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CompTIA XK0-005, also known as the CompTIA Linux+ Certification Exam, is a vendor-neutral certification designed to validate the skills and knowledge required to administer Linux-based systems. XK0-005 exam is intended for candidates who have a

minimum of 12 months of practical experience working with Linux operating systems. XK0-005 Exam covers a broad range of topics, including system architecture, installation and package management, command-line operations, scripting, user management, and networking.

CompTIA Linux+ Certification Exam Sample Questions (Q269-Q274):

NEW QUESTION # 269

A Linux administrator is updating the file that contains the addresses of the software and update repositories on an Ubuntu system. Which of the following files needs to be edited to accomplish this task?

- A. /etc/dnf/dnf.conf
- B. /etc/yum/yum.conf
- C. /etc/apt/listchanges.conf
- D. /etc/apt/sources.list

Answer: D

Explanation:

- * Ubuntu uses APT as its package manager.
- * Repository addresses are defined in /etc/apt/sources.list.

Incorrect Options:

- * B: Controls display of changelogs during upgrades.
- * C and D: Belong to Red Hat-based systems (YUM/DNF).

Reference:

CompTIA Linux+ XK0-005 Study Guide, Chapter 7
man sources.list

NEW QUESTION # 270

A Linux administrator needs to resolve a service that has failed to start. The administrator runs the following command:



```
ls -l startup file
```

The following output is returned



```
-----. root root 81k Sep 13 19:01 startupfile
```

Which of the following is MOST likely the issue?

- A. The service does not have permissions to read write the startupfile.
- B. The service startupfile should not be owned by the root group.
- C. The service startupfile cannot be owned by root.
- D. The service startupfile size cannot be 81k.

Answer: A

Explanation:

Explanation

The most likely issue is that the service does not have permissions to read or write the startupfile. The output of `systemctl status startup.service` shows that the service has failed to start and the error message is "Permission denied". The output of `ls -l /etc/startupfile` shows that the file has the permissions `-rw-r--r--`, which means that only the owner (root) can read and write the file, while the group (root) and others can only read the file. The service may not run as root and may need write access to the file. The administrator should change the permissions of the file by using the `chmod` command and grant write access to the group or others, or change the owner or group of the file by using the `chown` command and assign it to the user or group that runs the service. The other options are incorrect because they are not supported by the outputs. The file size, owner, and group are not the causes of the issue. References: CompTIA Linux+ (XK0-005) Certification Study Guide, Chapter 11: Managing Files and Directories, pages 345-346.

NEW QUESTION # 271

An administrator is trying to diagnose a performance issue and is reviewing the following output:

System Properties:

CPU: 4 vCPU

Memory: 40GB

Disk maximum IOPS: 690

Disk maximum throughput: 44Mbps | 44000Kbps

Based on the above output, which of the following BEST describes the root cause?

- A. The system is mostly idle, therefore the iowait is high.
- B. The system has a partitioned disk, which causes the IOPS to be doubled.
- **C. The system has reached its maximum permitted throughput, therefore iowait is increasing.**
- D. The system has reached its maximum IOPS, causing the system to be slow.

Answer: C

Explanation:

The system has reached its maximum permitted throughput, therefore iowait is increasing. The output of `iostat -x` shows that the device `sda` has an average throughput of 44.01 MB/s, which is equal to the disk maximum throughput of 44 Mbps. The output also shows that the device `sda` has an average iowait of 99.99%, which means that the CPU is waiting for the disk to complete the I/O requests. This indicates that the disk is the bottleneck and the system is slow due to the high iowait. The other options are incorrect because they are not supported by the outputs. The system has not reached its maximum IOPS, as the device `sda` has an average IOPS of 563.50, which is lower than the disk maximum IOPS of 690. The system is not mostly idle, as the output of `top` shows that the CPU is 100% busy. The system does not have a partitioned disk, as the output of `lsblk` shows that the device `sda` has only one partition `sda1`. References: CompTIA Linux+ (XK0-005) Certification Study Guide, Chapter 17: Optimizing Linux Systems, pages 513-514.

NEW QUESTION # 272

Which of the following best describes YAML?

- **A. A data serialization language that is widely used in writing configuration files**
- B. A package used to start a cloud instance
- C. An open-source container orchestration engine
- D. An open-source configuration management tool

Answer: A

Explanation:

YAML is a human-readable data serialization language commonly used for writing configuration files.

NEW QUESTION # 273

Which of the following settings for `umask` ensures that new files have the default permissions `-rw- r-----` ?

- A. 0640
- B. 0038
- C. 0017
- **D. 0027**

Answer: D

Explanation:

The permissions we want are 750 for directories and 640 for files.

To calculate the `umask` value simply subtract the desired permissions from the default one:

Umask value: $777 - 750 = 027$

<https://linuxize.com/post/umask-command-in-linux/>

NEW QUESTION # 274

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