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QUESTION 1

A Linux systems administrator receives reports from various users that an application hosted on a server has stopped responding at similar times for several days in a row. The administrator logs in to the system and obtains the following output:

Output 1:

```
[Tue Aug 31 16:36:42 2021] OOM: Kill process 43805 (java) score 249 or sacrifice child  
[Tue Aug 31 16:36:42 2021] killed process 43805 (java) total-vm: 4446352kB, anon-rss: 4053140kB, file-rss: 68kB
```

Output 2:

```
Linux 3.10.0-328.13.1.x86_64 #1 (hostname) 31/08/2021 _x86_64_ (8 CPU)  
16:00:01 PM      CPU   %user   %nice   %system   %iowait   %steal   %idle  
16:10:01 PM      all    17.58    0.00     9.36     0.00     0.00    73.06  
16:20:01 PM      all    22.34    0.00    11.75     0.00     0.00    65.91  
16:30:01 PM      all    25.49    0.00    11.69     0.00     0     62.82
```

Output 3:

```
$ free -m  
              total        used        free   shared  buff/cache   available  
Mem:           16704        15026         174         92          619         793  
Swap:            0            0            0
```

Which of the following should the administrator do to provide the BEST solution for the reported issue?

- A. Configure memory allocation policies during business hours and prevent the Java process from going into a zombie state while the server is idle.
- B. Configure a different nice value for the Java process to allow for more users and prevent the Java process from restarting during business hours.
- C. Configure more CPU cores to allow for the server to allocate more processing and prevent the Java process from consuming all of the available resources.
- D. Configure the swap space to allow for spikes in usage during peak hours and prevent the Java process from stopping due to a lack of memory.

Correct Answer: D

The system killed the java process because of lack of memory, but no one has configured a swap partition! That will help. A swap partition is generally recommended as one of the two main partitions created during a linux installation.

QUESTION 2

Which of the following directories is the mount point in a UEFI system?

- A. /sys/efi
- B. /boot/efi
- C. /efi
- D. /etc/efi



Correct Answer: B

In a UEFI (Unified Extensible Firmware Interface) system, the system firmware requires a partition to store boot loaders and other boot-related data. This partition is usually a small FAT32 partition, and it is mounted as the EFI system partition (ESP). The most common mount point for the ESP is /boot/efi. It is usually a small partition with a size between 100MB and 500MB and it is shared between different operating systems in a multi-boot environment. The contents of the ESP typically include boot loaders, kernel images, configuration files, and other boot-related files

QUESTION 3

A Linux administrator is installing a web server and needs to check whether web traffic has already been allowed through the firewall. Which of the following commands should the administrator use to accomplish this task?

- A. firewall query-service-http
- B. firewall-cmd --check-service http
- C. firewall-cmd --query-service http
- D. firewalld --check-service http

Correct Answer: C

Correct answer option C. This command queries the firewall daemon (firewalld) to check if the "http" service is currently enabled in the firewall. If the service is enabled, the command will return "yes"; otherwise, it will return "no".

QUESTION 4

A systems administrator is notified that the mysqld process stopped unexpectedly. The systems administrator issues the following command:

```
sudo grep -i -r `out of memory` /var/log
```

The output of the command shows the following:

```
kernel: Out of memory: Kill process 9112 (mysqld) score 511 or sacrifice child.
```

Which of the following commands should the systems administrator execute NEXT to troubleshoot this issue? (Select two).

- A. free -h
- B. nc -v 127.0.0.1 3306
- C. renice -15 \$(pidof mysql)
- D. lsblk
- E. killall -15
- F. vmstat -a 1 4

Correct Answer: AF



- A: Troubleshoot memory = yes
 - B: open netcat on port 3306 = no
 - C: renice -15 = no
 - D: show block devices = no
 - E: kill all processes in -15 = no
 - F: Troubleshoot memory = yes
-

QUESTION 5

A systems administrator is tasked with mounting a USB drive on a system. The USB drive has a single partition, and it has been mapped by the system to the device `/dev/sdb`. Which of the following commands will mount the USB to `/media/usb`?

- A. `mount /dev/sdb1 /media/usb`
- B. `mount /dev/sdb0 /media/usb`
- C. `mount /dev/sdb /media/usb`
- D. `mount -t usb /dev/sdb1 /media/usb`

Correct Answer: A

- A. `mount /dev/sdb1 /media/usb`

The "mount" command is used to mount file systems, and in this case, we are using it to mount the USB drive. The device name for the USB drive is `/dev/sdb`, and since it has only one partition, the partition number is 1. Therefore, we need to mount `/dev/sdb1` to the desired mount point, which is `/media/usb`. The correct command for this would be "mount `/dev/sdb1 /media/usb`". Option B is incorrect because the partition number is 1, not 0. Option C is incorrect because we need to specify the partition (`/dev/sdb1`) and not just the device (`/dev/sdb`). Option D is incorrect because "-t usb" is not a valid option for the mount command.

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