Machine check

Fid: 0, comm: swapper Tainted: GM ----- 4.18.0-553.8.1.el8_10.x86_64 #1 Call Trace:

<#mc> [rrrrrrrs:4er..i4i] ? panic+ox7n/oxi43

[] ? mce_panic+0x21f/0x240

[] ? do_machine_check+0xa18/0xae0

[] ? intel_idle+0xb1/0x170

[] ? machine_check+0x1c/0x30

[] ? intel_idle+0xb1/0x170

[] ? hrtimer_start+0x1b/0x20

[] ? cpuidle_idle_call+0xa7/0x140

[] ? cpu_idle+0xbf/0x110

[] ? Start_secondary+0x202/0x245

Output 2:

[325926.243631] mce: [Error]: CPU 22: Machine Check Exception: 7 Bank 0: bd8000000000134

1325926.247004] mce: (Error): Machine check events logged

[325991.358038] mce: [Error]: KIP 10: < ffffff83584719* (copy user enhanced fast strir.q+0x9/0x20)

[325991.358038] mce: [Error]: tsc 31ea89256a735 ADDR 3cd1889000 MISC 8c

[325991.350033] mce: [Error]: PROCESSOR 0:50657 TIME 15945B1695 SOCKET 0 APTC 16 microcode rrrrrrr

[325991.358038] mce: [Error]: Run the above through 'rr.cclq -ascii'

[325991.358038] mce: [Error]: Machine check: Action required: unknown MCACOD

[325991.3511038] Kernel panic not syncing: Fatal machine check

Which of the following statements describes the cause and resolution for this issue?

- A. The current kernel is corrupted and should be reinstalled.
- **B. The messages point to a hardware issue that should be addressed by the server team.**
- C. All available CPUs have been exhausted, and a new CPU should be added.
- D. The system has crashed and needs to be rebooted to fix the issue.

Answer: B

Explanation:

The correct answer is B because the log output is centered around a Machine Check Exception (MCE) and a kernel panic caused by a fatal machine check, which strongly indicates a hardware-level fault rather than a normal software or user-space problem. In Linux troubleshooting, messages such as "Kernel panic not syncing: Fatal Machine check" and "mce: [Error]: Machine Check Exception" are key indicators that the CPU or another hardware component has detected a serious condition that the operating system cannot safely recover from.

The stack trace references low-level CPU and kernel routines such as `do_machine_check`, `machine_check`, and `intel_idle`, which supports the conclusion that the processor is reporting a hardware exception. The repeated mce messages, CPU bank references, and the instruction to decode machine-check data are all consistent with diagnosing failures related to the processor, motherboard, cache, memory subsystem, or other platform hardware. This is not typical evidence of a corrupted kernel image.

Option A is incorrect because a corrupted kernel usually produces boot failures, module issues, missing files, or invalid execution states, not hardware-generated machine check exceptions. Option C is incomplete and therefore incorrect as the best answer, because while rebooting may restore temporary access, it does not resolve the underlying fault that triggered the panic. Option D is incorrect because CPU exhaustion would present as performance degradation, high load, or scheduling contention, not a machine-check panic.

The proper resolution is to escalate to the server or hardware support team for physical diagnostics. Likely follow-up actions include

checking system health logs, firmware and microcode levels, ECC memory events, CPU status, motherboard diagnostics, and vendor hardware tools. The issue should be treated as a hardware reliability problem, not simply an operating system crash.

NEW QUESTION # 122

A systems administrator wants to review the logs from an Apache 2 error.log file in real time and save the information to another file for later review. Which of the following commands should the administrator use?

- A. `tail -f /var/log/apache2/error.log | tee logfile.txt`
- B. `tail -f /var/log/apache2/error.log | logfile.txt`
- C. `tail -f /var/log/apache2/error.log > logfile.txt`
- D. `tail -f /var/log/apache2/error.log >> logfile.txt`

Answer: A

Explanation:

Log monitoring is a common troubleshooting task in Linux system administration, and Linux+ V8 covers command-line tools for real-time log analysis. The requirement in this scenario is twofold: view log entries as they occur and simultaneously save them to another file.

The command `tail -f /var/log/apache2/error.log | tee logfile.txt` fulfills both requirements. The `tail -f` command follows the log file in real time, displaying new entries as they are written. The pipe (`|`) sends this output to the `tee` command, which writes the data to `logfile.txt` while also displaying it on standard output.

The other options are insufficient. Option A redirects output to a file but prevents real-time viewing. Option C appends output but still suppresses terminal display. Option B is syntactically invalid and does not use a proper command for writing output.

Linux+ V8 documentation specifically references `tee` as a useful utility for duplicating command output streams. This makes option D the correct and most effective solution.

NEW QUESTION # 123

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