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QUESTION 1

A systems administrator is encountering performance issues. The administrator runs 3 commands with the following output The Linux server has the following system properties CPU: 4 vCPU Memory: 50GB Which of the following accurately describes this situation?

```
09:10:18 up 457 days, 32min, 5 users, load average: 4.22 6.63 5.98
```

- A. The system is under CPU pressure and will require additional vCPUs
- B. The system has been running for over a year and requires a reboot.
- C. Too many users are currently logged in to the system
- D. The system requires more memory

Correct Answer: A

The correct answer is:

- A. The system is under CPU pressure and will require additional vCPUs.

The load average (4.22 6.63 5.58) indicates that the system is under CPU pressure. The load average is the average number of tasks waiting for CPU time over a given time interval. If the load average is consistently high, it can mean that the system is struggling to keep up with demand and that more CPU resources are needed. In this case, the administrator may need to consider adding additional vCPUs to alleviate the CPU pressure.

QUESTION 2

Which of the following is a function of a bootloader?

- A. It initializes all the devices that are required to load the OS.
- B. It mounts the root filesystem that is required to load the OS.
- C. It helps to load the different kernels to initiate the OS startup process.
- D. It triggers the start of all the system services.

Correct Answer: C

The correct answer is "C. It helps to load the different kernels to initiate the OS startup process."

A bootloader is a program that runs before the operating system (OS) starts. Its main function is to load the OS into memory and initiate the OS startup process. This involves loading the kernel, which is the core part of the OS that manages

hardware resources and provides a platform for running user applications. The bootloader helps to load different kernels, which can be useful for testing and recovery purposes.

The other options listed are not functions of the bootloader:

Option A: Initializing devices is performed by the BIOS or UEFI (depending on the system), not the bootloader.

Option B: Mounting the root filesystem is performed by the kernel, not the bootloader.

Option D: Triggering the start of system services is performed by the OS, not the bootloader.

QUESTION 3

Which of the following commands will display the operating system?

- A. `uname -n`
- B. `uname -s`
- C. `uname -o`
- D. `uname -m`

Correct Answer: C

The correct command to display the operating system is C. `uname -o`.

The `uname` command is used to print system information. It has several options that can be used to print different types of information.

Here's what each option does in the context of the given question:

- A. `uname -n`: prints the hostname of the machine.
- B. `uname -s`: prints the kernel name of the machine.
- C. `uname -o`: prints the operating system of the machine.
- D. `uname -m`: prints the machine hardware name.

Therefore, the correct option to display the operating system is C (`uname -o`).

QUESTION 4

A Linux systems administrator is configuring a new filesystem that needs the capability to be mounted persistently across reboots. Which of the following commands will accomplish this task? (Choose two.)

- A. `df -h /data`
- B. `mkfs.ext4 /dev/sdc1`
- C. `fsck /dev/sdc1`
- D. `fdisk -l /dev/sdc1`
- E. `echo "/data /dev/sdc1 ext4 defaults 0 0" >> /etc/fstab`
- F. `echo "/dev/sdc1 /data ext4 defaults 0 0" >> /etc/fstab`

Correct Answer: BF

"modify the /etc/fstab text file to automatically mount the new partition by opening it in an editor and adding the following line:

```
/dev/ xxx 1 /data ext4 defaults 1 2
```

where xxx is the device name of the storage device"

<https://learning.oreilly.com/library/view/mastering-linux-system/9781119794455/b01.xhtml>

QUESTION 5

Which of the following tools is commonly used for creating CI/CD pipelines?

- A. Chef
- B. Puppet
- C. Jenkins
- D. Ansible

Correct Answer: C

C. Jenkins is commonly used for creating CI/CD (Continuous Integration/Continuous Deployment) pipelines. It is an open-source automation server that can be used to automate various tasks, including building, testing, and deploying software applications. Other tools like Chef, Puppet, and Ansible are typically used for configuration management and infrastructure automation.

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