CompTIA

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 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 3
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 4
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 5

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 6

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 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

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 9

Some servers in an organization have been compromised. Users are unable to access to the organization's web page and other services. While reviewing the system log, a systems administrator notices messages from the kernel regarding firewall rules:

```
Oct 20 03:45:50 hostnane kernel: iptables denied: IN=eth0 OUT=
MAC=xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx SRC=x.x.x.x DST=x.x.x.x LEN=1059 TOS=0x00
PREC=0x00 TTL=115 ID=31368 DF PROTO=TCP
SPT=17992 DPT=80 WINDOW=16477 RES=0x00 ACK PSH URGP=0
Oct 20 03:46:02 hostname kernel: iptables denied: IN=eth0 OUT=
MAC=xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx SRC=x.x.x.x DST=x.x.x.x LEN=52 TOS=0x00
PREC=0x00 TTL=52 ID=763 DF PROTO=TCP SPT=20229 DPT=22 WINDOW=15598 RES=0x00 ACK URGP=0
Oct 20 03:46:14 hostname kernel: iptables denied: IN=eth0 OUT=
MAC=xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx SRC=x.x.x.x DST=x.x.x.x LEN=324 TOS=0x00
PREC=0x00 TTL=49 ID=64245 PROTO=TCP SPT=47237 DPT=80 WINDOW=470 RES=0x00 ACK PSH URGP=0
Oct 20 03:46:26 hostname kernel: iptables denied: IN=eth0 OUT=
MAC=xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx SRC=x.x.x.x DST=x.x.x.x LEN=52 TOS=0x00
PREC=0x00 TTL=45 ID=2010 PROTO=TCP SPT=48322 DPT=80 WINDOW=380 RES=0x00 ACK URGP=0
```

Which of the following commands will remediate and help resolve the issue?

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

```
IPtables -A FORWARD -i eth0 -p tcp --dport 80 -j ACCEI
IPtables -A FORWARD -i eth0 -p tcp --dport 22 -j ACCEI
```

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

```
IPtables -A INPUT -i eth0 -p tcp --dport 80 -j ACCEP'
IPtables -A INPUT -i eth0 -p tcp --dport 22 -j ACCEP'
```

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

```
IPtables -A INPUT -i eth0 -p tcp --sport 80 -j ACCEP'
IPtables -A INPUT -i eth0 -p tcp --sport 22 -j ACCEP'
```

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

```
IPtables -A INPUT -i eth0 -p tcp --dport :80 -j ACCEI
IPtables -A INPUT -i eth0 -p tcp --dport :22 -j ACCEI
```

Answer: B

NEW QUESTION 10
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 10
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 13
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 17
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 21
A systems administrator needs to reconfigure a Linux server to allow persistent IPv4 packet forwarding. Which of the following commands is the correct way to accomplish this task?

A. echo 1 > /proc/sys/net/ipv4/ipv_forward
B. sysctl -w net.ipv4.ip_forward=1
C. firewall-cmd --enable ipv4_forwarding
D. systemctl start ipv4_forwarding

Answer: B

NEW QUESTION 26
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 31
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 33
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 38
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 42
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 43
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 44
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 48
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 52
An administrator installed an application from source into /opt/operations1/ and has received numerous reports that users are not able to access the application without having to use the full path /opt/operations1/bin/*. Which of the following commands should be used to resolve this issue?

A. echo 'export PATH=$PATH:/opt/operations1/bin' >> /etc/profile
B. echo 'export PATH=/opt/operations1/bin' >> /etc/profile
C. echo 'export PATH=$PATH/opt/operations1/bin' >> /etc/profile
D. echo 'export $PATH:/opt/operations1/bin' >> /etc/profile

Answer: A

Explanation:
It would be better to put the directory before $PATH, so that way the directory is searched before the rest of the pathing options in $PATH.

NEW QUESTION 56
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 57
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 58
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 62
A systems administrator frequently connects to a remote host via SSH and a non-standard port. The systems administrator would like to avoid passing the port parameter on the command line every time. Which of the following files can be used to set a different port value for that host?

A. /etc/ssh/sshd_config
B. /etc/ssh/moduli
C. ~/.ssh/config
D. ~/.ssh/authorized_keys

Answer: C

NEW QUESTION 67
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 69
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 73
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:1001:7374::/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 74
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 78
A Linux systems administrator needs to copy files and directories from Server A to Server B. Which of the following commands can be used for this purpose? (Select TWO)

A. rsyslog
B. cp
C. rsync
D. reposync
E. scp
F. ssh

Answer: CE

NEW QUESTION 79
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 80
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 85
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 88
A Linux administrator needs to remove software from the server. Which of the following RPM options should be used?

A. rpm -s
B. rm -d
C. rpm -q
D. rpm -e

Answer: D

NEW QUESTION 89
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 92
A Linux systems administrator is configuring a new filesystem that needs the capability to be mounted persistently across reboots. Which of the following commands will accomplish this task? (Choose two.)

A. df -h /data
B. mkfs.ext4 /dev/sdc1
C. fsck /dev/sdc1
D. fdisk -l /dev/sdc1
E. echo "/data /dev/sdc1 ext4 defaults 0 0" >> /etc/fstab
F. echo "/dev/sdc1 /data ext4 defaults 0 0" >> /etc/fstab

Answer: BF

Explanation:
"modify the /etc/fstab text file to automatically mount the new partition by opening it in an editor and adding the following line:
/dev/ xxx 1 /data ext4 defaults 1 2
where xxx is the device name of the storage device" https://learning.oreilly.com/library/view/mastering-linux-system/9781119794455/b01.xhtml

NEW QUESTION 93
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 96
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 101
A systems administrator wants to be sure the sudo rules just added to /etc/sudoers are valid. Which of the following commands can be used for this task?

A. visudo -c
B. test -f /etc/sudoers
C. sudo vi check
D. cat /etc/sudoers | tee test

Answer: A

NEW QUESTION 102
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 105
A cloud engineer needs to remove all dangling images and delete all the images that do not have an associated container. Which of the following commands will help to accomplish this task?

A. docker images prune -a
B. docker push images -a
C. docker rmi -a images
D. docker images rmi --all

Answer: A

NEW QUESTION 106
A systems administrator configured firewall rules using firewalld. However, after the system is rebooted, the firewall rules are not present:

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

Chain FORWARD (policy ACCEPT)
target          prot opt source                    destination

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

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 109
A cloud engineer needs to check the link status of a network interface named eth1 in a Linux server. Which of the following commands can help to achieve the goal?

A. ifconfig hw eth1
B. netstat -r eth1
C. ss -ti eth1
D. ip link show eth1

Answer: D

NEW QUESTION 111
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 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$3uOw6qWx9976jGhgKJsdfH987634534voj.: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 119

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

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

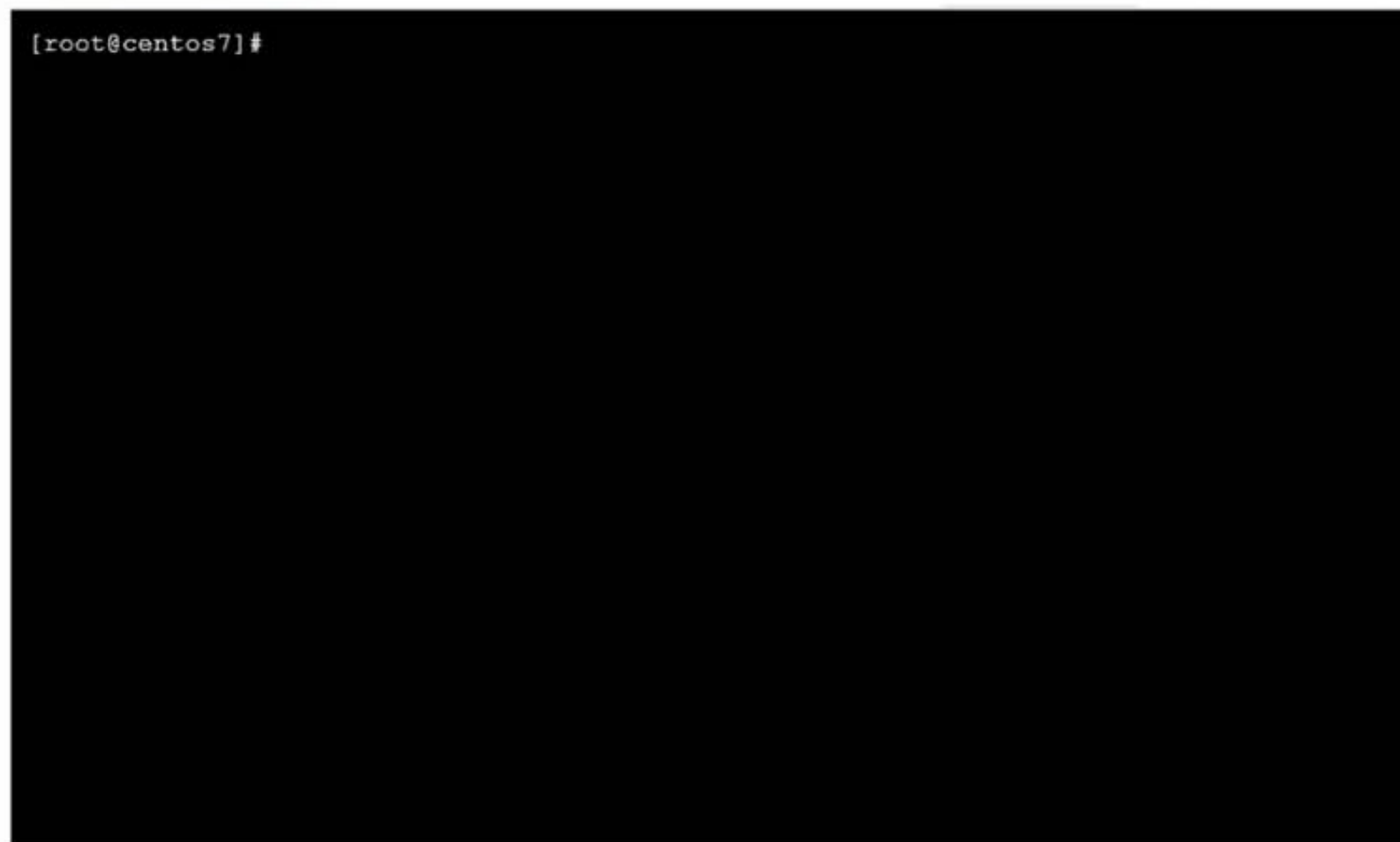**Answer:** A

NEW QUESTION 122

Junior system administrator had trouble installing and running an Apache web server on a Linux server. You have been tasked with installing the Apache web server on the Linux server and resolving the issue that prevented the junior administrator from running Apache.
INSTRUCTIONS
Install Apache and start the service. Verify that the Apache service is running with the defaults. Typing "help" in the terminal will show a list of relevant event commands.
If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

CentOS Command Prompt

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

A. Mastered
B. Not Mastered

Answer: A

Explanation:
yum install httpd
systemctl --now enable httpd systemctl status httpd
netstat -tunlp | grep 80 pkill <processname> systemctl restart httpd systemctl status httpd

NEW QUESTION 127

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 128

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 131
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 134
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 135
Users report that connections to a MariaDB service are being closed unexpectedly. A systems administrator troubleshoots the issue and finds the following message in /var/log/messages:

```
dbserver kernel: out of Memory: Killed process 1234 (mysqld).
```

Which of the following is causing the connection issue?

A. The process mysqld is using too many semaphores.
B. The server is running out of file descriptors.
C. Something is starving the server resources.
D. The amount of RAM allocated to the server is too high.

Answer: D

NEW QUESTION 138
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 140
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 141
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 142
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 146
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 149
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 152
A new Linux systems administrator just generated a pair of SSH keys that should allow connection to the servers. Which of the following commands can be used to copy a key file to remote servers? (Choose two.)

A. wget
B. ssh-keygen
C. ssh-keyscan
D. ssh-copy-id
E. ftpd
F. scp

Answer: DF

NEW QUESTION 157
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 160
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 165
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 168
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 171
Due to low disk space, a Linux administrator finding and removing all log files that were modified more than 180 days ago. Which of the following commands will accomplish this task?

A. find /var/log -type d -mtime +180 -print -exec rm {} \;
B. find /var/log -type f -modified +180 -rm
C. find /var/log -type f -mtime +180 -exec rm {} \
D. find /var/log -type c -atime +180 –remove

Answer: A

NEW QUESTION 173
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