



# CompTIA

## Exam Questions XK0-004

CompTIA Linux+ Certification Exam

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#### NEW QUESTION 1

- (Exam Topic 1)

A Linux administrator implemented a new HTTP server using the default configuration. None of the users on the network can access the server. If there is no problem on the network or with the users' workstations, which of the following steps will BEST analyze and resolve the issue?

- A. Run netstat to ensure the port is correctly bound, and configure the firewall to allow access on ports 80 and 443
- B. Run route to ensure the port is correctly bound, and configure the firewall to allow access on ports 80 and 443
- C. Run netcat to ensure the port is correctly bound, and configure a static route to the web to allow access on ports 80 and 443
- D. Run route to ensure the port is correctly bound, and configure SELinux to allow access on ports 80 and 443

**Answer:** C

#### Explanation:

Reference: <https://www.varonis.com/blog/netcat-commands/>

#### NEW QUESTION 2

- (Exam Topic 1)

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 defaults 0 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 3

- (Exam Topic 1)

A new HTTPS web service is being deployed on a server. Which of the following commands should the Linux administrator use to ensure traffic is able to flow through the system firewall to the new service?

- A. iptables -I OUTPUT -p tcp --sport 443 -j ACCEPT
- B. iptables -A INPUT -p tcp --dport 443 -j ACCEPT
- C. iptables -I INPUT --dport 443 -j ACCEPT
- D. iptables -A OUTPUT -p tcp --dport 443 -j ACCEPT

**Answer:** C

#### Explanation:

Reference: <https://www.linode.com/docs/security/firewalls/control-network-traffic-with-iptables/>

#### NEW QUESTION 4

- (Exam Topic 1)

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

#### Explanation:

Reference: <https://www.tecmint.com/find-listening-ports-linux/>

#### NEW QUESTION 5

- (Exam Topic 1)

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

"\$6"

pgrep

repstat

/tmp/tmpfile

locate

filename

rar

then

"log.[1-6]\$"

in

done

/var/log

for

xz

"\$1"

sed

grep

"\$log.[1-6]\$"

while

```
#!/bin/bash

#name: script.sh

find /var/log -type f -maxdepth 1 | grep 

?

 > /tmp/tmpfile



?

 filename 

?

 $(cat 

?

)

do



?

 $filename



?


```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Snippets

tar

until

zip

egrep

awk

\$log

"\$6"

pgrep

repstat

/tmp/tmpfile

locate

filename

rar

then

"log.[1-6]\$"

in

done

/var/log

for

xz

"\$1"

sed

grep

"\$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



grep

 $filename



done


```

NEW QUESTION 6

- (Exam Topic 1)

A Linux administrator is testing a new web application on a local laptop and consistently shows the following 403 errors in the laptop's logs"

```
type=AVC msg=audit(126552035:37232) :avc:denied [read] for pid=24941 com=nginx
nme="/home/user1" /dev/sda1 ino=2 scontext=unconfined_u:system_r:httpd_t:s0
tcontext=sysetm_u:object_r:httpd_sys_content:s0
```

The web server starts properly, but an error is generated in the audit log. Which of the following settings should be enabled to prevent this audit message?

- A. httpd\_can\_network\_connect = 1
- B. httpd\_enable\_scripting = 1
- C. httpd\_enable\_homedirs = 1
- D. httpd\_enable\_cgi = 1

Answer: A

#### NEW QUESTION 7

- (Exam Topic 1)

A systems administrator wants to mount an ISO to access its content. Using /mnt as a mount point, which of the following is the correct syntax?

- A. mount -o iso9660 /dev/sr0 /mnt
- B. mount -o loop -t iso /mnt
- C. mount -o loop /tmp/image.iso /mnt
- D. mount -o loop /dev/kvm /mnt

**Answer:** D

#### Explanation:

Reference: <https://www.cyberciti.biz/tips/how-to-mount-iso-image-under-linux.html>

#### NEW QUESTION 8

- (Exam Topic 1)

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

#### Explanation:

Reference: <https://www.lifewire.com/traceroute-linux-command-4092586>

#### NEW QUESTION 9

- (Exam Topic 1)

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

#### Explanation:

Reference: <https://www.linode.com/docs/security/securing-your-server/>

#### NEW QUESTION 10

- (Exam Topic 1)

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

- (Exam Topic 1)

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

#### Explanation:

Reference: <https://www.maketecheasier.com/fix-linux-no-space-left-on-device-error/>

#### NEW QUESTION 14

- (Exam Topic 1)

A Linux systems administrator is setting up SSH access with PKI for several using their newly created RSA keys. Which of the following MOST securely achieves



this task?

- A. Use curl to copy each user's public key file to the respective system
- B. Use cp to copy each user's public key file to the respective system
- C. Use ssh-copy-id to copy each user's public key file to the respective system
- D. Use ssh-copy-id to copy each user's private key file to the respective system

**Answer:** C

**Explanation:**

Reference: <https://www.linode.com/docs/security/authentication/use-public-key-authentication-with-ssh/>

#### NEW QUESTION 15

- (Exam Topic 1)

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

**Explanation:**

Reference: <https://www.linuxtechi.com/disable-reboot-using-ctrl-alt-del-keys/>

#### NEW QUESTION 17

- (Exam Topic 1)

A systems administrator needs to retrieve specific fields from a csv file. Which of the following tools would accomplish this task?

- A. awk
- B. sort
- C. print
- D. echo

**Answer:** A

**Explanation:**

Reference: <https://stackoverflow.com/questions/19602181/how-to-extract-one-column-of-a-csv-file>

#### NEW QUESTION 18

- (Exam Topic 1)

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 21

- (Exam Topic 1)

A junior Linux administrator is installing patches using YUM. The administrator issues the following command:

yum list installed

The output of the command is as follows:

```
Loaded plugins: fastmirror, langpacks
Existing lock /var/run/yum.pid: another copy is running as pid 5180.
Another app is currently holding the yum lock; waiting for it to exit...
The other application is yum
Memory: 26 M RSS (r415 MB VSZ)
Started: Fri Jun 15 08:05:15 2018 - 2:18:48 ago
State: Traced/Stopped pid: 5180
```

Given this scenario and the output, which of the following should the administrator do to address this issue?

- A. renice -n 9 -p 5180
- B. killall yum
- C. ps -ef | grep yum
- D. top | grep yum

**Answer:** C

**Explanation:**

Reference:

<https://www.thegeekdiary.com/yum-command-fails-with-another-app-is-currently-holding-the-yum-lock-in-cent>

#### NEW QUESTION 26

- (Exam Topic 1)

A Linux systems administrator needs to set permissions on an application with the following parameters: The owner of the application should be able to read, write, and execute the application.

Members of the group should be able to read and execute the application. Everyone else should not have access to the application.

Which of the following commands would BEST accomplish these tasks?

- A. chmod 710 <application name>
- B. chmod 730 <application name>
- C. chmod 750 <application name>
- D. chmod 760 <application name>

**Answer:** D

#### NEW QUESTION 30

- (Exam Topic 1)

An administrator needs to see a list of the system user's encrypted passwords. Which of the following Linux files does the administrator need to read?

- A. /etc/shadow
- B. /etc/skel
- C. /etc/passwd
- D. /etc/pw

**Answer:** C

#### Explanation:

Reference: <https://www.cyberciti.biz/faq/where-are-the-passwords-of-the-users-located-in-linux/>

#### NEW QUESTION 31

- (Exam Topic 1)

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 {} \;
```

Reference: <https://www.cyberciti.biz/faq/linux-unix-how-to-find-and-remove-files/>

#### NEW QUESTION 34

- (Exam Topic 1)

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**

**Explanation:**

Reference: <https://git-scm.com/book/en/v2/Git-Basics-Working-with-Remotes>

#### NEW QUESTION 35

- (Exam Topic 1)

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**

**Explanation:**

Reference:

[https://access.redhat.com/documentation/en-us/red\\_hat\\_enterprise\\_linux/6/html/installation\\_guide/sn-automatin](https://access.redhat.com/documentation/en-us/red_hat_enterprise_linux/6/html/installation_guide/sn-automatin)

#### NEW QUESTION 40

- (Exam Topic 1)

Which of the following is the purpose of the vmlinuz file on a Linux system?

- A. To prevent a Linux kernel panic
- B. To start a Linux virtual machine
- C. To provide the executable kernel for the system
- D. To enable resource access to the network

**Answer: C**

**Explanation:**

Reference: <https://en.wikipedia.org/wiki/Vmlinuz>

#### NEW QUESTION 41

- (Exam Topic 1)

Which of the following configuration management tools is considered agentless?

- A. Ouppet
- B. Salt
- C. Ansible
- D. Chef

**Answer: C**

**Explanation:**

Reference: <https://www.intigua.com/blog/puppet-vs.-chef-vs.-ansible-vs.-saltstack>

#### NEW QUESTION 45

- (Exam Topic 1)

A file server is sharing a directory called /share between team members inside a company. The fileshare needs to be moved from serverA to /newshare located on serverB with all permissions and attributes preserved. Which of the following commands would BEST achieve this task?

- A. rsync -aHAX /share/\* serverB:/newshare
- B. dd if=/share/\* of=serverB:/newshare
- C. tar -cvf /share/\* serverB:/newshare
- D. mirrorlv /share/\* serverB:/newshare



**Answer:** C

#### NEW QUESTION 48

- (Exam Topic 1)

A Linux administrator needs the “tech” account to have the option to run elevated commands as root. Which of the following commands would BEST meet this goal?

- A. \$ su – tech –c “/bin/bash”
- B. # usermod –aG wheel tech
- C. # sudo –l tech
- D. # groupadd –u tech –g root

**Answer:** C

#### NEW QUESTION 52

- (Exam Topic 1)

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

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

**Answer:** C

#### Explanation:

<https://staff.eecis.udel.edu/docs/printing/linux/#:~:text=To%20find%20the%20default%20printer,want%20Asto> <https://www.computerhope.com/unix/ulpstat.htm>

#### NEW QUESTION 55

- (Exam Topic 1)

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`

**Answer:** D

#### Explanation:

A higher value of priority actually makes the process lower priority; it means the process demands fewer system resources (and therefore is a "nicer" process). A lower priority value means the process demands more resources, possibly denying those resources to processes that are "nicer".

#### NEW QUESTION 57

- (Exam Topic 1)

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

#### Explanation:

Reference: <https://www.linux.com/learn/intro-to-linux/2017/3/how-format-storage-devices-linux>

#### NEW QUESTION 62

- (Exam Topic 1)

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 64

- (Exam Topic 1)

A Linux administrator opens a ticket to have an external hard drive mounted. As a security policy, external storage kernel modules are disabled. Which of the following is the BEST command for adding the proper kernel module to enable external storage modules?

- A. `rmmod /lib/modules/3.6.12-100-generic/kernel/drivers/usb/storage/usb-storage.ko`
- B. `modinfo /lib/modules/3.6.12-100-generic/kernel/drivers/usb/storage/usb-storage.ko`
- C. `depmod /lib/modules/3.6.12-100-generic/kernel/drivers/usb/storage/usb-storage.ko`
- D. `insmod /lib/modules/3.6.12-100-generic/kernel/drivers/usb/storage/usb-storage.ko`

**Answer:** D

**Explanation:**

Reference: <https://www.cyberciti.biz/faq/linux-how-to-load-a-kernel-module-automatically-at-boot-time/>

**NEW QUESTION 69**

- (Exam Topic 1)

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

**Explanation:**

Reference:

[https://access.redhat.com/documentation/en-us/red\\_hat\\_enterprise\\_linux/7/html/networking\\_guide/sec\\_configur](https://access.redhat.com/documentation/en-us/red_hat_enterprise_linux/7/html/networking_guide/sec_configur)

**NEW QUESTION 71**

- (Exam Topic 1)

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 74**

- (Exam Topic 1)

Ann, a junior systems administrator, is required to add a line to the `/etc/yum.conf` file. However, she receives the following error message when she tries to add the line:

```
root@comptia:~# echo "line" > /etc/yum.conf
-su: /etc/yum.conf: Operation not permitted
```

Ann performs some diagnostics to attempt to find the root cause:

```
root@comptia:~# ls -l /etc/yum.conf
-rw-r--r-- 1 root root 970 Jan 30 2018 /etc/yum.conf
```

```
root@comptia:~# lsattr /etc/yum.conf
----i-----e-- /etc/yum.conf
```

```
root@comptia:~# df -i /etc/yum/conf
Filesystem      Inodes    IUsed    IFree   IUse%  Mounted on
/dev/sdal       524288   192861   331427   37%    /
```

Which of the following commands should Ann execute to write content to `/etc/yum`?

- A. `chmod 755 /etc/yum.conf`
- B. `setfacl -m m:rw /etc/yum.conf`
- C. `chattr -l /etc/yum.conf`
- D. `setenforce 0`

**Answer:** C

**Explanation:**

<https://www.linuxtoday.com/upload/5-chattr-commands-to-make-important-files-immutable-unchangeable-in-li>

**NEW QUESTION 79**

- (Exam Topic 1)

An administrator needs to generate a list of services that are listening on TCP and/or UDP ports. Which of the following tools should the administrator use?

- A. ethtool
- B. route
- C. netstat
- D. portmap

**Answer: C**

**Explanation:**

Reference: <https://www.tecmint.com/find-open-ports-in-linux/>

#### NEW QUESTION 83

- (Exam Topic 1)

Which of the following is the purpose of the monitoring server role?

- A. To aggregate web traffic to watch which websites employees are visiting
- B. To collect status and performance information about the servers in an environment
- C. To provide user authentication services to a network
- D. To provide real-time analysis of potential threats to the organization

**Answer: B**

**Explanation:**

Network and server monitoring allows the Network Administrator to see how hardware and software are performing. We can look for certain signs or warnings that the system is not working efficiently and take action to fix things to prevent system degradation or failure.

#### NEW QUESTION 85

- (Exam Topic 1)

A Linux administration is using a Linux system as a router. During the tests, the administrator discovers that IP packets are not being sent between the configured interfaces.

Which of the following commands enables this feature for IPv4 networks?

- A. cat /proc/sys/net/ipv4/ip\_route > 1
- B. echo "1" > /proc/sys/net/ipv4/ip\_forward
- C. echo "1" > /proc/sys/net/ipv4/ip\_route
- D. echo "1" > /proc/sys/net/ipv4/ip\_net

**Answer: B**

#### NEW QUESTION 90

- (Exam Topic 1)

A systems administrator is configuring options on a newly installed Linux VM that will be deployed to the Pacific time zone. Which of the following sets of commands should the administrator execute to accurately configure the correct time settings?

- A. cd /etcln -s /usr/share/zoneinfo/US/Pacific localtime
- B. cd /usr/localln -s /usr/share/zoneinfo/US/Pacific zoneinfo
- C. cd /etc/localln -s /usr/share/zoneinfo/US/Pacific localtime
- D. cd /usr/share/localln -s /usr/share/zoneinfo/US/Pacific localectl

**Answer: A**

#### NEW QUESTION 95

- (Exam Topic 1)

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: D**

#### NEW QUESTION 99

- (Exam Topic 1)

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

**Explanation:**

Reference: <https://www.sfu.ca/computing/about/support/tips/remote-to-linux-with-gui.html>

#### NEW QUESTION 102

- (Exam Topic 1)

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

**Explanation:**

Reference: <https://geekflare.com/how-to-auto-start-services-on-boot-in-linux/>

#### NEW QUESTION 107

- (Exam Topic 1)

An administrator needs to see the type of CPU that a server is running. Which of the following files contains this information?

- A. /proc/cpuinfo
- B. /etc/devices/info.conf
- C. /dev/proc/cpu
- D. /sys/dev/cpuinfo

**Answer:** A

**Explanation:**

Reference: <https://www.binarytides.com/linux-cpu-information/>

#### NEW QUESTION 112

- (Exam Topic 1)

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 116

- (Exam Topic 1)

A systems administrator installs a simple package, but the Linux system returns the following error: rpmdb open fails. To verify if there is a problem in the RPM database, the systems administrator runs the following command:

```
# yum check
error: db4 error(11) from dbenv->open: Resource temporarily unavailable
error: cannot open Packages index using db4 - Resource temporarily unavailable (11)
error cannot open Packages database in /var/lib/rpm
CRITICAL:yum:main:
Error: rpmdb open fails
```

Which of the following commands should the systems administrator run NEXT to resolve this issue?

- A. cd/var/lib/rpm; rpm --rebuilddb ; rm -f \_db\*; yum clean all
- B. cd/var/lib/rpm; rpm -qd; rpm --rebuilddb; yum clean all
- C. cd/var/lib/rpm; rpm -qa; rm -f \_db\*; yum clean all
- D. cd/var/lib/rpm; rm -f \_db\*; rpm --rebuilddb; yum clean all

**Answer: C**

#### NEW QUESTION 120

- (Exam Topic 1)

The development team has automated their software build process so each time a change is submitted to the source code repository, a new software build is compiled. They are requesting that the Linux operations team look into automating the deployment of the software build into the test environment. Which of the following is the benefit to the development team for implementing deployment automation?

- A. To ensure the build commits are also deployed to the test environment
- B. To enable notifications when builds are deployed to the test environment
- C. To ensure software builds in test are not accidentally deployed to production
- D. To streamline the deployment process for deploying builds into test environments

**Answer: D**

#### NEW QUESTION 123

- (Exam Topic 1)

A Linux administrator installed a new network adapter and temporarily disabled the network service from starting on boot. The partial output of chkconfig is as follows:

```
network 0:off 1:off 2:off 3:off 4:off 5:off 6:off
```

Which of the following commands BEST describes how the administrator should re-enable the network service?

- A. chkconfig --level 0 network on
- B. chkconfig --level 0-6 network on
- C. chkconfig --level 6 network on



- D. chkconfig --level 12 network on
- E. chkconfig --level 345 network on

**Answer:** E

**Explanation:**

Reference: <https://www.thegeekdiary.com/how-to-enable-or-disable-service-on-boot-with-chkconfig/>

**NEW QUESTION 126**

- (Exam Topic 1)

A company wants to ensure that all newly created files can be modified only by their owners and that all new directory content can be changed only by the creator of the directory. Which of the following commands will help achieve this task?

- A. umask 0022
- B. umask 0012
- C. chmod -R 0644 /
- D. chmod -R 0755 /

**Answer:** A

**Explanation:**

Reference: <https://www.computerhope.com/unix/uumask.htm>

**NEW QUESTION 127**

- (Exam Topic 1)

Two specific users need access to a directory owned by root where backups are located. Which of the following commands would BEST ensure the specified users can access the backup files?

- A. umask
- B. chcon
- C. chmod
- D. setfacl

**Answer:** D

**NEW QUESTION 128**

- (Exam Topic 1)

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

**Explanation:**

Reference: <https://www.keycdn.com/support/what-is-latency>

**NEW QUESTION 133**

- (Exam Topic 1)

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

**Explanation:**

Reference: <https://shapeshed.com/unix-ping/>

**NEW QUESTION 138**

- (Exam Topic 1)

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



**Explanation:**

Reference:

<https://unix.stackexchange.com/questions/232946/how-to-copy-all-files-from-a-directory-to-a-remote-directory>

**NEW QUESTION 139**

- (Exam Topic 1)

A junior Linux administrator is optimizing a system in which an application needs to take priority 0 when running the process. The administrator runs the `ps` command and receives the following output:

PID	PPID	TTY	Time	CMD
8481	2	pts/17	16:40:00	app
9854	0	pts/17	16:40:00	ps

Given this scenario, which of the following steps will address this issue?

- A. Issue the command `ronice -n 0 -p 8481`
- B. Issue the command `renice -p 8481`
- C. Issue the command `renice -p 0 -n 8481`
- D. Issue the command `renice -n 8481`

**Answer: D**

**NEW QUESTION 142**

- (Exam Topic 1)

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**

**Explanation:**

Reference: <https://linuxhint.com/list-usb-devices-linux/>

**NEW QUESTION 143**

- (Exam Topic 1)

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`

**Answer: A**

**Explanation:**

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

**NEW QUESTION 147**

- (Exam Topic 1)

A systems administrator wants to download a package from a remote server. Which of the following are the BEST commands to use for this task? (Choose two.)

- A. `curl`
- B. `wget`
- C. `make`
- D. `tar`
- E. `zip`
- F. `nc`

**Answer: BF**

**Explanation:**

Reference: <https://www.linuxtechi.com/nc-ncat-command-examples-linux-systems/> <https://www.unifiedremote.com/tutorials/how-to-install-unified-remote-server-deb-via-terminal>

**NEW QUESTION 152**

- (Exam Topic 1)

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 157

- (Exam Topic 1)

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 162

- (Exam Topic 1)

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

#### Explanation:

Reference: <https://www.tecmint.com/set-system-locales-in-linux/>

#### NEW QUESTION 165

- (Exam Topic 1)

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 168

- (Exam Topic 1)

Which of the following is a difference between YAML and JSON?

- A. Users can comment in YAML but not in JSON
- B. JSON only curly brackets, while YAML only uses square brackets
- C. JSON is used in web development, while YAML is used solely in back-end systems.
- D. YAML has been deprecated for JSON.

**Answer:** A

**Explanation:**

Reference: <https://www.json2yaml.com/yaml-vs-json>

**NEW QUESTION 170**

- (Exam Topic 1)

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-C2. bg3. watch df /var4. CTRL-C5. fg6. CTRL-Z
- B. 1. CTRL-C2. fg3. watch df /var4. CTRL-Z5. bg6. CTRL-Z
- C. 1. CTRL-Z2. bg3. watch df /var4. CTRL-C5. fg6. CTRL-C
- D. 1. CTRL-Z2. bg3. watch df /var4. CTRL-Z5. fg6. CTRL-C

**Answer:** D

**NEW QUESTION 175**

- (Exam Topic 1)

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 179**

- (Exam Topic 1)

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 184**

- (Exam Topic 1)

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:**

Graphical user interface, application Description automatically generated

Reference:

<https://www.rootusers.com/how-to-increase-the-size-of-a-linux-lvm-by-expanding-the-virtual-machine-disk/>

**NEW QUESTION 188**

- (Exam Topic 1)

Which of the following is modified to reconfigure the boot environment?

- A. grub-mkconfig  
B. grub.cfg  
C. update-grub  
D. grub2-mkconfig

**Answer:** C

**Explanation:**

Reference: <https://tipsonubuntu.com/2016/07/20/grub2-boot-order-ubuntu-16-04/>

**NEW QUESTION 192**

- (Exam Topic 1)

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 196**

- (Exam Topic 1)

You have been asked to parse a log file of logins to determine various information about who is logging in and when.

**INSTRUCTIONS**

Open and inspect the Login log file.

Drag and drop the correct commands onto the output that was generated from that command. Tokens can be used only once and not all will be used.



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

### Command Output

View Login Log

Commands

grep "Mar 13" lastlog

ls "[A-Z]" "[a-z]" & lastlog | grep -i "Mar 13"

awk '{ print \$1\$2\$3\$4\$5\$6\$7\$8\$9\$10\$11\$12\$13\$14\$15\$16\$17\$18\$19\$20\$21\$22\$23\$24\$25\$26\$27\$28\$29\$30\$31\$32\$33\$34\$35\$36\$37\$38\$39\$40\$41\$42\$43\$44\$45\$46\$47\$48\$49\$50\$51\$52\$53\$54\$55\$56\$57\$58\$59\$60\$61\$62\$63\$64\$65\$66\$67\$68\$69\$70\$71\$72\$73\$74\$75\$76\$77\$78\$79\$80\$81\$82\$83\$84\$85\$86\$87\$88\$89\$90\$91\$92\$93\$94\$95\$96\$97\$98\$99\$100\$101\$102\$103\$104\$105\$106\$107\$108\$109\$110\$111\$112\$113\$114\$115\$116\$117\$118\$119\$120\$121\$122\$123\$124\$125\$126\$127\$128\$129\$130\$131\$132\$133\$134\$135\$136\$137\$138\$139\$140\$141\$142\$143\$144\$145\$146\$147\$148\$149\$150\$151\$152\$153\$154\$155\$156\$157\$158\$159\$160\$161\$162\$163\$164\$165\$166\$167\$168\$169\$170\$171\$172\$173\$174\$175\$176\$177\$178\$179\$180\$181\$182\$183\$184\$185\$186\$187\$188\$189\$190\$191\$192\$193\$194\$195\$196\$197\$198\$199\$200\$201\$202\$203\$204\$205\$206\$207\$208\$209\$210\$211\$212\$213\$214\$215\$216\$217\$218\$219\$220\$221\$222\$223\$224\$225\$226\$227\$228\$229\$230\$231\$232\$233\$234\$235\$236\$237\$238\$239\$240\$241\$242\$243\$244\$245\$246\$247\$248\$249\$250\$251\$252\$253\$254\$255\$256\$257\$258\$259\$260\$261\$262\$263\$264\$265\$266\$267\$268\$269\$270\$271\$272\$273\$274\$275\$276\$277\$278\$279\$280\$281\$282\$283\$284\$285\$286\$287\$288\$289\$290\$291\$292\$293\$294\$295\$296\$297\$298\$299\$300\$301\$302\$303\$304\$305\$306\$307\$308\$309\$310\$311\$312\$313\$314\$315\$316\$317\$318\$319\$320\$321\$322\$323\$324\$325\$326\$327\$328\$329\$330\$331\$332\$333\$334\$335\$336\$337\$338\$339\$340\$341\$342\$343\$344\$345\$346\$347\$348\$349\$350\$351\$352\$353\$354\$355\$356\$357\$358\$359\$360\$361\$362\$363\$364\$365\$366\$367\$368\$369\$370\$371\$372\$373\$374\$375\$376\$377\$378\$379\$380\$381\$382\$383\$384\$385\$386\$387\$388\$389\$390\$391\$392\$393\$394\$395\$396\$397\$398\$399\$400\$401\$402\$403\$404\$405\$406\$407\$408\$409\$410\$411\$412\$413\$414\$415\$416\$417\$418\$419\$420\$421\$422\$423\$424\$425\$426\$427\$428\$429\$430\$431\$432\$433\$434\$435\$436\$437\$438\$439\$440\$441\$442\$443\$444\$445\$446\$447\$448\$449\$450\$451\$452\$453\$454\$455\$456\$457\$458\$459\$460\$461\$462\$463\$464\$465\$466\$467\$468\$469\$470\$471\$472\$473\$474\$475\$476\$477\$478\$479\$480\$481\$482\$483\$484\$485\$486\$487\$488\$489\$490\$491\$492\$493\$494\$495\$496\$497\$498\$499\$500\$501\$502\$503\$504\$505\$506\$507\$508\$509\$510\$511\$512\$513\$514\$515\$516\$517\$518\$519\$520\$521\$522\$523\$524\$525\$526\$527\$528\$529\$530\$531\$532\$533\$534\$535\$536\$537\$538\$539\$540\$541\$542\$543\$544\$545\$546\$547\$548\$549\$550\$551\$552\$553\$554\$555\$556\$557\$558\$559\$560\$561\$562\$563\$564\$565\$566\$567\$568\$569\$570\$571\$572\$573\$574\$575\$576\$577\$578\$579\$580\$581\$582\$583\$584\$585\$586\$587\$588\$589\$590\$591\$592\$593\$594\$595\$596\$597\$598\$599\$600\$601\$602\$603\$604\$605\$606\$607\$608\$609\$610\$611\$612\$613\$614\$615\$616\$617\$618\$619\$620\$621\$622\$623\$624\$625\$626\$627\$628\$629\$630\$631\$632\$633\$634\$635\$636\$637\$638\$639\$640\$641\$642\$643\$644\$645\$646\$647\$648\$649\$650\$651\$652\$653\$654\$655\$656\$657\$658\$659\$660\$661\$662\$663\$664\$665\$666\$667\$668\$669\$670\$671\$672\$673\$674\$675\$676\$677\$678\$679\$680\$681\$682\$683\$684\$685\$686\$687\$688\$689\$690\$691\$692\$693\$694\$695\$696\$697\$698\$699\$700\$701\$702\$703\$704\$705\$706\$707\$708\$709\$710\$711\$712\$713\$714\$715\$716\$717\$718\$719\$720\$721\$722\$723\$724\$725\$726\$727\$728\$729\$730\$731\$732\$733\$734\$735\$736\$737\$738\$739\$740\$741\$742\$743\$744\$745\$746\$747\$748\$749\$750\$751\$752\$753\$754\$755\$756\$757\$758\$759\$760\$761\$762\$763\$764\$765\$766\$767\$768\$769\$770\$771\$772\$773\$774\$775\$776\$777\$778\$779\$780\$781\$782\$783\$784\$785\$786\$787\$788\$789\$790\$791\$792\$793\$794\$795\$796\$797\$798\$799\$800\$801\$802\$803\$804\$805\$806\$807\$808\$809\$810\$811\$812\$813\$814\$815\$816\$817\$818\$819\$820\$821\$822\$823\$824\$825\$826\$827\$828\$829\$830\$831\$832\$833\$834\$835\$836\$837\$838\$839\$840\$841\$842\$843\$844\$845\$846\$847\$848\$849\$850\$851\$852\$853\$854\$855\$856\$857\$858\$859\$860\$861\$862\$863\$864\$865\$866\$867\$868\$869\$870\$871\$872\$873\$874\$875\$876\$877\$878\$879\$880\$881\$882\$883\$884\$885\$886\$887\$888\$889\$890\$891\$892\$893\$894\$895\$896\$897\$898\$899\$900\$901\$902\$903\$904\$905\$906\$907\$908\$909\$910\$911\$912\$913\$914\$915\$916\$917\$918\$919\$920\$921\$922\$923\$924\$925\$926\$927\$928\$929\$930\$931\$932\$933\$934\$935\$936\$937\$938\$939\$940\$941\$942\$943\$944\$945\$946\$947\$948\$949\$950\$951\$952\$953\$954\$955\$956\$957\$958\$959\$960\$961\$962\$963\$964\$965\$966\$967\$968\$969\$970\$971\$972\$973\$974\$975\$976\$977\$978\$979\$980\$981\$982\$983\$984\$985\$986\$987\$988\$989\$990\$991\$992\$993\$994\$995\$996\$997\$998\$999\$1000\$1001\$1002\$1003\$1004\$1005\$1006\$1007\$1008\$1009\$1010\$1011\$1012\$1013\$1014\$1015\$1016\$1017\$1018\$1019\$1020\$1021\$1022\$1023\$1024\$1025\$1026\$1027\$1028\$1029\$1030\$1031\$1032\$1033\$1034\$1035\$1036\$1037\$1038\$1039\$1040\$1041\$1042\$1043\$1044\$1045\$1046\$1047\$1048\$1049\$1050\$1051\$1052\$1053\$1054\$1055\$1056\$1057\$1058\$1059\$1060\$1061\$1062\$1063\$1064\$1065\$1066\$1067\$1068\$1069\$1070\$1071\$1072\$1073\$1074\$1075\$1076\$1077\$1078\$1079\$1080\$1081\$1082\$1083\$1084\$1085\$1086\$1087\$1088\$1089\$1090\$1091\$1092\$1093\$1094\$1095\$1096\$1097\$1098\$1099\$1100\$1101\$1102\$1103\$1104\$1105\$1106\$1107\$1108\$1109\$1110\$1111\$1112\$1113\$1114\$1115\$1116\$1117\$1118\$1119\$1120\$1121\$1122\$1123\$1124\$1125\$1126\$1127\$1128\$1129\$1130\$1131\$1132\$1133\$1134\$1135\$1136\$1137\$1138\$1139\$1140\$1141\$1142\$1143\$1144\$1145\$1146\$1147\$1148\$1149\$1150\$1151\$1152\$1153\$1154\$1155\$1156\$1157\$1158\$1159\$1160\$1161\$1162\$1163\$1164\$1165\$1166\$1167\$1168\$1169\$1170\$1171\$1172\$1173\$1174\$1175\$1176\$1177\$1178\$1179\$1180\$1181\$1182\$1183\$1184\$1185\$1186\$1187\$1188\$1189\$1190\$1191\$1192\$1193\$1194\$1195\$1196\$1197\$1198\$1199\$1200\$1201\$1202\$1203\$1204\$1205\$1206\$1207\$1208\$1209\$1210\$1211\$1212\$1213\$1214\$1215\$1216\$1217\$1218\$1219\$1220\$1221\$1222\$1223\$1224\$1225\$1226\$1227\$1228\$1229\$1230\$1231\$1232\$1233\$1234\$1235\$1236\$1237\$1238\$1239\$1240\$1241\$1242\$1243\$1244\$1245\$1246\$1247\$1248\$1249\$1250\$1251\$1252\$1253\$1254\$1255\$1256\$1257\$1258\$1259\$1260\$1261\$1262\$1263\$1264\$1265\$1266\$1267\$1268\$1269\$1270\$1271\$1272\$1273\$1274\$1275\$1276\$1277\$1278\$1279\$1280\$1281\$1282\$1283\$1284\$1285\$1286\$1287\$1288\$1289\$1290\$1291\$1292\$1293\$1294\$1295\$1296\$1297\$1298\$1299\$1300\$1301\$1302\$1303\$1304\$1305\$1306\$1307\$1308\$1309\$1310\$1311\$1312\$1313\$1314\$1315\$1316\$1317\$1318\$1319\$1320\$1321\$1322\$1323\$1324\$1325\$1326\$1327\$1328\$1329\$1330\$1331\$1332\$1333\$1334\$1335\$1336\$1337\$1338\$1339\$1340\$1341\$1342\$1343\$1344\$1345\$1346\$1347\$1348\$1349\$1350\$1351\$1352\$1353\$1354\$1355\$1356\$1357\$1358\$1359\$1360\$1361\$1362\$1363\$1364\$1365\$1366\$1367\$1368\$1369\$1370\$1371\$1372\$1373\$1374\$1375\$1376\$1377\$1378\$1379\$1380\$1381\$1382\$1383\$1384\$1385\$1386\$1387\$1388\$1389\$1390\$1391\$1392\$1393\$1394\$1395\$1396\$1397\$1398\$1399\$1400\$1401\$1402\$1403\$1404\$1405\$1406\$1407\$1408\$1409\$1410\$1411\$1412\$1413\$1414\$1415\$1416\$1417\$1418\$1419\$1420\$1421\$1422\$1423\$1424\$1425\$1426\$1427\$1428\$1429\$1430\$1431\$1432\$1433\$1434\$1435\$1436\$1437\$1438\$1439\$1440\$1441\$1442\$1443\$1444\$1445\$1446\$1447\$1448\$1449\$1450\$1451\$1452\$1453\$1454\$1455\$1456\$1457\$1458\$1459\$1460\$1461\$1462\$1463\$1464\$1465\$1466\$1467\$1468\$1469\$1470\$1471\$1472\$1473\$1474\$1475\$1476\$1477\$1478\$1479\$1480\$1481\$1482\$1483\$1484\$1485\$1486\$1487\$1488\$1489\$1490\$1491\$1492\$1493\$1494\$1495\$1496\$1497\$1498\$1499\$1500\$1501\$1502\$1503\$1504\$1505\$1506\$1507\$1508\$1509\$1510\$1511\$1512\$1513\$1514\$1515\$1516\$1517\$1518\$1519\$1520\$1521\$1522\$1523\$1524\$1525\$1526\$1527\$1528\$1529\$1530\$1531\$1532\$1533\$1534\$1535\$1536\$1537\$1538\$1539\$1540\$1541\$1542\$1543\$1544\$1545\$1546\$1547\$1548\$1549\$1550\$1551\$1552\$1553\$1554\$1555\$1556\$1557\$1558\$1559\$1560\$1561\$1562\$1563\$1564\$1565\$1566\$1567\$1568\$1569\$1570\$1571\$1572\$1573\$1574\$1575\$1576\$1577\$1578\$1579\$1580\$1581\$1582\$1583\$1584\$1585\$1586\$1587\$1588\$1589\$1590\$1591\$1592\$1593\$1594\$1595\$1596\$1597\$1598\$1599\$1600\$1601\$1602\$1603\$1604\$1605\$1606\$1607\$1608\$1609\$1610\$1611\$1612\$1613\$1614\$1615\$1616\$1617\$1618\$1619\$1620\$1621\$1622\$1623\$1624\$1625\$1626\$1627\$1628\$1629\$1630\$1631\$1632\$1633\$1634\$1635\$1636\$1637\$1638\$1639\$1640\$1641\$1642\$1643\$1644\$1645\$1646\$1647\$1648\$1649\$1650\$1651\$1652\$1653\$1654\$1655\$1656\$1657\$1658\$1659\$1660\$1661\$1662\$1663\$1664\$1665\$1666\$1667\$1668\$1669\$1670\$1671\$1672\$1673\$1674\$1675\$1676\$1677\$1678\$1679\$1680\$1681\$1682\$1683\$1684\$1685\$1686\$1687\$1688\$1689\$1690\$1691\$1692\$1693\$1694\$1695\$1696\$1697\$1698\$1699\$1700\$1701\$1702\$1703\$1704\$1705\$1706\$1707\$1708\$1709\$1710\$1711\$1712\$1713\$1714\$1715\$1716\$1717\$1718\$1719\$1720\$1721\$1722\$1723\$1724\$1725\$1726\$1727\$1728\$1729\$1730\$1731\$1732\$1733\$1734\$1735\$1736\$1737\$1738\$1739\$1740\$1741\$1742\$1743\$1744\$1745\$1746\$1747\$1748\$1749\$1750\$1751\$1752\$1753\$1754\$1755\$1756\$1757\$1758\$1759\$1760\$1761\$1762\$1763\$1764\$1765\$1766\$1767\$1768\$1769\$1770\$1771\$1772\$1773\$1774\$1775\$1776\$1777\$1778\$1779\$1780\$1781\$1782\$1783\$1784\$1785\$1786\$1787\$1788\$1789\$1790\$1791\$1792\$1793\$1794\$1795\$1796\$1797\$1798\$1799\$1800\$1801\$1802\$1803\$1804\$1805\$1806\$1807\$1808\$1809\$1810\$1811\$1812\$1813\$1814\$1815\$1816\$1817\$1818\$1819\$1820\$1821\$1822\$1823\$1824\$1825\$1826\$1827\$1828\$1829\$1830\$1831\$1832\$1833\$1834\$1835\$1836\$1837\$1838\$1839\$1840\$1841\$1842\$1843\$1844\$1845\$1846\$1847\$1848\$1849\$1850\$1851\$1852\$1853\$1854\$1855\$1856\$1857\$1858\$1859\$1860\$1861\$1862\$1863\$1864\$1865\$1866\$1867\$1868\$1869\$1870\$1871\$1872\$1873\$1874\$1875\$1876\$1877\$1878\$1879\$1880\$1881\$1882\$1883\$1884\$1885\$1886\$1887\$1888\$1889\$1890\$1891\$1892\$1893\$1894\$1895\$1896\$1897\$1898\$1899\$1900\$1901\$1902\$1903\$1904\$1905\$1906\$1907\$1908\$1909\$1910\$1911\$1912\$1913\$1914\$1915\$1916\$1917\$1918\$1919\$1920\$1921\$1922\$1923\$1924\$1925\$1926\$1927\$1928\$1929\$1930\$1931\$1932\$1933\$1934\$1935\$1936\$1937\$1938\$1939\$1940\$1941\$1942\$1943\$1944\$1945\$1946\$1947\$1948\$1949\$1950\$1951\$1952\$1953\$1954\$1955\$1956\$1957\$1958\$1959\$1960\$1961\$1962\$1963\$1964\$1965\$1966\$1967\$1968\$1969\$1970\$1971\$1972\$1973\$1974\$1975\$1976\$1977\$1978\$1979\$1980\$1981\$1982\$1983\$1984\$1985\$1986\$1987\$1988\$1989\$1990\$1991\$1992\$1993\$1994\$1995\$1996\$1997\$1998\$1999\$2000\$2001\$2002\$2003\$2004\$2005\$2006\$2007\$2008\$2009\$2010\$2011\$2012\$2013\$2014\$2015\$2016\$2017\$2018\$2019\$2020\$2021\$2022\$2023\$2024\$2025\$2026\$2027\$2028\$2029\$2030\$2031\$2032\$2033\$2034\$2035\$2036\$2037\$2038\$2039\$2040\$2041\$2042\$2043\$2044\$2045\$2046\$2047\$2048\$2049\$2050\$2051\$2052\$2053\$2054\$2055\$2056\$2057\$2058\$2059\$2060\$2061\$2062\$2063\$2064\$2065\$2066\$2067\$2068\$2069\$2070\$2071\$2072\$2073\$2074\$2075\$2076\$2077\$2078\$2079\$2080\$2081\$2082\$2083\$2084\$2085\$2086\$2087\$2088\$2089\$2090\$2091\$2092\$2093\$2094\$2095\$2096\$2097\$2098\$2099\$2100\$2101\$2102\$2103\$2104\$2105\$2106\$2107\$2108\$2109\$2110\$2111\$2112\$2113\$2114\$2115\$2116\$2117\$2118\$2119\$2120\$2121\$2122\$2123\$2124\$2125\$2126\$2127\$2128\$2129\$2130\$2131\$2132\$2133\$2134\$2135\$2136\$2137\$2138\$2139\$2140\$2141\$2142\$2143\$2144\$2145\$2146\$2147\$2148\$2149\$2150\$2151\$2152\$2153\$2154\$2155\$2156\$2157\$2158\$2159\$2160\$2161\$2162\$2163\$2164\$2165\$2166\$2167\$2168\$2169\$2170\$2171\$2172\$2173\$2174\$2175\$2176\$2177\$2178\$2179\$2180\$2181\$2182\$2183\$2184\$2185\$2186\$2187\$2188\$2189\$2190\$2191\$2192\$2193\$2194\$2195\$2196\$2197\$2198\$2199\$2200\$2201\$2202\$2203\$2204\$2205\$2206\$2207\$2208\$2209\$2210\$2211\$2212\$2213\$2214\$2215\$2216\$2217\$2218\$2219\$2220\$2221\$2222\$2223\$2224\$2225\$2226\$2227\$2228\$2229\$2230\$2231\$2232\$2233\$2234\$2235\$2236\$2237\$2238\$2239\$2240\$2241\$2242\$2243\$2244\$2245\$2246\$2247\$2248\$2249\$2250\$2251\$2252\$2253\$2254\$2255\$2256\$2257\$2258\$2259\$2260\$2261\$2262\$2263\$2264\$2265\$2266\$2267\$2268\$2269\$2270\$2271\$2272\$2273\$2274\$2275\$2276\$2277\$2278\$2279\$2280\$2281\$2282\$2283\$2284\$2285\$2286\$2287\$2288\$2289\$2290\$2291\$2292\$2293\$2294\$2295\$2296\$2297\$2298\$2299\$2300\$2301\$2302\$2303\$2304\$2305\$2306\$2307\$2308\$2309\$2310\$2311\$2312\$2313\$2314\$2315\$2316\$2317\$2318\$2319\$2320\$2321\$2322\$2323\$2324\$2325\$2326\$2327\$2328\$2329\$2330\$2331\$2332\$2333\$2334\$2335\$2336\$2337\$2338\$2339\$2340\$2341\$2342\$2343\$2344\$2345\$2346\$2347\$2348\$2349\$2350\$2351\$2352\$2353\$2354\$2355\$2356\$2357\$2358\$2359\$2360\$2361\$2362\$2363\$2364\$2365\$2366\$2367\$2368\$2369\$2370\$2371\$2372\$2373\$2374\$2375\$2376\$2377\$2378\$2379\$2380\$2381\$2382\$2383\$2384\$2385\$2386\$2387\$2388\$2389\$2390\$2391\$2392\$2393\$2394\$2395\$2396\$2397\$2398\$2399\$2400\$2401\$2402\$2403\$2404\$2405\$2406\$2407\$2408\$2409\$2410\$2411\$2412\$2413\$2414\$2415\$2416\$2417\$2418\$2419\$2420\$2421\$2422\$2423\$2424\$2425\$2426\$2427\$2428\$2429\$2430\$2431\$2432\$2433\$2434\$2435\$2436\$2437\$2438\$2439\$2440\$2441\$2442\$2443\$2444\$2445\$2446\$2447\$2448\$2449\$2450\$2451\$2452\$2453\$2454\$2455\$2456\$2457\$2458\$2459\$2460\$2461\$2462\$2463\$2464\$2465\$2466\$2467\$2468\$2469\$2470\$2471\$2472\$2473\$2474\$2475\$2476\$2477\$2478\$2479\$2480\$2481\$2482\$2483\$2484\$2485\$2486\$2487\$2488\$2489\$2490\$2491\$2492\$2493\$2494\$2495\$2496\$2497\$2498\$2499\$2500\$2501\$2502\$2503\$2504\$2505\$2506\$2507\$2508\$2509\$2510\$2511\$2512\$2513\$2514\$2515\$2516\$2517\$2518\$2519\$2520\$2521\$2522\$2523\$2524\$2525\$2526\$2527\$2528\$2529\$2530\$2531\$2532\$2533\$2534\$2535\$2536\$2537\$2538\$2539\$2540\$2541\$2542\$2543\$2544\$2545\$2546\$2547\$2548\$2549\$2550\$2551\$2552\$2553\$2554\$2555\$2556\$2557\$2558\$2559\$2560\$2561\$2562\$2563\$2564\$2565\$2566\$2567\$2568\$2569\$2570\$2571\$2572\$2573\$2574\$2575\$2576\$2577\$2578\$2579\$2580\$2581\$2582\$2583\$2584\$2585\$2586\$2587\$2588\$2589\$2590\$2591\$2592\$2593\$2594\$2595\$2596\$2597\$

```
[comptia@localhost exercise]$ sed '[A-Z]' '(s-z)' < lastlog | grep -i "mar 12"
```

COMPTIA	PTS/1	:0	Sun Mar 12 14:20 - 09:48 (1+19:20)
CHRIS	PTS/2	:0	Sun Mar 12 14:52 - 09:48 (1+18:56)
REBOOT	SYSTEM BOOT	3.10.0-693.21.1	Sun Mar 12 11:01 - 13:26 (2+02:24)
LEE	PTS/2	:0	Sun Mar 12 14:52 - 09:48 (1+18:56)
COMPTIA	PTS/0	:0	Sun Mar 12 14:14 - 14:22 (00:07)
ERIC	PTS/2	:0	Sun Mar 12 14:52 - 09:48 (1+18:56)
COMPTIA	PTS/0	:0	Sun Mar 12 11:37 - 11:58 (00:20)
REBOOT	SYSTEM BOOT	3.10.0-693.21.1	Sun Mar 12 11:02 - 13:26 (2+02:23)
DAVID	PTS/2	:0	Sun Mar 12 14:52 - 09:48 (1+18:56)
COMPTIA	PTS/0	:0	Sun Mar 12 09:53 - 10:59 (01:05)
COMPTIA	:0	:0	Sun Mar 12 11:01 - 11:01 (00:00)
REBOOT	SYSTEM BOOT	3.10.0-693.21.1	Sun Mar 12 10:59 - 13:26 (2+02:26)
COMPTIA	:0	:0	Sun Mar 12 11:03 - 13:26 (2+02:22)
COMPTIA	PTS/2	:0	Sun Mar 12 14:52 - 09:48 (1+18:56)
ANN	PTS/2	:0	Sun Mar 12 14:52 - 09:48 (1+18:56)
CARL	PTS/2	:0	Sun Mar 12 14:52 - 09:48 (1+18:56)
REBOOT	SYSTEM BOOT	3.10.0-693.EL7.X	Sun Mar 12 09:39 - 10:59 (01:19)
JOE	PTS/2	:0	Sun Mar 12 14:52 - 09:48 (1+18:56)
COMPTIA	:0	:0	Sun Mar 12 09:43 - DOWN (01:15)
COMPTIA	PTS/0	:0	Sun Mar 12 11:04 - 11:34 (00:30)

Graphical user interface, text, application Description automatically generated

```
[comptia@localhost exercise]$ grep -i "mar 12" lastlog | sed 's/([a-z])/1A-11/g'
```

```
ann
carl
chris
comptia
david
eric
joe
lee
reboot
```

## NEW QUESTION 197

- (Exam Topic 1)

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?

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

- Option A
- Option B



- C. Option C
- D. Option D

**Answer:** D

#### NEW QUESTION 202

- (Exam Topic 2)

A Linux administrator is developing a Bash script to close specific ports on a server firewall. The administrator is not certain of the default port for the Internet Message Access Protocol.

Which of the following files should the administrator check to determine the default port?

- A. /etc/network
- B. /etc/default/ufw
- C. /etc/resolv.conf
- D. /etc/services

**Answer:** D

#### NEW QUESTION 203

- (Exam Topic 2)

An administrator needs to download a monitoring agent called node\_exporter.0.16.0-Linux.amd64 from the internal web page <https://company.local/downloads/>. The server does not have graphical interface.

Which of the following commands will accomplish this task?

- A. curl -K [https://company.local/downloads/node\\_exporter.0.16.0-Linux.amd64.tar.gz](https://company.local/downloads/node_exporter.0.16.0-Linux.amd64.tar.gz) -o node\_exporter.tar.gz
- B. curl -k [https://company.local/downloads/node\\_exporter.0.16.0-Linux.amd64.tar.gz](https://company.local/downloads/node_exporter.0.16.0-Linux.amd64.tar.gz) -o node\_exporter.tar.gz
- C. curl --auth [https://company.local/downloads/node\\_exporter.0.16.0-Linux.amd64.tar.gz](https://company.local/downloads/node_exporter.0.16.0-Linux.amd64.tar.gz)
- D. curl -A [https://company.local/downloads/node\\_exporter.0.16.0-Linux.amd64.tar.gz](https://company.local/downloads/node_exporter.0.16.0-Linux.amd64.tar.gz) -o node\_exporter.tar.gz

**Answer:** B

#### NEW QUESTION 207

- (Exam Topic 2)

An administrator is trying to access a server in a cloud via SSH but is unable to log in. The administrator determines the company's IP address has been blocklisted on the server.

Which of the following should the administrator do to prevent being blocked in the future?

- A. Add the company's TLS certificate to the authorized\_keys and known\_hosts files.
- B. Modify the cloud provider security rules to allow all connectors from the company's IP address.
- C. Add the company's IP address from the /etc/hosts.allow.
- D. Turn on SELinux and enable the SSH context.

**Answer:** C

#### NEW QUESTION 209

- (Exam Topic 2)

A junior administrator is configuring local name lookups for fully qualified domain names in an isolated environment. The administrator is given a checklist and must accomplish the following tasks:

- Add localhost with loopback address.
- Add 192.168.192.12/24 to resolve to database01.comptia.org

Given this scenario, which of the following steps should the administrator perform to accomplish these tasks?

- A. Open the /etc/nsswitch.conf file with a file editor and add the following lines: 127.0.0.1 localhost 192.168.192.12 database01.comptia.org
- B. Open the /etc/dhcpd.conf file with a file editor and add the following lines: 127.0.0.1 localhost 192.168.192.12 database01.comptia.org
- C. Open the /etc/hosts file with a file editor and add the following lines: 127.0.0.1 localhost 192.168.192.12 database01.comptia.org
- D. Open the /etc/network file with a file editor and add the following lines: 127.0.0.1 localhost 192.168.192.12 database01.comptia.org

**Answer:** C

#### Explanation:

Open the /etc/hosts file with a file editor and add the following lines: 127.0.0.1 localhost 192.168.192.12 database01.comptia.org

Modify Hosts File in Linux

On Linux, the full path to the file is /etc/hosts.

In your terminal window, open the hosts file using your favorite text editor :

```
$ sudo nano /etc/hosts
```

#### NEW QUESTION 210

- (Exam Topic 2)

A Linux administrator needs to prevent the Postfix mail transfer agent from starting on boot. Which of the following commands will accomplish this task?

- A. systemctl stop postfix.service
- B. /etc/init.d/postfix stop
- C. systemctl disable postfix.service
- D. /etc/init.d/postfix disable

**Answer:** B

**Explanation:**

Reference:

<https://www.cyberciti.biz/faq/linux-unix-start-stop-restart-postfix/>

**NEW QUESTION 214**

- (Exam Topic 2)

A systems administrator is implementing disk quotas on /home. During the process, the administrator receives the following error:

Cannot find filesystem to check or filesystem not mounted with user quota option.

Which of the following is the correct order of steps the administrator should follow to resolve this error?

- A. \* 1. Verify if /home has quotas enabled in /etc/fstab and, if not, enable it.\* 2. Remount /home.\* 3. Create the quota database files and generate the disk usage table.\* 4. Assign user quota policies.
- B. \* 1. Create the quota database files and generate the disk usage table.\* 2. Verify if /home has quotas enabled in /etc/fstab and, if not, enable it.\* 3. Remount /home.\* 4. Assign user quota policies.
- C. \* 1. Verify if /home has quotas enabled in /etc/fstab and, if not, enable it.\* 2. Create the quota database files and generate the disk usage table.\* 3. Remount /home.\* 4. Assign user quota policies.
- D. \* 1. Assign user quota policies.\* 2. Verify if /home has quotas enabled in /etc/fstab and, if not, enable it.\* 3. Create the quota database files and generate the disk usage table.\* 4. Remount /home.

**Answer:** A

**Explanation:**

Reference: <https://www.howtoforge.com/community/threads/quotacheck-cannot-find-filesystem-tocheck.25954/>

**NEW QUESTION 218**

- (Exam Topic 2)

A systems administrator logs into a Linux server and must identify whether the server is a physical or virtual machine.

Which of the following commands should the administrator run?

- A. vmstat
- B. cat /proc/cpuinfo
- C. dmidecode
- D. modinfo

**Answer:** C

**NEW QUESTION 223**

- (Exam Topic 2)

An administrator notices the HISTSIZE variable is 50, using the commands below:

```
HISTSIZE=50
```

```
export HISTSIZE
```

The administrator rechecks the HISTSIZE value using echo HISTSIZE but gets no value. Which of the following commands should the administrator use to retrieve its value?

- A. printenv | grep \$HISTSIZE
- B. echo HISTSIZE
- C. printf HISTSIZE
- D. grep \$HISTSIZE

**Answer:** B

**Explanation:**

Reference: <https://superuser.com/QUESTION NO:s/478926/histsize-not-being-set-in-bash>

**NEW QUESTION 226**

- (Exam Topic 2)

An administrator is troubleshooting to determine why backups are failing on a particular server. The administrator runs the ps command and analyzes the following output.

USER	PID	%CPU	%MEM	VSZ	RSS	TTY	STAT	START	TIME	COMMAND
bkup	13443	0.0	0.0	7628	918	pts/2	S+	14:30	0:00	grep --color
bkup	10112	0.0	0.0	0 0	?? Z	09:22	0:00	backuputil		

The administrator runs kill -9 10112 yet the process remains. Which of the following BEST describes the issue and how to fix it?

- A. The backup process is still running and needs to be killed with kill -9 --force 10112.
- B. The backup process is a zombie process, and the system needs to be rebooted.
- C. The backup process is out of memory, and more memory needs to be added to the system.
- D. The backup process is using 100% of system resources and needs to be rescheduled with renice.

**Answer:** B

**NEW QUESTION 228**

- (Exam Topic 2)

A Linux administrator is configuring a server to log security events for the ping command while allowing the request to occur. The Linux server is using AppArmor to manage its security services.

Which of the following commands is the BEST option?

- A. aa-complain /bin/ping
- B. aa-disable /bin/ping
- C. aa-unconfined /bin/ping
- D. aa-enforce /bin/ping

**Answer:** A

#### NEW QUESTION 231

- (Exam Topic 2)

A junior systems administrator is tasked with providing the network\_administrators group the ability to perform sudo without prompting for a password. Which of the following steps should the administrator perform to accomplish this task? (Choose two.)

- A. Use visudo to edit the /etc/sudoers file and add network\_administrators to the “wheel” group
- B. Use vi to edit the /etc/sudo file and add network\_administrators to the “wheel” group
- C. Provide all network\_administrators with the “root” account password
- D. Add the network\_administrators ALL=(ALL) NOPASSWD: ALL directive to the /etc/sudoers file
- E. Add the network\_administrators =(ALL) NOEXEC: ALL directive to the /etc/sudoers file

**Answer:** CD

#### NEW QUESTION 234

- (Exam Topic 2)

A Linux administrator is checking connectivity between two servers in separate subnets:

Server A: 10.1.2.20 (source)

Server B: 10.2.1.10 (destination on port 8080)

The administrator tried to run the curl 10.2.1.10:8080 command on server A and received the following output:

curl: (7) Failed to connect to 10.2.1.10 port 8080: Connection refused.

The administrator checked on server B and confirmed nothing is listening on port 8080.

Which of the following commands, when run on server B, would have allowed the administrator to test the connection successfully?

- A. tcpdump ‘tcp port 8080’
- B. ss -l -p dport=8080 dst 10.2.1.10
- C. nc -l -p 8080 10.2.1.10
- D. nmap -v -p 8080 10.2.1.10

**Answer:** D

#### NEW QUESTION 235

- (Exam Topic 2)

While installing third-party software, a technician wants to monitor logs on the system continuously. Which of the following commands should the technician issue to monitor the logs?

- A. cat /var/log/kern.log
- B. grep -e /var/log/httpd/access.log
- C. head -n /var/log/secure
- D. tail -f /var/log/messages

**Answer:** D

#### NEW QUESTION 239

- (Exam Topic 2)

Which of the following techniques would BEST allow a client computer to connect to a server that is not normally accessible because the server's application port is blocked by a firewall?

- A. X11 forwarding
- B. TCP wrappers
- C. RDP
- D. SSH port forwarding

**Answer:** D

#### NEW QUESTION 241

- (Exam Topic 2)

Users in the sales department are unable to create new files in the shared directory /Sales. A junior Linux administrator determines the permissions on the /Sales directory are set to rwxr-----, and sales is the group owner of the directory.

Which of the following is the BEST command for the junior administrator to issue to allow the users to create new files?

- A. umask 002
- B. chmod 770 /Sales
- C. chmod g+s /Sales
- D. chmod 777 /Sales

**Answer:** B

#### NEW QUESTION 244

- (Exam Topic 2)

Which of the following Linux server roles should be installed to monitor and log local web traffic?

- A. Proxy server
- B. AAA server
- C. SSH server
- D. HTTP server
- E. Name server

**Answer:** A

#### NEW QUESTION 245

- (Exam Topic 2)

A Linux administrator receives a call from the network operations team that one of the database applications is down on a Linux server. The Linux server is configured with RAID 1 for redundancy, and the array /dev/md0 consists of two devices called /dev/sda1 and /dev/sdb1. After looking at the status of the RAID 1 array in the /proc/mdstat file, the administrator discovers the RAID 1 array is degraded and the disk /dev/sdb1 on which the database application was installed appears to have failed.

```
cat /proc/mdstat
```

```
Personalities : [linear] [multipath] [raid1]
md0 : active raid1 sda1[0] sdb1[2]
      233456177 blocks [2/1] [U ]
```

Which of the following steps should the administrator take to remove the device /dev/sdb1 from the RAID array md0? (Choose two.)

- A. mdadm /dev/md0 --remove /dev/sdb1
- B. mdadm /dev/sdb1 --fail /dev/md0
- C. mdadm /dev/md0 --fail /dev/sdb1
- D. mdadm /dev/sdb1 --remove /dev/md0
- E. racadm --remove /dev/sdb1
- F. racadm --fail /dev/sdb1

**Answer:** AC

#### NEW QUESTION 246

- (Exam Topic 2)

A systems administrator clones copies of a Linux VM every time a new Linux server is needed. The administrator notices the command prompt always states localhost.localdomain.

Which of the following should the administrator run to have the command prompt consistently labeled as Server1 rather than localhost.localdomain?

- A. host Server1
- B. echo "127.0.0.1 Server1 Server1.localdomain" >> /etc/hosts
- C. hostnamectl set-hostname "Server1" --pretty
- D. hostnamectl set-hostname Server1 --transient
- E. hostnamectl set-hostname Server1.localdomain --static

**Answer:** C

#### Explanation:

Reference:

<https://www.tutorialspoint.com/how-to-setup-hostname-in-centos-7-x-or-rhel-7-x-linux-versions>

#### NEW QUESTION 247

- (Exam Topic 2)

An issue was discovered on a testing branch of a Git repository. A file was inadvertently modified and needs to be reverted to the master branch version. Which of the following is the BEST option to resolve the issue?

- A. git branch -b master file
- B. git merge master testing
- C. git stash branch master
- D. git checkout master -- file

**Answer:** D

#### Explanation:

Reference: <https://www.git-scm.com/book/en/v2/Git-Basics-Undoing-Things>

#### NEW QUESTION 250

- (Exam Topic 2)

A Linux administrator needs to add some files in a directory to the Git repository but must exclude some local .tmp files that are occasionally created by the scripts.

Which of the following is the BEST way to accomplish this task?

- A. git rm .tmp
- B. git add -x .tmp \*
- C. echo .tmp >> .gitignore
- D. rm -rf .tmp

**Answer:** C

**Explanation:**

Reference: <https://stackoverflow.com/QUESTION NO:s/46383506/add-files-to-gitignore-directly-from-git-shell>

**NEW QUESTION 253**

- (Exam Topic 2)

Due to security policies, a restriction was implemented that forbids direct access to the database server. The junior administrator needs to connect using SSH tunneling. Which of the following commands allows the junior administrator to connect from a desktop?

- A. `ssh -L dbserver.local:5432:localhost:95432 postgres@dbserver.local`
- B. `ssh -L 5432:localhost dbserver.local:5432 postgres`
- C. `ssh -L 95432:localhost postgres@dbserver.local`
- D. `ssh -L 9432:localhost:5432 postgres@dbserver.local`

**Answer:** D

**NEW QUESTION 254**

- (Exam Topic 2)

A junior Linux administrator is performing version control on a Git repository. The administrator is given a list of

- tasks to complete:
- List the currently installed Git release.
- Show the status reporting of the clone.

Which of the following commands would allow the administrator to complete these tasks? (Choose two.)

- A. `git clone --progress`
- B. `git clone --recursive`
- C. `git --help`
- D. `git clone --dissociate`
- E. `git --version`
- F. `git clone --shared`

**Answer:** AC

**NEW QUESTION 257**

- (Exam Topic 2)

Joe, a user, asks a systems administrator to schedule the daily execution of a custom script. Which of the following commands will allow the systems administrator to set up Joe's cron job?

- A. `crontab -r -u joe`
- B. `crontab -e -u joe`
- C. `crontab -n -u joe`
- D. `crontab -l -u joe`

**Answer:** B

**NEW QUESTION 261**

- (Exam Topic 2)

After cloning a remote repository, a new feature of that project needs to be developed and integrated into the next major release.

Which of the following is the first Git operation to run to begin working on this new feature immediately after the clone?

- A. `merge`
- B. `init`
- C. `diff`
- D. `branch`

**Answer:** D

**Explanation:**

The usual git workflow is to create a new branch where the new feature can be written in isolation without disturbing the existing code until it has been properly debugged, tested, approved for release etc. Only after all that has happened, then it can be merged with the main branch of the existing code. So:

`git branch [newfeaturename]` `git checkout [newfeaturename]` write code, test code etc...

`git checkout main`

`git merge [newfeaturename]`

**NEW QUESTION 262**

- (Exam Topic 2)

A new video card was added to a customer workstation. To get the new video card to work correctly, a systems administrator needs to remove support for the nouveau video driver on the Linux workstation. Which of the following will accomplish this task?

- A. Use `rmmod -f nouveau`.
- B. Use `modprobe -R nouveau`.
- C. Add blacklist nouveau to `/etc/modprobe.d/blacklist.conf`.
- D. Add blacklist nouveau to `/etc/modprobe.conf`.

**Answer:** A



#### NEW QUESTION 265

- (Exam Topic 2)

Users in the payroll department are not configured to use DNS due to security concerns. The users ask the junior Linux administrator to configure their workstations to access the payroll server at 192.168.204.11 by the name "Payroll". Which of the following commands should the administrator issue to meet this request?

- A. echo "nameserver 192.168.204.11 #Payroll" >> /etc/resolv.conf
- B. echo "net.ipv4.ip\_dynaddr=192.168.204.11 Payroll" >> /etc/sysctl.conf
- C. echo "192.168.204.11 Payroll" >> /etc/hosts
- D. echo 'IPADDR="192.168.204.11" #Payroll' >> /etc/network/interface

**Answer:** C

#### NEW QUESTION 270

- (Exam Topic 2)

An administrator needs to create a file named hello in the home directory that contains the following text: it's me! Which of the following commands would accomplish this goal?

- A. mkdir ~/hello touch ~/ "it's me!"
- B. touch ~/helloecho "it's me!" > ~/hello
- C. mv ~/hellocp "it's me!" > ~/hello
- D. type ~/hello print "it's me!"

**Answer:** A

#### NEW QUESTION 273

- (Exam Topic 2)

A systems administrator is receiving errors while trying to install a popular virtualization software. The software specifications state the processor needs to support virtualization with Intel instructions. Additional requirements state the processor must accelerate encryption/decryption and use hyperthreading. Given the following output about the processor:

```
fpu ume depse tsu msr pae mce cx8 apic sep mtrr pae mca cmov pat pse36 cflusm mmx fxsr sse sse2 ht syscall nx rdtscp lm constant_tsc rep_good nopl  
xtopology
```

```
nonstop_tsc pni pclmulqdq ssse3 cx16 pcid sse4_1 sse4_2 x2apic popcnt aes xsave avx rdrand hypervisor lahf_lm fsgsbase
```

Which of the following is the MOST likely reason for the errors?

- A. The processor supports AMD instructions rather than Intel.
- B. The processor cannot accelerate decryption.
- C. The processor does not support hyperthreading.
- D. The processor is running inside a virtual machine.

**Answer:** C

#### NEW QUESTION 277

- (Exam Topic 2)

Which of the following commands allow an administrator to determine if the current system is a virtual machine?

- A. lspci
- B. mdadm
- C. vmstat
- D. vgdisplay

**Answer:** A

#### NEW QUESTION 279

- (Exam Topic 2)

A user requested a USB serial device to be added to a desktop computer. The device has built-in kernel driver support. The administrator tested the device installation and access, but the user cannot access the serial port. Each time the user attempts to access the device, an error log is created that shows the user does not have permission to use the serial port. Which of the following will add a user to the group that has serial port capabilities?

- A. usermod -a -G serialport \$USER
- B. usermod -a -G modem \$USER
- C. usermod -a -G dialout \$USER
- D. usermod -a -G root \$USER

**Answer:** C

#### Explanation:

Reference: <https://websistent.com/fix-serial-port-permission-denied-errors-linux/>

#### NEW QUESTION 284

- (Exam Topic 2)

A company requires all servers to be configured with the BIOS on Coordinated Universal Time and the OS on Central Standard Time. Which of the following can be used to change the time according to these requirements? (Choose two.)

- A. localectl
- B. LC\_ALL
- C. date



D. time  
E. hwclock  
F. crontab

**Answer:** CE

#### NEW QUESTION 286

- (Exam Topic 2)

A Linux administrator is updating iptables rules and is given the following tasks:

- Output a list of iptables rules.
- Remove all iptables rules.

Which of the following actions should be performed from the terminal console to accomplish these tasks? (Choose two.)

A. iptables -F  
B. iptables -L  
C. iptables -I  
D. iptables -C  
E. iptables -A  
F. iptables -N

**Answer:** AB

#### Explanation:

Reference: <https://www.digitalocean.com/community/tutorials/how-to-list-and-delete-iptables-firewall-rules>

#### NEW QUESTION 288

- (Exam Topic 2)

A Linux user needs to connect to a remote email server named mail.foo.com through the SMTP port. Which of the following commands will accomplish this task?

A. traceroute mail.foo.com 25  
B. netcat mail.foo.com 25  
C. traceroute mail.foo.com 110  
D. netcat mail.foo.com 110

**Answer:** B

#### Explanation:

<https://www.linuxjournal.com/content/sending-email-netcat>

#### NEW QUESTION 293

- (Exam Topic 2)

Which of the following are classified as Linux GUI servers? (Choose two.)

A. VNC  
B. KDE  
C. Gnome  
D. Wayland  
E. MATE  
F. X11

**Answer:** DF

#### NEW QUESTION 294

- (Exam Topic 2)

A systems administrator has scheduled a system update for a server. The update includes a resynchronization of the package database and updates to the current packages and the system distribution packages. Which of the following commands contains the proper order of this update?

A. apt-get upgrade, apt-get dist-upgrade, apt-get update  
B. apt-get update, apt-get upgrade, apt-get dist-upgrade  
C. apt-get dist-upgrade, apt-get upgrade, apt-get update  
D. apt-get update, apt-get dist-upgrade, apt-get upgrade

**Answer:** B

#### NEW QUESTION 297

- (Exam Topic 2)

A user has been locked out of an account due to too many failed password attempts. Which of the following commands will unlock the user's account?

A. pam\_tally2 --user=user --reset  
B. passwd -u user -G root  
C. usermod -u user -G root  
D. chage -1 user=user --reset

**Answer:** A

#### Explanation:

Reference: [https://www.tecmint.com/use-pam\\_tally2-to-lock-and-unlock-ssh-failed-login-attempts/](https://www.tecmint.com/use-pam_tally2-to-lock-and-unlock-ssh-failed-login-attempts/)

#### NEW QUESTION 302

- (Exam Topic 2)

An administrator wants to know the amount of memory installed on a Linux server. Which of the following commands can be used to accomplish this task?

- A. cat /sys/proc/meminfo
- B. cat /proc/meminfo
- C. cat /proc/sys/meminfo
- D. cat /sys/meminfo

**Answer:** D

#### Explanation:

Reference: [https://devconnected.com/how-to-check-ram-on-linux/#:~:text=The%20most%20popular%20command%20in,use%20the%20“free”%20command.&text=As%20you%20can%20see%2C%20the,\(also%20called%20virtual%20memory\)](https://devconnected.com/how-to-check-ram-on-linux/#:~:text=The%20most%20popular%20command%20in,use%20the%20%20free%20command.&text=As%20you%20can%20see%2C%20the,(also%20called%20virtual%20memory))

#### NEW QUESTION 304

- (Exam Topic 2)

A site reliability engineer updated the latest configuration management scripts and committed them to a workstream called either test or patch. A Linux administrator wants to ensure these latest workstreams are able to be retrieved to the server. Which of the following is the BEST Git attribute to use?

- A. branch
- B. fetch
- C. log
- D. pull

**Answer:** D

#### NEW QUESTION 306

- (Exam Topic 2)

An administrator needs to kill the oldest Bash shell running in the system. Which of the following commands should be issued to accomplish this task?

- A. ps axjf | grep bash to obtain PID kill -9 PID
- B. ps -eo pid,etime,cmd | grep bash (to obtain PID) kill -9 PID
- C. ps -eo pid,etime| grep bash (to obtain PID) killall -9 PID
- D. killall -15 -o bash

**Answer:** D

#### Explanation:

Reference: <https://phoenixnap.com/kb/how-to-kill-a-process-in-linux>

#### NEW QUESTION 310

- (Exam Topic 2)

Which of the following is used on the client to boot a Linux system from a TFTP server?

- A. HTTP
- B. GRUB
- C. EFI
- D. PXE

**Answer:** D

#### NEW QUESTION 315

- (Exam Topic 2)

An administrator receives an alarm because the disk of one of the servers is running out of space. Which of the following commands can be used to see the space that each partition is using?

- A. df -h
- B. du -scg /
- C. fdisk -l
- D. fsck /

**Answer:** A

#### NEW QUESTION 319

- (Exam Topic 2)

The following represents a partial listing of a user's .bashrc file: HISTSIZE=800

HISTFILESIZE=1000

umask 2002 HISTCONTROL=ignoreboth

When the user opens a terminal, an error message appears: Octal number out of range

Which of the following lines in the partial .bashrc should be modified to prevent the error from occurring?

- A. HISTSIZE=800
- B. HISTFILESIZE=1000
- C. umask 2002
- D. HISTCONTROL=ignoreboth

**Answer:** C

#### NEW QUESTION 320

- (Exam Topic 2)

A systems administrator notices several intensive tasks executing from users Joe and Ann. These processes are impacting server operations but must be allowed to continue running.

Which of the following commands should the systems administrator run to reduce the impact on the server?

- A. `pkill -u joe ann`
- B. `renice 11 -u joe ann`
- C. `nohup -u joe ann`
- D. `strace -u joe ann`

**Answer:** B

#### Explanation:

Reference: <https://www.computerhope.com/unix/renice.htm#:~:text=On%20Unix%2Dlike%20operating%20systems,the%20Linux%20version%20of%20renice>

#### NEW QUESTION 322

- (Exam Topic 2)

Which of the following BEST describes build automation?

- A. Automating the creation of software and related processes
- B. Automatically categorizing servers in the infrastructure
- C. Managing and provisioning servers via automatic templates
- D. Bringing systems in line with the desired automated configuration

**Answer:** A

#### Explanation:

Reference: [https://en.wikipedia.org/wiki/Build\\_automation](https://en.wikipedia.org/wiki/Build_automation)

#### NEW QUESTION 327

- (Exam Topic 2)

A Linux administrator needs to configure a new firewall without an existing ACL to allow incoming web traffic.

The firewall must log the allowed network traffic. Which of the following command sequences would accomplish this task when they are executed in order?

- A. `iptables -A INPUT -p tcp --dport 80 -J LOG` `iptables -A INPUT -p tcp --dport 443 -J LOG` `iptables -I INPUT -p tcp --dport 80 -J ACCEPT` `iptables -I INPUT -p tcp --dport 443 -J ACCEPT`
- B. `iptables -I INPUT -m multiport -p tcp --dports 80,443 -J LOG` `iptables -I INPUT -m multiport -p tcp --dports 80,443 -J ACCEPT`
- C. `iptables -A INPUT -m multiport -p tcp --dports 80,443 -J LOG` `iptables -A INPUT -m multiport -p tcp --dports 80,443 -J ACCEPT`
- D. `iptables -A INPUT -p tcp --dport 80 -J ACCEPT` `iptables -A INPUT -p tcp --dport 443 -J ACCEPT` `iptables -A INPUT -p tcp --dport 80 -J LOG` `iptables -A INPUT -p tcp --dport 443 -J LOG`

**Answer:** A

#### Explanation:

Reference: <https://www.linode.com/docs/guides/control-network-traffic-with-iptables/>

#### NEW QUESTION 328

- (Exam Topic 2)

A user receives an `access_denied` error when trying to modify a file, even though the file permissions are set to 777. Which of the following commands should be used to view additional file permissions?

- A. `getsebool`
- B. `getenforce`
- C. `ls -z`
- D. `ps -z`

**Answer:** C

#### NEW QUESTION 330

- (Exam Topic 2)

A systems administrator manually added a new library to the server. The administrator wants to rebuild the library cache for immediate use.

Which of the following commands should the systems administrator run to achieve this goal?

- A. `make install`
- B. `ldconfig`
- C. `make`
- D. `ldd`

**Answer:** B

#### NEW QUESTION 331

- (Exam Topic 2)

A Linux administrator needs to disable the Sendmail service on a Linux server and prevent it from being started manually and during boot.

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

- A. systemctl reset-failed sendmail
- B. systemctl mask sendmail
- C. systemctl stop sendmail
- D. systemctl disable sendmail

**Answer:** C

#### NEW QUESTION 333

- (Exam Topic 2)

A systems administrator installed Git on a new workstation and wants to ensure all Git projects on this machine are initialized with the same username and email address.

Which of the following should the administrator use to meet this goal? (Choose two.)

- A. git config --global user.name = "James Doe"
- B. echo 'email.addr = "jdoe@comptia.org"' >> .git/.gitconfig
- C. echo 'username' = "James Doe" >> .git/.gitconfig
- D. git config username = "James Doe"
- E. git config --global user.email = "jdoe@comptia.org"
- F. git config email.addr = jdoe@comptia.org"

**Answer:** AE

#### NEW QUESTION 337

- (Exam Topic 2)

A user needs to modify the IP address of a laptop. Which of the following files can be used to configure the network interface named eth0?

- A. /etc/sysconfig/network/interfaces.cnf
- B. /system/config/interfaces
- C. /etc/sysconfig/network-scripts/ifcfg-eth0
- D. /system/networking/ifconfig
- E. /etc/interfaces/eth0.conf

**Answer:** C

#### Explanation:

Reference: <https://opensource.com/life/16/6/how-configure-networking-linux>

#### NEW QUESTION 342

- (Exam Topic 2)

A systems administrator wants to disable the isofs module on the server.

Which of the following will allow the administrator to check if the isofs module is currently in use?

- A. modprobe
- B. insmod
- C. rmmod
- D. lsmod

**Answer:** A

#### NEW QUESTION 345

- (Exam Topic 2)

Which of the following servers provides encrypted tunnel SOCKS services?

- A. SNMP
- B. VPN
- C. CA
- D. SSH

**Answer:** D

#### NEW QUESTION 347

- (Exam Topic 2)

Which of the following commands will let a Linux user know the PCI devices that are installed in the system?

- A. cat /proc/devices/pci
- B. lspci
- C. lsdev
- D. cat /proc/sys/dev

**Answer:** B

#### Explanation:

Reference: <https://opensource.com/article/19/9/linux-commands-hardware-information>

#### NEW QUESTION 350

- (Exam Topic 2)

A Linux user uses a VPN to securely access the company's systems from a laptop.

Which of the following protocols are MOST likely used to secure the VPN connection? (Choose two.)

- A. IPSec
- B. HTTP
- C. SFTP
- D. VNC
- E. SSL/TLS
- F. SELinux

**Answer:** AE

#### NEW QUESTION 352

- (Exam Topic 2)

An administrator is installing a new kernel but is getting an error indicating the filesystem is out of space. A disk usage check shows / has plenty of space.

Which of the following BEST represents where the administrator should check next?

- A. /var
- B. /proc
- C. /boot
- D. /etc

**Answer:** B

#### NEW QUESTION 355

- (Exam Topic 2)

A directory called /employee is shared with many employees in a company. New hardware was acquired, and the systems administrator needs to back up all files in /employee before the server is replaced.

Which of the following commands should be used to back up all the files and compress them to use little space in the filesystem?

- A. tar -zcvf backup.tar.gz /employee
- B. tar -zxvf backup.tar.gz /employee
- C. tar -Cvf backup.tar.gz /employee
- D. tar -Tpf backup.tar.gz /employee

**Answer:** A

#### NEW QUESTION 359

- (Exam Topic 2)

A user tries to log in to the Linux console and receives the following message: Your account has expired; Please contact your system administrator.

Which of the following commands was MOST likely run to create this behavior?

- A. passwd
- B. usermod
- C. userdel
- D. chage

**Answer:** D

#### NEW QUESTION 364

- (Exam Topic 2)

A customer reports a Linux production server is randomly suffering degraded performance. The administrator verifies that the sysstat package is installed and enabled on the server.

Which of the following would BEST determine what is causing the impact on performance?

- A. Create a cron job that runs uptime every 15 minutes to collect historical data of the load average of the system.
- B. Leave a ping running overnight from a laptop to the server to catch any latency encountered.
- C. Analyze the data in /var/log/sa using the sar command.
- D. Open a screen session and run top inside of i
- E. Let it run over night and collect the data.

**Answer:** C

#### NEW QUESTION 365

- (Exam Topic 2)

A systems engineer scheduled an at job that will reboot a critical server. A developer states the processes will not complete for another three hours.

Which of the following will help the systems engineer to remove the job?

- A. atqatrm <at job number>
- B. at -qatrm <PID>
- C. atqatrm <PID>
- D. at -qatrm <at job number>

**Answer:** A

#### NEW QUESTION 366

- (Exam Topic 2)

A new IO card has been added to the security server to log the opening and closing of the main entrance. A switch is attached, so the interface card returns a 1 when the door is opened and a 0 when the door is closed. Which of the following describes the Linux device to which this switch is attached?

- A. /dev/tty0
- B. /dev/port
- C. /dev/gpio
- D. /dev/sg0

**Answer:** B

#### NEW QUESTION 370

- (Exam Topic 2)

On a UEFI-based system, which of the following invokes GRUB2 from the EFI command prompt?

- A. boot/EFI/grub2.efi
- B. EFI/grub2.efi
- C. /boot/EFI/grub2.efi
- D. /grub2.efi

**Answer:** C

#### Explanation:

Reference: <https://docs.pagure.org/docs-fedora/the-grub2-bootloader.html>

#### NEW QUESTION 371

- (Exam Topic 2)

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

- A. Kickstart
- B. YAML
- C. Cloud-init
- D. Container image

**Answer:** A

#### NEW QUESTION 376

- (Exam Topic 2)

A systems administrator needs to conduct maintenance on a server.

Which of the following commands will place the administrator in the appropriate runlevel?

- A. init 0
- B. telinit 1
- C. init 3
- D. telinit 6

**Answer:** A

#### NEW QUESTION 377

- (Exam Topic 2)

When requesting SSH access to a remote system, a user accidentally emailed the id\_rsa key to the administrator. Which of the following should the user do NEXT?

- A. Run the ssh-add command to add the remote system to known\_hosts.
- B. Ask the administrator to run chmod 600 id\_rsa on the remote system.
- C. Delete id\_rsa key file and send the id\_rsa.pub key file instead.
- D. Stop using that key and run ssh-keygen to generate a new key pair.

**Answer:** D

#### NEW QUESTION 381

- (Exam Topic 2)

A Linux systems administrator is troubleshooting an issue with the /home directory running out of space. The administrator needs to determine which /home directories are using the most space. Which of the following commands should be used?

- A. du
- B. lvs
- C. df
- D. fsck

**Answer:** A

#### Explanation:

du used to estimate file space usage lvs command provides logical volume information in a configurable form, displaying one line per logical volume. df will display the amount of available disk space for file systems on which the invoking user has appropriate read access. fsck is a tool for checking the consistency of a file system in Unix and Unix-like operating systems

Reference: <https://www.cs.washington.edu/lab/faq/home-directory-size>



#### NEW QUESTION 386

- (Exam Topic 2)

Using which of the following control mode commands is the correct way to substitute all occurrences of /dev/ sdc with /dev/sdd while editing a file in vi?

- A. :s//dev/sdc//dev/sdd
- B. :s/\dev\sdc/\dev\sdd/g
- C. :s/\dev\sdc/\dev\sdd
- D. :%s/\dev\sdc/\dev\sdd

**Answer:** A

#### NEW QUESTION 391

- (Exam Topic 2)

An organization wants to consolidate its entire user information in centralized storage using an X.500-based protocol. Which of the following protocols should be used for this implementation?

- A. RADIUS
- B. LDAP
- C. DNS
- D. DHCP

**Answer:** B

#### Explanation:

Reference: [https://en.wikipedia.org/wiki/Directory\\_service](https://en.wikipedia.org/wiki/Directory_service)

#### NEW QUESTION 392

- (Exam Topic 3)

A system administrator needs to bootstrap a series of Ubuntu images for a public provider. The administrator must ensure at the images contain the exact same updates, custom. Configure files after their first and then automatically. Which of the following tools the administrator user?

- A. Ansible
- B. Docker
- C. Cloud-init
- D. Anaconda

**Answer:** B

#### NEW QUESTION 395

- (Exam Topic 3)

An administrator attempted to save large files in a directory but was unsuccessful. Which of the following is the NEXT step to nvesbgate the issue?

- A. Share -h
- B. Size -h
- C. Swap -h
- D. Df -h

**Answer:** D

#### NEW QUESTION 400

- (Exam Topic 3)

A lab virtual image is always named pc21.local and in variety of testing situation. The administrator wants to use the IP address pc21.local in a script but is concerned it may change from day to day, as the image is rebuilt fairly often. Which of the following should the administrator add to a script to ensure the IP address is always accurate?

- A. MYIP=\$(dig pc21.local +short
- B. MYIP=\$(dig pc21.local +norecurse +nocomments)
- C. MYIP=\$(dig pc21.local + answer + mostatus
- D. MYIP=\$(dig pc21.local +authority)

**Answer:** B

#### NEW QUESTION 404

- (Exam Topic 3)

Which of the following commands should a system administrator use to configure a passwordless login to remote system? (Select TWO.)

- A. Cp
- B. Ssh-agent
- C. Ssh-copy-id
- D. Ssh-keygen
- E. Ssh-add
- F. openssl

**Answer:** BC

#### NEW QUESTION 406

- (Exam Topic 3)

A systems administrator has retrieved the latest copy of the system backup files, which had been stored offsite at a third-party vendor. The systems administrator wants to validate that the data was not modified since the backup.

Which of the following would BEST verify that the data remained the same?

- A. Perform a MD5 hash on the data.
- B. Perform a SCP from the backup.
- C. Perform rsync.
- D. Restore from the last full backup.

**Answer: C**

#### NEW QUESTION 409

- (Exam Topic 3)

A remote server reverts to the incorrect time when it is restarted. Which of the following will save the correct time to the BIOS clock once the time and date have been set on the server?

- A. btime -- settime
- B. btime -- setdate
- C. hwclock -- systohc
- D. date -- setclock

**Answer: D**

#### NEW QUESTION 413

- (Exam Topic 3)

Which of the following server roles is MOST appropriate to route files to multifunction devices?

- A. Proxy
- B. Router
- C. Print server
- D. Web server

**Answer: C**

#### NEW QUESTION 415

- (Exam Topic 3)

Which of the following directories contains information related to various runtime processes, such as hardware and system memory?

- A. /usr/bin
- B. /opt
- C. /proc
- D. /etc/local/

**Answer: C**

#### NEW QUESTION 418

- (Exam Topic 3)

A technician wants to configure a Unix server as a gateway firewall. The technician has implemented the proper ACLs and port address translation policies, but network traffic is not passing from the LAN to the WAN. Which of the following should the technician configure to fix this issue?

- A. DenyHouse
- B. Squid-service
- C. Ip\_forward
- D. /etc/service

**Answer: A**

#### NEW QUESTION 421

- (Exam Topic 3)

Which of the following commands should a Linux administrator use to open the firewall to allow incoming database connections?

A)

```
firewall-cmd --permanent --zone=default --add-port=5432/tcp
firewall-cmd --reload
```

B)

```
firewall-cmd --permanent --zone=default --add-service=5432/tcp
firewall-cmd --reload
```

C)

```
firewall-cmd --permanent --zone=default --add-destination=5432/tcp
firewall-cmd --reload
```

D)

```
firewall-cmd --permanent --zone=default --add-source=5432/tcp
firewall-cmd --reload
```

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

**Answer: C**

#### NEW QUESTION 426

- (Exam Topic 3)

A systems administrator is setting up an HTTP server on a Linux server and configuring it as a proxy server. The administrator runs the following commands to verify that the service is running:

```
# journalctl -u httpd.service --since today
Jan 22 20:11:09 linux8 systemd[1]: Starting the Apache HTTP Server...
Jan 22 20:11:10 linux8 httpd[21876]: Server configured, listening on: port 80
```

However, the administrator is getting a 503 error when browsing to portal.company.internal. After reviewing the logs, the following error information is discovered:

```
[error] (13)Permission denied: proxy: ajp: attempt to connect to 10.0.0.1:7009 (portal.company.internal)
[error] ap_proxy_connect_backend disabling worker for (portal.company.internal)
```

```
type=AVC msg=audit(126509.303:14): avc: denied (name_connect) for pid=21876 comm="httpd" desc=context=system_u:system_r:httpd_t:s0
tcontext=system_u:object_r:port_t:s0 tclass=tcp_socket
```

Which of the following commands BEST resolves the issue?

- A. `setforce 0`
- B. `setsebool -m USER_LOGIN -sv no`
- C. `grep http /var/log/audit/audit.log | audit2why`
- D. `setsebool -p httpd_can_network_connect 1`

**Answer: A**

#### NEW QUESTION 427

- (Exam Topic 3)

A Linux administrator is getting an error message indicating a device does not have any space left on it. However, the administrator runs the following commands and receives the output below:

```
$ df
Filesystem      1K-blocks    Used   Available   Use%    Mounted On
/dev/xvda      22020616    10407760  22522216    32%     /

$ df -ih
Filesystem      Inodes     IUsed     IFree     IUse%    Mounted On
/dev/xvda       512K       512K      0         100%     /
```

Which of the following is the MOST likely cause of the issue?

- A. The `resize2fs` command needs to be run on the filesystem.
- B. Files need to be removed in order to free up file handles.
- C. The `mkfs,ext3` command needs to be run to change the inode size.
- D. The block size needs to be adjusted to >4KIB blocks

**Answer: D**

#### NEW QUESTION 432

- (Exam Topic 3)

Joe is no longer employed by a company and Ann is taking over his projects. Several team members work out of the project directory including Ann. The administrator needs to assign ownership of all of Joe's files in the /project directory to Ann. Which of the following should the administrator run to accomplish this task?

- A. `Restorecon -f joe ann -r /projects`
- B. `Chown -R joe,ann /projects`
- C. `Find /project -user joe -exec chown ann { } /;`
- D. `Locate / projects | grep joe | chown -R ann -f`

**Answer: C**

#### NEW QUESTION 436

- (Exam Topic 3)

An administrator needs to set the time of a VM that has no network connectivity to an NTP server. The VM's host, however, is synchronized with NTP. Which of the following allows the administrator to synchronize the time of the VM with the host?

- A. `time`
- B. `date`
- C. `hwclock`
- D. `ntpdate`

**Answer: C**

#### NEW QUESTION 440

- (Exam Topic 3)

A Linux administrator is investigating an issue with an internal Linux server that is unable to resolve the following internal addresses:

```
fileshare.example.internal      192.168.10.100
dns1.example.internal          192.168.10.4
```

The administrator runs the following commands as part of troubleshooting:

```
# cat /etc/resolv.conf
nameserver 8.8.8.8

# nslookup fileshare.example.internal
Server: 8.8.8.8
Address: 8.8.8.8#53

** server can't find fileshare.example.internal: NXDOMAIN

# nslookup fileshare.example.internal 192.168.10.4
Server: 192.168.10.4
Address: 192.168.10.4#53

Name: fileshare.example.internal
Address: 192.168.10.100
```

Which of the following is MOST likely resolve the issue?

- A. Allow outbound DNS traffic to the internal DNS server.
- B. Add a public DNS for fileshare, example, internal.
- C. Install a caching DNS server on the local workstation.
- D. Update resolve, conf to use the internal DNS server.

**Answer:** A

#### NEW QUESTION 445

- (Exam Topic 3)

A Linux administrator is testing a configuration script and wants to change the hostname of a workstation temporarily, but it must return to its assigned workstation name after reboot. Which of the following is the BEST command for the administrator to use?

- A. Hostnamectl set-hostname --transient tempname
- B. Hostnamectl --H localhost tempname
- C. Hostnamectl set-hostname tempname
- D. Hostnamectl set-hostname --static tempname

**Answer:** A

#### NEW QUESTION 446

- (Exam Topic 3)

A new packages repository named repo10 has been installed on mirror site. A Linux administrator wants to use this new repository for local package installations. In which of the following locations should the administrator store the configuration information for the repo10 repository?

- A. /etc/yum.repos.d/repo10.Repo
- B. /etc/yum\_repo.d/repo10
- C. /etc/yum.repos.d/repo10
- D. /etc/yum.conf

**Answer:** A

#### NEW QUESTION 451

- (Exam Topic 3)

A user does not want Bluetooth to start up every time the system starts. Which of the following commands should the user execute to accomplish this task?

- A. Systemctl disabled Bluetooth.service
- B. Systemctl disable Bluetoot
- C. Service
- D. System stop Bluetooth.service
- E. System stopped Bluetooth.service

**Answer:** B

#### NEW QUESTION 455

- (Exam Topic 3)

An administrator recently installed a second NIC in a server to interact with machines in an isolated enclave. However, the mnetworking on the server has not worked since it was installed. The administrator reviews the following output:

```
# route
Kernel IP routing table

Destination  Gateway      Genmask      Flags        Metric       Ref    Use    Iface
default      gateway      0.0.0.0      UG           100          0      0      enp0s3
default      gateway      0.0.0.0      UG           100          0      0      enp0s4
10.0.2.0      0.0.0.0      255.255.255.0 U            100          0      0      enp0s3
10.0.4.0      0.0.0.0      255.255.255.0 U            100          0      0      enp0s4

# cat ifcfg-enp0s3
TYPE="Ethernet"
PROXY_METHOD="none"
BROWSER_ONLY="no"
BOOTPROTO="dhcp"
DEFROUTE="yes"
IPV4_FAILURE_FATAL="no"
[... removed for brevity]
NAME="enp0s3"
UUID="7bab7fa9-8ee9-41e6-88d9-1120501daf67"
DEVICE="enp0s3"
ONBOOT="yes"

# cat ifcfg-enp0s4
TYPE="Ethernet"
PROXY_METHOD="none"
BROWSER_ONLY="no"
BOOTPROTO="dhcp"
DEFROUTE="yes"
IPV4_FAILURE_FATAL="no"
NAME="enp0s4"
UUID="65b38d1f-46fb-4d18-96e8-480e3447eada"
DEVICE="enp0s4"
ONBOOT="yes"
```

Which of the following should be the FIRST action to remediate the issue?

- A. Add a new route for each device in the isolated endave
- B. Set the `ipv4.never-default` attribute to yes for the new interface, `enp0s4`
- C. Change `DEFROUTE` to no for the new interface and restart the networking
- D. Restart the firewall to ensure traffic is handed appropriately

**Answer:** A

#### NEW QUESTION 456

- (Exam Topic 3)

A security team informs the Linux administrator that a specific server is acting as an open relay. To which of the following is the security team referring?

- A. The server is running the SSH service and is open to the Internet, allowing outside sources to log into the server without source IP address filtering.
- B. The server is acting as an unmanaged router, open to the Internet, and is allowing outside Internet traffic into the network with no filtering.
- C. The server is acting as a web proxy and allowing outside unauthenticated sources to connect to the server, effectively hiding the source's IP address for malicious activities.
- D. The server has an email service configured to allow outside sources to send email to other external parties on the Internet without validation.

**Answer:** D

#### NEW QUESTION 460

- (Exam Topic 3)

Which of the following files would a junior systems administrator check to verify DNS server settings?

- A. `/etc/network`
- B. `/etc/rsolveconf`
- C. `/etc/nsswitch.conf`
- D. `/etc/hosts`

**Answer:** B

#### NEW QUESTION 462

- (Exam Topic 3)

A systems administrator needs to install software packages on a server from an Internet-based repository. The server does not have Internet connectivity. Which of the following can be used to allow the server to connect to the Internet through the systems administrator's desktop?

- A. Local package repository
- B. UUCP
- C. Remote SSH port forwarding
- D. X11 forwarding



**Answer:** C

#### NEW QUESTION 465

- (Exam Topic 3)

Which of the following should a company use to reduce the latency of application that are deployed on a virtual private cloud?

- A. Virtual load balancer
- B. Network address translation
- C. Direct connect
- D. Multi-availability zones

**Answer:** A

#### NEW QUESTION 470

- (Exam Topic 3)

A junior administrator issues the following commands on a Linux server:

```
umask 222
touch /home/junior_admin/tasklist
```

The next day, the junior administrator is unable to edit the file. Which of the following would resolve this issue?

- A. Chmod 666 /home/junior\_admin/tasklist
- B. Chmod \$+x /home/junior\_admin/tasklist
- C. Chmod g+s /home/junior\_admin/tasklist
- D. Chmod o+rwX /home/junior\_admin/tasklist

**Answer:** A

#### NEW QUESTION 475

- (Exam Topic 3)

A Linux administrator needs to give user2 full permissions to the /opt/share/test directory. Permission for user1 and group2 must remain the same. The administrator runs the ls-ls /opt/share/test/ command and receives the output below:

```
drwxr-wr-- 2 user1 group1 4096 Mar 11 10:00 /opt/share/test
```

Which of the following command is the BEST to perform this task?

- A. Chown user1:user2/opt/share/test
- B. Setfac1-m u:user2;rwX /opt/share/test
- C. Chmod 757 /opt/share/test
- D. Chgrp user2 opt/share/test

**Answer:** A

#### NEW QUESTION 480

- (Exam Topic 3)

Which of the following commands will result in the HIGHEST compression level when using gzip to compress a file name file, txt?

- A. Gzip -9 fil
- B. text
- C. Gzip -100-fil
- D. Text Crip -high file.txt
- E. Gzip -5 file.txt
- F. Gzip -fast fil
- G. text

**Answer:** A

#### NEW QUESTION 483

- (Exam Topic 3)

A user wants to configure the application "myapp" to start on runlevels 2, 3, 4, and 5 every time the system starts.

Which of the following commands will accomplish this task?

- A. chkconfig --level 2345 myapp on
- B. systemctl myapp on 2345
- C. chkcnfig myapp --levels 2-5
- D. systemctl --levels 2345 on

**Answer:** A

#### NEW QUESTION 488

- (Exam Topic 3)

A Lunix administrator added storage to an XFS-formatted filesystem at /dev/mapper/vgSlash-lvLog device using the LVM tools. However the additional space does not show up when the administrator runs the df -h command. Which of the following commands should the adiministrator run to resolve thrs issue?

- A. Xfs-growfs/dev/mapper/vgSlash-lvLog
- B. dd if=/dev/zero of=/dev/mapper/vgSlash-lvLog bs=1N
- C. resize2fs /dev/mapper/vgSlash-lvLog

D. lvextend -n lvLog VgSlash -L+10G

**Answer:** C

#### NEW QUESTION 489

- (Exam Topic 3)

A Linux administrator needs to run a few virtual machines and containers on the physical machines with a single network interface. Which of the following networking would allow the administrator to connect with the outside world?

- A. Bridging
- B. VLAN
- C. Bonding/teaming
- D. VPN

**Answer:** A

#### NEW QUESTION 491

- (Exam Topic 3)

An administrator wants to add a user named comptia to the system administrators group. Which of the following commands will accomplish this task?

- A. Usermod -sG wheel comptia
- B. Useradd -sG wheel comptia
- C. visudo -sG wheel comptia
- D. sudo -sG wheel comptia

**Answer:** B

#### NEW QUESTION 496

- (Exam Topic 3)

An administrator received a request from a security officer to eliminate a blacklisting set called internal-blocked the company is using in the iptables firewall. Which of the following commands will complete the task?

- A. ipset swap internal-blocked none
- B. ipset destroy internal-blocked
- C. ipset del internal-blocked
- D. ipset remove internal-blocked

**Answer:** B

#### NEW QUESTION 501

- (Exam Topic 3)

A system administrator is investigating why user3 cannot log in using SSH to one of the servers. An attempt to log in results in the following:

```
# ssh user3@server
Password:
Last failed login: Mon Feb 22 06:07:41 CST 2021 from 192.168.12.15 on ssh:notty
/bin/rssh: Permission denied
Connection to server closed.
```

Which of the following commands should the systems administrator execute to allow user3 log in to the server?

- A. Restorecon /bin/rssh
- B. Passwd -u user3
- C. Usermod -s /bin/sh user3
- D. Setfac1 / bin/rssh

**Answer:** A

#### NEW QUESTION 504

- (Exam Topic 3)

An administrator is configuring a new Linux server and wants to boot the system to a file that was previously downloaded to locally install removable media. Which of the following boot options should the administrator choose?

- A. PXE
- B. ISO
- C. NFS
- D. HTTP

**Answer:** B

#### NEW QUESTION 506

- (Exam Topic 3)

A systems administrator needs to write a script that performs unattended package upgrades. Which of the following flags should be used with either yum or apt to meet this goal?

- A. -u
- B. -q
- C. -y
- D. -d

**Answer:** A

#### NEW QUESTION 510

- (Exam Topic 3)

A Linux administrator is configuring a web server that connects to an external SQL database. However, after starting the web application, the logs are showing an error message:

```
*grep httpd /var/log/audit/audit.log
type=AVC msg=audit(1322708342.967:16804): avc: denied { name_connect } for
pid=22724 comm="httpd" dest=3306 scontext=unconfined_u:system_r:httpd_t:s0
tcontext=system_u:object_r:mysql_d_port_t:s0 tclass=tcp_socket
```

Which of the following is the BEST way to resolve this issue?

- A. echo 0 > selinux/enforce
- B. restorecon -rv /var/www/ html
- C. sed -i s"/SELINU
- D. \*/SELINUX"permissive// etc/selinux/config
- E. setsebool -p http-can-network\_connect\_db 1

**Answer:** C

#### NEW QUESTION 513

- (Exam Topic 3)

An administrator is logged on as an unprivileged user and needs to compile and installed an application from source. Which of the following BEST represents how to complete this task?

- A. cd <source>; sudo ./configure \$\$ make \$\$ make install
- B. cd <source>; ./configure \$\$ sudo make \$\$ make install
- C. cd <source>; ./configure \$\$ make \$\$ make install
- D. cd <source>; ./configure \$\$ make \$\$ make install

**Answer:** A

#### NEW QUESTION 516

- (Exam Topic 3)

A Linux server hosts Kerberos and LDAP, which of the following is the MOST likely role of this server?

- A. Certificate authority
- B. Clustering
- C. Database
- D. Authentication

**Answer:** D

#### NEW QUESTION 521

- (Exam Topic 3)

An administrator is utilizing an automation engine than uses SSH to run commands on remote systems. Which of the fctowng does this describe?

- A. Inventory
- B. Agentless archrcture
- C. Build automation
- D. Version control

**Answer:** B

#### NEW QUESTION 526

- (Exam Topic 3)

An administrator wants to be able to access a remote server. After creating an SSH key pair, which of the following describes where the public key should be placed to allow for key-based authentication?

- A. ~/.ssh/authorized\_keys
- B. ~/.ssh/id\_ras.pub
- C. ~/.ssh/known\_hosts
- D. ~/.ssh/config

**Answer:** A

#### NEW QUESTION 528

- (Exam Topic 3)

A user created a report.sh script in the home directory.

When executing /home/user/report.sh the user receives the following error message:

```
-bash: /home/user/report.sh: Permission denied
```

The user executes the following diagnostic commands:

```
$ ls -lZ /home/user/report.sh
-rwx-----. user users unconfined_u:object_r:user_home_t:s0 /home/user/report.sh

$ cat /etc/fstab
/dev/mapper/vg-root /          xfs     defaults                0 0
/dev/mapper/vg-home /home  xfs     default,noexec,usrquota 0 0

$ getenforce
enforcing

$ quota
Filesystem            blocks  quota  limit  grace  files  quota  limit  grace
/dev/mapper/vg-home  156000 100000 200000 7days   1873    0      0
```

Which of the following is causing the error message?

- A. SELinux is blocking the script.
- B. The server disk is full.
- C. The server configuration does not allow running binaries in user home directories.
- D. The user has exceeded the allowed disk usage in the home directory.

**Answer: A**

#### NEW QUESTION 532

- (Exam Topic 3)

Which of the following will boot from a network-hosted ISO image at power on?

- A. PXE
- B. FTP
- C. iSCSI
- D. NFS

**Answer: A**

#### NEW QUESTION 533

- (Exam Topic 3)

A system administrator needs to run a job called payments\_Reconciliation on the last day of the month at the end of the day. Which of the following lines in crontab should be inserted to complete job?

A)

```
55 23 30 4,6,9,11 * payments_reconciliation.sh
55 23 31 1,3,5,7,8,10,12 * payments_reconciliation.sh
55 23 28 2 * payments_reconciliation.sh
```

B)

```
23 55 30 4,6,9,11 * payments_reconciliation.sh
23 55 31 1,3,5,7,8,10,12 * payments_reconciliation.sh
23 55 29 2 * payments_reconciliation.sh
```

C)

```
0 0 30 4,6,9,11 * payments_reconciliation.sh
0 0 31 1,3,5,7,8,10,12 * payments_reconciliation.sh
0 0 28 2 * payments_reconciliation.sh
```

D)

```
23 55 30 4,6,9,11 * payments_reconciliation.sh
23 55 31 1,3,5,7,8,10,12 * payments_reconciliation.sh
23 55 28 2 * payments_reconciliation.sh
```

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

**Answer: B**

#### NEW QUESTION 536

- (Exam Topic 3)

A system administrator is setting up a cron job that will copy thousands files from a remote directory on a scheduled basis. The file contents should retain their original permissions, including and group ownership, and the cron job should run for the least amount of the possible. Which of the following is the BEST program to use in this situation?

- A. Rsync
- B. Curl
- C. Scp
- D. Wget

E. sftp

**Answer:** A

#### NEW QUESTION 538

- (Exam Topic 3)

Which of the following command should an administrator use to prevent users from starting the httpd service on a system-based Linux system?

- A. Systemctl mask httpd
- B. Systemctl disables httpd
- C. Chkconfig httpd off
- D. Systemctl stop httpd

**Answer:** A

#### NEW QUESTION 539

- (Exam Topic 3)

Which of the following is the MOST common method used to access Windows systems that are running in a cloud provider from a Linux system?

- A. SSH
- B. NX
- C. XRDP
- D. VNC

**Answer:** C

#### NEW QUESTION 541

- (Exam Topic 3)

An administrator is trying to optimize a connection to an off-site NFS server.

Which of the following commands would BEST display the problems with packet sizes between hops on the network?

- A. tracepath
- B. ping
- C. tracert
- D. nmap

**Answer:** A

#### NEW QUESTION 546

- (Exam Topic 3)

A network administrator installed a web server on a Linux host and added a firewall rule to open port tcp/80. The web server worked without error until an update and patch kernel was installed on the system a month later. Now users are unable to access the web server even though the service is running, which of the following would fix the issue?

- A. Use the firewall rule to open the HTTP application service rather than the port.
- B. Change the firewall rule to private and open port tcp/80.
- C. Issue an additional firewall rule to open up port tcp/443 as well as port tcp/80.
- D. Use the firewall rule to open tcp/80 both with and without the --permanent switch.

**Answer:** D

#### NEW QUESTION 549

- (Exam Topic 3)

Which of the following server roles utilize a heartbeat/polling process? (Choose two.)

- A. Proxy
- B. Certificate authority
- C. Logging
- D. File server
- E. Cluster
- F. Load balancer

**Answer:** EF

#### NEW QUESTION 551

- (Exam Topic 3)

A system administrator is troubleshooting a web server that runs in a container. After the log is retained, the container occasionally stops logging to a log file.

Fortunately, the vendor provides a custom signal that allows the application to reconnect to the log file. Which of the following would be BEST for the administrator to run the containers?

- A. Kill --HUP 1
- B. Kill --USR 1
- C. Kill --TEAM 1
- D. Kill --Kill 1

**Answer:** A



#### NEW QUESTION 552

- (Exam Topic 3)

The following error is encountered when running a script:

```
bash: ./script.sh: /usr/bin/bash: bad interpreter: No such file or directory
```

Which of the following is the cause of this error?

- A. Script.sh was not added to the PATH
- B. The \$ ! line is incorrect
- C. Script.sh is missing the executable bit.
- D. The file scrip
- E. sh does not exist.
- F. Bash is not installed on the system

**Answer:** D

#### NEW QUESTION 555

- (Exam Topic 3)

An administrator is adding an existing user named “buddy” to the Apache group. Which of the following should the administrator perform to accomplish this task?

- A. sseradd –g apache buddy
- B. ssermod –g apche buddy
- C. sudo useradd –g apache buddy
- D. sudo usermod –g apachebuddy

**Answer:** B

#### NEW QUESTION 559

- (Exam Topic 3)

Which of the following is considered best practices when using definition files for the provisioning of Linus servers to the cloud?

- A. Build automation
- B. Container orchestration
- C. Infrastructure as code
- D. Continuous integration

**Answer:** B

#### NEW QUESTION 563

- (Exam Topic 3)

A systems administrator wants to increase the existing drive space on a Linux server with a software RAID. After physically adding the new drive to the system, and then adding the drive to the RAID array,

the administrator notices the available drive space has not increased. A status of the array shows the new drive and the original storage space:

```
md0 : active Raid sdd1[3]S sdc1[2] sdb1[1] sda1[0] 954585654 blocks level5 64K chunk algorithm 2 [3/3] [UUU]
```

Which of the following should the administrator do to make all storage space available on the RAID array?

- A. Run hdparm to alert the kernel to a new drive.
- B. Convert the new drive to a hot spare.
- C. Set the RAID type to a RAID 1.
- D. Grow the array size to four members.

**Answer:** C

#### NEW QUESTION 568

- (Exam Topic 3)

Vytcft of the following a a fie that can define how to build deploy and mstaf various components for a Linux application hosted m a cloud environment?

- A. OVF
- B. YAML
- C. Virsh
- D. VMM

**Answer:** B

#### NEW QUESTION 572

- (Exam Topic 3)

A Linux adrmstrator wants to resolve a remote server name locally. When of the following files should the administrator modify?

- A. /etc/hosts
- B. /etc/resolv.conf
- C. /etc/network
- D. /ett/rpc

**Answer:** A

#### NEW QUESTION 574

- (Exam Topic 4)

The grub2-mXconfig command is used to generate a new GRUB2 configuration after:

- A. resizing the /best filesystem
- B. changing the/etc/default/grub file
- C. changing the /boot/grub2/grub.cfg file
- D. installing new software from a package

**Answer: C**

#### NEW QUESTION 575

- (Exam Topic 4)

A developer wrote a custom version of the /bin/password command and placed it in /usr/local/bin/password. The new command needs to write to the /etc/paaawd file even when executed by a regular user. Which of the following commands should the administrator run to set the proper file permissions on this file?

A)

```
chown root.root /usr/local/bin/passwd  
chmod 4755 /usr/local/bin/passwd
```

B)

```
chown root.wheel /usr/local/bin/passwd  
chmod 755 /usr/local/bin/passwd
```

C)

```
visudo  
sudo /usr/local/bin/passwd
```

D)

```
chown root.admin /usr/local/bin/passwd  
chcon 2755 /usr/local/bin/passwd
```

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

**Answer: A**

#### NEW QUESTION 579

- (Exam Topic 4)

A junior Linux administrator receives a help desk ticket from a user who reports being unable to reach the website www.comptia.org. Which of the following commands should the administrator use to verify proper DNS configuration?

- A. dig www.comptia.org
- B. ping www.comptia.org
- C. hostname www.comptia.org
- D. netstat www.comptia.org

**Answer: C**

#### NEW QUESTION 582

- (Exam Topic 4)

A developer has contacted a systems administrator because an application is not receiving a response from the client. The application must purge the message queue before terminating. Which of the following should the systems administrator perform in order to BEST address the issue?

- A. Send the SIGHUP signal with the kill command.
- B. Send the signal with the command.
- C. Send the SIGSTOP signal with the kill command.
- D. Send the SIGTERM signal with the kill command.

**Answer: C**

#### NEW QUESTION 586

- (Exam Topic 4)

A systems administrator is creating a new volume opt \_ app in a volume group app\_vg. The new volume should utilize all the available disk space from the newly added disk device /dev/ sdb. Which of the following will achieve the task, assuming the app\_vg volume group does not exist yet and the disk device was added but not configured?

- A. `pvcreate /dev/sdb`  
`vgcreate app_vg /dev/sdb`  
`lvcreate -l100%FREE -n opt_app app_vg`
- B. `parted /dev/sdb mklabel msdos`  
`parted /dev/sdb mkpart primary ext4 0% 100%`  
`vgcreate app_vg /dev/sdb`  
`lvcreate -l100% -n opt_app app_vg`
- C. `fdisk /dev/sdb`  
`vgcreate app_vg /dev/sdb`  
`lvcreate -l100%FREE -n opt_app app_vg`
- D. `resize2fs /dev/sdb`  
`mkfs.ext4 /dev/sdb`  
`e2label /dev/sdb app_vg`  
`lvcreate -l100%VG -n opt_app app_vg`

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

**Answer:** C

#### NEW QUESTION 588

- (Exam Topic 4)

The ability to add web servers dynamically during peak user activity and remove them when user activity decreases is an example of:

- A. configuration automation  
B. build automation  
C. infrastructure automation  
D. inventory management

**Answer:** A

#### NEW QUESTION 591

- (Exam Topic 4)

Which of the following techniques would BEST ensure the setup and desired state of a server are consistently maintained?

- A. Configuration management  
B. Network automation  
C. Test automation  
D. Change control management

**Answer:** A

#### NEW QUESTION 596

- (Exam Topic 4)

An administrator tries to log in to a Linux host with the root account but receives the following error: permission denied. A colleague confirms the password being used is correct. Which of the following is the MOST likely cause..

- A. The administrator must first run `ssh-copy-id`  
B. The Linux host cannot connect to the LDAP server  
C. The root account is locked out from too many failed password attempts  
D. `PermitRootLogin` IS Set to no in `/etc/sah/sshd/config`  
E. The root account was removed from the system for security purposes

**Answer:** D

#### NEW QUESTION 600

- (Exam Topic 4)

A user cannot reach the internet from a workstation. A systems administrator performs diagnostics with the following results:

```
$ route
Destination    Gateway      Genmask      Flags    Metric  Ref    Use  Iface
default        10.0.0.1    0.0.0.0      UG        100     0       0  enp2s0
10.0.0.0       0.0.0.0     255.255.255.0 U         100     0       0  enp2s0

$ ping www.google.com
ping: google.com: Name or service not known

$ cat /etc/resolv.conf
# Generated by NetworkManager
search company.com
```

Which of the following is the cause for lack of internet connectivity?

- A. The workstation is not using a DNS server.
- B. The network gateway is not reachable from the workstation.
- C. The incorrect network mask is set for the interface enp2s0 on the workstation.
- D. The company's firewall is blocking connections from the workstation to the internet.

**Answer: C**

#### NEW QUESTION 603

- (Exam Topic 4)

Which of the following should the systems administrator use to ensure the test account is disabled after 24 hours if the account's password has expired?

- A. `passwd -1 test -t 24`
- B. `passwd -i 1 test`
- C. `passwd -e test 24`
- D. `passwd -d -l -n 1 test`

**Answer: C**

#### NEW QUESTION 604

- (Exam Topic 4)

A security audit concludes that an organization's database servers need to be hardened As a result, an administrator obtains the following partial Nmap output from a database server.

PORT	STATE
22/tcp	open
23/tcp	open
53/udp	open
53/tcp	closed
80/tcp	open
123/udp	open
443/tcp	open
3306/tcp	open

Which of the following commands should the administrator execute to mitigate security risks?

- A. `iptables -A INPUT -p tcp --dport 23 -j DROP`
- B. `iptables -A OUTPUT -p udp --dport 123 -j DROP`
- C. `iptables -A INPUT -p tcp --sport 23 -j ACCEPT`
- D. `iptables -A INPUT -p tcp --dport 3306 -j ACCEPT`

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

**Answer: D**

#### NEW QUESTION 605

- (Exam Topic 4)

Which of the following will MOST likely fix the issue?

- A. Add more CPUs to the server
- B. Replace the network cable
- C. Add a second web server and a load balancer
- D. Add more RAM to the server
- E. Exclude the web root directory from antivirus scanning

**Answer:** E

#### NEW QUESTION 610

- (Exam Topic 4)

A Linux administrator needs to implement a security policy that prevents all connections from the marketing department that has the IP subnet 10.10.10.0/24 from reaching the current server. Which of the following commands can BEST accomplish this task?

- A. iptables -A output -s 10.10.10.0/24 -j DROP
- B. iptables -A input -s 10.10.10.0/24 -j ACCEPT
- C. iptables -A forward -s 10.10.10.0/24 -j ACCEPT
- D. iptables -A input -s 10.10.10.0/24 -j DROP

**Answer:** B

#### NEW QUESTION 615

- (Exam Topic 4)

A technician needs to install the package, tar.gz, which contains the source code of custom software. The technician downloaded the file in /crap. Which of the following commands should the technician use to install the executable? (Select Two.)

- A. tar
- B. gunzip
- C. ldd
- D. configure
- E. apt
- F. make
- G. yum
- H. bzip2
- I. pip

**Answer:** EGI

#### NEW QUESTION 620

- (Exam Topic 4)

A server technician deployed ten cloned Linux devices in an organization. When testing network functionality of the devices, the technician notices the cloned devices have identical hostnames. Which of the following commands will change the hostnames of the devices permanently?

- A. Edit the 'etc/dhcp/dhclient.conf' file.
- B. Edit the '/etc/sysconfig/network' file.
- C. Issue the host- command
- D. Issue the nslookup command

**Answer:** B

#### NEW QUESTION 623

- (Exam Topic 4)

A new web server was recently installed and configured according to vendor..... management via SSH has shown slow screen responses. The systems administrator..

An administrator is setting up a script named script.sh to be executed daily at 3:15 a.m. Which of the following is the correct way to define this in crontab?

- A. \* \* \* 15 3 script.sh
- B. 3 15 \* \* \* script.sh
- C. \* \* \* 3 15 script.sh
- D. 15 3 \* \* \* script.sh

**Answer:** D

#### NEW QUESTION 624

- (Exam Topic 4)

An administrator wrote the following script, but it failed:

```
1 #!/bin/bash
2 DIR='/var/log'
3 FILES='ls -dl ${DIR}/*.log'
4 for $LINE in $(FILES)
5 do
6     OWNER='ls -l $(LINE) | cut -d " " -f 3'
7     echo "${LINE} - ${OWNER}"
8 done
```

Which of the following is MOST likely the error in the script?

- A. Line 1 should read: #!/bin/sh



- B. Line 4 should read: for line in \$ { FILES}
- C. Line 6 should read: OWNER-'ls -l \${LINE} | cut -d " " -f 1'
- D. Line 7 should read: echo '\${line} - S{OWNER}'

**Answer:** A

#### NEW QUESTION 629

- (Exam Topic 4)

A Linux systems administrator wants to see the current processes that are being run by each individual user who is logged on to the server. Which of the following is the BEST way to gather this information?

- A. wall
- B. who
- C. which
- D. watch
- E. w

**Answer:** A

#### NEW QUESTION 630

- (Exam Topic 4)

A systems administrator is attempting to connect a printer to the network. After installing the printer, the systems administrator wants to provide a printing interface for network users to detect printers dynamically. Which of the following would allow...

- A. HBA
- B. CUPS
- C. USB
- D. LPO

**Answer:** B

#### NEW QUESTION 632

- (Exam Topic 4)

An administrator is reviewing web application logs and discovers several external addresses are trying to perform port scans, SQL injections, or URL overflow attacks. The administrator is able to create an automated security log for malicious traffic IP addresses and requests. The security administrator then uses the following information to protect the server:

```
[root@webappserver]#cat /opt/webapp/sec.log
204.12.233.2
122.45.67.90
170.96.45.0/24
45.125.0.0/16
78.56.33.187
59.194.25.122
12.1.155.45
32.199.192.0/23
```

Which of the following actions should the security administrator recommend to protect the server?

- A. ipset create badip /opt/webapp/sec.log && ipset add badip \$IP
- B. ipset create hash badip:ip | firewall-cmd reload
- C. firewall-cmd --permanent --zone="public" ipset create badip hash:ip
- D. firewall-cmd --permanent --ipset=badip --add-entries-from-files=opt/webapp/sec.log

**Answer:** D

#### NEW QUESTION 636

- (Exam Topic 4)

Some Bash scripts are being versioned and stored in a Git repository. Which of the following commands should the Linux administrator use to exclude tmp files from being added to the repository during any code adds and commits?

- A. export GIT\_IGNORE=tmp
- B. alias git=git commit --ignore=tmp
- C. echo .gitignore >> \*tmp
- D. git config -- blacklist=tmp

**Answer:** A

#### NEW QUESTION 638

- (Exam Topic 4)

A systems administrator scheduled a new kernel module to replace an existing module while the system is running. Which of the following will accomplish this task?

A) 

```
modprobe -r driver_name
modprobe new_driver_name
```

B)

```
modprobe
modprobe -r driver_name
modprobe -f new_driver_name
```

C)

```
modprobe driver_name
modprobe -f new_driver_name
modprobe -r driver_name
```

D)

```
modprobe driver_name
modprobe -f new_driver_name
```

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

**Answer:** B

#### NEW QUESTION 643

- (Exam Topic 4)

When performing a routine server process inspection the systems administrator notices that about 300 processes similar to the following are running:

```
Root 7858 0 21:39 pts/0 00:00:00 [websrv] <defunct>
```

Malfunctioning software is found and removed from the server, but the administrator is now unable to terminate the remaining processes Which of the following is the BEST course of action for the administrator to take NEXT in order to remove.

- A. Schedule a server reboot
- B. Raise the process priorities
- C. Reinstall the OS on the server
- D. Lower the process priorities

**Answer:** A

#### NEW QUESTION 644

- (Exam Topic 4)

Whenever an administrator merges the feature branch into master, a binary is created and saved in the artifact repository. Which of the following does this describe?

- A. Build automation
- B. Infrastructure as code
- C. Agentless architecture
- D. Inventory

**Answer:** A

#### NEW QUESTION 646

- (Exam Topic 4)

A Linux administrator configured several network interfaces to be used for backup. The administrator entered the following commands:

```
nmcli conn add con-name backup ifname eth1 type ethernet ip4 172.11.111.10/27
nmcli conn mod eth1 ipv4.routes '172.11.0.0/16 172.11.111.1'
nmcli conn up backup
```

After the last command, a new interface appeared as connected and worked until the Linux system was rebooted. After the reboot, the interface did not connect properly. Which of the following configuration changes are needed to ensure that the interface connects automatically?

- A. The backup interface should be reconfigured with a / 24 subnet mask.
- B. autoconnect yes should be added to the interface configuration.
- C. nmcli conn up backup should be executed
- D. ip link set eth1 should be performed.

**Answer:** A

#### NEW QUESTION 647

- (Exam Topic 4)

An administrator needs to examine two text files and select identical lines from the files. Which of the following commands would BEST accomplish this task?

- A. cat report1 report2 | awk '{print \$2}' | wc -l
- B. cat report1 report2 | sort | uniq -d
- C. cat report1 report2 | grep -v < report1
- D. cat report1 report2 | sort -u | diff

**Answer:** A

#### NEW QUESTION 650

- (Exam Topic 4)

A systems administrator is attempting to use the locate command to find recently downloaded files. Which of the following commands must be run before locate will return results?

- A. whereis
- B. find
- C. updatedb
- D. locate -u

**Answer:** A

#### NEW QUESTION 654

- (Exam Topic 4)

An administrator is writing a Bash script that contains a loop that increments the value of the variable count with each loop iteration by 1. Which of the following should the administrator use?

- A. \$count++
- B. Count='expr \$count+1'
- C. Count = \$count+1
- D. ((++count))

**Answer:** A

#### NEW QUESTION 655

- (Exam Topic 4)

A user does not want Bluetooth to start up event time the system starts. Which of the following commands should the user execute to accomplish this task?

- A. systemctl disabled bluetcc-h.service
- B. systemctl disable bluetccth.service
- C. systemctl stop bluetooth.service
- D. systemctl stepped bluetccth.service

**Answer:** B

#### NEW QUESTION 658

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