

# CompTIA

## Exam Questions XK0-005

CompTIA Linux+ Certification Exam



**NEW QUESTION 1**

A Linux system is getting an error indicating the root filesystem is full. Which of the following commands should be used by the systems administrator to resolve this issue? (Choose three.)

- A. df -h /
- B. fdisk -l /dev/sdb
- C. growpart /dev/mapper/rootvg-rootlv
- D. pvcreate /dev/sdb
- E. lvresize -L +10G -r /dev/mapper/rootvg-rootlv
- F. lsblk /dev/sda
- G. parted -l /dev/mapper/rootvg-rootlv
- H. vgextend /dev/rootvg /dev/sdb

**Answer:** DEH

**NEW QUESTION 2**

A cloud engineer needs to change the secure remote login port from 22 to 49000. Which of the following files should the engineer modify to change the port number to the desired value?

- A. /etc/host.conf
- B. /etc/hostname
- C. /etc/services
- D. /etc/ssh/sshd\_config

**Answer:** D

**NEW QUESTION 3**

A Linux administrator needs to expand a volume group using a new disk. Which of the following options presents the correct sequence of commands to accomplish the task?

- A. partprobe vgcreate lvextend
- B. lvcreate fdisk partprobe
- C. fdiskpartprobe mkfs
- D. fdiskpvcreate vgextend

**Answer:** D

**NEW QUESTION 4**

While inspecting a recently compromised Linux system, the administrator identified a number of processes that should not have been running:

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
5545	joe	30	-10	5465	56465	8254	R	0.5	1.5	00:35.3	upload.sh
2567	joe	30	-10	6433	75544	9453	R	0.7	1.8	00:25.1	upload_passwd.sh
8634	joe	30	-10	3584	74537	6435	R	0.3	1.1	00:17.6	uploadpw.sh
4846	joe	30	-10	6426	63234	9683	R	0.8	1.9	00:22.2	upload_shadow.sh

Which of the following commands should the administrator use to terminate all of the identified processes?

- A. pkill -9 -f "upload\*.sh"
- B. kill -9 "upload\*.sh"
- C. killall -9 -upload\*.sh"
- D. skill -9 "upload\*.sh"

**Answer:** C

**NEW QUESTION 5**

A Linux administrator needs to create an image named sda.img from the sda disk and store it in the /tmp directory. Which of the following commands should be used to accomplish this task?

- A. dd of=/dev/sda if=/tmp/sda.img
- B. dd if=/dev/sda of=/tmp/sda.img
- C. dd --if=/dev/sda --of=/tmp/sda.img
- D. dd --of=/dev/sda --if=/tmp/sda.img

**Answer:** B

**NEW QUESTION 6**

Which of the following tools is commonly used for creating CI/CD pipelines?

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

**Answer:** C

**NEW QUESTION 7**

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 8**

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 9**

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 10**

A Linux system fails to start and delivers the following error message:

```
Checking all file systems.  
/dev/sda1 contains a file system with errors, check forced.  
/dev/sda1: Inodes that were part of a corrupted orphan linked list found.  
/dev/sda1: UNEXPECTED INCONSISTENCY;
```

Which of the following commands can be used to address this issue?

- A. fsck.ext4 /dev/sda1
- B. partprobe /dev/sda1
- C. fdisk /dev/sda1
- D. mkfs.ext4 /dev/sda1

**Answer: A**

**NEW QUESTION 10**

A systems administrator needs to reconfigure a Linux server to allow persistent IPv4 packet forwarding. Which of the following commands is the correct way to accomplish this task?

- A. echo 1 > /proc/sys/net/ipv4/ipv\_forward
- B. sysctl -w net.ipv4.ip\_forward=1
- C. firewall-cmd --enable ipv4\_forwarding
- D. systemctl start ipv4\_forwarding

**Answer: B**

**NEW QUESTION 12**

A systems administrator is tasked with installing GRUB on the legacy MBR of the SATA hard drive. Which of the following commands will help the administrator accomplish this task?

- A. grub-install /dev/hda
- B. grub-install /dev/sda
- C. grub-install /dev/sr0
- D. grub-install /dev/hd0,0

**Answer: B**

**NEW QUESTION 15**

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 17**

A systems administrator is troubleshooting connectivity issues and trying to find out why a Linux server is not able to reach other servers on the same subnet it is connected to. When listing link parameters, the following is presented:

```
# ip link list dev eth0
2: etho: <NO-CARRIER, BROADCAST, MULTICAST, UP> mtu 1500, qdisc
fq_codel state DOWN mode DEFAULT group default qlen 1000
link/ether ac:00:11:22:33:cd brd ff:ff:ff:ff:ff:ff
```

Based on the output above, which of following is the MOST probable cause of the issue?

- A. The address ac:00:11:22:33:cd is not a valid Ethernet address.
- B. The Ethernet broadcast address should be ac:00:11:22:33:ff instead.
- C. The network interface eth0 is using an old kernel module.
- D. The network interface cable is not connected to a switch.

**Answer:** D

**NEW QUESTION 21**

A development team asks an engineer to guarantee the persistency of journal log files across system reboots. Which of the following commands would accomplish this task?

- A. grep -i auto /etc/systemd/journald.conf && systemctl restart systemd-journald.service
- B. cat /etc/systemd/journald.conf | awk '(print \$1,\$3)'
- C. sed -i 's/auto/persistent/g' /etc/systemd/journald.conf && sed -i 'persistent/s/^#/q/' /etc/systemd/journald.conf
- D. journalctl --list-boots && systemctl restart systemd-journald.service

**Answer:** A

**NEW QUESTION 23**

A systems administrator is tasked with mounting a USB drive on a system. The USB drive has a single partition, and it has been mapped by the system to the device /dev/sdb. Which of the following commands will mount the USB to /media/usb?

- A. mount /dev/sdb1 /media/usb
- B. mount /dev/sdb0 /media/usb
- C. mount /dev/sdb /media/usb
- D. mount -t usb /dev/sdb1 /media/usb

**Answer:** A

**NEW QUESTION 24**

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 25**

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 30

A Linux systems administrator receives a notification that one of the server's filesystems is full. Which of the following commands would help the administrator to identify this filesystem?

- A. lsblk
- B. fdisk
- C. df -h
- D. du -ah

**Answer:** C

#### NEW QUESTION 34

Which of the following directories is the mount point in a UEFI system?

- A. /sys/efi
- B. /boot/efi
- C. /efi
- D. /etc/efi

**Answer:** B

#### NEW QUESTION 38

A systems administrator frequently connects to a remote host via SSH and a non-standard port. The systems administrator would like to avoid passing the port parameter on the command line every time. Which of the following files can be used to set a different port value for that host?

- A. /etc/ssh/sshd\_config
- B. /etc/ssh/moduli
- C. ~/.ssh/config
- D. ~/.ssh/authorized\_keys

**Answer:** C

#### NEW QUESTION 39

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 44

A Linux administrator recently downloaded a software package that is currently in a compressed file. Which of the following commands will extract the files?

- A. unzip -v
- B. bzip2 -z
- C. gzip
- D. funzip

**Answer:** C

#### NEW QUESTION 47

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 50

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 54

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 59

When trying to log in remotely to a server, a user receives the following message:

```
Password:  
Last failed login: Wed Sep 15 17:23:45 CEST 2021 from 10.0.4.3 on ssh:notty  
There were 3 failed login attempts since the last successful login.  
Connection to localhost closed.
```

The server administrator is investigating the issue on the server and receives the following outputs:

Output 1:

```
user:x:1001:1001:/home/user:/bin/false
```

Output 2:

```
dzwx----- 2 user 62 Sep 15 17:17 /home/user
```

Output 3:

```
Sep 12 14:14:05 server sshd[22958]: Failed password for user from 10.0.2.8  
Sep 15 17:24:03 server sshd[4460]: Accepted keyboard-interactive/pam for user from 10.0.6.5 port 50928 ssh2  
Sep 15 17:24:03 server sshd[4460]: pam_unix(sshd:session): session opened for user testuser  
Sep 15 17:24:03 server sshd[4460]: pam_unix(sshd:session): session closed for user testuser
```

Which of the following is causing the issue?

- A. The wrong permissions are on the user's home directory.
- B. The account was locked out due to three failed logins.
- C. The user entered the wrong password.
- D. The user has the wrong shell assigned to the account.

**Answer: D**

#### NEW QUESTION 62

A Linux systems administrator needs to copy files and directories from Server A to Server B. Which of the following commands can be used for this purpose? (Select TWO)

- A. rsyslog
- B. cp
- C. rsync
- D. reposync
- E. scp
- F. ssh

**Answer: CE**

#### NEW QUESTION 67

A Linux administrator needs to resolve a service that has failed to start. The administrator runs the following command:



```
ls -l startup file
```

The following output is returned

```
-----. root root 81k Sep 13 19:01 startupfile
```

Which of the following is MOST likely the issue?

- A. The service does not have permissions to read write the startupfile.
- B. The service startupfile size cannot be 81k.
- C. The service startupfile cannot be owned by root.
- D. The service startupfile should not be owned by the root group.

**Answer:** A

#### NEW QUESTION 68

A Linux administrator needs to create a new cloud.cpio archive containing all the files from the current directory. Which of the following commands can help to accomplish this task?

- A. `ls | cpio -iv > cloud.epio`
- B. `ls | cpio -iv < cloud.epio`
- C. `ls | cpio -ov > cloud.cpio`
- D. `ls cpio -ov < cloud.cpio`

**Answer:** C

#### NEW QUESTION 71

A Linux administrator copied a Git repository locally, created a feature branch, and committed some changes to the feature branch. Which of the following Git actions should the Linux administrator use to publish the changes to the main branch of the remote repository?

- A. rebase
- B. tag
- C. commit
- D. push

**Answer:** C

#### NEW QUESTION 73

A Linux administrator was tasked with deleting all files and directories with names that are contained in the sobelete.txt file. Which of the following commands will accomplish this task?

- A. `xargs -f cat toDelete.txt -rm`
- B. `rm -d -r -f toDelete.txt`
- C. `cat toDelete.txt | rm -frd`
- D. `cat toDelete.txt | xargs rm -rf`

**Answer:** B

#### NEW QUESTION 75

A Linux administrator needs to determine whether a hostname is in the DNS. Which of the following would supply the information that is needed?

- A. nslookup
- B. rsyn
- C. netstat
- D. host

**Answer:** A

#### 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 80

A Linux systems administrator receives reports from various users that an application hosted on a server has stopped responding at similar times for several days in a row. The administrator logs in to the system and obtains the following output:

Output 1:

```
[Tue Aug 31 16:36:42 2021] OOM: Kill process 43805 (java) score 249 or sacrifice child
[Tue Aug 31 16:36:42 2021] killed process 43805 (java) total-vx: 4446352kB, anon-rss: 4053140kB, file-rss: 68kB
```

Output 2:

```
Linux 3.10.0-328.13.1.x86_64 #1 (hostname) 31/08/2021 _x86_64_ (8 CPU)
16:00:01 PM      CPU      %user   %nice   %system   %iowait   %steal     %idle
16:10:01 PM      all       17.58    0.00      9.36      0.00      0.00     73.06
16:20:01 PM      all       22.34    0.00     11.75      0.00      0.00     65.91
16:30:01 PM      all       25.49    0.00     11.69      0.00      0.00     62.82
```

Output 3:

```
$ free -m
              total        used        free   shared  buff/cache   available
Mem:          16704       15026         174        92         619         793
Swap:           0           0           0
```

Which of the following should the administrator do to provide the BEST solution for the reported issue?

- A. Configure memory allocation policies during business hours and prevent the Java process from going into a zombie state while the server is idle.
- B. Configure a different nice value for the Java process to allow for more users and prevent the Java process from restarting during business hours.
- C. Configure more CPU cores to allow for the server to allocate more processing and prevent the Java process from consuming all of the available resources.
- D. Configure the swap space to allow for spikes in usage during peak hours and prevent the Java process from stopping due to a lack of memory.

**Answer: A**

#### NEW QUESTION 85

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 88

A Linux administrator is alerted to a storage capacity issue on a server without a specific mount point or directory. Which of the following commands would be MOST helpful for troubleshooting? (Choose two.)

- A. parted
- B. df
- C. mount
- D. du
- E. fdisk
- F. dd
- G. ls

**Answer: BD**

#### NEW QUESTION 89

A systems administrator is receiving tickets from users who cannot reach the application app that should be listening on port 9443/tcp on a Linux server. To troubleshoot the issue, the systems administrator runs netstat and receives the following output:

```
# netstat -anp | grep appd | grep -w LISTEN
tcp 0 0 127.0.0.1:9443 0.0.0.0:* LISTEN 1234/appd
```

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

- A. The IP address 0.0.0.0 is not valid.
- B. The application is listening on the loopback interface.
- C. The application is listening on port 1234.
- D. The application is not running.

**Answer: B**

#### Explanation:

The server is in a "Listen" state on port 9943 using its loopback address. The "1234" is a process-id

#### NEW QUESTION 92

A Linux systems administrator is configuring a new filesystem that needs the capability to be mounted persistently across reboots. Which of the following commands will accomplish this task? (Choose two.)



- A. df -h /data
- B. mkfs.ext4 /dev/sdc1
- C. fsck /dev/sdc1
- D. fdisk -l /dev/sdc1
- E. echo "/data /dev/sdc1 ext4 defaults 0 0" >> /etc/fstab
- F. echo "/dev/sdc1 /data ext4 defaults 0 0" >> /etc/fstab

**Answer:** BF

**Explanation:**

"modify the /etc/fstab text file to automatically mount the new partition by opening it in an editor and adding the following line:

/dev/ xxx 1 /data ext4 defaults 1 2

where xxx is the device name of the storage device" <https://learning.oreilly.com/library/view/mastering-linux-system/9781119794455/b01.xhtml>

**NEW QUESTION 97**

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 98**

A Linux system is failing to boot with the following error:

```
error: no such partitions
Entering rescue mode...
grub rescue>
```

Which of the following actions will resolve this issue? (Choose two.)

- A. Execute grub-install --root-directory=/mnt and reboot.
- B. Execute grub-install /dev/sdX and reboot.
- C. Interrupt the boot process in the GRUB menu and add rescue to the kernel line.
- D. Fix the partition modifying /etc/default/grub and reboot.
- E. Interrupt the boot process in the GRUB menu and add single to the kernel line.
- F. Boot the system on a LiveCD/ISO.

**Answer:** BD

**NEW QUESTION 102**

A systems administrator wants to be sure the sudo rules just added to /etc/sudoers are valid. Which of the following commands can be used for this task?

- A. visudo -c
- B. test -f /etc/sudoers
- C. sudo vi check
- D. cat /etc/sudoers | tee test

**Answer:** A

**NEW QUESTION 105**

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 108**

A database administrator requested the installation of a custom database on one of the servers. Which of the following should the Linux administrator configure so the requested packages can be installed?

- A. /etc/yum.conf
- B. /etc/ssh/sshd.conf
- C. /etc/yum/repos.d/db.repo
- D. /etc/resolv.conf

**Answer:** C

**NEW QUESTION 111**

Which of the following commands will display the operating system?

- A. `uname -n`
- B. `uname -s`
- C. `uname -o`
- D. `uname -m`

**Answer:** C

**NEW QUESTION 112**

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 113**

A developer is trying to install an application remotely that requires a graphical interface for installation. The developer requested assistance to set up the necessary environment variables along with X11 forwarding in SSH. Which of the following environment variables must be set in remote shell in order to launch the graphical interface?

- A. `$RHOST`
- B. `SETENV`
- C. `$SHELL`
- D. `$DISPLAY`

**Answer:** D

**NEW QUESTION 116**

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 117**

In which of the following filesystems are system logs commonly stored?

- A. `/var`
- B. `/tmp`
- C. `/etc`
- D. `/opt`

**Answer:** A

**NEW QUESTION 122**

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

repeat

/tmp/tmpfile

locate

Filename

rar

then

"log.[1-6]\$"

in

done

/var/log

for

xz

"\$1"

sed

gzip

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

while

```
#!/bin/bash

#name: script.sh

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

? filename ? $(cat ? )

do

? $filename

?
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Snippets

tar

until

zip

egrep

awk

\$log

"\$6"

pgrep

repeat

/tmp/tmpfile

locate

Filename

rar

then

"log.[1-6]\$"

in

done

/var/log

for

xz

"\$1"

sed

gzip

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

while

```
#!/bin/bash

#name: script.sh

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

for filename in $(cat /tmp/tmpfile)

do

gzip $filename

done
```

NEW QUESTION 127

An administrator accidentally deleted the /boot/vmlinuz file and must resolve the issue before the server is rebooted. Which of the following commands should the administrator use to identify the correct version of this file?

- A. rpm -qa | grep kernel; uname -a
- B. yum -y update; shutdown -r now
- C. cat /etc/centos-release; rpm -Uvh --nodeps
- D. telinit 1; restorecon -Rv /boot

Answer: A

NEW QUESTION 132

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 133

Users report that connections to a MariaDB service are being closed unexpectedly. A systems administrator troubleshoots the issue and finds the following message in /var/log/messages:

```
dbserver kernel: out of Memory: Killed process 1234 (mysqld).
```

Which of the following is causing the connection issue?

- A. The process mysqld is using too many semaphores.
- B. The server is running out of file descriptors.
- C. Something is starving the server resources.
- D. The amount of RAM allocated to the server is too high.

**Answer:** D

#### NEW QUESTION 137

A systems administrator created a new Docker image called test. After building the image, the administrator forgot to version the release. Which of the following will allow the administrator to assign the v1 version to the image?

- A. docker image save test test:v1
- B. docker image build test:vl
- C. docker image tag test test:vl
- D. docker image version test:v1

**Answer:** C

#### NEW QUESTION 141

A systems administrator is checking the system logs. The administrator wants to look at the last 20 lines of a log. Which of the following will execute the command?

- A. tail -v 20
- B. tail -n 20
- C. tail -c 20
- D. tail -l 20

**Answer:** B

#### NEW QUESTION 144

Which of the following enables administrators to configure and enforce MFA on a Linux system?

- A. Kerberos
- B. SELinux
- C. PAM
- D. PKI

**Answer:** A

#### NEW QUESTION 147

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 151

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 152

A Linux administrator has logged in to a server for the first time and needs to know which services are allowed through the firewall. Which of the following options will return the results for which the administrator is looking?

- A. firewall-cmd --get-services
- B. firewall-cmd --check-config
- C. firewall-cmd --list-services
- D. systemctl status firewalld

**Answer: C**

#### NEW QUESTION 156

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 158

A systems administrator is investigating an issue in which one of the servers is not booting up properly. The journalctl entries show the following:

```
Sep 16 20:30:43 server kernel: acpi PNP0A03:00: _OSC failed (AE_NOT_FOUND);  
-- Subject: Unit dev-mapper-centos\x2dapp.device has failed  
Sep 16 20:32:15 server systemd[1]: Dependency failed for /opt/app  
-- Subject: Unit opt-app.mount has failed  
-- Unit opt-app.mount has failed  
Sep 16 20:32:15 server systemd[1]: Dependency failed for Local File Systems.  
-- Subject: Unit local-fs.target has failed  
-- Unit local-fs.target has failed.  
Sep 16 20:32:15 server systemd[1]: Dependency failed for Relabel all filesystem, if necessary.  
-- Subject: Unit rhel-autorelabel.service has failed  
-- Unit rhel-autorelabel.service has failed.
```

Which of the following will allow the administrator to boot the Linux system to normal mode quickly?

- A. Comment out the /opt/app filesystem in /etc/fstab and reboot.
- B. Reformat the /opt/app filesystem and reboot.
- C. Perform filesystem checks on local filesystems and reboot.
- D. Trigger a filesystem relabel and reboot.

**Answer: A**

#### NEW QUESTION 159

A newly created container has been unable to start properly, and a Linux administrator is analyzing the cause of the failure. Which of the following will allow the administrator to determine the FIRST command that is executed inside the container right after it starts?

- A. docker export <container\_id>
- B. docker info <container\_id>
- C. docker start <container\_id>
- D. docker inspect <container\_id>

**Answer: D**

#### NEW QUESTION 164

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 165

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