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QUESTION NO: 1

A systems administrator received a notification that a system is performing slowly. When running the top command, the systems administrator can see the following values:

```
%Cpu(s): 2.7 us, 1.9 sy, 0.0 ni, 0.4 id, 95 wa, 0.0 hi, 0.0 si 0.0 st
```

Which of the following commands will the administrator most likely run NEXT?

- A. vmstat
- B. strace
- C. htop
- D. lsof

ANSWER: A

QUESTION NO: 2

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

ANSWER: A C

QUESTION NO: 3

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`

ANSWER: B F

QUESTION NO: 4

A cloud engineer needs to launch a container named web-01 in background mode. Which of the following commands will accomplish this task?

- A. `docker builder -f --name web-01 httpd`
- B. `docker load --name web-01 httpd`
- C. `docker ps -a --name web-01 httpd`
- D. `docker run -d --name web-01 httpd`

ANSWER: D

QUESTION NO: 5

A systems administrator is implementing a new service task with systems at startup and needs to execute a script entitled test.sh with the following content:

```
TIMESTAMP=$(date '+%Y-%m-%d %H:%M:%S')
echo "helpme.service: timestamp $(Timestamp)" | systemd-cat -p info
sleep 60
done
```

The administrator tries to run the script after making it executable with `chmod +x`; however, the script will not run. Which of the following should the administrator do to address this issue? (Choose two.)

- A. Add `#!/bin/bash` to the bottom of the script.
- B. Create a unit file for the new service in `/etc/systemd/system/` with the name `helpme.service` in the location.
- C. Add `#!/bin/bash` to the top of the script.

- D. Restart the computer to enable the new service.
- E. Create a unit file for the new service in `/etc/init.d` with the name `helpme.service` in the location.
- F. Shut down the computer to enable the new service.

ANSWER: B C

QUESTION NO: 6

A new file was added to a main Git repository. An administrator wants to synchronize a local copy with the contents of the main repository. Which of the following commands should the administrator use for this task?

- A. `git reflog`
- B. `git pull`
- C. `git status`
- D. `git push`

ANSWER: B

QUESTION NO: 7

A Linux administrator is alerted to a storage capacity issue on a server without a specific mount point or directory. Which of the following commands would be MOST helpful for troubleshooting? (Choose two.)

- A. `parted`
- B. `df`
- C. `mount`
- D. `du`
- E. `fdisk`
- F. `dd`
- G. `ls`

ANSWER: B D

QUESTION NO: 8

A systems administrator created a web server for the company and is required to add a tag for the API so end users can connect. Which of the following would the administrator do to complete this requirement?

- A. hostnamectl status --no-ask-password
- B. hostnamectl set-hostname "\$(perl -le "print" "A" x 86)"
- C. hostnamectl set-hostname Comptia-WebNode -H root@192.168.2.14
- D. hostnamectl set-hostname Comptia-WebNode --transient

ANSWER: C

QUESTION NO: 9

A Linux administrator is troubleshooting a memory-related issue. Based on the output of the commands:

```
$ vmstat -s --unit M
968 M total memory
331 M used memory
482 M active memory
279 M inactive memory
99 M free memory

$ free -h
              total        used          free          shared  buff/cache   available
Mem:          968M          331M           95M           13M          540M          458M
Swap:           0             0             0

$ ps -aux | grep script.sh
USER PID %CPU %MEM VSZ   RSS TTY STAT START TIME COMMAND
user  8321 2.8  40.5 3224846 371687 7  SN   16:49 2:09 /home/user/script.sh
```

Which of the following commands would address the issue?

- A. top -p 8321
- B. kill -9 8321
- C. renice -10 8321
- D. free 8321

ANSWER: C

QUESTION NO: 10

A Linux system is getting an error indicating the root filesystem is full. Which of the following commands should be used by the systems administrator to resolve this issue? (Choose three.)

- A. df -h /
- B. fdisk -l /dev/sdb

- C. growpart /dev/mapper/rootvg-rootlv
- D. pvcreate /dev/sdb
- E. lvresize -L +10G -r /dev/mapper/rootvg-rootlv
- F. lsblk /dev/sda
- G. parted -l /dev/mapper/rootvg-rootlv
- H. vgextend /dev/rootvg /dev/sdb

ANSWER: D E H