Exam Questions XK0-005

CompTIA Linux+ Certification Exam

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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
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. umas
C. 002
D. chactr -Rv
E. chown -cf

Answer: B

NEW QUESTION 4
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 -1 /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 5
A Linux administrator is tasked with adding users to the system. However, the administrator wants to ensure the users' access will be disabled once the project is over. The expiration date should be 2021-09-30. Which of the following commands will accomplish this task?

A. sudo useradd -e 2021-09-30 Project_user
B. sudo useradd -c 2021-09-30 Project_user
C. sudo modinfo -F 2021-09-30 Project_uses
D. sudo useradd -m -d 2021-09-30 Project_user

Answer: A

NEW QUESTION 6
A 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 7
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 8
Which of the following technologies can be used as a central repository of Linux users and groups?

A. LDAP
B. MFA
C. SSO
D. PAM

Answer: A

NEW QUESTION 9
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 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
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 11
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 14
A systems administrator is troubleshooting a connectivity issue pertaining to access to a system named db.example.com. The system IP address should be 192.168.20.88. The administrator issues the dig command and receives the following output:

```
;; ANSWER SECTION:
db.example.com.     15 IN A 192.168.20.89
```

The administrator runs grep db.example.com /etc/hosts and receives the following output:

```
192.168.20.89 db.example.com
```

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

A. Modify the /etc/hosts file and change the db.example.com entry to 192.168.20.89.
B. Modify the /etc/network file and change the db.example.com entry to 192.168.20.88.
C. Modify the /etc/network file and change the db.example.com entry to 192.168.20.89.
D. Modify the /etc/hosts file and change the db.example.com entry to 192.168.20.88.

Answer: A

NEW QUESTION 18
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 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 25
A Linux administrator is tasked with creating resources using containerization. When deciding how to create this type of deployment, the administrator identifies some key features, including portability, high availability, and scalability in production. Which of the following should the Linux administrator choose for the new design?

A. Docker
B. On-premises systems
C. Cloud-based systems
D. Kubernetes

Answer: D

NEW QUESTION 29
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 31
A systems administrator needs to check if the service systemd-resolved.service is running without any errors. Which of the following commands will show this information?

A. systemctl status systemd-resolved.service
B. systemctl enable systemd-resolved.service
C. systemctl mask systemd-resolved.service
D. systemctl show systemd-resolved.service

Answer: A

NEW QUESTION 32
A cloud engineer needs to block the IP address 192.168.10.50 from accessing a Linux server. Which of the following commands will achieve this goal?

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

Answer: B

NEW QUESTION 33
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 38
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 40
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 viewsystem 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. /ete/grub.conf

Answer: C

NEW QUESTION 42
A systems administrator needs to clone the partition /dev/sdc1 to /dev/sdd1. Which of the following commands will accomplish this task?

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

Answer: C

NEW QUESTION 43
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 46
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 49
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 53
A DevOps engineer needs to download a Git repository from https://git.company.com/admin/project.git. Which of the following commands will achieve this goal?

A. git clone https://git.company.com/admin/project.git
B. git checkout https://git.company.com/admin/project.git
C. git pull https://git.company.com/admin/project.git
D. git branch https://git.company.com/admin/project.git

Answer: A

Explanation:
git clone is the best option if its a new project. git pull would work best if it was an ongoing project that had multiple team members that had pushed their updates to the main repository

NEW QUESTION 57
A user is asking the systems administrator for assistance with writing a script to verify whether a file exists. Given the following:

```
#1/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 60
A Linux administrator needs to resolve a service that has failed to start. The administrator runs the following command:

```
ls -1 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 63
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 68
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 69
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 70
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 74
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 78
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=l" >> /etc/sysctl.conf

Answer: BC

NEW QUESTION 83
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 88
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-vm: 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 91
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 93
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 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/f stab 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 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 102
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 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.shchmod u+x script.sh

Answer: C

NEW QUESTION 106
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 109
A Linux administrator is installing a web server and needs to check whether web traffic has already been allowed through the firewall. Which of the following commands should the administrator use to accomplish this task?

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

Answer: C

NEW QUESTION 112
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 114
A Linux administrator wants to set the SUID of a file named dev_team.text 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 116
Joe, a user, is unable to log in to the Linux system Given the following output:

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

Which of the following command would resolve the issue?

A. usermod -s /bin/bash joe
B. pam_tally2 -u joe -r
C. passwd -u joe
D. chage -E 90 joe

Answer: A

NEW QUESTION 118
After installing some RPM packages, a systems administrator discovers the last package that was installed was not needed. Which of the following commands can be used to remove the package?

A. dnf remove packagename
B. apt-get remove packagename
C. rpm -i packagename
D. apt remove packagename

Answer: A

NEW QUESTION 123
In which of the following filesystems are system logs commonly stored?

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

Answer: A

NEW QUESTION 126

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 -1 | egrep '(^http_port_t|6379)'
http_port_t tcp 80, 81, 443, 488, 8008, 8009, 8443, 9000


# curl http://1ocalhost/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 130
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 133
A developer has been unable to remove a particular data folder that a team no longer uses. The developer escalated the issue to the systems administrator. The following output was received:

```
# rmdir data/
rmdir: failed to remove 'data/': Operation not permitted
# rm -rf data/
rm: cannot remove 'data': Operation not permitted
# mv data/ mydata
mv: cannot move 'data/' to 'mydata': Operation not permitted
# cd data/
# cat > test.txt
bash: test.txt: Permission denied
```

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

A. chgrp -R 755 data/
B. chmod -R 777 data/
C. chattr -R -i data/
D. chown -R data/

Answer: C

NEW QUESTION 135
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 137
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 138
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 140
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 142
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 146
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_nologi
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 148
Several users reported that they were unable to write data to the /oracle1 directory. The following output has been provided:

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

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

A. df -i /oracle1
B. fdisk -1 /dev/sdb1
C. lsblk /dev/sdb1
D. du -sh /oracle1

Answer: A

NEW QUESTION 149
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 150
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 153
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 SOPTIONS from the service file
B. Updating the Environment File line in the [Service] section to/home/webservice/config
C. Adding the User-webservice to the [Service] section of the service file
D. Changing the:nulti-user.target in the [Install] section to basic.target

Answer: A

NEW QUESTION 154
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 159
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 164
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