CompTIA

Exam Questions XK0-005

CompTIA Linux+ Certification Exam

NEW QUESTION 1
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 2
A Linux administrator needs to connect securely to a remote server in order to install application software. Which of the following commands would allow this connection?

A. scp "ABC-key.pem" root@10.0.0.1
B. sftp rooteiO.0.0.1
C. telnet 10.0.0.1 80
D. ssh -i "ABC-key.pem" root@10.0.0.1
E. sftp "ABC-key.pem" root@10.0.0.1

Answer: D

NEW QUESTION 3
One leg of an LVM-mirrored volume failed due to the underlying physical volume, and a systems administrator is troubleshooting the issue. The following output has been provided:

```
Partial mode. Incomplete volume groups will be activated read-only
```

LV	VG	Attr	LSize	Origin	Snap%	Move	Log	Copy%	Devices
linear	vg	-wi-a-	40.00G						unknown device(0)
stripe	vg	-wi-a-	40.00G						unknown device(5120),/dev/sda1(0)

Given this scenario, which of the following should the administrator do to recover this volume?

A. Reboot the serve
B. The volume will automatically go back to linear mode.
C. Replace the failed drive and reconfigure the mirror.
D. Reboot the serve
E. The volume will revert to stripe mode.
F. Recreate the logical volume.

Answer: B

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 pressed Ctrl+Z after starting a program using the command line, and the shell prompt was presented. In order to go back to the program, which of the following commands can the administrator use?

A. fg
B. su
C. bg
D. ed

Answer: A

Explanation:
Ctrl+Z suspended the process, and "fg" will bring it back into the foreground of the shell

NEW QUESTION 6
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 7
A systems administrator created a web server for the company and is required to add a tag for the API so end users can connect. Which of the following would the administrator do to complete this requirement?

A. hostnamectl status --no-ask-password
B. hostnamectl set-hostname "$(perl -le "print" "A" x 86)"
C. hostnamectl set-hostname Comptia-WebNode -H root@192.168.2.14
D. hostnamectl set-hostname Comptia-WebNode --transient

Answer: C

NEW QUESTION 8
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 | xrags grep -ln denied
B. find . -type f -print | xrags grep -nv denied
C. find . -type f -print | xrags grep -wL denied
D. find . -type f -print | xrags grep -li denied

Answer: A

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
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
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 13
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 16
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 19
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 20
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 21
A systems administrator is compiling a report containing information about processes that are listening on the network ports of a Linux server. Which of the

following commands will allow the administrator to obtain the needed information?

A. ss -pint
B. tcpdump -nL
C. netstat -pn
D. lsof -It

Answer: C

NEW QUESTION 23
A Linux system fails to start and delivers the following error message:

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

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

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

Answer: A

NEW QUESTION 26
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 29
An administrator needs to make some changes in the IaC declaration templates. Which of the following commands would maintain version control?

A. git clone https://github.com/comptia/linux+-.git git push origin
B. git clone https://qithub.com/comptia/linux+-.git git fetch New-Branch
C. git clone https://github.com/comptia/linux+-.git git status
D. git clone https://github.com/comptia/linuxt+-.gitgit checkout -b <new-branch>

Answer: D

NEW QUESTION 32
A systems administrator is tasked with installing GRUB on the legacy MBR of the SATA hard drive. Which of the following commands will help the administrator accomplish this task?

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

Answer: B

NEW QUESTION 37
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 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 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 41
A Linux systems administrator receives a notification that one of the server's filesystems is full. Which of the following commands would help the administrator to identify this filesystem?

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

Answer: C

NEW QUESTION 43
A Linux administrator needs to redirect all HTTP traffic temporarily to the new proxy server 192.0.2.25 on port 3128. Which of the following commands will accomplish this task?

A. iptables -t nat -D PREROUTING -p tcp --sport 80 -j DNAT - -to-destination 192.0.2.25:3128
B. iptables -t nat -A PREROUTING -p top --dport 81 -j DNAT –-to-destination 192.0.2.25:3129
C. iptables -t nat -I PREROUTING -p top --sport 80 -j DNAT –-to-destination 192.0.2.25:3129
D. iptables -t nat -A PREROUTING -p tcp --dport 80 -j DNAT –-to-destination 192.0.2.25:3128

Answer: D

NEW QUESTION 44
A 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 45
When trying to log in remotely to a server, a user receives the following message:

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

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

Output 1:

```
user:x:1001:1374:::/home/user:/bin/false
```

Output 2:

```
drwx------. 2 user 62 Sep 15 17:17 /home/user
```

Output 3:

```
Sep 12 14:14:05 server sshd[22958] Failed password for user from 10.0.2.8
Sep 15 17:24:03 server sshd[9460]: Accepted keyboard-interactive/pam for user from 10.0.6.5 port 50928 ssh2
Sep 15 17:24:03 server sshd[9460]: pam_unix(sshd:session): session opened for user testuser
Sep 15 17:24:03 server sshd[9460]: pam_unix(sshd:session): session closed for user testuser
```

Which of the following is causing the issue?

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

Answer: D

NEW QUESTION 47
A Linux system is failing to start due to issues with several critical system processes. Which of the following options can be used to boot the system into the single user mode? (Choose two.)

A. Execute the following command from the GRUB rescue shell: mount -o remount, ro/sysroot.
B. Interrupt the boot process in the GRUB menu and add systemd.unit=single in the kernel line.
C. Interrupt the boot process in the GRUB menu and add systemd.unit=rescue.target in the kernel line.
D. Interrupt the boot process in the GRUB menu and add single=user in the kernel line.
E. Interrupt the boot process in the GRUB menu and add init=/bin/bash in the kernel line.
F. Interrupt the boot process in the GRUB menu and add systemd.unit=single.target in the kernel line.

Answer: CE

NEW QUESTION 50
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 55
A systems administrator received a notification that a system is performing slowly. When running the top command, the systems administrator can see the following values:

```
%Cpu(s): 2.7 us, 1.9 sy, 0.0 ni, 0.4 id, 95 wa, 0.0 hi, 0.0 si 0.0 st
```

Which of the following commands will the administrator most likely run NEXT?

A. vmstat
B. strace
C. htop
D. lsof

Answer: A

NEW QUESTION 60
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 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 68
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 app1

$ ps -ef | grep user1
user1 6295 1 7:42:19 tty/1   06:48:29 /usr/local/bin/app1
```

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 72
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 76
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 79
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 82
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 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 90
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 kertnel 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 mq 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 kertnel 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 95
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 96
A systems administrator configured firewall rules using firewalld. However, after the system is rebooted, the firewall rules are not present:

```
Chain INPUT (policy ACCEPT)                    destination
target          prot opt source
Chain FORWARD (policy ACCEPT)                  destination
target          prot opt source
Chain OUTPUT (policy ACCEPT)                   destination
target          prot opt source
```

The systems administrator makes additional checks:

```
- dynamic firewall daemon
  Loaded: loaded (/usr/lib/systemd/system/firewalld.service: disabled; vendor preset: enabled)
  Active: inactive (dead)
  Docs: man: firewalld (1)

firewalld is not running
```

Which of the following is the reason the firewall rules are not active?

A. iptables is conflicting with firewalld.
B. The wrong system target is activated.
C. FIREWALL_ARGS has no value assigned.
D. The firewalld service is not enabled.

Answer: D

NEW QUESTION 99

A systems administrator made some unapproved changes prior to leaving the company. The newly hired administrator has been tasked with revealing the system to a compliant state. Which of the following commands will list and remove the correspondent packages?

A. dnf list and dnf remove last
B. dnf remove and dnf check
C. dnf info and dnf upgrade
D. dnf history and dnf history undo last

Answer: D

NEW QUESTION 103

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 107

A Linux administrator needs to create a new user named user02. However, user02 must be in a different home directory, which is under /comptia/projects. Which of the following commands will accomplish this task?

A. useradd -d /comptia/projects user02
B. useradd -m /comptia/projects user02
C. useradd -b /comptia/projects user02
D. useradd -s /comptia/projects user02

Answer: A

NEW QUESTION 108

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

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

Answer: A

NEW QUESTION 109

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.

```
# lsattz /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 112

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 113

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 117

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 119

A Linux engineer needs to download a ZIP file and wants to set the nice of value to -10 for this new process. Which of the following commands will help to accomplish the task?

A. $ nice -v -10 wget https://foo.com/installation.zip
B. $ renice -v -10 wget https://foo.com/installation.2ip
C. $ renice -10 wget https://foo.com/installation.zip
D. $ nice -10 wget https://foo.com/installation.zip

Answer: D

NEW QUESTION 123
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 124
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 127
A systems administrator is deploying three identical, cloud-based servers. The administrator is using the following code to complete the task:

```
resource "abc_instance" "ec2_instance" {

    ami                         = data.abc_ami.vendor-Linux-2.id
    associate_public_ip_address = true
    count                       = 3
    instance_type               = "instance_type"
    vpc_security_group_ids      = [abc.security_group.allow_ssh.
                                  id]
    key_name                    = abc_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 130
Employees in the finance department are having trouble accessing the file /opt/work/file. All IT employees can read and write the file. Systems administrator reviews the following output:

```
admin@server:/opt/work$ ls -al file
-rw-rw----+ 1 root it 4 Sep 5 17:29 file
```

Which of the following commands would permanently fix the access issue while limiting access to IT and finance department employees?

A. chattr +i file
B. chown it:finance file
C. chmod 666 file
D. setfacl -m g:finance:rw file

Answer: D

NEW QUESTION 135
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 139
A server is experiencing intermittent connection issues. Some connections to the Internet work as intended, but some fail as if there is no connectivity. The systems administrator inspects the server configuration:

```
Routing table:

default via 89.107.157.129 dev ens3 proto static metric 100
default via 10.0.5.1 dev ens11 proto dhcp metric 101
10.0.0.0/16 dev sn11 proto kernel scope link src 10.0.6.225 metric 101
89.107.157.128/26 via 89.107.157.129 dev ens3 proto static metric 100
89.107.157.129 dev ens3 proto static scope link metric 100
89.107.157.160/29 dev ens3 proto kernel scope link src 89.107.157.161 metric 100

IP configuration:

ens3:
   inet 89.107.157.161/29 brd 89.107.157.167 scope global neprefixroute ens3
ens11:
   inet 10.0.6.225/16 brd 10.0.255.255 scope global noprefixroute dynamic ens11

ARP table:

Address          Hwtype    Hwaddress            Flags   Mask   Iface

10.0.5.1         ether     64:d1:54:c4:75:cb    C              ens11

89.107.157.129   ether     5c:5e:ab:01:85:cf    C              ens3

89.107.157.162   ether     52:54:00:e1:44:0a    C              ens3

10.0.255.1       ether     00:50:7f:e3:aa:1c    C              ens11

/etc/resolv.conf:
Generated by NetworkHanager
search company.com
nameserver 10.0.5.1
```

Which of the following is MOST likely the cause of the issue?

A. An internal-only DNS server is configured.
B. The IP netmask is wrong for ens3.
C. Two default routes are configured.
D. The ARP table contains incorrect entries.

Answer: C

NEW QUESTION 144
Which of the following enables administrators to configure and enforce MFA on a Linux system?

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

Answer: A

NEW QUESTION 149
Which of the following technologies provides load balancing, encryption, and observability in containerized environments?

A. Virtual private network
B. Sidecar pod
C. Overlay network
D. Service mesh

Answer: D

Explanation:
"A service mesh controls the delivery of service requests in an application. Common features provided by a service mesh include service discovery, load balancing, encryption and failure recovery."
https://www.techtarget.com/searchitoperations/definition/service-mesh

NEW QUESTION 154
A Linux administrator is troubleshooting a memory-related issue. Based on the output of the commands:

```
$ vmstat -s --unit M

968 M total memory
331 M used memory
482 M active memory
279 M inactive memory
 99 M free memory


$ free -h
          total     used     free     shared    buff/cache   available
Mem:      968M      331M     95M      13M       540M         458M
Swap:     0         0        0


$ ps -aux | grep script.sh
USER   PID    %CPU   %MEM  VSZ       RSS      TTY  STAT  START   TIME  COMMAND
user   8321   2.8    40.5  3224846   371687   7    SN    16:49   2:09  /home/user/script.sh
```

Which of the following commands would address the issue?

A. top -p 8321
B. kill -9 8321
C. renice -10 8321
D. free 8321

Answer: C

NEW QUESTION 155
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 159
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 164
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 166
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