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QUESTION 1

A Linux user wants to give read-only permissions to a directory and its contents. Which of the following commands will allow the user to accomplish this task?

- A. `chmod -R 400 /new_directory/`
- B. `chmod -R 600 /new_directory/`
- C. `chmod 400 /new_directory/`
- D. `chmod 600 /new_directory/`

Correct Answer: D

Reference: <https://www.linode.com/docs/guides/modify-file-permissions-with-chmod/>

QUESTION 2

A configuration management tool running every minute is enforcing the service HTTPd to be started. To perform maintenance, which of the following series of commands can be used to prevent the service from being started?

- A. `systemctl stop httpd` and `systemctl mask httpd`
- B. `systemctl disable httpd` and `systemctl mask httpd`
- C. `systemctl stop httpd` and `systemctl hide httpd`
- D. `systemctl disable httpd` and `systemctl hide httpd`

Correct Answer: A

QUESTION 3

An administrator finds a text file that is using too much disk space. The administrator runs `ls -l | grep bigfile.txt` and gets the following return:

```
app.py 1339  comptia 4u  REG  8,5  12288  4059075/home/comptia/bigfile.txt
```

Which of the following should the administrator do NEXT to prepare to delete the file and free up disk space?

- A. `pkill app.py`
- B. `logout --force comptia`
- C. `kill -9 7339`
- D. `kill -HUP 12288`

Correct Answer: C

Reference: <https://linuxhint.com/linux-kill-command/#:~:text=The%20kill%20is%20a%20very,using%20the%20default%20TERM%20signal>

QUESTION 4

A Linux administrator is updating iptables rules and is given the following tasks:

1.

Output a list of iptables rules.

2.

Remove all iptables rules.

Which of the following actions should be performed from the terminal console to accomplish these tasks? (Choose two.)

A. iptables -F

B. iptables -L

C. iptables -I

D. iptables -C

E. iptables -A

F. iptables -N

Correct Answer: AB

Reference: <https://www.digitalocean.com/community/tutorials/how-to-list-and-delete-iptables-firewall-rules>

QUESTION 5

A systems administrator downloads an application's source files, compiles the application, and installs it per the application's installation instructions. When trying to run the application, the system states:

```
$ occmd
```

```
bash: occmd: command not found...
```

Running the locate command shows it does exist in the following location:

```
/opt/occmd/bin/occmd
```

Which of the following should the administrator do to allow the command to run properly? (Choose two.)

A. sudo ln -s /opt/occmd/bin/occmd /usr/local/bin/occmd

B. echo "export PATH=\$PATH:/opt/occmd/bin" >> ~/.bashrc

- C. `mv /opt/occmd ~/ andand ln -s ~/occmd/bin/occmd ./occmd`
- D. `echo "#!/bin/bash \n ${which occmd}" > /usr/bin/occmd.sh`
- E. `sudo mv /opt/occmd/bin/occmd /etc/bin/`
- F. `cd /opt/occmd/bin andand chmod +x ./occmd andand restorecon -rv *`

Correct Answer: EF

QUESTION 6

An administrator needs to change the IP address on a server remotely. After updating the configuration files, a network restart is needed. However, the administrator fears that when the network connection drops, the network restart script will be killed before the new IP address has been set.

Which of the following commands would prevent the script from being killed?

- A. `nohup service network restart`
- B. `service network restart and`
- C. `echo "service network restart" | at now`
- D. `bg service network restart`

Correct Answer: A

QUESTION 7

After connecting a USB drive, the system is unable to detect it. There is no entry in `/dev`, and there is no information in the message log. Which of the following is the issue?

- A. The USB drive is formatted as a DVD
- B. The USB drive is not formatted
- C. The kernel module is not installed
- D. The permissions of `/dev/usb` are incorrect

Correct Answer: B

Reference: <https://www.makeuseof.com/tag/fix-usb-device-port-linux/>

QUESTION 8

An administrator is trying to access a server in a cloud via SSH but is unable to log in. The administrator determines the company's IP address has been blocklisted on the server. Which of the following should the administrator do to prevent being blocked in the future?

- A. Add the company's TLS certificate to the authorized_keys and known_hosts files.
- B. Modify the cloud provider security rules to allow all connectors from the company's IP address.
- C. Add the company's IP address from the /etc/hosts.allow.
- D. Turn on SELinux and enable the SSH context.

Correct Answer: C

QUESTION 9

A systems administrator has retrieved the latest copy of the system backup files, which had been stored offsite at a third-party vendor. The systems administrator wants to validate that the data was not modified since the backup. Which of the following would BEST verify that the data remained the same?

- A. Perform a MD5 hash on the data.
- B. Perform a SCP from the backup.
- C. Perform rsync.
- D. Restore from the last full backup.

Correct Answer: A

QUESTION 10

A Linux administrator wants to configure log messages of critical or higher severity levels from the cron utility to be logged to the console. Which of the following will accomplish this objective?

- A. Edit the /etc/logrotate.d/cron file to include the line cron.emerg.* /dev/console
- B. Edit the /etc/rsyslog.conf file to include the line cron.emerg.* /dev/console
- C. Edit the /etc/logrotate.conf file to include the line cron.emerg.* /dev/console
- D. Edit the /etc/rsyslog.d/conf file to include the line cron.emerg.* /dev/console

Correct Answer: B

QUESTION 11

A systems administrator observes high latency values when reaching a remote web server. Which of the following commands will help determine and isolate issues on the network side?

- A. mtr

- B. dig
- C. netstat
- D. route

Correct Answer: A

Reference: <https://www.keycdn.com/support/what-is-latency>

QUESTION 12

A company's httpd server has stopped working and restarting the service does not fix the issue. A junior systems administrator is investigating log files for clues. Which of the following commands should the administrator execute?

- A. journalctl -u httpd
- B. journalctl -l httpd
- C. systemctl -s httpd
- D. systemctl -l httpd

Correct Answer: C

Reference: <https://stackoverflow.com/questions/50859732/sudo-systemctl-restart-httpd-service-not-working>

QUESTION 13

An administrator is troubleshooting an application that has failed to start after the server was rebooted. Noticing the data volume is not mounted, the administrator attempts to mount it and receives this error:

```
[root@localhost comptia]# mount /dev/datavg/datalv /data
mount: special device /dev/datavg/datalv does not exist
```

Upon checking the logical volume status, the administrator receives this information:

```
[root@localhost comptia]# lvs
LV VG Attr LSize Pool Origin Data% Meta% Move Log Cpy%Sync Convert
root centos -wi-ao---- <6.20g
swap centos -wi-ao---- 820.00m
datalv datavg -wi----- 500.00m
[root@localhost comptia]#
```

Which of the following can be said about the data logical volume, and how can this problem be resolved?

- A. The logical volume is not active. The administrator should make it active with `lvchange -ay /dev/ datavg/datalv` and then mount it.

B. The logical volume file system has become corrupted. The administrator should repair it with `xfs_repair /dev/datavg/datalv` and then mount it.

C. The logical volume is OK but the `/dev` special files are missing. The administrator should recreate them by running `/dev/MAKEDEV`.

D. The file system is read-only. The administrator should remount it as read-write with the command `mount -o remount,rw /data`.

Correct Answer: A

QUESTION 14

A systems administrator logs into a Linux server and must identify whether the server is a physical or virtual machine. Which of the following commands should the administrator run?

A. `vmstat`

B. `cat /proc/cpuinfo`

C. `dmidecode`

D. `modinfo`

Correct Answer: C

QUESTION 15

A user has connected a Bluetooth mouse to a computer, but it is not working properly. Which of the following commands should the systems administrator use to fix the issue?

A. `lsmod -i bluetooth`

B. `insmod bluetooth`

C. `modprobe -r bluetooth`

D. `depmod -i bluetooth`

Correct Answer: C

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