

# Exam Questions XK0-004

CompTIA Linux+ Certification Exam

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### NEW QUESTION 1

A Linux administrator has installed a web application firewall in front of a web server running on HTTP port 8080 and successfully started the HTTP server. However, after opening the application URL in an Internet browser, the administrator discovered that the application does not work. The administrator performed the following diagnostic steps:

Output of `sysctl -a` command:

```
kernel.sched_child_runs_first = 0
kernel.panic = 0
kernel.ftrace_enabled = 1
kernel.sysrq = 1
net.ipv4.icmp_echo_ignore_all = 0
```

Output of `iptables -L` command:

```
Chain INPUT (policy ACCEPT)

target    prot opt source destination
ACCEPT    tcp  -- anywhere anywhere    tcp dpt:webcache

Chain FORWARD (policy ACCEPT)

target    prot opt source destination
ACCEPT    tcp  -- anywhere anywhere    dpt:webcache

Chain OUTPUT (policy ACCEPT)

target    prot opt source destination
```

Output of `netstat -nltp | grep "8080"`:

```
tcp 0.0.0.0:8080 0.0.0.0* Listen 12801/httpd
```

Which of the following is the NEXT step the administrator should perform to permanently fix the issue at the kernel level?

- A. `sysctl -w net.ipv4.ip_forward=1` then run `sysctl -w /etc/sysctl.conf` to enable the change
- B. Edit `/etc/sysctl.conf` file and add `net.ipv4.ip_forward = 1` then run `sysctl -p /etc/sysctl.conf` to enable the change
- C. Add iptables rule `iptables -A INPUT -m state --state NEW -p tcp --dport 8080 -j` then restart httpd daemon
- D. Add iptables rule `iptables -A FORWARD -m state --state NEW -p tcp --dport 8080 -j ACCEPT` then restart httpd daemon

**Answer: D**

### NEW QUESTION 2

A user has connected a Bluetooth mouse to a computer, but it is not working properly. Which of the following commands should the systems administrator use to fix the issue?

- A. `lsmod -i bluetooth`
- B. `insmod bluetooth`
- C. `modprobe -r bluetooth`
- D. `depmod -i bluetooth`

**Answer: C**

### NEW QUESTION 3

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 4

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

Verify the new package version is installed.

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

- A. `yum install <package name>`

- B. yum upgrade
- C. rpm -e <package name>
- D. rpm -qa
- E. apt-get <package name>
- F. apt-get upgrade

**Answer:** AD

#### NEW QUESTION 5

A junior systems is configuring localization option environment variables. The administrator is given a checklist of tasks with the following requirements: View current settings of the LC\_ALL environment variable only. Modify the LANG environment variable to US English Unicode. Given this scenario, which of the following should be performed to meet these requirements? (Choose two.)

- A. echo \$LC\_ALL
- B. locale
- C. cat \$LC\_ALL
- D. export LANG = en\_US.UTF-8
- E. export \$LANG = en\_US.UTF
- F. stty

**Answer:** BD

#### 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 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 8

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/tenpfile	locate	filename
rar	then	"log.[1-6]\$"
ln	done	/var/log
for	xt	"\$1"
sed	gzip	"\$log.[1-6]\$"
while		

```
#!/bin/bash

#name: script.sh

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

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

do

[?] $filename

[?]
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

### Snippets

tar	until	zip
egrep	awk	ilog
"\$@"	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 "$@" > /tmp/tmpfile

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

**NEW QUESTION 9**

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 10**

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 10**

Which of the following would be the BEST solution for a systems administrator to access the graphical user environment of a Linux machine remotely?

- A. VNC
- B. KDE
- C. X11
- D. RPC

**Answer: A**

**NEW QUESTION 13**

Which of the following configuration management tools is considered agentless?

- A. Puppet
- B. Salt
- C. Ansible

D. Chef

**Answer: C**

#### NEW QUESTION 15

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`

**Answer: C**

#### NEW QUESTION 16

A Linux administrator wants to fetch a Git repository from a remote Git server. Which of the following is the BEST command to perform this task?

- A. `git checkout`
- B. `git clone`
- C. `git merge`
- D. `git config`

**Answer: B**

#### NEW QUESTION 17

Given the output below:

```
drwxr-xr-x. 4096 user1 user1 Documents
drwxr-xr-x. 4096 user1 user1 Music
lrwxrwxrwx. 1 root root MyPhoto.jpg ->/Pictures/photo.jpg
drwxr-xr-x. 4096 user1 user1 Pictures
-rw-r--r--. 256 user1 user1 text.txt
-rw-r--r--. 35 user1 user1 tmp.tmp
```

Which of the following commands can be used to remove MyPhoto.jpg from the current directory?

- A. `unlink ./MyPhoto.jpg`
- B. `del Pictures/photo.jpg`
- C. `rm -rf ./Pictures`
- D. `rm -f MyPhoto.jpg`
- E. `ln -rm ./Pictures/photo.jpg`

**Answer: E**

#### NEW QUESTION 18

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 20

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 21

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 24

A systems administrator has finished building a new feature for the monitoring software in a separate Git branch. Which of the following is the BEST method for adding the new feature to the software's master branch?

- A. Merge the changes from the feature branch to the master branch.
- B. Save the changes to the master branch automatically with each Git commit.
- C. Clone the feature branch into the master branch.
- D. Pull the changes from the feature branch into the master branch.

**Answer:** A

#### NEW QUESTION 27

A Linux administrator must identify a user with high disk usage. The administrator runs the `# du -s /home/*` command and gets the following output:

```
43      /home/User1
2701    /home/User2
133089  /home/User3
3611    /home/User4
```

Based on the output, User3 has the largest amount of disk space used. To clean up the file space, the administrator needs to find out more information about the specific files that are using the most disk space.

Which of the following commands will accomplish this task?

- A. `df -k /home/User/files.txt`
- B. `du -a /home/User3/*`
- C. `du -sh /home/User/`
- D. `find . -name /home/User3 -print`

**Answer: C**

#### NEW QUESTION 32

An administrator has modified the configuration file for a service. The service is still running but is not using the new configured values. Which of the following will BEST remediate this issue?

- A. `kill -HUP`
- B. `init 0`
- C. `service start`
- D. `renice -10`

**Answer: A**

#### NEW QUESTION 37

A junior Linux administrator is trying to verify connectivity to the remote host host1 and display round-trip statistics for ten ICMP. Which of the following commands should the administrator execute?

- A. `ping -c 10 host1`
- B. `traceroute -c 10 host1`
- C. `netstat host1`
- D. `pathping -c 10 host1`

**Answer: A**

#### NEW QUESTION 41

Which of the following BEST describes running on a Linux system?

- A. Containers only need the namespaces functionality to run on a Linux system available since kernel 2.6.
- B. Containers need a hypervisor to run a Linux system
- C. Cgroups namespaces are functionalities used for the kernel but not for running containers.
- D. Containers only need the cgroups functionality for running on a Linux system
- E. Namespaces is not a Linux kernel functionality needed for creating and managing containers.
- F. Containers use the cgroups and namespaces functionalities to isolate processes and assign hardware resources to each of those isolated processes.

**Answer: D**

#### NEW QUESTION 42

A Linux administrator is using a public cloud provider to host servers for a company's website. Using the provider's tools, the administrator wrote a JSON file to define how to deploy the servers. Which of the following techniques did the administrator use?

- A. Infrastructure as code
- B. Build automation
- C. Platform as a service
- D. Automated configuration

**Answer: B**

#### NEW QUESTION 44

Which of the following will provide a list of all flash, external, internal, and SSD drives?

- A. `lspci`
- B. `lsmod`
- C. `lsblk`
- D. `lsusb`

**Answer: C**

#### NEW QUESTION 45

A four-drive Linux NAS has been improperly configured. Each drive has a capacity of 6TB, for a total storage capacity of 24TB. To reconfigure this unit to be not pluggable for drive replacement and provide total storage of 11TB to 12TB, which of the following would be the correct RAID configuration?

D18912E1457D5D1DDCBD40AB3BF70D5D

- A. RAID 01
- B. RAID 03
- C. RAID 10
- D. RAID 50

**Answer:** C

**NEW QUESTION 46**

A Linux administrator has configured a Linux system to be used as a router. The administrator confirms that two network adapters are properly installed and functioning correctly. In addition, the output of the iptables -L command appears to contain a complete firewall configuration. Which of the following commands does the administrator need to issue for the router to be fully functional?

- A. echo "1" > /proc/sys/net/ipv4/ip\_forward
- B. echo "0" > /proc/sys/net/ipv4/tcp\_abort\_on\_overflow
- C. echo "0" > /proc/sys/net/ipv4/max\_connections
- D. echo "1" > /proc/sys/net/ipv4/ip\_default\_ttl

**Answer:** A

**NEW QUESTION 51**

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 52**

A junior system administrator had trouble installing and running an Apache web server on a Linux server. You have been tasked with installing the Apache web server on the Linux server and resolving the issue that prevented the junior administrator from running Apache.

**INSTRUCTIONS**

Install Apache and start the service. Verify that the Apache service is running with the defaults. Typing "help" in the terminal will show a list of relevant commands. If at any time you would like to bring back the initial state of the simulation, please click the Reset All button. CentOS Command Prompt



```
[root@centos7]#
```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

```
[root@tecmint ~]#
[root@tecmint ~]# yum install httpd
Loaded plugins: fastestmirror, refresh-packagekit
Setting up Install Process
Loading mirror speeds from cached hostfile
 * base: centos.excellmedia.net
 * epel: epel.scopesky.iq
 * extras: centos.excellmedia.net
 * updates: centos-hn.viettelidc.com.vn
Resolving Dependencies
There are unfinished transactions remaining. You might consider running yum-complete-transaction first to finish them.
```

```
[root@tecmint ~]#
[root@tecmint ~]# systemctl start httpd
[root@tecmint ~]#
[root@tecmint ~]# systemctl enable httpd
Created symlink from /etc/systemd/system/multi-user.target.wants/httpd.service to /usr/lib/systemd/system/httpd.service
[root@tecmint ~]#
[root@tecmint ~]# systemctl status httpd
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; vendor preset: disabled)
   Active: active (running) since Tue 2017-06-27 06:51:35 EDT; 14s ago
     Docs: man:httpd(8)
           man:apachectl(8)
  Main PID: 17981 (httpd)
    Status: "Total requests: 0; Current requests/sec: 0; Current traffic: 0 B/sec"
   CGroup: /system.slice/httpd.service
           └─17981 /usr/sbin/httpd -DFOREGROUND
             └─17982 /usr/sbin/httpd -DFOREGROUND
               └─17983 /usr/sbin/httpd -DFOREGROUND
                 └─17984 /usr/sbin/httpd -DFOREGROUND
                   └─17985 /usr/sbin/httpd -DFOREGROUND
                     └─17986 /usr/sbin/httpd -DFOREGROUND

Jun 27 06:51:35 tecmint systemd[1]: Starting The Apache HTTP Server...
Jun 27 06:51:35 tecmint httpd[17981]: AH00558: httpd: Could not reliably determine the server's fully qualified domain name, please see the httpd.conf file's #Listen 1.2.4.8:80 line
Jun 27 06:51:35 tecmint systemd[1]: Started The Apache HTTP Server.
[root@tecmint ~]# █
```

#### NEW QUESTION 55

Find the file named core and remove it from the system. INSTRUCTIONS

Type "help" to display a list of available commands.

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

```
[comptia@localhost ~]$
```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

```
root@tryit-sought:~# find . -type f -name "FILE-TO-FIND" -exec rm -f {} \;  
root@tryit-sought:~# find . -type f -core "FILE-TO-FIND" -exec rm -f {} \;
```

#### NEW QUESTION 56

A Linux systems administrator needs to provision multiple web servers into separate regional datacenters. The systems architect has instructed the administrator to define the server infrastructure using a specific tool that consumes a text-based file.

Which of the following is the BEST reason to do this?

- A. To document the infrastructure so it can be included in the system security plan
- B. To ensure the administrator follows the planning phase of the system development life cycle
- C. To define the infrastructure so it can be provisioned consistently with minimal manual tasks
- D. To validate user requirements have been met within each regional datacenter for compliance

**Answer:** B

#### NEW QUESTION 58

An administrator receives a warning about a file system filling up, and then identifies a large file located at /tmp/largelogfile. The administrator deletes the file, but no space is recovered on the file system.

Which of the following commands would BEST assist the administrator in identifying the problem?

- A. `lsdf | grep largelogfile`
- B. `pkill /tmp/largelogfile`
- C. `pgrep largelogfile`
- D. `ps -ef | grep largelogfile`

**Answer:** A

#### NEW QUESTION 62

A user attempts to use the `mount -a` command but gets the following error: `mount: mount point /mnt/test does not exist`

Which of the following commands best describes the action the Linux administrator should take NEXT?

- A. mount -a /mnt/test
- B. mkdir -p /mnt/test
- C. mdadm -p /mnt/test
- D. mkfs /mnt/test
- E. touch /mnt/test

**Answer: B**

#### NEW QUESTION 65

A junior Linux administrator needs to ensure a service will start on system boot. Which of the following commands should be used to accomplish this task?

- A. chkconfig <service> on
- B. systemctl <service> bootup
- C. service <service> enable
- D. crontab install <service>

**Answer: A**

#### NEW QUESTION 70

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 75

An administrator is analyzing a Linux server which was recently hacked. Which of the following will the administrator use to find all unsuccessful login attempts?

- A. nsswitch
- B. faillock
- C. pam\_tally2
- D. passwd

**Answer: C**

#### NEW QUESTION 76

A user wants to list the lines of a log, adding a correlative number at the beginning of each line separated by a set of dashes from the actual message. Which of the following scripts will complete this task?

- A. 

```
#!/bin/bash
LOG='/var/log/auth.log'
nrlines=0
while read LINE
do
    nrlines=$((nrlines + 1))
    echo $nrlines --- ${LINE}
done < ${LOG}
```
- B. 

```
#!/bin/bash
LOG='/var/log/auth.log'
nrlines=0
while read LINE
do
    nrlines=$((nrlines + 1))
    echo $nrlines --- ${LINE}
done
```
- C. 

```
#!/bin/bash
LOG='/var/log/auth.log'
nrlines=0
while read LINE
do
    nrlines=$((nrlines + 1))
    echo $nrlines --- ${LINE}
done < ${LOG}
```
- D. 

```
#!/bin/bash
LOG='/var/log/auth.log'
nrlines=0
while read LINE
do
    nrlines=$((nrlines + 1))
    echo $nrlines --- ${LINE}
done < ${LOG}
```

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

Answer: D

#### NEW QUESTION 80

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. tracer www.comptia.org
- C. ping www.comptia.org
- D. netstat www.comptia.org

Answer: B

#### NEW QUESTION 82

Which of the following server roles would assign a host IP address?

- A. DHCP
- B. NTP
- C. DNS
- D. SSH

Answer: A

#### NEW QUESTION 87

A Linux systems administrator needs to copy the contents of a directory named "working" on the local working system to a folder /var/www/html on a server named "corporate-web".

Which of the following commands will allow the administrator to copy all the contents to the web server?

- A. scp -r working/\* webuser@corporate-web:/var/www/html
- B. tar working/\* webuser@corporate-web:/var/www/html
- C. cp -r working/\* webuser@corporate-web:/var/www/html
- D. mv working webuser@corporate-web:/var/www/html

Answer: A

#### NEW QUESTION 89

A systems administrator is enabling quotas on the /home directory of a Linux server. The administrator makes the appropriate edits to the /etc/fstab file and attempts to issue the commands to enable quotas on the desired directory. However, the administrator receives an error message stating the filesystem does not support quotas. Which of the following commands should the administrator perform to proceed?

- A. mount -o remount /home
- B. quotacheck -cg
- C. edquota /home
- D. quotaon /home

Answer: D

#### NEW QUESTION 94

A junior administrator of a physical server receives log messages indicating the out-of-memory killer has been active. All memory slots are in use on the motherboard, but additional disk space is available. Space has been allocated for a swap file.

Which of the following should the administrator use to reduce the output of memory messages?

- A. free : swapoff / swapfile ; swapon -a
- B. mkswap /swapfile; swapon -a
- C. fallocate -l 2G /swapfile && swapon -a
- D. echo "1" > /proc/meminfo ; swapon / swapfile

Answer: A

#### NEW QUESTION 99

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 102

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 107

All users are reporting that they cannot connect to the SFTP server. The administrator runs a scan:

```
starting nmap 4.11 at 2018-06-16 EST
not shown: 1456 closed ports
```

PORT	STATE	SERVICE
53/tcp	open	dns
80/tcp	open	http
957/tcp	open	unknown

```
MAC Address 08:00:00:00:00:00 ( computer systems )
nmap finished = 1 ip address ( 1 host up ) scanned in 1.497 seconds
You have mail in /var/spool/mail/root
```

Which of the following would allow the administrator to fix the problem?

- A. Allow SFTP connections on port 22 using /etc/sysconfig/iptables.
- B. Allow SFTP connections on port 20 and 21 using /etc/sysconfig/iptables.
- C. Allow SFTP connections on port 25 using /etc/sysconfig/iptables.
- D. Allow SFTP connections on port 1456 using /etc/sysconfig/iptables.

**Answer: A**

#### NEW QUESTION 112

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 114

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