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 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
Which of the following tools is BEST suited to orchestrate a large number of containers across many different servers?

A. Kubernetes
B. Ansible
C. Podman
D. Terraform

Answer: A

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
Users have been unable to reach www.comptia.org from a Linux server. A systems administrator is troubleshooting the issue and does the following:

```
Output 1:
2: eth0: <BROADCAST,MULTICAST,UP, LOWER_UP> mtu 1500 qdisc noqueue state UP group default qlen 1000
    link/ether ac:11:22:33:44:cd brd ff:ff:ff:ff:ff:ff
    inet 192.168.168.10/24 brd 192.168.169.255 scope global dynamic noprefixroute eth0
       valid_lft 8097sec preferred_lft 8097sec
    inet fe80::4daf:8c7c:a6ff:2771/64 scope link noprefixroute
       valid_lft forever preferred_lft forever

Output 2:
nameserver 192.168.168.53

Output 3:
PING 192.168.168.53 (192.168.168.53) 56(84) bytes of data.
64 bytes from 192.168.168.53: icmp_seq=1 ttl=64 time=2.85 ms

--- 192.168.168.53 ping statistics ---
1 packets transmitted, 1 received, 0% packet loss, time 0ms
rtt min/avg/max/mdev = 2.847/2.847/2.847/0.000 ms

Output 4:
192.168.168.0/24 dev eth0 proto kernel scope link src 192.168.168.10 metric 600

Output 5:
...
;; QUESTION SECTION:
;www.comptia.org. IN A

;; ANSWER SECTION:
. 0 CLASS4096 OPT 10 8 LqmNvk0AazU=

;; ADDITIONAL SECTION:
www.comptia.org. 3385 IN A 23.96.239.26
...
```

Based on the information above, which of the following is causing the issue?

A. The name www.comptia.org does not point to a valid IP address.
B. The server 192.168.168.53 is unreachable.
C. No default route is set on the server.
D. The network interface eth0 is disconnected.

Answer: C

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 Linux administrator was asked to run a container with the httpd server inside. This container should be exposed at port 443 of a Linux host machine while it internally listens on port 8443. Which of the following commands will accomplish this task?

A. podman run -d -p 443:8443 httpd
B. podman run -d -p 8443:443 httpd
C. podman run –d -e 443:8443 httpd
D. podman exec -p 8443:443 httpd

Answer: A

NEW QUESTION 8
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 9
At what point is the Internal Certificate Authority (ICA) created?

A. During the primary Security Management Server installation process.
B. Upon creation of a certificate.
C. When an administrator decides to create one.
D. When an administrator initially logs into SmartConsole.

Answer: A

NEW QUESTION 10
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 10
Based on an organization's new cybersecurity policies, an administrator has been instructed to ensure that, by default, all new users and groups that are created fall within the specified values below.

```
# Min/max values for automatic uid selection in useradd
#
UID_MIN 1000
UID_MAX 60000
# Min/max values for automatic gid selection in groupadd
#
GID_MIN 1000
GID_MAX 60000
```

To which of the following configuration files will the required changes need to be made?

A. /etc/login.defs
B. /etc/security/limits.conf
C. /etc/default/useradd
D. /etc/profile

Answer: A

NEW QUESTION 12
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 14
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 17
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 22
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 23
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 27
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 28
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 33
Which of the following files holds the system configuration for journal when running systemd?

A. /etc/systemd/journald.conf
B. /etc/systemd/systemd-journalctl.conf
C. /usr/lib/systemd/journalctl.conf
D. /etc/systemd/systemd-journald.conf

Answer: A

NEW QUESTION 35
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: etho: <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 36
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 41
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 44
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 48
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 51
Developers have requested implementation of a persistent, static route on the application server. Packets sent over the interface eth0 to 10.0.213.5/32 should be routed via 10.0.5.1. Which of the following commands should the administrator run to achieve this goal?

A. route -i etho -p add 10.0.213.5 10.0.5.1
B. route modify eth0 +ipv4.routes "10.0.213.5/32 10.0.5.1"
C. echo "10.0.213.5 10.0.5.1 eth0" > /proc/net/route
D. ip route add 10.0.213.5/32 via 10.0.5.1 dev eth0

Answer: D

NEW QUESTION 52
Which of the following directories is the mount point in a UEFI system?

A. /sys/efi
B. /boot/efi
C. /efi
D. /etc/efi

Answer: B

NEW QUESTION 56
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 60
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 63
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 67

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 69
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 71
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 75
A Linux administrator needs to determine whether a hostname is in the DNS. Which of the following would supply the information that is needed?

A. nslookup
B. rsyn
C. netstat
D. host

Answer: A

NEW QUESTION 76
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 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 81
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 85
A Linux administrator modified the SSH configuration file. Which of the following commands should be used to apply the configuration changes?

A. systemctl stop sshd
B. systemctl mask sshd
C. systemctl reload sshd
D. systemctl start sshd

Answer: C

NEW QUESTION 86
A Linux systems administrator receives reports from various users that an application hosted on a server has stopped responding at similar times for several days in a row. The administrator logs in to the system and obtains the following output:
Output 1:

```
[Tue Aug 31 16:36:42 2021] OOM: Kill process 43805 (java) score 249 or sacrifice child
[Tue Aug 31 16:36:42 2021] killed process 43805 (java) total-vm: 4446352kB, anon-rss: 4053140kB, file-rss: 68kB
```

Output 2:

```
Linux 3.10.0-328.13.1.x86_64 #1 (hostname) 31/08/2021 _x86_64_ (8 CPU)
16:00:01 PM      CPU     %user    %nice   %system   %iowait    %steal    %idle
16:10:01 PM      all     17.58     0.00      9.36      0.00      0.00     73.06
16:20:01 PM      all     22.34     0.00     11.75      0.00      0.00     65.91
16:30:01 PM      all     25.49     0.00     11.69      0.00         0     62.82
```

Output 3:

```
$ free -m
              total      used      free    shared   buff/cache   available
Mem:          16704     15026       174        92          619         793
Swap:             0         0         0
```

Which of the following should the administrator do to provide the BEST solution for the reported issue?

A. Configure memory allocation policies during business hours and prevent the Java process from going into a zombie state while the server is idle.
B. Configure a different nice value for the Java process to allow for more users and prevent the Java process from restarting during business hours.
C. Configure more CPU cores to allow for the server to allocate more processing and prevent the Java process from consuming all of the available resources.
D. Configure the swap space to allow for spikes in usage during peak hours and prevent the Java process from stopping due to a lack of memory.

Answer: A

NEW QUESTION 87
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 88
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 90
A Linux administrator needs to ensure that Java 7 and Java 8 are both locally available for developers to use when deploying containers. Currently only Java 8 is available. Which of the following commands should the administrator run to ensure both versions are available?

A. docker image load java:7
B. docker image pull java:7
C. docker image import java:7
D. docker image build java:7

Answer: B

NEW QUESTION 93
A systems administrator is receiving tickets from users who cannot reach the application app that should be listening on port 9443/tcp on a Linux server.
To troubleshoot the issue, the systems administrator runs netstat and receives the following output:

```
# netstat -anp | grep appd | grep -w LISTEN
tcp 0 0 127.0.0.1:9443 0.0.0.0:* LISTEN 1234/appd
```

Based on the information above, which of the following is causing the issue?

A. The IP address 0.0.0.0 is not valid.
B. The application is listening on the loopback interface.
C. The application is listening on port 1234.
D. The application is not running.

Answer: B

Explanation:
The server is in a "Listen" state on port 9943 using its loopback address. The "1234" is a process-id

NEW QUESTION 98
A Linux administrator is creating a primary partition on the replacement hard drive for an application server. Which of the following commands should the administrator issue to verify the device name of this partition?

A. sudo fdisk /dev/sda
B. sudo fdisk -s /dev/sda
C. sudo fdisk -l
D. sudo fdisk -h

Answer: C

NEW QUESTION 102
A Linux system is failing to boot with the following error:

```
error: no such partitions
Entering rescue mode...
grub rescue>
```

Which of the following actions will resolve this issue? (Choose two.)

A. Execute grub-install --root-directory=/mnt and reboot.
B. Execute grub-install /dev/sdX and reboot.
C. Interrupt the boot process in the GRUB menu and add rescue to the kernel line.
D. Fix the partition modifying /etc/default/grub and reboot.
E. Interrupt the boot process in the GRUB menu and add single to the kernel line.
F. Boot the system on a LiveCD/ISO.

Answer: BD

NEW QUESTION 106
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 110
User1 is a member of the accounting group. Members of this group need to be able to execute but not make changes to a script maintained by User2. The script should not be accessible to other users or groups. Which of the following will give proper access to the script?

A. chown user2:accounting script.sh chmod 750 script.sh
B. chown user1:accounting script.sh chmod 777 script.sh
C. chown accounting:user1 script.sh chmod 057 script.sh
D. chown user2:accounting script.shchmod u+x script.sh

Answer: C

NEW QUESTION 114
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 115
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 117
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 118
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 122
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 126
Users have reported that the interactive sessions were lost on a Linux server. A Linux administrator verifies the server was switched to rescue.target mode for maintenance. Which of the following commands will restore the server to its usual target?

A. telinit 0
B. systemctl reboot
C. systemctl get-default
D. systemctl emergency

Answer: B

NEW QUESTION 127
In which of the following filesystems are system logs commonly stored?

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

Answer: A

NEW QUESTION 129
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 130
A new file was added to a main Git repository. An administrator wants to synchronize a local copy with the contents of the main repository. Which of the following commands should the administrator use for this task?

A. git reflog
B. git pull
C. git status
D. git push

Answer: B

NEW QUESTION 133
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 137
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 138
An administrator deployed a Linux server that is running a web application on port 6379/tcp. SELinux is in enforcing mode based on organization policies. The port is open on the firewall.
Users who are trying to connect to a local instance of the web application receive Error 13, Permission denied. The administrator ran some commands that resulted in the following output:

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


# curl http://localhost/App.php
Cannot connect to App Server.
```

Which of the following commands should be used to resolve the issue?

A. semanage port -d -t http_port_t -p tcp 6379
B. semanage port -a -t http_port_t -p tcp 6379
C. semanage port -a http_port_t -p top 6379
D. semanage port -l -t http_port_tcp 6379

Answer: B

NEW QUESTION 141
A Linux engineer needs to create a custom script, cleanup.sh, to run at boot as part of the system services. Which of the following processes would accomplish this task?

A. Create a unit file in the /etc/default/ director
B. systemctl enable cleanupsystemctl is-enabled cleanup

C. Create a unit file in the /etc/ske1/ director
D. systemctl enable cleanupsystemctl is-enabled cleanup
E. Create a unit file in the /etc/systemd/system/ director
F. systemctl enable cleanupsystemctl is-enabled cleanup
G. Create a unit file in the /etc/sysctl.d/ director
H. systemctl enable cleanupsystemctl is-enabled cleanup

Answer: C

NEW QUESTION 146
A Linux administrator needs to analyze a failing application that is running inside a container. Which of the following commands allows the Linux administrator to enter the running container and analyze the logs that are stored inside?

A. docker run -ti app /bin/sh
B. podman exec -ti app /bin/sh
C. podman run -d app /bin/bash
D. docker exec -d app /bin/bash

Answer: B

NEW QUESTION 150
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 151
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 154
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 157
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 160
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 161
To harden one of the servers, an administrator needs to remove the possibility of remote administrative login via the SSH service. Which of the following should the administrator do?

A. Add the line DenyUsers root to the /etc/hosts.deny file.
B. Set PermitRootLogin to no in the /etc/ssh/sshd_config file.
C. Add the line account required pam_nologi
D. so to the /etc/pam.d/sshd file.
E. Set PubKeyAuthentication to no in the /etc/ssh/ssh_config file.

Answer: B

NEW QUESTION 166
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 168
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 172
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 176
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 179
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 180
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 182
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 183
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