

# 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 systems administrator is tasked with preventing logins from accounts other than root, while the file /etc/nologin exists. Which of the following PAM modules will accomplish this task?

- A. pam\_login.so
- B. pam\_access.so
- C. pam\_logindef.so
- D. pam\_nologin.so

**Answer: D**

**NEW QUESTION 3**

An administrator attempts to rename a file on a server but receives the following error.

```
mv: cannot move 'files/readme.txt' to 'files/readme.txt.orig': Operation not permitted.
```

The administrator then runs a few commands and obtains the following output:

```
$ ls -ld files/  
drwxrwxrwt.1 users users 20 Sep 10 15:15 files/  
$ ls -a files/  
drwxrwxrwt.1 users users 20 Sep 10 15:15 -  
drwxr-xr-x.1 users users 32 Sep 10 15:15 ..  
-rw-rw-r--.1 users users 4 Sep 12 10:34 readme.txt
```

Which of the following commands should the administrator run NEXT to allow the file to be renamed by any user?

- A. chgrp reet files
- B. chacl -R 644 files
- C. chown users files
- D. chmod -t files

**Answer: D**

**NEW QUESTION 4**

Rugged appliances are small appliances with ruggedized hardware and like Quantum Spark appliance they use which operating system?

- A. Centos Linux
- B. Gaia embedded
- C. Gaia
- D. Red Hat Enterprise Linux version 5

**Answer: B**

#### NEW QUESTION 5

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 6

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 7

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 8**

A systems administrator is implementing a new service task with systems at startup and needs to execute a script entitled test.sh with the following content:

```
TIMESTAMP=$(date '+%Y-%m-%d %H:%M:%S')
echo "helpme.service: timestamp $(Timestamp)" | systemd-cat -p info
sleep 60
done
```

The administrator tries to run the script after making it executable with chmod +x; however, the script will not run. Which of the following should the administrator do to address this issue? (Choose two.)

- A. Add #!/bin/bash to the bottom of the script.
- B. Create a unit file for the new service in /etc/systemd/system/ with the name helpme.service in the location.
- C. Add #!/bin/bash to the top of the script.
- D. Restart the computer to enable the new service.
- E. Create a unit file for the new service in /etc/init.d with the name helpme.service in the location.
- F. Shut down the computer to enable the new service.

**Answer:** BC

**NEW QUESTION 9**

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 10**

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 10**

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 12**

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 15**

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 20

A Linux administrator has installed a web server, a database server, and a web application on a server. The web application should be active in order to render the web pages. After the administrator restarts the server, the website displays the following message in the browser: Error establishing a database connection. The Linux administrator reviews the following relevant output from the systemd init files:

```
[Unit]
Description=The Apache #HTTP Server
Wants=httpd-init.service
After=network.target remote-fs.target nss-lookup-target httpd-init.service mariadb.service

[Unit]
Description=MariaDB 10.5 database server
After=network.target
```

The administrator needs to ensure that the database is available before the web application is started. Which of the following should the administrator add to the HTTP server .service file to accomplish this task?

- A. TRIGGERS=mariadb.service
- B. ONFAILURE=mariadb.service
- C. WANTEDBY=mariadb.service
- D. REQUIRES=mariadb.service

**Answer:** D

#### NEW QUESTION 24

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 26

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

**Answer:** C

#### NEW QUESTION 29

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 32

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 36

A junior systems administrator has just generated public and private authentication keys for passwordless login. Which of the following files will be moved to the remote servers?

- A. id\_dsa.pem
- B. id\_rsa
- C. id\_ecdsa
- D. id\_rsa.pub

**Answer:** D

#### 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 39

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 44

A systems administrator is tasked with creating an Ansible playbook to automate the installation of patches on several Linux systems. In which of the following languages should the playbook be written?

- A. SQL
- B. YAML
- C. HTML
- D. JSON

**Answer:** B

#### NEW QUESTION 49

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 53

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 section?

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

**Answer:** A

#### NEW QUESTION 57

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 61

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 63

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 64

A Linux administrator would like to use systemd to schedule a job to run every two hours. The administrator creates timer and service definitions and restarts the server to load these new configurations. After the restart, the administrator checks the log file and notices that the job is only running daily. Which of the following is MOST likely causing the issue?

- A. The checkdiskspace.service is not running.
- B. The checkdiskspace.service needs to be enabled.
- C. The OnCalendar schedule is incorrect in the timer definition.
- D. The system-daemon services need to be reloaded.

**Answer:** D

#### NEW QUESTION 67

A Linux systems administrator needs to persistently enable IPv4 forwarding in one of the Linux systems. Which of the following commands can be used together to accomplish this task? (Choose two.)

- A. sysctl net.ipv4.ip\_forward
- B. sysctl -w net.ipv4.ip\_forward=1
- C. echo "net.ipv4.ip\_forward=1" >> /etc/sysctl.conf
- D. echo 1 > /proc/sys/net/ipv4/ip\_forward
- E. sysctl -p
- F. echo "net.ipv6.conf.all.forwarding=1" >> /etc/sysctl.conf

**Answer:** BC

#### NEW QUESTION 71

What is the main objective when using Application Control?

- A. To filter out specific content.

- B. To assist the firewall blade with handling traffic.
- C. To see what users are doing.
- D. Ensure security and privacy of information.

**Answer:** C

#### NEW QUESTION 74

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 78

Which of the following is a function of a bootloader?

- A. It initializes all the devices that are required to load the OS.
- B. It mounts the root filesystem that is required to load the OS.
- C. It helps to load the different kernels to initiate the OS startup process.
- D. It triggers the start of all the system services.

**Answer:** C

#### NEW QUESTION 79

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 80

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 82

A Linux administrator is creating a primary partition on the replacement hard drive for an application server. Which of the following commands should the administrator issue to verify the device name of this partition?

- A. sudo fdisk /dev/sda
- B. sudo fdisk -s /dev/sda
- C. sudo fdisk -l
- D. sudo fdisk -h

**Answer:** C

#### NEW QUESTION 87

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 89

A Linux administrator is providing a new Nginx image from the registry to local cache. Which of the following commands would allow this to happen?

- A. docker pull nginx
- B. docker attach nginx
- C. docker commit nginx
- D. docker import nginx

**Answer:** A

#### NEW QUESTION 94

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 95

A developer reported an incident involving the application configuration file /etc/httpd/conf/httpd.conf that is missing from the server. Which of the following identifies the RPM package that installed the configuration file?

- A. rpm -qf /etc/httpd/conf/httpd.conf
- B. rpm -ql /etc/httpd/conf/httpd.conf
- C. rpm —query /etc/httpd/conf/httpd.conf
- D. rpm -q /etc/httpd/conf/httpd.conf

**Answer:** A

#### NEW QUESTION 96

A Linux administrator wants to find out whether files from the wget package have been altered since they were installed. Which of the following commands will provide the correct information?

- A. rpm -i wget
- B. rpm -qf wget
- C. rpm -F wget
- D. rpm -V wget

**Answer:** D

#### NEW QUESTION 98

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

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

- 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 101

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

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

**Answer:** A

### NEW QUESTION 104

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 105

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 110

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 112

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 115

An administrator deployed a Linux server that is running a web application on port 6379/tcp. SELinux is in enforcing mode based on organization policies. The port is open on the firewall. Users who are trying to connect to a local instance of the web application receive Error 13, Permission denied. The administrator ran some commands that resulted in the following output:

```
# semanage port -l | egrep '(\http_port_t|6379)'  
http_port_t tcp 80, 81, 443, 488, 8008, 8009, 8443, 9000  
  
# curl http://localhost/App.php  
Cannot connect to App Server.
```

Which of the following commands should be used to resolve the issue?

- A. semanage port -d -t http\_port\_t -p tcp 6379
- B. semanage port -a -t http\_port\_t -p tcp 6379
- C. semanage port -a http\_port\_t -p top 6379
- D. semanage port -l -t http\_port\_tcp 6379

**Answer: B**

#### NEW QUESTION 119

An administrator is trying to diagnose a performance issue and is reviewing the following output:

```
avg-cpu:  %user  %nice  %system  %iowait  %steal   %idle  
           2.00   0.00    3.00    32.00    0.00   63.00  
  
Device            tps  kB_read/s  kB_wrtn/s   kB_read  kB_wrtn  
sdb                345.00      0.02      0.04 4739073123 23849523  
sdb1               345.00    32102.03   12203.01 4739073123 23849523
```

System Properties: CPU: 4 vCPU  
Memory: 40GB  
Disk maximum IOPS: 690  
Disk maximum throughput: 44Mbps | 44000Kbps  
Based on the above output, which of the following BEST describes the root cause?

- A. The system has reached its maximum IOPS, causing the system to be slow.
- B. The system has reached its maximum permitted throughput, therefore iowait is increasing.
- C. The system is mostly idle, therefore the iowait is high.
- D. The system has a partitioned disk, which causes the IOPS to be doubled.

**Answer: B**

#### NEW QUESTION 120

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 122

A cloud engineer is asked to copy the file deployment.yaml from a container to the host where the container is running. Which of the following commands can accomplish this task?

- A. docker cp container\_id/deployment.yaml deployment.yaml
- B. docker cp container\_id:/deployment.yaml deployment.yaml
- C. docker cp deployment.yaml local://deployment.yaml
- D. docker cp container\_id/deployment.yaml local://deployment.yaml

**Answer:** A

#### NEW QUESTION 123

A systems administrator needs to verify whether the built container has the app.go file in its root directory. Which of the following can the administrator use to verify the root directory has this file?

- A. docker image inspect
- B. docker container inspect
- C. docker exec <container\_name> ls
- D. docker ps <container\_name>

**Answer:** B

#### NEW QUESTION 128

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 129

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 134

A Linux administrator booted up the server and was presented with a non-GUI terminal. The administrator ran the command systemctl isolate graphical.target and rebooted the system by running systemctl reboot, which fixed the issue. However, the next day the administrator was presented again with a non-GUI terminal. Which of the following is the issue?

- A. The administrator did not reboot the server properly.
- B. The administrator did not set the default target to basic.target.
- C. The administrator did not set the default target to graphical.target.
- D. The administrator did not shut down the server properly.

**Answer:** C

#### NEW QUESTION 139

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 142

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 144

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 148

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 150

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 152**

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 155**

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