

Exam Questions XK0-005

CompTIA Linux+ Certification Exam

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NEW QUESTION 1

A Linux administrator is reviewing changes to a configuration file that includes the following section:

```
tls:
  certificates:
    - certFile: /etc/ssl/cert.cer
      keyFile: /etc/ssl/cert.key
      stores: default
    - certFile: /etc/ssl/expired.cer
      keyFile: /etc/ssl/expired.key
      stores: expired
```

The Linux administrator is trying to select the appropriate syntax formatter to correct any issues with the configuration file. Which of the following should the syntax formatter support to meet this goal?

- A. Markdown
- B. XML
- C. YAML
- D. JSON

Answer: C

NEW QUESTION 2

Which of the following data structures is written in JSON?

A)

```
---
name: user1
position: DevOps
floor: 3
```

B)

```
<table>
<tbody><tr>
<td>user1</td>
<td>DevOps</td>
<td>3</td>
</tr>
</tbody></table>
```

C)

```
<root>
  <floor>3</floor>
  <name>user1</name>
  <position>DevOps</position>
</root>
```

D)

```
{
  "name": "user1",
  "job": "DevOps",
  "floor": 3
}
```

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

Answer: D

NEW QUESTION 3

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 4

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 5

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 6

At what point is the Internal Certificate Authority (ICA) created?

- A. During the primary Security Management Server installation process.
- B. Upon creation of a certificate.
- C. When an administrator decides to create one.
- D. When an administrator initially logs into SmartConsole.

Answer: A

NEW QUESTION 7

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 8

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 9

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 10

A systems administrator has been unable to terminate a process. Which of the following should the administrator use to forcibly stop the process?

- A. `kill -1`
- B. `kill -3`
- C. `kill -15`
- D. `kill -HUP`
- E. `kill -TERM`

Answer: B

NEW QUESTION 10

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 15

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

```
lvcreate -L 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 20

A DevOps engineer needs to allow incoming traffic to ports in the range of 4000 to 5000 on a Linux server. Which of the following commands will enforce this rule?

- A. iptables -f filter -I INPUT -p tcp --dport 4000:5000 -A ACCEPT
- B. iptables -t filter -A INPUT -p tcp --dport 4000:5000 -j ACCEPT
- C. iptables filter -A INPUT -p tcp --dport 4000:5000 -D ACCEPT
- D. iptables filter -S INPUT -p tcp --dport 4000:5000 -A ACCEPT

Answer: B

NEW QUESTION 24

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 28

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 --ip4 192.168.10.50 -z DROP
- D. iptables -j INPUT 192.168.10.50 -p DROP

Answer: B

NEW QUESTION 30

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 33

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 34

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 40

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

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 45

A Linux systems administrator is setting up a new web server and getting 404 - NOT FOUND errors while trying to access the web server pages from the browser. While working on the diagnosis of this issue, the Linux systems administrator executes the following commands:

```
# getenforce
Enforcing

# matchpathcon -V /var/www/html/*
/var/www/html/index.html has context unconfined_u:object_r:user_home_t:s0, should be system_u:object_r:httpd_sys_content_t:s0
/var/www/html/page1.html has context unconfined_u:object_r:user_home_t:s0, should be system_u:object_r:httpd_sys_content_t:s0
```

Which of the following commands will BEST resolve this issue?

- A. sed -i 's/SELINUX=enforcing/SELINUX=disabled/' /etc/selinux/config
- B. restorecon -R -v /var/www/html
- C. setenforce 0
- D. setsebool -P httpd_can_network_connect_db on

Answer: B

NEW QUESTION 49

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 54

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 59

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 63

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 67

A user is asking the systems administrator for assistance with writing a script to verify whether a file exists. Given the following:

```
#!/bin/bash
filename=$1
<CONDITIONAL>
echo "File exists"
else
echo "File does not exist"
fi
```

Which of the following commands should replace the <CONDITIONAL> string?

- A. if [-f "\$filename"]; then
- B. if [-d "\$filename"]; then
- C. if [-f "\$filename"] then
- D. if [-f "\$filename"]; while

Answer: A

NEW QUESTION 69

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 74

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 75

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 80

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 81

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 84

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 89

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      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 94

A Linux administrator needs to correct the permissions of a log file on the server. Which of the following commands should be used to set filename.log permissions to -rwxr--r--. ?

- A. chmod 755 filename.log
- B. chmod 640 filename.log
- C. chmod 740 filename.log
- D. chmod 744 filename.log

Answer: D

NEW QUESTION 97

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 99

A user generated a pair of private-public keys on a workstation. Which of the following commands will allow the user to upload the public key to a remote server and enable passwordless login?

- A. `scp ~/.ssh/id_rsa user@server:~/`
- B. `rsync ~ /.ssh/ user@server:~/`
- C. `ssh-add user server`
- D. `ssh-copy-id user@server`

Answer: D

NEW QUESTION 102

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 105

A Linux administrator is troubleshooting SSH connection issues from one of the workstations.

When users attempt to log in from the workstation to a server with the IP address 104.21.75.76, they receive the following message:

```
ssh: connect to host 104.21.75.76 port 22: Connection refused
```

The administrator reviews the information below:

Workstation output 1:

```
eth0: <BROADCAST,MULTICAST, UP, LOWER_UP> mtu 1500 qdisc mq state UP group default  
link/ether 00:15:5d:e9:e9:fb brd 5.189.153.255 scope global eth0  
inet 5.189.153.89/24 brd 5.189.153.255 scope global eth0
```

Workstation output 2:

```
default via 5.189.153.1 dev eth0  
5.189.153.0/24 dev eth0 proto kernel scope link src 5.189.153.89
```

Server output 1:

```
target    prot    opt    source        destination
REJECT    tcp    --    101.68.78.194  0.0.0.0/0    tcp dpt:22 ctstate NEW, UNTRACKED
           reject-with icmp-port-unreachable
REJECT    tcp    --    222.186.180.130  0.0.0.0/0    tcp dpt:22 ctstate NEW, UNTRACKED
           reject-with icmp-port-unreachable
REJECT    tcp    --    104.131.1.39    0.0.0.0/0    tcp dpt:22 ctstate NEW, UNTRACKED
           reject-with icmp-port-unreachable
REJECT    tcp    --    68.183.196.11  0.0.0.0/0    tcp dpt:22 ctstate NEW, UNTRACKED
           reject-with icmp-port-unreachable
REJECT    tcp    --    5.189.153.89   0.0.0.0/0    tcp dpt:22 ctstate NEW, UNTRACKED
           reject-with icmp-port-unreachable
REJECT    tcp    --    41.93.32.148   0.0.0.0/0    tcp dpt:22 ctstate NEW, UNTRACKED
           reject-with icmp-port-unreachable
```

Server output 2:

```
sshd.service - OpenSSH server daemon
Loaded: loaded (/usr/lib/systemd/system/sshd.service; disabled; vendor preset: enabled)
Active: active (running) since Thu 2021-08-26 18:50:19 CEST; 2 weeks 5 days ago
```

Server output 3:

```
eth0: <BROADCAST, MULTICAST, UP, LOWER_UP> mtu 1500 qdisc mg state UP group default
link/ether 52:52:00:2a:bb:98 brd 104.21.75.255 scope global eth0
inet 104.21.75.76/24 brd 104.21.75.255 scope global eth0
```

Server output 4:

```
default via 104.21.75.254 dev eth0
104.21.75.0/24 dev eth0 proto kernel scope link src 104.21.75.76
```

Which of the following is causing the connectivity issue?

- A. The workstation has the wrong IP settings.
- B. The sshd service is disabled.
- C. The server's firewall is preventing connections from being made.
- D. The server has an incorrect default gateway configuration.

Answer: B

NEW QUESTION 109

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 111

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. \$TENV
- C. \$SHELL
- D. \$DISPLAY

Answer: D

NEW QUESTION 114

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 119

A Linux administrator wants to set the SUID of a file named dev_team.txt with 744 access rights. Which of the following commands will achieve this goal?

- A. chmod 4744 dev_team.txt
- B. chmod 744 --setuid dev_team.txt
- C. chmod -c 744 dev_team.txt
- D. chmod -v 4744 --suid dev_team.txt

Answer: A

NEW QUESTION 122

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$3uOw6qWx9876jGhgKJsdH987634534voj.: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 127

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

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

Answer: A

NEW QUESTION 131

As a Systems Administrator, to reduce disk space, you were tasked to create a shell script that does the following: Add relevant content to /tmp/script.sh, so that it finds and compresses rotated files in /var/log without recursion.

INSTRUCTIONS

Fill the blanks to build a script that performs the actual compression of rotated log files.

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

Snippets

tar	until	zip
egrep	awk	\$log
"\$@"	pgrep	repeat
/tmp/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
"\$@"	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 133

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 135

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 137

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 140

A Linux administrator found many containers in an exited state. Which of the following commands will allow the administrator to clean up the containers in an exited state?

- A. docker rm --all
- B. docker rm \$(docker ps -aq)
- C. docker images prune *
- D. docker rm --state exited

Answer: D

NEW QUESTION 142

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 144

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 148

A Linux administrator needs to analyze a failing application that is running inside a container. Which of the following commands allows the Linux administrator to enter the running container and analyze the logs that are stored inside?

- A. docker run -ti app /bin/sh
- B. podman exec -ti app /bin/sh
- C. podman run -d app /bin/bash
- D. docker exec -d app /bin/bash

Answer: B

NEW QUESTION 150

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 155

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 156

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 157

A systems administrator installed a new software program on a Linux server. When the systems administrator tries to run the program, the following message appears on the screen.

```
Hardware virtualization support is not available on this system.
Either is not present or disabled in the system's BIOS
```

Which of the following commands will allow the systems administrator to check whether the system supports virtualization?

- A. dmidecode -s system-version
- B. lscpu
- C. sysctl -a
- D. cat /sys/device/system/cpu/possible

Answer: B

NEW QUESTION 159

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 161

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 166

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 171

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 172

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 177

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 181

The security team has identified a web service that is running with elevated privileges A Linux administrator is working to change the systemd service file to meet security compliance standards. Given the following output:

```
[Unit]
Description=CompTIA server daemon
Documentation=man:webserver(8) man:webserver_config(5)
After=network.target

[Service]
Type=notify
EnvironmentFile=/etc/webserver/config
ExecStart=/usr/sbin/webserver -D $OPTIONS
ExecReload=/bin/kill -HUP $MAINPID
KillMode=process
Restart=on-failure
RestartSec=42s

[Install]
WantedBy=multi-user.target
```

Which of the following remediation steps will prevent the web service from running as a privileged user?

- A. Removing the ExecStarWusr/sbin/webserver -D \$OPTIONS from the service file
- B. Updating the Environment File line in the [Service] section to/home/websevice/config
- C. Adding the User=websevice to the [Service] section of the service file
- D. Changing the:multi-user.target in the [Install] section to basic.target

Answer: A

NEW QUESTION 184

A junior administrator is setting up a new Linux server that is intended to be used as a router at a remote site. Which of the following parameters will accomplish this goal?

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

```
echo 1 > /proc/sys/net/ipv4/ip_forward  
iptables -t nat -A PREROUTING -i eth0 -j MASQUERADE
```

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

```
echo 1 > /proc/sys/net/ipv4/ip_forward  
iptables -t nat -D POSTROUTING -o eth0 -j MASQUERADE
```

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

```
echo 1 > /proc/sys/net/ipv4/ip_forward  
iptables -t nat -A POSTROUTING -o eth0 -j MASQUERADE
```

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

```
echo 1 > /proc/sys/net/ipv4/ip_forward  
iptables -t nat -A PREROUTING -o eth0 -j MASQUERADE
```

Answer: A

NEW QUESTION 186

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 187

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