



## CompTIA

### Exam Questions XK0-005

CompTIA Linux+ Certification Exam

**NEW QUESTION 1**

A Linux administrator cloned an existing Linux server and built a new server from that clone. The administrator encountered the following error after booting the cloned server:

```
Device mismatch detected
```

The administrator performed the commands listed below to further troubleshoot and mount the missing filesystem:

```
#ls -al /dev/disk/by-uuid/
total 0
drwxr-xr-x 2 root 220 Jul 08:59 .
drwxr-xr-x 2 root 160 Jul 08:59 ..
lrwxrwxrwx 1 root 26 Jul 11:10 2251a54-6c14-9187-df8629373 -> ../../sdb
lrwxrwxrwx 1 root 26 Jul 11:10 4211c54-2a13-7291-bd8629373 -> ../../sdc
lrwxrwxrwx 1 root 26 Jul 11:10 3451b54-6d10-3561-ad8629373 -> ../../sdd
```

Which of the following should administrator use to resolve the device mismatch issue and mount the disk?

- A. mount disk by device-id
- B. fsck -A
- C. mount disk by-label
- D. mount disk by-blkid

**Answer: D**

**NEW QUESTION 2**

A Linux engineer receives reports that files created within a certain group are being modified by users who are not group members. The engineer wants to reconfigure the server so that only file owners and group members can modify new files by default. Which of the following commands would accomplish this task?

- A. chmod 775
- B. umask
- C. 002
- D. chattr -Rv
- E. chown -cf

**Answer: B**

**NEW QUESTION 3**

One leg of an LVM-mirrored volume failed due to the underlying physical volume, and a systems administrator is troubleshooting the issue. The following output has been provided:

```
Partial mode. Incomplete volume groups will be activated read-only
```

LV	VG	Attr	LSize	Origin	Snap%	Move	Log	Copy%	Devices
linear	vg	-wi-a-	40.00G						unknown device(0)
stripe	vg	-wi-a-	40.00G						unknown device(5120), /dev/sda1(0)

Given this scenario, which of the following should the administrator do to recover this volume?

- A. Reboot the serve
- B. The volume will automatically go back to linear mode.
- C. Replace the failed drive and reconfigure the mirror.
- D. Reboot the serve
- E. The volume will revert to stripe mode.
- F. Recreate the logical volume.

**Answer: B**

**NEW QUESTION 4**

A systems administrator pressed Ctrl+Z after starting a program using the command line, and the shell prompt was presented. In order to go back to the program, which of the following commands can the administrator use?

- A. fg
- B. su
- C. bg
- D. ed

**Answer: A**

**Explanation:**

Ctrl+Z suspended the process, and "fg" will bring it back into the foreground of the shell

#### NEW QUESTION 5

A Linux administrator is tasked with adding users to the system. However, the administrator wants to ensure the users' access will be disabled once the project is over. The expiration date should be 2021-09-30. Which of the following commands will accomplish this task?

- A. sudo useradd -e 2021-09-30 Project\_user
- B. sudo useradd -c 2021-09-30 Project\_user
- C. sudo modinfo -F 2021-09-30 Project\_uses
- D. sudo useradd -m -d 2021-09-30 Project\_user

Answer: A

#### NEW QUESTION 6

A systems administrator wants to back up the directory /data and all its contents to /backup/data on a remote server named remote. Which of the following commands will achieve the desired effect?

- A. scp -p /data remote:/backup/data
- B. ssh -i /remote:/backup/ /data
- C. rsync -a /data remote:/backup/
- D. cp -r /data /remote/backup/

Answer: C

#### NEW QUESTION 7

Users have been unable to reach www.comptia.org from a Linux server. A systems administrator is troubleshooting the issue and does the following:

Output 1:

```
2: eth0: <BROADCAST,MULTICAST,UP, LOWER_UP> mtu 1500 qdisc noqueue state UP group default qlen 1000
    link/ether ac:11:22:33:44:cd brd ff:ff:ff:ff:ff:ff
    inet 192.168.168.10/24 brd 192.168.169.255 scope global dynamic noprefixroute eth0
        valid_lft 8097sec preferred_lft 8097sec
    inet fe80::4daf:8c7c:a6ff:2771/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
```

Output 2:

```
nameserver 192.168.168.53
```

Output 3:

```
FING 192.168.168.53 (192.168.168.53) 56(84) bytes of data.
64 bytes from 192.168.168.53: icmp_seq=1 ttl=64 time=2.85 ms
```

--- 192.168.168.53 ping statistics ---

```
1 packets transmitted, 1 received, 0% packet loss, time 0ms
rtt min/avg/max/mdev = 2.847/2.847/2.847/0.000 ms
```

Output 4:

```
192.168.168.0/24 dev eth0 proto kernel scope link src 192.168.168.10 metric 600
```

Output 5:

```
...
;; QUESTION SECTION:
;www.comptia.org. IN A

;; ANSWER SECTION:
. 0 CLASS4096 OPT 10 8 LqmNvk0AazU=

;; ADDITIONAL SECTION:
www.comptia.org. 3385 IN A 23.96.239.26
...
```

Based on the information above, which of the following is causing the issue?

- A. The name www.comptia.org does not point to a valid IP address.
- B. The server 192.168.168.53 is unreachable.
- C. No default route is set on the server.
- D. The network interface eth0 is disconnected.

Answer: C

#### NEW QUESTION 8

Some servers in an organization have been compromised. Users are unable to access to the organization's web page and other services. While reviewing the system log, a systems administrator notices messages from the kernel regarding firewall rules:

```
Oct 20 03:45:50 hostname kernel: iptables denied: IN=eth0 OUT=
MAC=xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx SRC=x.x.x.x DST=x.x.x.x LEN=1059 TOS=0x00
PREC=0x00 TTL=115 ID=31368 DF PROTO=TCP
SPT=17992 DPT=80 WINDOW=16477 RES=0x00 ACK PSH URGP=0
Oct 20 03:46:02 hostname kernel: iptables denied: IN=eth0 OUT=
MAC=xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx SRC=x.x.x.x DST=x.x.x.x LEN=52 TOS=0x00
PREC=0x00 TTL=52 ID=763 DF PROTO=TCP SPT=20229 DPT=22 WINDOW=15598 RES=0x00 ACK URGP=0
Oct 20 03:46:14 hostname kernel: iptables denied: IN=eth0 OUT=
MAC=xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx SRC=x.x.x.x DST=x.x.x.x LEN=324 TOS=0x00
PREC=0x00 TTL=49 ID=64245 PROTO=TCP SPT=47237 DPT=80 WINDOW=470 RES=0x00 ACK PSH URGP=0
Oct 20 03:46:26 hostname kernel: iptables denied: IN=eth0 OUT=
MAC=xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx SRC=x.x.x.x DST=x.x.x.x LEN=52 TOS=0x00
PREC=0x00 TTL=45 ID=2010 PROTO=TCP SPT=48322 DPT=80 WINDOW=380 RES=0x00 ACK URGP=0
```

Which of the following commands will remediate and help resolve the issue?

A. C:\Users\Admin\Desktop\Data\Odt data\Untitled.jpg

```
Iptables -A FORWARD -i eth0 -p tcp --dport 80 -j ACCEPT
Iptables -A FORWARD -i eth0 -p tcp --dport 22 -j ACCEPT
```

B. C:\Users\Admin\Desktop\Data\Odt data\Untitled.jpg

```
Iptables -A INPUT -i eth0 -p tcp --dport 80 -j ACCEPT
Iptables -A INPUT -i eth0 -p tcp --dport 22 -j ACCEPT
```

C. C:\Users\Admin\Desktop\Data\Odt data\Untitled.jpg

```
Iptables -A INPUT -i eth0 -p tcp --sport 80 -j ACCEPT
Iptables -A INPUT -i eth0 -p tcp --sport 22 -j ACCEPT
```

D. C:\Users\Admin\Desktop\Data\Odt data\Untitled.jpg

```
Iptables -A INPUT -i eth0 -p tcp --dport :80 -j ACCEPT
Iptables -A INPUT -i eth0 -p tcp --dport :22 -j ACCEPT
```

**Answer: B**

#### NEW QUESTION 9

A Linux administrator reviews a set of log output files and needs to identify files that contain any occurrence of the word denied. All log files containing entries in uppercase or lowercase letters should be included in the list. Which of the following commands should the administrator use to accomplish this task?

- A. find . -type f -print | xargs grep -ln denied
- B. find . -type f -print | xargs grep -nv denied
- C. find . -type f -print | xargs grep -wL denied
- D. find . -type f -print | xargs grep -li denied

**Answer: A**

#### NEW QUESTION 10

Based on an organization's new cybersecurity policies, an administrator has been instructed to ensure that, by default, all new users and groups that are created fall within the specified values below.

```
# Min/max values for automatic uid selection in useradd
#
UID_MIN 1000
UID_MAX 60000
# Min/max values for automatic gid selection in groupadd
#
GID_MIN 1000
GID_MAX 60000
```

To which of the following configuration files will the required changes need to be made?

- A. /etc/login.defs
- B. /etc/security/limits.conf
- C. /etc/default/useradd
- D. /etc/profile

**Answer:** A

#### NEW QUESTION 10

An administrator recently updated the BIND software package and would like to review the default configuration that shipped with this version. Which of the following files should the administrator review?

- A. /etc/named.conf.rpmnew
- B. /etc/named.conf.rpmsave
- C. /etc/named.conf
- D. /etc/bind/bind.conf

**Answer:** C

#### NEW QUESTION 13

After installing a new version of a package, a systems administrator notices a new version of the corresponding, service file was installed in order to use the new version of the, service file, which of the following commands must be issued FIRST?

- A. systemctl status
- B. systemctl stop
- C. systemctl reinstall
- D. systemctl daemon-reload

**Answer:** D

#### NEW QUESTION 17

A Linux administrator is adding a new configuration file to a Git repository. Which of the following describes the correct order of Git commands to accomplish the task successfully?

- A. pull -> push -> add -> checkout
- B. pull -> add -> commit -> push
- C. checkout -> push -> add -> pull
- D. pull -> add -> push -> commit

**Answer:** B

#### NEW QUESTION 18

A systems administrator is compiling a report containing information about processes that are listening on the network ports of a Linux server. Which of the following commands will allow the administrator to obtain the needed information?

- A. ss -pint
- B. tcpdump -nL
- C. netstat -pn
- D. lsof -lt

**Answer:** C

#### NEW QUESTION 21

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

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

**Answer:** D

#### NEW QUESTION 25

A systems engineer is adding a new 1GB XFS filesystem that should be temporarily mounted under /ops/app. Which of the following is the correct list of commands to achieve this goal?

- A. C:\Users\Admin\Desktop\Data\Odt data\Untitled.jpg

```
pvcreate -L1G /dev/app
mkfs.xfs /dev/app
mount /dev/app /opt/app
```

- B. C:\Users\Admin\Desktop\Data\Odt data\Untitled.jpg

```
parted /dev/sdb --script mkpart primary xfs 1GB
mkfs.xfs /dev/sdb
mount /dev/sdb /opt/app
```

C. C:\Users\Admin\Desktop\Data\Odt data\Untitled.jpg

```
lvs --create 1G --name app
mkfs.xfs /dev/app
mount /dev/app /opt/app
```

D. C:\Users\Admin\Desktop\Data\Odt data\Untitled.jpg

```
lvcreate -L 1G -n app app_vg
mkfs.xfs /dev/app_vg/app
mount /dev/app_vg/app /opt/app
```

**Answer: D**

### NEW QUESTION 29

A Linux administrator is troubleshooting an issue in which an application service failed to start on a Linux server. The administrator runs a few commands and gets the following outputs:

Output 1:

```
Dec 23 23:14:15 root systemd[1] logsearch.service: Failed to start Logsearch.
```

Output 2:

```
logsearch.service - Log Search
Loaded: loaded (/etc/systemd/system/logsearch.service; enabled; vendor preset:enabled)
Active: failed (Result: timeout)
Process: 3267 ExecStart=/usr/share/logsearch/bin/logger ...
Main PID: 3267 (code=killed, signal=KILL)
```

Based on the above outputs, which of the following is the MOST likely action the administrator should take to resolve this issue?

- A. Enable the logsearch.service and restart the service.
- B. Increase the TimeoutStartUSec configuration for the logsearch.sevice.
- C. Update the OnCalendar configuration to schedule the start of the logsearch.service.
- D. Update the KillSignal configuration for the logsearch.service to use TERM.

**Answer: B**

### NEW QUESTION 31

A systems administrator is notified that the mysqld process stopped unexpectedly. The systems administrator issues the following command:

```
sudo grep -i -r 'out of memory' /var/log
```

The output of the command shows the following:

```
kernel: Out of memory: Kill process 9112 (mysqld) score 511 or sacrifice child.
```

Which of the following commands should the systems administrator execute NEXT to troubleshoot this issue? (Select two).

- A. free -h
- B. nc -v 127.0.0.1 3306
- C. renice -15 \$( pidof mysql )
- D. lsblk
- E. killall -15
- F. vmstat -a 1 4

**Answer: AC**

### NEW QUESTION 32

A cloud engineer needs to block the IP address 192.168.10.50 from accessing a Linux server. Which of the following commands will achieve this goal?

- A. iptables -F INPUT -j 192.168.10.50 -m DROP
- B. iptables -A INPUT -s 192.168.10.30 -j DROP
- C. iptables -i INPUT --ipv4 192.168.10.50 -z DROP
- D. iptables -j INPUT 192.168.10.50 -p DROP

**Answer: B**

### NEW QUESTION 33

Which of the following files holds the system configuration for journal when running systemd?

- A. /etc/systemd/journald.conf
- B. /etc/systemd/systemd-journalctl.conf
- C. /usr/lib/systemd/journalctl.conf
- D. /etc/systemd/systemd-journald.conf

**Answer:** A

#### NEW QUESTION 34

A systems administrator is tasked with setting up key-based SSH authentication. In which of the following locations should the administrator place the public keys for the server?

- A. ~/.ssh/authkeys
- B. ~/.ssh/keys
- C. ~/.ssh/authorized\_keys
- D. ~/.ssh/keyauth

**Answer:** C

#### NEW QUESTION 37

A Linux system is failing to boot. The following error is displayed in the serial console: `[[1;33mDEPEND[Om] Dependency failed for /data.`  
`[[1;33mDEPEND[Om] Dependency failed for Local File Systems`

...  
Welcome to emergency mode! After logging in, type "journalctl -xb" to view system logs, "systemctl reboot" to reboot, "systemctl default" to try again to boot into default mode.

Give root password for maintenance (or type Control-D to continue)

Which of the following files will need to be modified for this server to be able to boot again?

- A. /etc/mtab
- B. /dev/sda
- C. /etc/fstab
- D. /etc/grub.conf

**Answer:** C

#### NEW QUESTION 38

After listing the properties of a system account, a systems administrator wants to remove the expiration date of a user account. Which of the following commands will accomplish this task?

- A. `chgrp system accountname`
- B. `passwd -s accountname`
- C. `chmod -G system account name`
- D. `chage -E -1 accountname`

**Answer:** D

#### NEW QUESTION 42

A systems administrator needs to clone the partition /dev/sdc1 to /dev/sdd1. Which of the following commands will accomplish this task?

- A. `tar -cvzf /dev/sdd1 /dev/sdc1`
- B. `rsync /dev/sdc1 /dev/sdd1`
- C. `dd if=/dev/sdc1 of=/dev/sdd1`
- D. `scp /dev/sdc1 /dev/sdd1`

**Answer:** C

#### NEW QUESTION 45

A junior Linux administrator is tasked with installing an application. The installation guide states the application should only be installed in a run level 5 environment.

```
$ systemctl get-default  
getty.target
```

Which of the following commands would ensure the server is set to runlevel 5?

- A. `systemctl isolate multi-user.target`
- B. `systemctl isolate graphical.target`
- C. `systemctl isolate network.target`
- D. `systemctl isolate basic.target`

**Answer:** B

#### NEW QUESTION 50

A Linux administrator needs to redirect all HTTP traffic temporarily to the new proxy server 192.0.2.25 on port 3128. Which of the following commands will accomplish this task?

- A. `iptables -t nat -D PREROUTING -p tcp --sport 80 -j DNAT - --to-destination 192.0.2.25:3128`

- B. iptables -t nat -A PREROUTING -p tcp --dport 81 -j DNAT --to-destination 192.0.2.25:3129
- C. iptables -t nat -I PREROUTING -p tcp --sport 80 -j DNAT --to-destination 192.0.2.25:3129
- D. iptables -t nat -A PREROUTING -p tcp --dport 80 -j DNAT --to-destination 192.0.2.25:3128

**Answer:** D

#### NEW QUESTION 51

A cloud engineer is installing packages during VM provisioning. Which of the following should the engineer use to accomplish this task?

- A. Cloud-init
- B. Bash
- C. Docker
- D. Sidecar

**Answer:** A

#### NEW QUESTION 53

A junior administrator is trying to set up a passwordless SSH connection to one of the servers. The administrator follows the instructions and puts the key in the `authorized_key` file at the server, but the administrator is still asked to provide a password during the connection.

Given the following output:

```
junior@server:~$ ls -lh .ssh/auth*
-rw----- 1 junior junior 566 sep 13 20:56 .ssh/authorized_key
```

Which of the following commands would resolve the issue and allow an SSH connection to be established without a password?

- A. `restorecon -rv .ssh/authorized_key`
- B. `mv .ssh/authorized_key .ssh/authorized_keys`
- C. `systemctl restart sshd.service`
- D. `chmod 600 mv .ssh/authorized_key`

**Answer:** C

#### NEW QUESTION 55

Which of the following commands is used to configure the default permissions for new files?

- A. `setenforce`
- B. `sudo`
- C. `umask`
- D. `chmod`

**Answer:** C

#### NEW QUESTION 58

A Linux administrator has set up a new DNS forwarder and is configuring all internal servers to use the new forwarder to look up external DNS requests. The administrator needs to modify the firewall on the server for the DNS forwarder to allow the internal servers to communicate to it and make the changes persistent between server reboots. Which of the following commands should be run on the DNS forwarder server to accomplish this task?

- A. `ufw allow out dns`
- B. `systemctl reload firewalld`
- C. `iptables -A OUTPUT -p udp -ra udp -dport 53 -j ACCEPT`
- D. `firewall-cmd --zone-public --add-port-53/udp --permanent`

**Answer:** D

#### NEW QUESTION 62

A Linux system is failing to start due to issues with several critical system processes. Which of the following options can be used to boot the system into the single user mode? (Choose two.)

- A. Execute the following command from the GRUB rescue shell: `mount -o remount, ro/sysroot`.
- B. Interrupt the boot process in the GRUB menu and add `systemd.unit=single` in the kernel line.
- C. Interrupt the boot process in the GRUB menu and add `systemd.unit=rescue.target` in the kernel line.
- D. Interrupt the boot process in the GRUB menu and add `single=user` in the kernel line.
- E. Interrupt the boot process in the GRUB menu and add `init=/bin/bash` in the kernel line.
- F. Interrupt the boot process in the GRUB menu and add `systemd.unit=single.target` in the kernel line.

**Answer:** CE

#### NEW QUESTION 66

A Linux administrator created the directory `/project/access2all`. By creating this directory, the administrator is trying to avoid the deletion or modification of files from non-owners. Which of the following will accomplish this goal?

- A. `chmod +t /project/access2all`
- B. `chmod +rws /project/access2all`
- C. `chmod 2770 /project/access2all`

D. `chmod ugo+rwx /project/access2all`

**Answer:** A

**NEW QUESTION 68**

A systems administrator has been tasked with disabling the nginx service from the environment to prevent it from being automatically and manually started. Which of the following commands will accomplish this task?

- A. `systemctl cancel nginx`
- B. `systemctl disable nginx`
- C. `systemctl mask nginx`
- D. `systemctl stop nginx`

**Answer:** C

**NEW QUESTION 72**

A systems technician is working on deploying several microservices to various RPM-based systems, some of which could run up to two hours. Which of the following commands will allow the technician to execute those services and continue deploying other microservices within the same terminal session?

- A. `gedit & disown`
- B. `kill 9 %1`
- C. `fg %1`
- D. `bg %1 job name`

**Answer:** A

**NEW QUESTION 74**

A Linux administrator has been tasked with installing the most recent versions of packages on a RPM-based OS. Which of the following commands will accomplish this task?

- A. `apt-get upgrade`
- B. `rpm -a`
- C. `yum updateinfo`
- D. `dnf update`
- E. `yum check-update`

**Answer:** D

**NEW QUESTION 75**

A Linux administrator is troubleshooting the root cause of a high CPU load and average.

```
$ uptime
07:30:43 up 20 days, 3 min, 1 user, load average: 2.98, 3.62, 5.21

$ top
PID  USER  PR  NI  VIRT  RES  SHR  S  %CPU  %MEM  TIME+  COMMAND
6295  user1  30  -10  5465  56465  8254  R  86.5  1.5  7:35.25  appl

$ ps -ef | grep user1
user1 6295 1 7:42:19 tty/1 06:48:29 /usr/local/bin/appl
```

Which of the following commands will permanently resolve the issue?

- A. `renice -n -20 6295`
- B. `pstree -p 6295`
- C. `iostat -cy 1 5`
- D. `kill -9 6295`

**Answer:** A

**NEW QUESTION 76**

A Linux engineer set up two local DNS servers (10.10.10.10 and 10.10.10.20) and was testing email connectivity to the local mail server using the mail command on a local machine when the following error appeared:

```
Send-mail: Cannot open mail:25
```

The local machine DNS settings are:

```
$ cat /etc/resolv.conf
nameserver 10.10.10.10 #web records
nameserver 10.10.10.20 #email records

Mail server: mail.example.com
```

Which of the following commands could the engineer use to query the DNS server to get mail server information?

- A. dig @example.com 10.10.10.20 a
- B. dig @10.10.10.20 example.com mx
- C. dig @example.com 10.10.10.20 ptr
- D. dig @10.10.10.20 example.com ns

**Answer: B**

#### NEW QUESTION 78

A Linux administrator created a new file system. Which of the following files must be updated to ensure the filesystem mounts at boot time?

- A. /etc/sysctl
- B. /etc/filesystems
- C. /etc/fstab
- D. /etc/nfsmount.conf

**Answer: C**

#### NEW QUESTION 81

A Linux administrator needs to remove software from the server. Which of the following RPM options should be used?

- A. rpm -s
- B. rm -d
- C. rpm -q
- D. rpm -e

**Answer: D**

#### NEW QUESTION 86

A Linux administrator needs to ensure that Java 7 and Java 8 are both locally available for developers to use when deploying containers. Currently only Java 8 is available. Which of the following commands should the administrator run to ensure both versions are available?

- A. docker image load java:7
- B. docker image pull java:7
- C. docker image import java:7
- D. docker image build java:7

**Answer: B**

#### NEW QUESTION 89

A Linux administrator rebooted a server. Users then reported some of their files were missing. After doing some troubleshooting, the administrator found one of the filesystems was missing. The filesystem was not listed in /etc/fstab and might have been mounted manually by someone prior to reboot. Which of the following would prevent this issue from reoccurring in the future?

- A. Sync the mount units.
- B. Mount the filesystem manually.
- C. Create a mount unit and enable it to be started at boot.
- D. Remount all the missing filesystems

**Answer: C**

#### NEW QUESTION 92

User1 is a member of the accounting group. Members of this group need to be able to execute but not make changes to a script maintained by User2. The script should not be accessible to other users or groups. Which of the following will give proper access to the script?

- A. chown user2:accounting script.sh chmod 750 script.sh
- B. chown user1:accounting script.sh chmod 777 script.sh
- C. chown accounting:user1 script.sh chmod 057 script.sh
- D. chown user2:accounting script.sh chmod u+x script.sh

**Answer: C**

#### NEW QUESTION 95

A Linux administrator is installing a web server and needs to check whether web traffic has already been allowed through the firewall. Which of the following

commands should the administrator use to accomplish this task?

- A. firewall query-service-http
- B. firewall-cmd --check-service http
- C. firewall-cmd --query-service http
- D. firewalld --check-service http

**Answer: C**

#### NEW QUESTION 100

A systems administrator made some unapproved changes prior to leaving the company. The newly hired administrator has been tasked with revealing the system to a compliant state. Which of the following commands will list and remove the correspondent packages?

- A. dnf list and dnf remove last
- B. dnf remove and dnf check
- C. dnf info and dnf upgrade
- D. dnf history and dnf history undo last

**Answer: D**

#### NEW QUESTION 101

A Linux administrator is trying to remove the ACL from the file /home/user/data.txt but receives the following error message:

```
setfacl: data.txt: operation not permitted
```

Given the following analysis:

```
/dev/mapper/linux-home on /home type xfs (rw,relatime,seclabel,attr2,inode64,usrquota)

-rw-rw-r--+ 1 user staff 2354 Sep 15 16:33 data.txt
-rw-rw-r--+ user staff unconfined_u:object_r:user_home_t:s0 data.txt

# file: data.txt
# owner: user
# group: staff
user::rw-
user:accounting:rw-
group::r-
mask::rw-
other::r-

Attributes:
-----a-----
```

Which of the following is causing the error message?

- A. The administrator is not using a highly privileged account.
- B. The filesystem is mounted with the wrong options.
- C. SELinux file context is denying the ACL changes.
- D. File attributes are preventing file modification.

**Answer: D**

#### NEW QUESTION 104

Joe, a user, is unable to log in to the Linux system Given the following output:

```
# grep joe /etc/passwd /etc/shadow
/etc/passwd:joe:x:1001:1001::/home/joe:/bin/nologin
/etc/shadow:joe:$6$3uOw6qWx9876jGhgKJsdfH987634534voj.:18883:0:99999:7:::
```

Which of the following command would resolve the issue?

- A. usermod -s /bin/bash joe
- B. pam\_tally2 -u joe -r
- C. passwd -u joe
- D. chage -E 90 joe

**Answer: A**

#### NEW QUESTION 107

A Linux administrator needs to create a new user named user02. However, user02 must be in a different home directory, which is under /comptia/projects. Which of the following commands will accomplish this task?

- A. useradd -d /comptia/projects user02
- B. useradd -m /comptia/projects user02
- C. useradd -b /comptia/projects user02

D. useradd -s /comptia/projects user02

**Answer:** A

**NEW QUESTION 112**

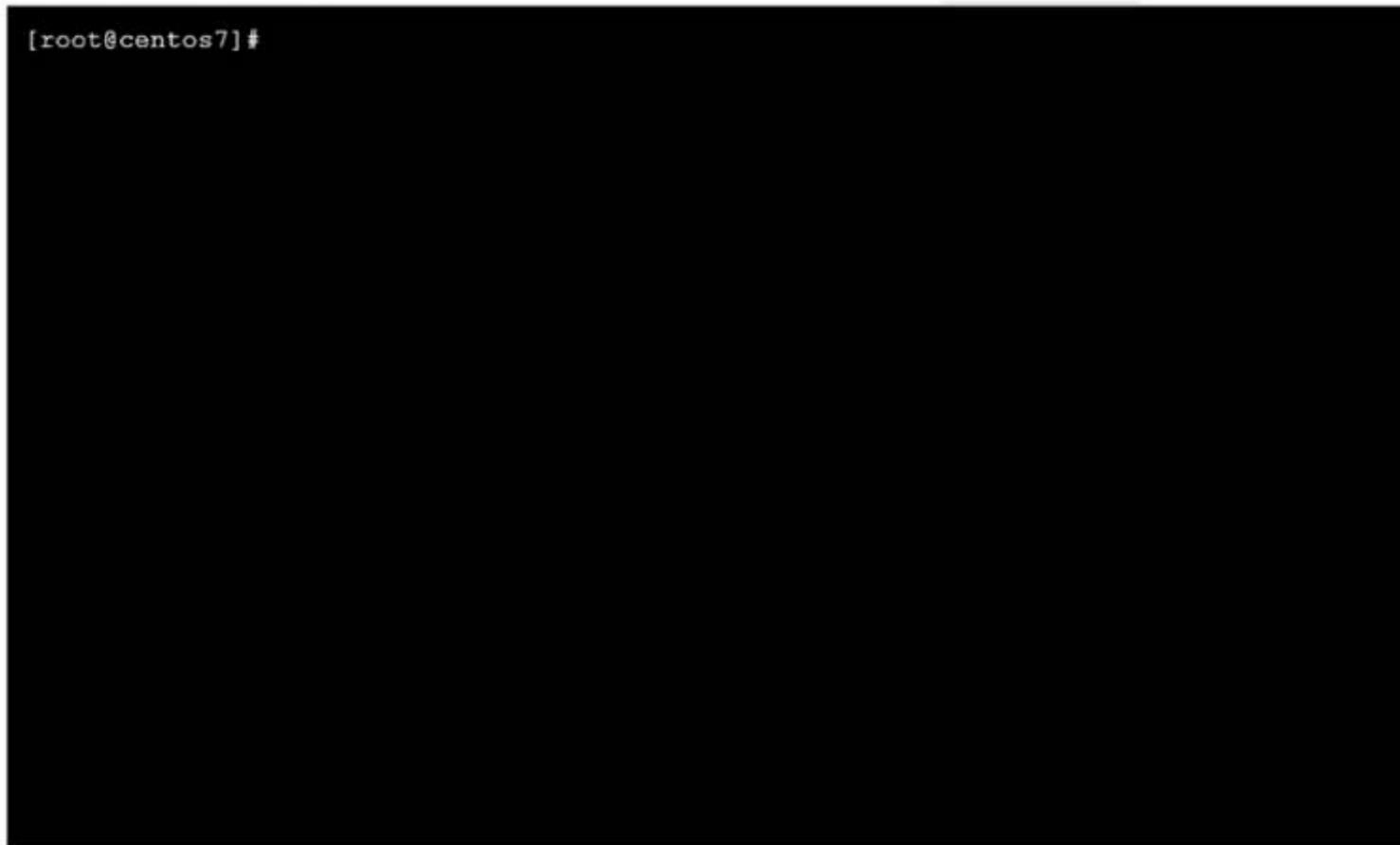
Junior system administrator had trouble installing and running an Apache web server on a Linux server. You have been tasked with installing the Apache web server on the Linux server and resolving the issue that prevented the junior administrator from running Apache.

**INSTRUCTIONS**

Install Apache and start the service. Verify that the Apache service is running with the defaults. Typing “help” in the terminal will show a list of relevant event commands.

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

**CentOS Command Prompt**



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

```
yum install httpd
systemctl --now enable httpd systemctl status httpd
netstat -tunlp | grep 80 pkill <processname> systemctl restart httpd systemctl status httpd
```

**NEW QUESTION 117**

A Linux engineer has been notified about the possible deletion of logs from the file /opt/app/logs. The engineer needs to ensure the log file can only be written into without removing previous entries.

```
# lsattr /opt/app/logs
-----e--- logs
```

Which of the following commands would be BEST to use to accomplish this task?

- A. chattr +a /opt/app/logs
- B. chattr +d /opt/app/logs
- C. chattr +i /opt/app/logs
- D. chattr +c /opt/app/logs

**Answer:** A

**NEW QUESTION 118**

A Linux engineer is setting the sticky bit on a directory called devops with 755 file permission. Which of the following commands will accomplish this task?

- A. chown -s 755 devops
- B. chown 1755 devops
- C. chmod -s 755 devops
- D. chmod 1755 devops

**Answer:** D

### NEW QUESTION 123

An administrator transferred a key for SSH authentication to a home directory on a remote server. The key file was moved to `.ssh/authorized_keys` location in order to establish SSH connection without a password. However, the SSH command still asked for the password. Given the following output:

```
[admin@linux ~ ]$ -ls -lhZ .ssh/auth*
-rw-r--r--. admin unconfined_u:object_r:user_home_t:s0 .ssh/authorized_keys
```

Which of the following commands would resolve the issue?

- A. `restorecon .ssh/authorized_keys`
- B. `ssh_keygen -t rsa -o .ssh/authorized_keys`
- C. `chown root:root .ssh/authorized_keys`
- D. `chmod 600 .ssh/authorized_keys`

**Answer: A**

### NEW QUESTION 126

A Linux engineer needs to create a custom script, `cleanup.sh`, to run at boot as part of the system services. Which of the following processes would accomplish this task?

- A. Create a unit file in the `/etc/default/` director
- B. `systemctl enable cleanupsystemctl is-enabled cleanup`
- C. Create a unit file in the `/etc/ske1/` director
- D. `systemctl enable cleanupsystemctl is-enabled cleanup`
- E. Create a unit file in the `/etc/systemd/system/` director
- F. `systemctl enable cleanupsystemctl is-enabled cleanup`
- G. Create a unit file in the `/etc/sysctl.d/` director
- H. `systemctl enable cleanupsystemctl is-enabled cleanup`

**Answer: C**

### NEW QUESTION 131

A Linux engineer needs to download a ZIP file and wants to set the nice of value to `-10` for this new process. Which of the following commands will help to accomplish the task?

- A. `$ nice -v -10 wget https://foo.com/installation.zip`
- B. `$ renice -v -10 wget https://foo.com/installation.2ip`
- C. `$ renice -10 wget https://foo.com/installation.zip`
- D. `$ nice -10 wget https://foo.com/installation.zip`

**Answer: D**

### NEW QUESTION 133

A systems administrator made some changes in the `~/.bashrc` file and added an alias command. When the administrator tried to use the alias command, it did not work. Which of the following should be executed FIRST?

- A. `source ~/.bashrc`
- B. `read ~/.bashrc`
- C. `touch ~/.bashrc`
- D. `echo ~/.bashrc`

**Answer: A**

### NEW QUESTION 137

A systems administrator is investigating why one of the servers has stopped connecting to the internet.

```
#curl http://google.com
curl: (6) Could not resolve host: google.com

#cat /etc/resolv.conf
search user.company.com company.com
#nameserver 10.10.10.10

#ip route
0.0.0.0/0 via 10.0.5.1 dev eth0 proto static metric 100
10.0.0.0/16 dev eth0 proto kernel scope link src 10.0.3.60 metric 101

#nmcli connection show
NAME                UUID                                TYPE      DEVICE
eth0                 ba4a3d30-efdc-4fa5-83d3-3721fd4aff75  ethernet  eth0
Wired connection 1  8d569d5a-22a2-356d-8532-9a2638f11b5a5  ethernet  --
```

Which of the following is causing the issue?

- A. The DNS address has been commented out in the configuration file.
- B. The search entry in the /etc/resolv.conf file is incorrect.
- C. Wired connection 1 is offline.
- D. No default route is defined.

**Answer:** A

**NEW QUESTION 141**

Using AD Query, the security gateway connections to the Active Directory Domain Controllers using what protocol?

- A. Windows Management Instrumentation (WMI)
- B. Hypertext Transfer Protocol Secure (HTTPS)
- C. Lightweight Directory Access Protocol (LDAP)
- D. Remote Desktop Protocol (RDP)

**Answer:** A

**NEW QUESTION 144**

A systems administrator is deploying three identical, cloud-based servers. The administrator is using the following code to complete the task:

```
resource "aws_instance" "ec2_instance" {
  ami           = data.aws_ami.vendor-Linux-2.id
  associate_public_ip_address = true
  count        = 3
  instance_type = "instance_type"
  vpc_security_group_ids = [aws_security_group.allow_ssh.id]
  key_name     = aws_key_pair.key_pair.key_name

  tags = {
    Name = "${var.namespace} ${count.index}"
  }
}
```

Which of the following technologies is the administrator using?

- A. Ansible
- B. Puppet
- C. Chef
- D. Terraform

**Answer:** D

**NEW QUESTION 148**

To harden one of the servers, an administrator needs to remove the possibility of remote administrative login via the SSH service. Which of the following should the administrator do?

- A. Add the line DenyUsers root to the /etc/hosts.deny file.
- B. Set PermitRootLogin to no in the /etc/ssh/sshd\_config file.
- C. Add the line account required pam\_nologin
- D. so to the /etc/pam.d/sshd file.
- E. Set PubKeyAuthentication to no in the /etc/ssh/ssh\_config file.

**Answer:** B

**NEW QUESTION 153**

Several users reported that they were unable to write data to the /oracle1 directory. The following output has been provided:

Filesystem	Size	Used	Available	Use%	Mounted on
/dev/sdb1	100G	50G	50G	50%	/oracle1

Which of the following commands should the administrator use to diagnose the issue?

- A. df -i /oracle1
- B. fdisk -l /dev/sdb1
- C. lsblk /dev/sdb1
- D. du -sh /oracle1

Answer: A

#### NEW QUESTION 154

A server is experiencing intermittent connection issues. Some connections to the Internet work as intended, but some fail as if there is no connectivity. The systems administrator inspects the server configuration:

##### Routing table:

```
default via 89.107.157.129 dev ens3 proto static metric 100
default via 10.0.5.1 dev ens11 proto dhcp metric 101
10.0.0.0/16 dev sn11 proto kernel scope link src 10.0.6.225 metric 101
89.107.157.128/26 via 89.107.157.129 dev ens3 proto static metric 100
89.107.157.129 dev ens3 proto static scope link metric 100
89.107.157.160/29 dev ens3 proto kernel scope link src 89.107.157.161 metric 100
```

##### IP configuration:

```
ens3:
  inet 89.107.157.161/29 brd 89.107.157.167 scope global noprefixroute ens3
ens11:
  inet 10.0.6.225/16 brd 10.0.255.255 scope global noprefixroute dynamic ens11
```

##### ARP table:

Address	Hwtype	Hwaddress	Flags	Mask	Iface
10.0.5.1	ether	64:d1:54:c4:75:cb	C		ens11
89.107.157.129	ether	5c:5e:ab:01:85:cf	C		ens3
89.107.157.162	ether	52:54:00:e1:44:0a	C		ens3
10.0.255.1	ether	00:50:7f:e3:aa:1c	C		ens11

```
/etc/resolv.conf:
Generated by NetworkManager
search company.com
nameserver 10.0.5.1
```

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

- A. An internal-only DNS server is configured.
- B. The IP netmask is wrong for ens3.
- C. Two default routes are configured.
- D. The ARP table contains incorrect entries.

Answer: C

#### NEW QUESTION 158

Which of the following technologies provides load balancing, encryption, and observability in containerized environments?

- A. Virtual private network
- B. Sidecar pod
- C. Overlay network
- D. Service mesh

Answer: D

##### Explanation:

"A service mesh controls the delivery of service requests in an application. Common features provided by a service mesh include service discovery, load balancing, encryption and failure recovery."

<https://www.techtarget.com/searchitoperations/definition/service-mesh>

#### NEW QUESTION 159

A systems administrator wants to test the route between IP address 10.0.2.15 and IP address 192.168.1.40. Which of the following commands will accomplish this task?

- A. route -e get to 192.168.1.40 from 10.0.2.15
- B. ip route get 192.163.1.40 from 10.0.2.15
- C. ip route 192.169.1.40 to 10.0.2.15
- D. route -n 192.168.1.40 from 10.0.2.15

Answer: B

#### NEW QUESTION 161

Users have been unable to save documents to /home/tmp/temp and have been receiving the following error: Path not found  
 A junior technician checks the locations and sees that /home/tmp/tempa was accidentally created instead of /home/tmp/temp. Which of the following commands should the technician use to fix this issue?

- A. cp /home/tmp/tempa /home/tmp/temp
- B. mv /home/tmp/tempa /home/tmp/temp
- C. cd /temp/tmp/tempa
- D. ls /home/tmp/tempa

**Answer: B**

**NEW QUESTION 165**

A Linux administrator is scheduling a system job that runs a script to check available disk space every hour. The Linux administrator does not want users to be able to start the job. Given the following:

```
[Unit]
Description=Check available disk space
RefuseManualstart=yes
RefuseManualStop=yes

[Timer]
Persistent=true
OnCalendar=*-*-*-*:00:00
Unit=checkdiskspace.service

[Install]
WantedBy=timers.target
```

The Linux administrator attempts to start the timer service but receives the following error message:

```
Failed to start checkdiskspace.timer: Operation refused ...
```

Which of the following is MOST likely the reason the timer will not start?

- A. The checkdiskspace.timer unit should be enabled via systemctl.
- B. The timers.target should be reloaded to get the new configuration.
- C. The checkdiskspace.timer should be configured to allow manual starts.
- D. The checkdiskspace.timer should be started using the sudo command.

**Answer: C**

**NEW QUESTION 167**

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

```
$ vmstat -s --unit M

968 M total memory
331 M used memory
482 M active memory
279 M inactive memory
99 M free memory

$ free -h

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

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

Which of the following commands would address the issue?

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

**Answer: C**

#### NEW QUESTION 169

A Linux user reported the following error after trying to connect to the system remotely: ssh: connect to host 10.0.1.10 port 22: Resource temporarily unavailable  
 The Linux systems administrator executed the following commands in the Linux system while trying to diagnose this issue:

```
# netstat -an | grep 22 | grep LISTEN
tcp        0      0 0.0.0.0:22          0.0.0.0:*          LISTEN

# firewall-cmd --list-all
public (active)
  target: default
  icmp-block-inversion: no
  interfaces: eth0
  sources:
  services: dhcpv6-client
  ports:
  protocols:
  masquerade: no
    forward-ports:
    source-ports:
    icmp-blocks:
    rich rules:
```

Which of the following commands will resolve this issue?

- A. firewall-cmd --zone=public --permanent --add-service=22
- B. systemctl enable firewalld; systemctl restart firewalld
- C. firewall-cmd --zone=public --permanent --add-service=ssh
- D. firewall-cmd --zone=public --permanent --add-port=22/udp

**Answer: C**

#### NEW QUESTION 171

A systems administrator is encountering performance issues. The administrator runs 3 commands with the following output

```
09:10:18 up 457 days, 32min, 5 users, load average: 4.22 6.63 5.98
```

The Linux server has the following system properties CPU: 4 vCPU  
 Memory: 50GB

Which of the following accurately describes this situation?

- A. The system is under CPU pressure and will require additional vCPUs
- B. The system has been running for over a year and requires a reboot.
- C. Too many users are currently logged in to the system
- D. The system requires more memory

**Answer: B**

#### NEW QUESTION 172

A systems administrator was tasked with assigning the temporary IP address/netmask 192.168.168.1/255.255.255.255 to the interface eth0 of a Linux server.  
 When adding the address, the following error appears:

```
# ip address add 192.168.168.1/33 dev eth0
Error: any valid prefix is expected rather than "192.168.168.1/33".
```

Based on the command and its output above, which of the following is the cause of the issue?

- A. The CIDR value /33 should be /32 instead.
- B. There is no route to 192.168.168.1/33.
- C. The interface eth0 does not exist.
- D. The IP address 192.168.168.1 is already in use.

**Answer: C**

#### NEW QUESTION 175

A systems administrator requires that all files that are created by the user named web have read-only permissions by the owner. Which of the following commands will satisfy this requirement?

- A. chown web:web /home/web
- B. chmod -R 400 /home/web
- C. echo "umask 377" >> /home/web/.bashrc
- D. setfacl read /home/web

**Answer:** B

#### NEW QUESTION 180

Due to low disk space, a Linux administrator finding and removing all log files that were modified more than 180 days ago. Which of the following commands will accomplish this task?

- A. find /var/log -type d -mtime +180 -print -exec rm {} \;
- B. find /var/log -type f -modified +180 -rm
- C. find /var/log -type f -mtime +180 -exec rm {} \
- D. find /var/log -type c -atime +180 -remove

**Answer:** A

#### NEW QUESTION 183

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