



# CompTIA

## Exam Questions XK0-004

CompTIA Linux+ Certification Exam

#### NEW QUESTION 1

A Linux administrator is testing connectivity to a remote host on a shared terminal. The administrator wants to allow other users to access the terminal while the command is executing.

Which of the following commands should the administrator use?

- A. `bg ping remotehost`
- B. `fg ping remotehost`
- C. `ping remotehost < results`
- D. `ping remotehost &`

**Answer:** C

#### NEW QUESTION 2

A systems administration team has decided to their systems as immutable instances. They keep the desired state of each of their systems in version control and apply automation whenever they provision a new instance. If there is an issue with one of their servers, instead of troubleshooting the issue they terminate the instance and rebuild it using automation.

Which of the following is this an example of?

- A. Inventory
- B. Orchestration
- C. Infrastructure as code
- D. Agentless deployment

**Answer:** C

#### NEW QUESTION 3

Given that a company's policy states that users cannot install third-party tools on Window servers, which of the following protocols will allow a Linux GUI to connect to a Windows server?

- A. VNC
- B. NX
- C. RDP
- D. X11

**Answer:** A

#### NEW QUESTION 4

An administrator is tasked with increasing the size of the volume `/dev/vg/lv` to 20GB. Which of the following BEST illustrates the steps the administrator should take?

- A. `vgextend -L20G /dev/vg/lv; resize2fs /dev/vg/lv`
- B. `parted -L20G /dev/vg/lv; remount /dev/vg/lv`
- C. `mkfs -L20G /dev/vg/lv; tune2fs /dev/vg/lv`
- D. `lvextend -L20G /dev/vg/lv; resize2fs /dev/vg/lv`

**Answer:** D

#### NEW QUESTION 5

A systems administrator must clean up all application files in the directory `/var/log/app`. However, the company's security policy requires the files to be kept on the backup server for one year. The Linux server has only the `tar` and `bzip2` packages installed.

Which of the following commands will package and compress the files?

- A. `tar -zcvf applicationfiles.tar.bz2 /var/log/app/*`
- B. `tar -jcvf applicationfiles.tar.bz2 /var/log/app/*`
- C. `tar -cvf applicationfiles.tar.bz2 /var/log/app/*`
- D. `tar -xvf applicationfiles.tar.bz2 /var/log/app/*`

**Answer:** C

#### NEW QUESTION 6

A Linux administrator is setting up a testing environment and needs to connect to a separate testing server using the production server name. The administrator needs to override the hostname that the DNS is returning in order to use the test environment. Which of the following commands should be run on each of the testing systems to BEST meet this goal?

- A. `# hostnamectl set-hostname "192.168.1.100 production.company.com"`
- B. `# grep -i IP "${ip addr show} production.company.com" > /etc/resolv.conf`
- C. `# ip addr add 192.168.1.100/24 dev eth0 && rndc reload production.company.com`
- D. `# echo "192.168.1.100 production.company.com" >> /etc/hosts`

**Answer:** A

#### NEW QUESTION 7

A systems administrator is unable to reach other devices on the network and the Internet. The server is configured with the IP address `192.169.1.50/24` on `eth0`. The server's router is `192.168.1.1`. The administrator reviews the output of `route -n`:

Kernel IP routing table

Destination	Gateway	Genmask	Flags	Metric	Ref	Use	Iface
0.0.0.0	192.168.2.1	0.0.0.0	UG	1024	0	0	eth0
192.168.1.0	0.0.0.0	255.255.255.0	U	0	0	0	eth0

Which of the following commands should the administrator run to correct the issue?

- A. route del default gw 192.168.2.1 eth0; route add default gw 192.168.1.1 eth0
- B. route add -net 192.168.10.0 netmask 255.255.255.0 gw 192.168.2.1 eth0
- C. route add 192.168.1.1 default 192.168.1.50 eth0
- D. route host gw 192.168.1.1 eth0

**Answer:** B

#### NEW QUESTION 8

A user, jsmith, needs access to database files located on a server. Which of the following will add jsmith to the “dba” group and preserve existing group memberships?

- A. usermod -a -G dba jsmith
- B. usermod -g dba jsmith
- C. useradd -g dba jsmith
- D. groupmod dba -u jsmith

**Answer:** AC

#### Explanation:

According to the reference given below. Both AC is correct.

#### NEW QUESTION 9

An administrator needs to create a shared directory in which all users are able, write, and execute its content but none of the regular users are able to delete any content.

Which of the following permissions should be applied to this shared directory?

- A. rwxrwxrwt
- B. rwxrwxrws
- C. rwxrwxrwx
- D. rwxrwxrw\*

**Answer:** C

#### NEW QUESTION 10

A server is almost out of free memory and is becoming unresponsive. Which of the following sets of commands will BEST mitigate the issue?

- A. free, fack, partprobe
- B. lsof, lvcreate, mdadm
- C. df, du, rmmod
- D. fdisk, mkswap, swapon -a

**Answer:** A

#### NEW QUESTION 10

A junior Linux administrator is installing a new application with CPU architecture requirements that have the following specifications:

x64 bit 3.0GHz speed

Minimum quad core

The administrator wants to leverage existing equipment but is unsure whether the requirements of these systems are adequate. The administrator issues the following command cat/proc/cpuinfo. The output of the command is as follows:

```
processor:      0
vendor_id:     GenuineIntel
cpu_family:    x64
model:         58
model name:    Intel (R) Core(TM) i7-3687U @2.10 GHz
stepping:      9
microcode:     0x1c
cpu MHz:       2593.84
cache size:    4096KB
siblings:      1
core id:       0
cpd cores:     4
```

Which of the following is the recommended course of action the administrator should take based on this output?

- A. Install the application, as the system meets the application requirements
- B. Procure new equipment that matches the recommended specifications
- C. Recompile the Linux kernel to support the installation.
- D. Reconfigure lib modules to support the new application.

**Answer:** A

#### NEW QUESTION 14

As a Systems Administrator, to reduce disk space, you were tasked to create a shell script that does the following:  
Add relevant content to /tmp/script.sh, so that it finds and compresses rotated files in /var/log without recursion.

#### INSTRUCTIONS

Fill the blanks to build a script that performs the actual compression of rotated log files.

If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

### Snippets

tar	until	zip
egrep	awk	\$log
"\$@"	pgrep	repeat
/tmp/tempfile	locate	filename
rar	then	"log.[1-6]f"
in	done	/var/log
for	xz	"\$1"
sed	gzip	"\$log.[1-6]f"
while		

```
#!/bin/bash

#name: script.sh

find /var/log -type f -maxdepth 1 | grep [?] > /tmp/tempfile

[?] filename [?] $(cat [?])

do

[?] $filename

[?]
```

- A. Mastered
- B. Not Mastered

**Answer:** A

Explanation:

### Snippets

tar	until	zip
egrep	awk	\$log
"\$o"	pgrep	repeat
/tmp/tmpfile	locate	filename
rar	then	"log.[1-6]\$"
ln	done	/var/log
for	xz	"\$1"
sed	gzip	"\$log.[1-6]\$"
while		

```
#!/bin/bash

#name: script.sh

find /var/log -type f -maxdepth 1 | grep "$1" > /tmp/tmpfile

for filename in $(cat /tmp/tmpfile)
do
    gzip $filename
done
```

#### NEW QUESTION 17

A Linux systems administrator installed a new web server, which failed while attempting to start. The administrator suspects that SELinux is causing an issue and wants to temporarily put the system into permissive mode. Which of the following would allow the administrator to accomplish this?

- A. echo SELINUX=PERMISSIVE >> /etc/sysconfig/selinux
- B. setenforce 0
- C. sestatus 0
- D. chcon httpd\_sys\_content\_t /var/

Answer: B

#### NEW QUESTION 18

A Linux administrator needs every new file created on a directory to maintain the group permissions of the same directory. Which of the following commands would satisfy this requirement?

- A. chmod o+s <directory>
- B. chmod u+s <directory>
- C. chmod +s <directory>
- D. chmod g+s <directory>

Answer: D

#### NEW QUESTION 20

A systems administrator wants to know the current status of a series of dd jobs that were started in the background three hours ago. Which of the following commands will achieve this task?

- A. sudo killall -HUP dd
- B. sudo killall dd
- C. sudo killall -TERM dd
- D. sudo killall -USR1 dd

Answer: D

#### NEW QUESTION 24

A system administrator has set up third-party log aggregation agents across several cloud instances. The systems administrator wants to create a dashboard of failed SSH attempts and the usernames used. Which of the following files should be watched by the agents?



- A. /var/log/audit/audit.log
- B. /var/log/kern.log
- C. /var/log/monitor
- D. /etc/rsyslog.conf

**Answer:** D

#### NEW QUESTION 29

An administrator is attempting to block SSH connections to 192.168.10.24 using the Linux firewall. After implementing a rule, a connection refused error is displayed when attempting to SSH to 192.168.10.24.

Which of the following rules was MOST likely implemented?

- A. `iptables -A -p tcp -d 192.168.10.24 -dropt 22 -j REJECT`
- B. `iptables -A -p tcp -d 192.168.10.24 -dropt 22 -j DROP`
- C. `iptables -A -p tcp -d 192.168.10.24 -dropt 22 -j FORWARD`
- D. `iptables -A -p tcp -d 192.168.10.24 -dropt 22 -j REFUSE`

**Answer:** A

#### NEW QUESTION 30

Which of the following commands would show the default printer on a Linux system?

- A. `lpr`
- B. `lpq`
- C. `lpstat`
- D. `lspci`

**Answer:** B

#### NEW QUESTION 32

Which of the following statements BEST represents what the term “agentless” means regarding orchestration?

- A. Installation of a tool is not required on the remote system to perform orchestration tasks
- B. It facilitates version control when using infrastructure as code during orchestration
- C. It automatically removes malware from the remote system during orchestration
- D. A tool can only be accessed remotely to perform orchestration tasks

**Answer:** A

#### NEW QUESTION 36

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.

Which of the following scripts would BEST accomplish this task?

```
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
```

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
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** D

#### NEW QUESTION 41

Which of the following can be used to boot a DVD from a remote device to initialize a Linux system setup on bare metal hardware as if it is a local DVD?

- A. UEFI
- B. PXE
- C. NFS
- D. GRUB

**Answer:** A

#### NEW QUESTION 44

In order to comply with new security policies, an administrator needs to prevent the SSH server from using insecure algorithms. Which of the following files should be edited to accomplish this?

- A. /etc/ssh/sshd\_config
- B. /etc/ssh/ssh\_config
- C. ~/.ssh/ssh\_config
- D. /etc/ssh/known\_hosts

**Answer:** A

#### NEW QUESTION 46

A technical support engineer receives a ticket from a user who is trying to create a 1KB file in the /tmp directory and is getting the following error No space left on device. The support engineer checks the /tmp directory, and it has 20GB of free space. Which of the following BEST describes a possible cause for this error?

- A. The /tmp directory is not mounted.
- B. The filesystem is formatted with a 4MB block size.
- C. the filesystem ran out of inodes.
- D. The /tmp directory has been set with an immutable attribute.

**Answer:** C

#### NEW QUESTION 49

An administrator needs to deploy 100 identical CentOS workstations via PXE boot. Which of the following should the administrator use to minimize the amount of interaction with the consoles needed?

- A. Kickstart script
- B. Ghost image on a distribution server
- C. Hard disk duplicator
- D. Hard disk duplicator
- E. Ubiquity script

**Answer:** A

#### NEW QUESTION 52

A Linux server has multiple IPs. A Linux administrator needs to verify if the HTTP server port is bound to the correct IP. Which of the following commands would BEST accomplish this task?

- A. route
- B. host
- C. nslookup
- D. netstat
- E. ip

**Answer:** D

#### NEW QUESTION 53

An analyst is trying to determine which public IP addresses are managed by Company A, but the script is not working correctly.

```
for ip in $(cat ip-list.txt)
do whois $ip | grep "Company A" > /dev/null
    if [ $? -ne 0 ]
    then echo "$ip"
    fi
done
```

Which of the following explains what is wrong with the script?

- A. \$(cat ip-list.txt) should be changed to `cat ip-list.txt` in the for statement.
- B. The for should be changed to while in the loop.
- C. The > should be changed to 2> in the do statement.
- D. The -ne flag should be changed to -eq in the if statement.

**Answer:** A

#### NEW QUESTION 55

A systems administrator needs to install a new piece of hardware that requires a new driver. The driver should be manually installed. Which of the following describes the order of commands required to obtain module information, install the module, and check the log for any errors during module installation?

- A. lsmod, modprobe, modinfo
- B. modinfo, insmod, modprobe
- C. modinfo, insmod, dmesg
- D. lsmod, insmod, dmesg

**Answer:** A

#### NEW QUESTION 57

A Linux administrator needs to remotely update the contents of the [www.comptia.org/contacts](http://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](http://www.comptia.org/contacts)
- B. dig [www.comptia.org/contacts](http://www.comptia.org/contacts)
- C. apt-get [www.comptia.org/contacts](http://www.comptia.org/contacts)
- D. yum list [www.comptia.org/contacts](http://www.comptia.org/contacts)

**Answer:** A

#### NEW QUESTION 58

An operator finds a user is having issues with opening certain files.

Which of the following commands would allow the security administrator to list and check the SELinux context?

- A. ls -D
- B. ls -a
- C. ls -Z
- D. ls -l

**Answer:** C

#### NEW QUESTION 63

A Linux system is running normally when the systems administrator receives an alert that one application spawned many processes. The application is consuming a lot of memory, and it will soon cause the machine to become unresponsive. Which of the following commands will stop each application process?

- A. kill 'pidof application'
- B. killall application
- C. kill -9 'ps -aux | grep application'
- D. pkill -9 application

**Answer:** B

#### NEW QUESTION 68



A Linux administrator wants to obtain a list of files and subdirectories in the /etc directory that contain the word “services”. Once the files and subdirectories are discovered, they should be listed alphabetically in the /var/tmp/foundservices file. Which of the following shell scripts will accomplish this task?

- A. `#!/bin/bashfind /etc -name services | sort > /var/tmp/foundservices`
- B. `#!/bin/bashlocate /etc -sort -name services > /var/tmp/foundservices`
- C. `#!/bin/bashfind -name services -sort </var/tmp/foundservices`
- D. `#!/bin/bashfind /etc -name services -sort > /var/tmp/foundservices`

**Answer:** B

#### NEW QUESTION 72

An administrator needs to mount the shared NFS file system testhost:/testvolume to mount point /mnt/testvol and make the mount persistent after reboot. Which of the following BEST demonstrates the commands necessary to accomplish this task?

- A. 

```
# mkdir -p /mnt/testvol

# echo "testhost:/testvolume          /mnt/testvol      nfs defaults 0 0" >> /etc/fstab

# mount -a
```
- B. 

```
# mkdir /mnt/testvol

# mount testhost:/testvolume /mnt/testbol
```
- C. 

```
# mkdir testhost:/testvolume at /mnt/testvol

# mount -a
```
- D. 

```
# mkdir /mnt/testvol

# echo "testhost:/testvolume /mnt/testvol" >> /mnt/mnttab

# mount -a
```

**Answer:** C

#### NEW QUESTION 77

An administrator notices that a long-running script, /home/user/script.sh, is taking up a large number of system resources. The administrator does not know the script's function. Which of the following commands should the administrator use to minimize the script's impact on system resources?

- A. renice
- B. kill
- C. bg
- D. nohup

**Answer:** A

#### NEW QUESTION 82

A Linux administrator needs to take stock of USB devices attached to the system. Which of the following commands would be BEST to complete this task?

- A. lspci
- B. lsusb
- C. cat /proc/USB
- D. modprobe --usb

**Answer:** B

#### NEW QUESTION 83

A junior Linux administrator needs to access production servers using a secure SSH protocol. Which of the following files should contain the public key to gain remote access to the server?

- A. ~/.ssh/authorized-keys
- B. /etc/authorized\_keys
- C. /etc/sshd/ssh.conf
- D. ~/.ssh/authorized\_keys

**Answer:** D

#### NEW QUESTION 84

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 activ
- B. The administrator should make it active with `lvchange -ay /dev/ datavg/datalv` and then mount it.
- C. The logical volume file system has become corrupte
- D. The administrator should repair it with `xfs_repair/dev/datavg/datalv` and then mount it.
- E. The logical volume is OK but the `/dev` special files are missin
- F. The administrator should recreate them by running `/dev/MAKEDEV`.
- G. The file system is read-onl
- H. The administrator should remount it as read-write with the command `mount - o remount.rw /data`.

**Answer:** A

#### NEW QUESTION 88

A systems administrator has received reports of intermittent network connectivity to a particular website. Which of the following is the BEST command to use to characterize the location and type of failure over the course of several minutes?

- A. `mtr www.comptia.org`
- B. `tracert www.comptia.org`
- C. `ping www.comptia.org`
- D. `netstat www.comptia.org`

**Answer:** B

#### NEW QUESTION 89

Which of the following configuration files should be modified to disable Ctrl-Alt-Del in Linux?

- A. `/etc/inittab`
- B. `~/.bash_profile`
- C. `/etc/securetty`
- D. `/etc/security/limits.conf`

**Answer:** A

#### NEW QUESTION 93

A junior Linux administrator is setting up system-wide configuration settings. The goal is to ensure the PATH environment variable includes the following locations for all users who log into a Linux system.

```
/usr/local/bin
/usr/local/sbin
```

The administrator issues the following commands at the terminal:

```
echo $PATH
cat /etc/profile
```

Respectively, the output of these commands is as follows:

```
/usr/bin:/usr/sbin:/sbin:/bin

# /etc/profile: system-wide .profile file for the Bourne shell (sh(1))
# and Bourne compatible shells (bash(1), ksh(1), ash(1), ...).

if [ `id -u` -eg 0 ]; then
PATH="/usr/bin:/usr/sbin:/sbin:/bin"
else
PATH="/usr/local/games"
fi

export PATH
```

Given this output, which of the following would be the BEST action for the administrator to perform to address this issue?

- A. Update the /etc/profile.d file using a text editor, navigate to the PATH element add the missing locations, and run the bash\_completion.sh script to update the changes.
- B. Update the /etc/profile file using a text editor, navigate to the PATH element, add the missing locations and run the . /etc/profile command to update the changes.
- C. Update the /etc/profile.d file using a text editor, navigate to the PATH element, add the missing locations, and reboot to update the changes.
- D. Update the /etc/profile file using a text editor navigate to the PATH element, add the missing locations, and restart the bash process to update the changes.

**Answer: B**

#### NEW QUESTION 94

A systems administrator observes high latency values when reaching a remote web server. Which of the following commands will help determine and isolate issues on the network side?

- A. mtr
- B. dig
- C. netstat
- D. route

**Answer: A**

#### NEW QUESTION 99

A system administrator has deployed a Linux server based on an Anaconda process with all packages and custom configurations necessary to install a web server role.

Which of the following could be used to install more Linux servers with the same characteristics?

- A. /etc/sysconfig/anaconda/cfg
- B. /root/anaconda.auto
- C. /root/anaconda-ks.cfg
- D. /etc/sysconfig/installation.cfg

**Answer: C**

#### NEW QUESTION 103

A junior systems administrator created a new filesystem /dev/sda1 with mountpoint /data and added it to the /etc/fstab for auto-mounting.

When the systems administrator tries to mount the file system, the system refuses. Given the output below:

```
/dev/mapper/VolGroup00-Log-Vol100 / xfs defaults 0 0
/dev/sda1 /data xfs noauto,dev,sync,ro,nosuid 0 0
/dev/mapper/VolGroup00-Log-Vol101 swap swap defaults0 0
/dev/sda2 /mine ext4 auto,suid,sync,rw,dev 0 0
```

Which of the following steps is necessary?

- A. Change the filesystem from /dev/sda1 to /dev/sda2 and reboot.
- B. Change the options to auto,dev,sync,rw,nosuid and run the mount -a command.
- C. Change the mount point to data and reboot.
- D. Change the dump column to 1 and run the mount -a command.

**Answer: B**

#### NEW QUESTION 108

The lead Linux has added a disk, /dev/sdd, to a VM that is running out of disk space. Place the following steps in the correct order from first (1) to last (4) to add the disk to the existing LVM.

1

2

3

4

lvextend -L +10GB  
/dev/mapper/vgdata-data

pvcreeate /dev/sdd

resize2fs /dev/mapper/vgdata-data

vgextend vgdata /dev/sdd

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:

1

pvcreeate /dev/sdd

2

vgextend vgdata /dev/sdd

3

lvextend -L +10GB  
/dev/mapper/vgdata-data

4

resize2fs /dev/mapper/vgdata-data

lvextend -L +10GB  
/dev/mapper/vgdata-data

pvcreeate /dev/sdd

resize2fs /dev/mapper/vgdata-data

vgextend vgdata /dev/sdd

#### NEW QUESTION 110

A technician wants to secure a sensitive workstation by ensuring network traffic is kept within the local subnet. To accomplish this task, the technician executes the following command:

```
echo 0 > /proc/sys/net/ipv4/ip_default_ttl
```

Which of the following commands can the technician use to confirm the expected results? (Choose two.)

- A. tcpdump  
B. traceroute

C. route  
D. iperf  
E. ip  
F. arp

**Answer:** CF

#### NEW QUESTION 112

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- A. Inventory
- B. Orchestration
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Given that a company's policy states that users cannot install third-party tools on Window servers, which of the following protocols will allow a Linux GUI to connect to a Windows server?

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- B. NX
- C. RDP
- D. X11

**Answer:** A

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- B. `parted -L20G /dev/vg/lv; remount /dev/vg/lv`
- C. `mkfs -L20G /dev/vg/lv; tune2fs /dev/vg/lv`
- D. `lvextend -L20G /dev/vg/lv; resize2fs /dev/vg/lv`

**Answer:** D

#### NEW QUESTION 5

A systems administrator must clean up all application files in the directory `/var/log/app`. However, the company's security policy requires the files to be kept on the backup server for one year. The Linux server has only the `tar` and `bzip2` packages installed.

Which of the following commands will package and compress the files?

- A. `tar -zcvf applicationfiles.tar.bz2 /var/log/app/*`
- B. `tar -jcvf applicationfiles.tar.bz2 /var/log/app/*`
- C. `tar -cvf applicationfiles.tar.bz2 /var/log/app/*`
- D. `tar -xvf applicationfiles.tar.bz2 /var/log/app/*`

**Answer:** C

#### NEW QUESTION 6

A Linux administrator is setting up a testing environment and needs to connect to a separate testing server using the production server name. The administrator needs to override the hostname that the DNS is returning in order to use the test environment. Which of the following commands should be run on each of the testing systems to BEST meet this goal?

- A. `# hostnamectl set-hostname "192.168.1.100 production.company.com"`
- B. `# grep -i IP "${ip addr show} production.company.com" > /etc/resolv.conf`
- C. `# ip addr add 192.168.1.100/24 dev eth0 && rndc reload production.company.com`
- D. `# echo "192.168.1.100 production.company.com" >> /etc/hosts`

**Answer:** A

#### NEW QUESTION 7

A systems administrator is unable to reach other devices on the network and the Internet. The server is configured with the IP address `192.169.1.50/24` on `eth0`. The server's router is `192.168.1.1`. The administrator reviews the output of `route -n`:

Kernel IP routing table

Destination	Gateway	Genmask	Flags	Metric	Ref	Use	Iface
0.0.0.0	192.168.2.1	0.0.0.0	UG	1024	0	0	eth0
192.168.1.0	0.0.0.0	255.255.255.0	U	0	0	0	eth0

Which of the following commands should the administrator run to correct the issue?

- A. route del default gw 192.168.2.1 eth0; route add default gw 192.168.1.1 eth0
- B. route add -net 192.168.10.0 netmask 255.255.255.0 gw 192.168.2.1 eth0
- C. route add 192.168.1.1 default 192.168.1.50 eth0
- D. route host gw 192.168.1.1 eth0

**Answer:** B

#### NEW QUESTION 8

A user, jsmith, needs access to database files located on a server. Which of the following will add jsmith to the “dba” group and preserve existing group memberships?

- A. usermod -a -G dba jsmith
- B. usermod -g dba jsmith
- C. useradd -g dba jsmith
- D. groupmod dba -u jsmith

**Answer:** AC

#### Explanation:

According to the reference given below. Both AC is correct.

#### NEW QUESTION 9

An administrator needs to create a shared directory in which all users are able, write, and execute its content but none of the regular users are able to delete any content.

Which of the following permissions should be applied to this shared directory?

- A. rwxrwxrwt
- B. rwxrwxrws
- C. rwxrwxrwx
- D. rwxrwxrw\*

**Answer:** C

#### NEW QUESTION 10

A server is almost out of free memory and is becoming unresponsive. Which of the following sets of commands will BEST mitigate the issue?

- A. free, fack, partprobe
- B. lsof, lvcreate, mdadm
- C. df, du, rmmod
- D. fdisk, mkswap, swapon -a

**Answer:** A

#### NEW QUESTION 10

A junior Linux administrator is installing a new application with CPU architecture requirements that have the following specifications:

x64 bit 3.0GHz speed

Minimum quad core

The administrator wants to leverage existing equipment but is unsure whether the requirements of these systems are adequate. The administrator issues the following command cat/proc/cpuinfo. The output of the command is as follows:

```
processor:      0
vendor_id:     GenuineIntel
cpu_family:    x64
model:         58
model name:    Intel (R) Core(TM) i7-3687U @2.10 GHz
stepping:      9
microcode:     0x1c
cpu MHz:       2593.84
cache size:    4096KB
siblings:      1
core id:       0
cpd cores:     4
```

Which of the following is the recommended course of action the administrator should take based on this output?

- A. Install the application, as the system meets the application requirements
- B. Procure new equipment that matches the recommended specifications
- C. Recompile the Linux kernel to support the installation.
- D. Reconfigure lib modules to support the new application.

**Answer:** A

#### NEW QUESTION 14

As a Systems Administrator, to reduce disk space, you were tasked to create a shell script that does the following:  
Add relevant content to /tmp/script.sh, so that it finds and compresses rotated files in /var/log without recursion.

#### INSTRUCTIONS

Fill the blanks to build a script that performs the actual compression of rotated log files.

If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

### Snippets

tar	until	zip
egrep	awk	\$log
"\$@"	pgrep	repeat
/tmp/tempfile	locate	filename
rar	then	"log.[1-6]f"
in	done	/var/log
for	xz	"\$1"
sed	gzip	"\$log.[1-6]f"
while		

```
#!/bin/bash

#name: script.sh

find /var/log -type f -maxdepth 1 | grep [?] > /tmp/tempfile

[?] filename [?] $(cat [?])

do

[?] $filename

[?]
```

- A. Mastered
- B. Not Mastered

**Answer:** A

Explanation:

### Snippets

tar	until	zip
egrep	awk	\$log
"\$@"	pgrep	repeat
/tmp/tmpfile	locate	filename
ran	then	"log.[1-6]\$"
in	done	/var/log
for	xz	"\$1"
sed	gzip	"\$log.[1-6]\$"
while		

```
#!/bin/bash

#name: script.sh

find /var/log -type f -maxdepth 1 | grep "$@" > /tmp/tmpfile

for filename in $(cat /tmp/tmpfile)
do
    gzip $filename
done
```

#### NEW QUESTION 17

A Linux systems administrator installed a new web server, which failed while attempting to start. The administrator suspects that SELinux is causing an issue and wants to temporarily put the system into permissive mode. Which of the following would allow the administrator to accomplish this?

- A. echo SELINUX=PERMISSIVE >> /etc/sysconfig/selinux
- B. setenforce 0
- C. sestatus 0
- D. chcon httpd\_sys\_content\_t /var/

Answer: B

#### NEW QUESTION 18

A Linux administrator needs every new file created on a directory to maintain the group permissions of the same directory. Which of the following commands would satisfy this requirement?

- A. chmod o+s <directory>
- B. chmod u+s <directory>
- C. chmod +s <directory>
- D. chmod g+s <directory>

Answer: D

#### NEW QUESTION 20

A systems administrator wants to know the current status of a series of dd jobs that were started in the background three hours ago. Which of the following commands will achieve this task?

- A. sudo killall -HUP dd
- B. sudo killall dd
- C. sudo killall -TERM dd
- D. sudo killall -USR1 dd

Answer: D

#### NEW QUESTION 24

A system administrator has set up third-party log aggregation agents across several cloud instances. The systems administrator wants to create a dashboard of failed SSH attempts and the usernames used. Which of the following files should be watched by the agents?



- A. /var/log/audit/audit.log
- B. /var/log/kern.log
- C. /var/log/monitor
- D. /etc/rsyslog.conf

**Answer:** D

#### NEW QUESTION 29

An administrator is attempting to block SSH connections to 192.168.10.24 using the Linux firewall. After implementing a rule, a connection refused error is displayed when attempting to SSH to 192.168.10.24.

Which of the following rules was MOST likely implemented?

- A. `iptables -A -p tcp -d 192.168.10.24 -dropt 22 -j REJECT`
- B. `iptables -A -p tcp -d 192.168.10.24 -dropt 22 -j DROP`
- C. `iptables -A -p tcp -d 192.168.10.24 -dropt 22 -j FORWARD`
- D. `iptables -A -p tcp -d 192.168.10.24 -dropt 22 -j REFUSE`

**Answer:** A

#### NEW QUESTION 30

Which of the following commands would show the default printer on a Linux system?

- A. `lpr`
- B. `lpq`
- C. `lpstat`
- D. `lspci`

**Answer:** B

#### NEW QUESTION 32

Which of the following statements BEST represents what the term “agentless” means regarding orchestration?

- A. Installation of a tool is not required on the remote system to perform orchestration tasks
- B. It facilitates version control when using infrastructure as code during orchestration
- C. It automatically removes malware from the remote system during orchestration
- D. A tool can only be accessed remotely to perform orchestration tasks

**Answer:** A

#### NEW QUESTION 36

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.

Which of the following scripts would BEST accomplish this task?

```
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
```

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
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** D

#### NEW QUESTION 41

Which of the following can be used to boot a DVD from a remote device to initialize a Linux system setup on bare metal hardware as if it is a local DVD?

- A. UEFI
- B. PXE
- C. NFS
- D. GRUB

**Answer:** A

#### NEW QUESTION 44

In order to comply with new security policies, an administrator needs to prevent the SSH server from using insecure algorithms. Which of the following files should be edited to accomplish this?

- A. /etc/ssh/sshd\_config
- B. /etc/ssh/ssh\_config
- C. ~/.ssh/ssh\_config
- D. /etc/ssh/known\_hosts

**Answer:** A

#### NEW QUESTION 46

A technical support engineer receives a ticket from a user who is trying to create a 1KB file in the /tmp directory and is getting the following error No space left on device. The support engineer checks the /tmp directory, and it has 20GB of free space. Which of the following BEST describes a possible cause for this error?

- A. The /tmp directory is not mounted.
- B. The filesystem is formatted with a 4MB block size.
- C. the filesystem ran out of inodes.
- D. The /tmp directory has been set with an immutable attribute.

**Answer:** C

#### NEW QUESTION 49

An administrator needs to deploy 100 identical CentOS workstations via PXE boot. Which of the following should the administrator use to minimize the amount of interaction with the consoles needed?

- A. Kickstart script
- B. Ghost image on a distribution server
- C. Hard disk duplicator
- D. Hard disk duplicator
- E. Ubiquity script

**Answer:** A

#### NEW QUESTION 52

A Linux server has multiple IPs. A Linux administrator needs to verify if the HTTP server port is bound to the correct IP. Which of the following commands would BEST accomplish this task?

- A. route
- B. host
- C. nslookup
- D. netstat
- E. ip

**Answer:** D

#### NEW QUESTION 53

An analyst is trying to determine which public IP addresses are managed by Company A, but the script is not working correctly.

```
for ip in $(cat ip-list.txt)
do whois $ip | grep "Company A" > /dev/null
    if [ $? -ne 0 ]
    then echo "$ip"
    fi
done
```

Which of the following explains what is wrong with the script?

- A. \$(cat ip-list.txt) should be changed to `cat ip-list.txt` in the for statement.
- B. The for should be changed to while in the loop.
- C. The > should be changed to 2> in the do statement.
- D. The -ne flag should be changed to -eq in the if statement.

**Answer:** A

#### NEW QUESTION 55

A systems administrator needs to install a new piece of hardware that requires a new driver. The driver should be manually installed. Which of the following describes the order of commands required to obtain module information, install the module, and check the log for any errors during module installation?

- A. lsmod, modprobe, modinfo
- B. modinfo, insmod, modprobe
- C. modinfo, insmod, dmesg
- D. lsmod, insmod, dmesg

**Answer:** A

#### NEW QUESTION 57

A Linux administrator needs to remotely update the contents of the [www.comptia.org/contacts](http://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](http://www.comptia.org/contacts)
- B. dig [www.comptia.org/contacts](http://www.comptia.org/contacts)
- C. apt-get [www.comptia.org/contacts](http://www.comptia.org/contacts)
- D. yum list [www.comptia.org/contacts](http://www.comptia.org/contacts)

**Answer:** A

#### NEW QUESTION 58

An operator finds a user is having issues with opening certain files.

Which of the following commands would allow the security administrator to list and check the SELinux context?

- A. ls -D
- B. ls -a
- C. ls -Z
- D. ls -l

**Answer:** C

#### NEW QUESTION 63

A Linux system is running normally when the systems administrator receives an alert that one application spawned many processes. The application is consuming a lot of memory, and it will soon cause the machine to become unresponsive. Which of the following commands will stop each application process?

- A. kill 'pidof application'
- B. killall application
- C. kill -9 'ps -aux | grep application'
- D. pkill -9 application

**Answer:** B

#### NEW QUESTION 68

A Linux administrator wants to obtain a list of files and subdirectories in the /etc directory that contain the word “services”. Once the files and subdirectories are discovered, they should be listed alphabetically in the /var/tmp/foundservices file. Which of the following shell scripts will accomplish this task?

- A. `#!/bin/bashfind /etc -name services | sort > /var/tmp/foundservices`
- B. `#!/bin/bashlocate /etc -sort -name services > /var/tmp/foundservices`
- C. `#!/bin/bashfind -name services -sort </var/tmp/foundservices`
- D. `#!/bin/bashfind /etc -name services -sort > /var/tmp/foundservices`

**Answer:** B

#### NEW QUESTION 72

An administrator needs to mount the shared NFS file system testhost:/testvolume to mount point /mnt/testvol and make the mount persistent after reboot. Which of the following BEST demonstrates the commands necessary to accomplish this task?

- A. 

```
# mkdir -p /mnt/testvol

# echo "testhost:/testvolume          /mnt/testvol      nfs defaults 0 0" >> /etc/fstab

# mount -a
```
- B. 

```
# mkdir /mnt/testvol

# mount testhost:/testvolume /mnt/testbol
```
- C. 

```
# mkdir testhost:/testvolume at /mnt/testvol

# mount -a
```
- D. 

```
# mkdir /mnt/testvol

# echo "testhost:/testvolume /mnt/testvol" >> /mnt/mnttab

# mount -a
```

**Answer:** C

#### NEW QUESTION 77

An administrator notices that a long-running script, /home/user/script.sh, is taking up a large number of system resources. The administrator does not know the script's function. Which of the following commands should the administrator use to minimize the script's impact on system resources?

- A. `renice`
- B. `kill`
- C. `bg`
- D. `nohup`

**Answer:** A

#### NEW QUESTION 82

A Linux administrator needs to take stock of USB devices attached to the system. Which of the following commands would be BEST to complete this task?

- A. `lspci`
- B. `lsusb`
- C. `cat /proc/USB`
- D. `modprobe --usb`

**Answer:** B

#### NEW QUESTION 83

A junior Linux administrator needs to access production servers using a secure SSH protocol. Which of the following files should contain the public key to gain remote access to the server?

- A. `~/ssh/authorized-keys`
- B. `/etc/authorized_keys`
- C. `/etc/sshd/ssh.conf`
- D. `~/ssh/authorized_keys`

**Answer:** D

#### NEW QUESTION 84

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 activ
- B. The administrator should make it active with `lvchange -ay /dev/ datavg/datalv` and then mount it.
- C. The logical volume file system has become corrupte
- D. The administrator should repair it with `xfs_repair/dev/datavg/datalv` and then mount it.
- E. The logical volume is OK but the `/dev` special files are missin
- F. The administrator should recreate them by running `/dev/MAKEDEV`.
- G. The file system is read-onl
- H. The administrator should remount it as read-write with the command `mount - o remount.rw /data`.

**Answer:** A

#### NEW QUESTION 88

A systems administrator has received reports of intermittent network connectivity to a particular website. Which of the following is the BEST command to use to characterize the location and type of failure over the course of several minutes?

- A. `mtr www.comptia.org`
- B. `tracert www.comptia.org`
- C. `ping www.comptia.org`
- D. `netstat www.comptia.org`

**Answer:** B

#### NEW QUESTION 89

Which of the following configuration files should be modified to disable Ctrl-Alt-Del in Linux?

- A. `/etc/inittab`
- B. `~/.bash_profile`
- C. `/etc/securetty`
- D. `/etc/security/limits.conf`

**Answer:** A

#### NEW QUESTION 93

A junior Linux administrator is setting up system-wide configuration settings. The goal is to ensure the PATH environment variable includes the following locations for all users who log into a Linux system.

```
/usr/local/bin
/usr/local/sbin
```

The administrator issues the following commands at the terminal:

```
echo $PATH
cat /etc/profile
```

Respectively, the output of these commands is as follows:



```
/usr/bin:/usr/sbin:/sbin:/bin

# /etc/profile: system-wide .profile file for the Bourne shell (sh(1))
# and Bourne compatible shells (bash(1), ksh(1), ash(1), ...).

if [ `id -u` -eg 0 ]; then
PATH="/usr/bin:/usr/sbin:/sbin:/bin"
else
PATH="/usr/local/games"
fi

export PATH
```

Given this output, which of the following would be the BEST action for the administrator to perform to address this issue?

- A. Update the /etc/profile.d file using a text editor, navigate to the PATH element add the missing locations, and run the bash\_completion.sh script to update the changes.
- B. Update the /etc/profile file using a text editor, navigate to the PATH element, add the missing locations and run the . /etc/profile command to update the changes.
- C. Update the /etc/profile.d file using a text editor, navigate to the PATH element, add the missing locations, and reboot to update the changes.
- D. Update the /etc/profile file using a text editor navigate to the PATH element, add the missing locations, and restart the bash process to update the changes.

**Answer: B**

#### NEW QUESTION 94

A systems administrator observes high latency values when reaching a remote web server. Which of the following commands will help determine and isolate issues on the network side?

- A. mtr
- B. dig
- C. netstat
- D. route

**Answer: A**

#### NEW QUESTION 99

A system administrator has deployed a Linux server based on an Anaconda process with all packages and custom configurations necessary to install a web server role.

Which of the following could be used to install more Linux servers with the same characteristics?

- A. /etc/sysconfig/anaconda/cfg
- B. /root/anaconda.auto
- C. /root/anaconda-ks.cfg
- D. /etc/sysconfig/installation.cfg

**Answer: C**

#### NEW QUESTION 103

A junior systems administrator created a new filesystem /dev/sda1 with mountpoint /data and added it to the /etc/fstab for auto-mounting.

When the systems administrator tries to mount the file system, the system refuses. Given the output below:

```
/dev/mapper/VolGroup00-Log-Vol100 / xfs defaults 0 0
/dev/sda1 /data xfs noauto,dev,sync,ro,nosuid 0 0
/dev/mapper/VolGroup00-Log-Vol101 swap swap defaults0 0
/dev/sda2 /mine ext4 auto,suid,sync,rw,dev 0 0
```

Which of the following steps is necessary?

- A. Change the filesystem from /dev/sda1 to /dev/sda2 and reboot.
- B. Change the options to auto,dev,sync,rw,nosuid and run the mount -a command.
- C. Change the mount point to data and reboot.
- D. Change the dump column to 1 and run the mount -a command.

**Answer: B**

#### NEW QUESTION 108

The lead Linux has added a disk, /dev/sdd, to a VM that is running out of disk space. Place the following steps in the correct order from first (1) to last (4) to add the disk to the existing LVM.

1

2

3

4

lvextend -L +10GB  
/dev/mapper/vgdata-data

pvcreeate /dev/sdd

resize2fs /dev/mapper/vgdata-data

vgextend vgdata /dev/sdd

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:

1

pvcreeate /dev/sdd

2

vgextend vgdata /dev/sdd

3

lvextend -L +10GB  
/dev/mapper/vgdata-data

4

resize2fs /dev/mapper/vgdata-data

lvextend -L +10GB  
/dev/mapper/vgdata-data

pvcreeate /dev/sdd

resize2fs /dev/mapper/vgdata-data

vgextend vgdata /dev/sdd

#### NEW QUESTION 110

A technician wants to secure a sensitive workstation by ensuring network traffic is kept within the local subnet. To accomplish this task, the technician executes the following command:

```
echo 0 > /proc/sys/net/ipv4/ip_default_ttl
```

Which of the following commands can the technician use to confirm the expected results? (Choose two.)

- A. tcpdump  
B. traceroute

C. route  
D. iperf  
E. ip  
F. arp

**Answer:** CF

#### NEW QUESTION 112

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