XK0-004$^{Q\&As}$

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QUESTION 1

A systems administrator is investigating degraded server performance. The administrator executes diagnostic commands that result in the following output:

```
Device: rrqm/s wrqm/s r/s   w/s    rKB/s wKB/s    avgrq-sz  await   r_await w_await svctm %util
sda     0.00   0.05   1.81  6.04   89.33 28070.01 737.95    1011.94 104.94  1050.87 6.64  10.21

15:26:07 up 1055 days 1:46, 2 users,    load average:  12.93 12.66 8.74

        total used  free  shared buff/cache available
Mem: 1838   768   482   12     586        870
Swap: 819   0     819
```

Which of the following is the MOST likely cause of the degraded server performance?

A. The processes running in the background are causing high load averages

B. The server has not been rebooted for 1,055 days causing old processes to utilize the CPU

C. Too many write operations are happening on the server, causing the IO to wait for requests to be served

D. The server has little free memory available and is not using any swap memory, causing slow operations

Correct Answer: A

QUESTION 2

A Linux user needs to create a file named newfile in the home directory that mirrors the contents of the / etc/resolv.conf file.

Which of the following commands would accomplish this task?

A. cat /etc/resolv.conf > /home/user/newfile

B. echo /etc/resolv.conf > /home/user/newfile

C. grep /etc/resolv.conf

D. printf /etc/resolv.conf > /home/user/newfile

Correct Answer: A

QUESTION 3

A networked has been crashing intermittently. A Linux administrator would like to write a shell script that will attempt to ping the server and email an alert if the server fails to respond. The script will later be scheduled via cron job.

```
A.  SERVER=''192.168.1.50''

    RESULT='ping -C 2 $SERVER'

    if [ !$RESULT ]; then

         echo "Server is down" | mail -s "Server down" admin@email_address.com

    fi
```

```
B.  SERVER="192.168.1.50"

    ping -c 2 $SERVER >/dev/null 2>/dev/null

    if [ $? -ge 1 ]; then

         echo "Server is down" | mail -s "Server down" admin@email_address.com

    fi
```

```
C.  SERVER="192.168.1.50"

    RESULT='ping -c 2 $SERVER >/dev/null 2>/dev/null'

    while [ $RESULT !- 1 ];

    do

         echo "Server is down" | mail -s "Server down" admin@email_address.com

    done
    C.
```

```
D.  SERVER="192.168.1.50"

    ping -c 2 $SERVER >/dev/null 2>/tmp/fail.log

    if [ -f /tmp/fail/log ]; then

         echo "Server is down" | mail -s "Server down" admin@email_address.com

    fi
```

Which of the following scripts would BEST accomplish this task?

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: D

QUESTION 4

After starting a long-running script, a systems administrator needs to verify the frequency of what is filling up the /var partition and kill it because it is consuming too much space.

Which of the following is the correct sequence given only a terminal is available?

A. 1. CTRL-C

2.

 bg

3.

 watch df /var

4.

 CTRL-C

5.

 fg

6.

 CTRL-Z

B. 1. CTRL-C

2.

 fg

3.

 watch df /var

4.

 CTRL-Z

5.

 bg

6.

 CTRL-Z

C. 1. CTRL-Z

2.

 bg

3.

watch df /var

4.

 CTRL-C

5.

 fg

6.

 CTRL-C

D. 1. CTRL-Z

2.

 bg

3.

 watch df /var

4.

 CTRL-Z

5.

 fg

6.

 CTRL-C

Correct Answer: D

QUESTION 5

A junior systems administrator is upgrading a package that was installed on a Red Hat-based system. The administrator is tasked with the following:

1.

Update and install the new package.

2.

Verify the new package version is installed.

Which of the following should be done to BEST accomplish these task? (Choose two.)

A. yum install

B. yum upgrade

C. rpm -e

D. rpm -qa

E. apt-get

F. apt-get upgrade

Correct Answer: AD

Reference: https://access.redhat.com/documentation/en-us/red_hat_enterprise_linux/6/html/ deployment_guide/ch-yum

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QUESTION 6

Which of the following is used in unattended server installation via PXE?

A. Kickstart

B. YAML

C. Cloud-init

D. Container image

Correct Answer: A

QUESTION 7

A systems administrator suspects a process with a PID of 2864 is consuming resources at an alarming rate. The administrator uses the command renice -n -5 -p2864, but it does not solve the issue. Which of the following commands should the administrator execute to correct the issue?

A. nice -n 5 -p 2864

B. nice -n -5 -p 2864

C. renice -n 10 -p 2864

D. renice -n -10 -p 2864

Correct Answer: C

QUESTION 8

Ann, a junior Linux administrator, needs to copy software from her local machine to assist in developing a software application on a remote machine with the IP address 192.168.3.22. The file needs to be placed on the /tmp directory. After downloading the RPM to the local machine, which of the following commands would be BEST to use to copy the software?

A. scp ~/software.rpm USER@192.168.3.22:/tmp

B. scp ~/software.rpm USER@192.168.3.22: /tmp

C. wget USER@192.168.3.22:/tmp -f ~/software.rpm

D. scp USER@192.168.3.22 ~/software.rpm :/tmp

Correct Answer: A

QUESTION 9

A Linux administrator needs to remotely update the contents of the www.comptia.org/contacts URL.

Which of the following commands would allow the administrator to download the current contents of the URL before updating?

A. curl www.comptia.org/contacts

B. dig www.comptia.org/contacts

C. apt-get www.comptia.org/contacts

D. yum list www.comptia.org/contacts

Correct Answer: A

Reference: https://www.thegeekstuff.com/2012/04/curl-examples/

QUESTION 10

Ann, a user, has created a new directory and noticed that permissions on the new directory are as follows:

drwx------. 1 ann ann 0 Jun 11 08:20 work

Which of the following should the administrator do to restore default permissions for newly created directories?

A. Change umask value in /etc/profile.

B. Run chmod command to update permissions.

C. Modify directory ownership to ann:ann with chown.

D. Execute chattr command to restore default access.

Correct Answer: A

Reference: https://geek-university.com/linux/set-the-default-permissions-for-newly-created-files/

QUESTION 11

A Linux storage administrator wants to create a logical volume group. Which of the following commands is required to start the process?

A. pvcreate

B. vgcreate

C. lvcreate

D. mkfs.xfs

Correct Answer: B

Reference: https://www.thegeekstuff.com/2010/08/how-to-create-lvm/

QUESTION 12

An administrator is troubleshooting an application that has failed to start after the server was rebooted. Noticing the data volume is not mounted, the administrator attempts to mount it and receives this error:

```
[root@localhost comptia]# mount /dev/datavg/datalv /data
mount: special device /dev/datavg/datalv does not exist
```

Upon checking the logical volume status, the administrator receives this information:

```
[root@localhost comptia]# lvs
 LV VG Attr LSize Pool Origin Data% Meta% Move Log Cpy%Sync Convert
 root centos -wi-ao---- <6.20g
 swap centos -wi-ao---- 820.00m
 datalv datavg -wi------- 500.00m
[root@localhost comptia]#
```

Which of the following can be said about the data logical volume, and how can this problem be resolved?

A. The logical volume is not active. The administrator should make it active with lvchange -ay /dev/ datavg/datalv and then mount it.

B. The logical volume file system has become corrupted. The administrator should repair it with xfs_repair /dev/datavg/datalv and then mount it.

C. The logical volume is OK but the /dev special files are missing. The administrator should recreate them by running /dev/MAKEDEV.

D. The file system is read-only. The administrator should remount it as read-write with the command mount -o remount.rw /data.

Correct Answer: A

QUESTION 13

Which of the following BEST describes the purpose of the X11 system?

A. X11 provides graphical display capabilities

B. X11 provides command line capabilities

C. X11 provides networking capabilities

D. X11 provides telephony capabilities.

Correct Answer: A

Reference: https://en.wikipedia.org/wiki/X_Window_System

QUESTION 14

A system shows high utilization of swap space but low utilization of physical memory.

Which of the following commands should an administrator run to free up usable swap space?

A. mkswap ; swapon -a

B. free andand swapon -a

C. swapoff -a andand swapon -a

D. swapon -a ; swapoff -a

Correct Answer: C

Reference: https://www.cyberciti.biz/faq/linux-check-swap-usage-command/

QUESTION 15

A newly installed desktop is unable to connect to networked resources. The systems administrator executes various commands and reviews the following output snippets:

```
Destination Gateway        Genmask   flags  MMS  Window  irtt  iface
0.0.0.0       192.168.1.254 0.0.0.0   U      0    0       0     wlo1

wlo1: <BROADCAST,MULTICAST> mtu 1500 qdisk mq state DOWN qlen 1000
      inet 192.168.1.10/24 brd 192.168.1.255 scope global dynamic wlo1
```

Which of the following should the systems administrator try NEXT to restore connectivity?

A. arp -s 20:ad:1f:ab:10:0f 192.168.1.10

B. route add -net 192.168.1.0 netmask 255.255.255.0

C. dig -x @127.0.0.1 192.168.1.10

D. ip link set wlo1 up

E. killall -HUP NetworkManager

Correct Answer: D

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