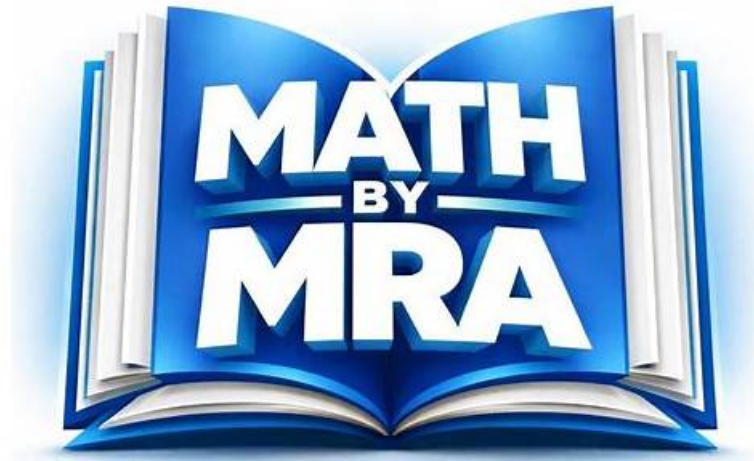


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## **CompTIA XK0-006 Exam Syllabus Topics:**

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Topic	Details
Topic 1	<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 2	<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 3	<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>
Topic 4	<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>

## CompTIA Linux+ Certification Exam Sample Questions (Q64-Q69):

### NEW QUESTION # 64

Users report that a Linux system is unresponsive and simple commands take too long to complete. The Linux administrator logs in to the system and sees the following: Output 1:

```
10:06:29 up 235 day, 19:23, 2 users, load average: 8.71, 8.24, 7.71
```

Which of the following is the system experiencing?

- A. High I/O wait times
- B. High CPU load
- C. High latency
- D. High uptime

**Answer: B**

Explanation:

This scenario is a classic performance troubleshooting case covered under the Troubleshooting domain of the CompTIA Linux+ V8 objectives. The key indicators to analyze are the load average values and the CPU utilization statistics.

The uptime command shows load averages of 8.71, 8.24, and 7.71 over the 1-, 5-, and 15-minute intervals.

Load average represents the average number of processes that are either running on the CPU or waiting to run. On a system with 4 CPU cores, a healthy load average would typically be close to or below 4. Load averages consistently near or above 8 indicate that there are significantly more runnable processes than available CPU resources, causing processes to wait and resulting in poor system responsiveness.

The CPU output further confirms this condition. The %idle value is 0, meaning the CPU has no idle time available. The majority of CPU time is spent in user space (65.88%) and system/kernel space (20.54%), indicating heavy computational and kernel activity.

While %iowait is present at 5.65%, it is not high enough to suggest that disk I/O is the primary bottleneck.

Option C, high CPU load, best explains the symptoms. High CPU load causes commands to execute slowly because processes are competing for limited CPU time. This directly matches the observed behavior of the system being unresponsive.

The other options are incorrect. High uptime simply indicates how long the system has been running and does not cause performance issues by itself. High latency is a general term and not a specific diagnosis shown by the metrics provided. High I/O wait times would require a significantly higher %iowait value.

According to Linux+ V8 documentation, correlating load averages with CPU core count and utilization is essential for accurate performance diagnosis. Therefore, the correct answer is C. High CPU load.

### NEW QUESTION # 65

Which of the following Ansible components is used to define groups and individual hosts and can include variables specific to each host or group?

- A. Playbooks
- B. Handlers
- C. Modules
- D. Inventory

**Answer: D**

### NEW QUESTION # 66

A Linux administrator observes low network throughput. The administrator gathers the following output:

```
$ ip link show eth0
eth0: < BROADCAST,MULTICAST,UP,RUNNING > mtu 9000 ...
$ ping -s 1472 -M do 192.168.10.2
PING 192.168.10.2(192.168.10.2) 1472(1500) bytes of data.
From 10.10.9.72 icmp_seq=1 frag needed and DF set
```

Which of the following is the cause of the low network throughput?

- A. Duplex configuration issue
- B. Driver issue
- C. MTU mismatch
- D. Hardware limitations

**Answer: C**

Explanation:

Network throughput issues are often caused by Maximum Transmission Unit (MTU) mismatches. MTU defines the largest packet size (in bytes) that can be sent over a network interface. According to CompTIA Linux+ V8 networking objectives, a standard Ethernet MTU is 1500 bytes. Larger values, such as 9000, are known as "Jumbo Frames" and must be supported by every device in the network path (switches, routers, and the destination host).

In this scenario, the output of `ip link show eth0` reveals that the local interface is configured for an MTU of 9000. However, when the administrator runs a ping test with a payload of 1472 bytes (which, with headers, equals a 1500-byte packet) and the "Don't Fragment" (-M do) flag, the system returns an error: "frag needed and DF set".

This error message indicates that a device somewhere in the network path has a smaller MTU (likely the standard 1500) and cannot handle the 9000-byte packets the server wants to send. Since the "Don't Fragment" bit is set, the device cannot break the packet down and instead drops it. This results in packet loss, retransmissions, and significantly lower throughput as the protocol tries to adapt.

Options A, B, and C are not supported by the provided evidence. A duplex mismatch (Option C) would typically show collisions or CRC errors in `ifconfig` or `ip -s link`. Driver or hardware issues would manifest as interface flaps or total connectivity loss. The explicit "frag needed" message is a definitive indicator of an MTU mismatch.

The resolution would be to either ensure Jumbo Frames are enabled throughout the network or lower the local MTU to 1500.

### NEW QUESTION # 67

A Linux administrator receives reports that an application hosted in a system is not completing tasks in the allocated time. The administrator connects to the system and obtains the following details:

Which of the following actions can the administrator take to help speed up the jobs?

- A. Increase the amount of CPU resources available to the system
- B. Increase the amount of swap space available to the system
- C. Increase the amount of disks available to the system
- D. Increase the amount of free memory available to the system

**Answer: A**

Explanation:

The uptime output shows a load average of 7.75, 5.72, 5.17 on a system with only 4 processors (`nproc = 4`). This indicates CPU saturation since the load averages are significantly higher than the number of available CPUs. Memory and swap usage are minimal, and `vmstat` shows no I/O waits, so the bottleneck is CPU. Increasing CPU resources will help speed up the jobs.

### NEW QUESTION # 68

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

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

**Answer: C**

## NEW QUESTION # 69

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