

CompTIA

Exam Questions XK0-005

CompTIA Linux+ Certification Exam



NEW QUESTION 1

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

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

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

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

Answer: C

NEW QUESTION 2

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 3

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 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 -l /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 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 7

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 8

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 9

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

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

Answer: B

NEW QUESTION 10

A systems engineer is adding a new 1GB XFS filesystem that should be temporarily mounted under /ops/app. Which of the following is the correct list of commands to achieve this goal?

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

```
pvccreate -L1G /dev/app  
mkfs.xfs /dev/app  
mount /dev/app /opt/app
```

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

```
parted /dev/sdb --script mkpart primary xfs 1GB  
mkfs.xfs /dev/sdb  
mount /dev/sdb /opt/app
```

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

```
lvs --create 1G --name app  
mkfs.xfs /dev/app  
mount /dev/app /opt/app
```

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

```
lvcreate -L 1G -n app app_vg  
mkfs.xfs /dev/app_vg/app  
mount /dev/app_vg/app /opt/app
```

Answer: D

NEW QUESTION 10

A Linux administrator is troubleshooting an issue in which an application service failed to start on a Linux server. The administrator runs a few commands and gets the following outputs:

Output 1:

```
Dec 23 23:14:15 root systemd[1] logsearch.service: Failed to start Logsearch.
```

Output 2:

```
logsearch.service - Log Search  
Loaded: loaded (/etc/systemd/system/logsearch.service; enabled; vendor preset:enabled)  
Active: failed (Result: timeout)  
Process: 3267 ExecStart=/usr/share/logsearch/bin/logger ...  
Main PID: 3267 (code=killed, signal=KILL)
```

Based on the above outputs, which of the following is the MOST likely action the administrator should take to resolve this issue?

- A. Enable the logsearch.service and restart the service.
- B. Increase the TimeoutStartUSec configuration for the logsearch.service.
- C. Update the OnCalendar configuration to schedule the start of the logsearch.service.
- D. Update the KillSignal configuration for the logsearch.service to use TERM.

Answer: B

NEW QUESTION 14

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 19

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 22

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 26

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 27

A systems administrator is troubleshooting connectivity issues and trying to find out why a Linux server is not able to reach other servers on the same subnet it is connected to. When listing link parameters, the following is presented:

```
# ip link list dev eth0
2: eth0: <NO-CARRIER, BROADCAST, MULTICAST, UP> mtu 1500, qdisc
fq_codel state DOWN mode DEFAULT group default qlen 1000
link/ether ac:00:11:22:33:cd brd ff:ff:ff:ff:ff:ff
```

Based on the output above, which of following is the MOST probable cause of the issue?

- A. The address ac:00:11:22:33:cd is not a valid Ethernet address.
- B. The Ethernet broadcast address should be ac:00:11:22:33:ff instead.
- C. The network interface eth0 is using an old kernel module.
- D. The network interface cable is not connected to a switch.

Answer: D

NEW QUESTION 29

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 33

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 37

A junior systems administrator has just generated public and private authentication keys for passwordless login. Which of the following files will be moved to the remote servers?

- A. id_dsa.pem
- B. id_rsa
- C. id_ecdsa
- D. id_rsa.pub

Answer: D

NEW QUESTION 42

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 47

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 51

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 56

A Linux administrator has set up a new DNS forwarder and is configuring all internal servers to use the new forwarder to look up external DNS requests. The administrator needs to modify the firewall on the server for the DNS forwarder to allow the internal servers to communicate to it and make the changes persistent between server reboots. Which of the following commands should be run on the DNS forwarder server to accomplish this task?

- A. ufw allow out dns
- B. systemctl reload firewalld
- C. iptables -A OUTPUT -p udp -ra udp -dport 53 -j ACCEPT
- D. firewall-cmd --zone-public --add-port-53/udp --permanent

Answer: D

NEW QUESTION 60

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 65

A Linux administrator created the directory /project/access2all. By creating this directory, the administrator is trying to avoid the deletion or modification of files from non-owners. Which of the following will accomplish this goal?

- A. chmod +t /project/access2all
- B. chmod +rws /project/access2all
- C. chmod 2770 /project/access2all
- D. chmod ugo+rxw /project/access2all

Answer: A

NEW QUESTION 68

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 71

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 72

A Linux administrator has been tasked with installing the most recent versions of packages on a RPM-based OS. Which of the following commands will accomplish this task?

- A. apt-get upgrade
- B. rpm -a
- C. yum updateinfo
- D. dnf update
- E. yum check-update

Answer: D

NEW QUESTION 73

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 78

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 79

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 80

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      0.00     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 82

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 87

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 88

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 90

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 94

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 95

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 100

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 104

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

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

Answer: A

NEW QUESTION 108

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 112

A Linux administrator wants to find out whether files from the wget package have been altered since they were installed. Which of the following commands will provide the correct information?

- A. rpm -i wget
- B. rpm -qf wget
- C. rpm -F wget
- D. rpm -V wget

Answer: D

NEW QUESTION 116

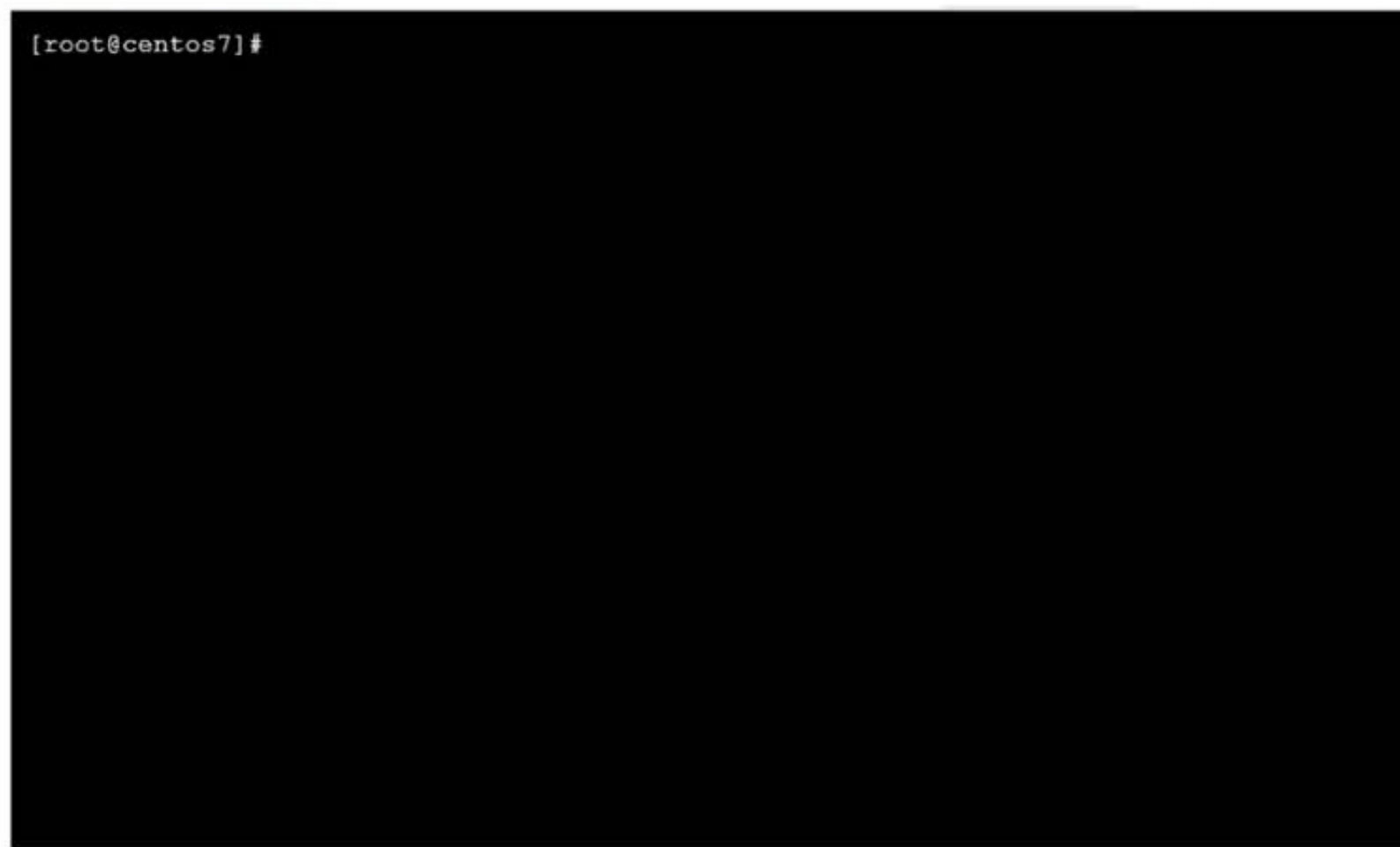
Junior system administrator had trouble installing and running an Apache web server on a Linux server. You have been tasked with installing the Apache web server on the Linux server and resolving the issue that prevented the junior administrator from running Apache.

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



- 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 119

A Linux administrator needs to obtain a list of all volumes that are part of a volume group. Which of the following commands should the administrator use to accomplish this task?

- A. vgs
- B. lvs
- C. fdisk -l
- D. pvs

Answer: D

NEW QUESTION 122

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.

```
# lsattr /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 123

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 126

A Linux administrator was notified that a virtual server has an I/O bottleneck. The Linux administrator analyzes the following output:

```
root@linux:~# uptime
18:43:47 up 1 day, 19:58, 1 user, load average: 9.90, 5.83, 2.49
root@linux:~# vmstat 10 10
procs -----memory----- --swap-----io---- -system- -----cpu-----

 r b swpd   free   buff   cache  si   so bi   bo    in    cs us  sy  id  wa  st
 13 0  5520 141228 98932 2325312 0    2 10    28   192   167  1  0 99   0   0
 10 0  5608 131280 98932 2325324 0 26211 0 26211  342   393 91  9  0   0   0
 10 0  5528   1096 98932 2325324 0  5242 0  5242  333   402 96  4  0   0   0

root@linux:~# free -m

      total used    free shared buff/cache available
Mem:   3933 1454    110     33      2368      2202
Swap:  1497   5    1491
```

Given there is a single CPU in the sever, which of the following is causing the slowness?

- A. The system is running out of swap space.
- B. The CPU is overloaded.
- C. The memory is exhausted.
- D. The processes are paging.

Answer: B

NEW QUESTION 129

An administrator is trying to diagnose a performance issue and is reviewing the following output:

```
avg-cpu:  %user   %nice   %system %iowait  %steal   %idle
           2.00    0.00    3.00    32.00    0.00    63.00

Device            tps    kB_read/s    kB_wrtn/s    kB_read    kB_wrtn
sdb                345.00         0.02         0.04 4739073123 23849523
sdb1              345.00    32102.03    12203.01 4739073123 23849523
```

System Properties: CPU: 4 vCPU

Memory: 40GB

Disk maximum IOPS: 690

Disk maximum throughput: 44Mbps | 44000Kbps

Based on the above output, which of the following BEST describes the root cause?

- A. The system has reached its maximum IOPS, causing the system to be slow.
- B. The system has reached its maximum permitted throughput, therefore iowait is increasing.
- C. The system is mostly idle, therefore the iowait is high.
- D. The system has a partitioned disk, which causes the IOPS to be doubled.

Answer: B

NEW QUESTION 130

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 135

A systems administrator made some changes in the ~/.bashrc file and added an alias command. When the administrator tried to use the alias command, it did not work. Which of the following should be executed FIRST?

- A. source ~/.bashrc
- B. read ~/.bashrc
- C. touch ~/.bashrc
- D. echo ~/.bashrc

Answer: A

NEW QUESTION 137

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 138

A systems administrator needs to verify whether the built container has the app.go file in its root directory. Which of the following can the administrator use to verify the root directory has this file?

- A. docker image inspect
- B. docker container inspect
- C. docker exec <container_name> ls
- D. docker ps <container_name>

Answer: B

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 141

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 143

A Linux administrator booted up the server and was presented with a non-GUI terminal. The administrator ran the command `systemctl isolate graphical.target` and rebooted the system by running `systemctl reboot`, which fixed the issue. However, the next day the administrator was presented again with a non-GUI terminal. Which of the following is the issue?

- A. The administrator did not reboot the server properly.
- B. The administrator did not set the default target to `basic.target`.
- C. The administrator did not set the default target to `graphical.target`.
- D. The administrator did not shut down the server properly.

Answer: C

NEW QUESTION 147

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 noprefixroute 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 NetworkManager
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 150

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 151

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 155

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 160

A Linux administrator is scheduling a system job that runs a script to check available disk space every hour. The Linux administrator does not want users to be able to start the job. Given the following:

```
[Unit]
Description=Check available disk space
RefuseManualStart=yes
RefuseManualStop=yes

[Timer]
Persistent=true
OnCalendar=*-*-*-*:00:00
Unit=checkdiskspace.service

[Install]
WantedBy=timers.target
```

The Linux administrator attempts to start the timer service but receives the following error message:

```
Failed to start checkdiskspace.timer: Operation refused ...
```

Which of the following is MOST likely the reason the timer will not start?

- A. The checkdiskspace.timer unit should be enabled via systemctl.
- B. The timers.target should be reloaded to get the new configuration.
- C. The checkdiskspace.timer should be configured to allow manual starts.
- D. The checkdiskspace.timer should be started using the sudo command.

Answer: C

NEW QUESTION 165

A Linux administrator has logged in to a server for the first time and needs to know which services are allowed through the firewall. Which of the following options will return the results for which the administrator is looking?

- A. firewall-cmd —get-services
- B. firewall-cmd —check-config
- C. firewall-cmd —list-services
- D. systemctl status firewalld

Answer: C

NEW QUESTION 166

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 167

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 171

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