Vendor: CompTIA

Exam Code: XK0-005

Exam Name: CompTIA Linux+ XK0-005 Certification Exam

Version: DEMO

QUESTION 1
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

QUESTION 2
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

QUESTION 3
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

QUESTION 4
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://1ocalhost/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

QUESTION 5
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

QUESTION 6
A systems administrator wants to back up the directory /data and all its contents to /backup/data on a remote server named remote.
Which of the following commands will achieve the desired effect?

A. scp -p /data remote:/backup/data
B. ssh -i /remote:/backup/ /data
C. rsync -a /data remote:/backup/
D. cp -r /data /remote/backup/

Answer: C

QUESTION 7
An administrator needs to make some changes in the IaC declaration templates.
Which of the following commands would maintain version control?

A. git clone https://github.com/comptia/linux+-.git
   git push origin
B. git clone https://qithub.com/comptia/linux+-.git
   git fetch New-Branch

C. git clone https://github.com/comptia/linux+-.git
   git status
D. git clone https://github.com/comptia/linuxt+-.git
   git checkout -b <new-branch>

Answer: D

QUESTION 8
An administrator attempts to rename a file on a server but receives the following error.

```
mv: cannot move 'files/readme.txt' to 'files/readme.txt.orig': Operation not permitted.
```

The administrator then runs a few commands and obtains the following output:

```
$ ls -ld files/

  drwxrwxrwt.1    users    users    20      Sep 10        files/
                                            15:15
$ ls -a files/

  drwxrwxrwt.1    users    users    20      Sep 10     _
                                            15:15

  drwxr-xr-x.1    users    users    32      Sep 10     ..
                                            15:15

  -rw-rw-r--.1    users    users    4       Sep 12     readme.txt
                                            10:34
```

Which of the following commands should the administrator run NEXT to allow the file to be renamed by any user?

A. chgrp reet files
B. chacl -R 644 files
C. chown users files
D. chmod -t files

Answer: D

QUESTION 9
Which of the following commands will display the operating system?

A. uname -n
B. uname -s
C. uname -o
D. uname -m

Answer: C

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

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

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

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

Answer: D

QUESTION 11
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

QUESTION 12
A Linux administrator is troubleshooting SSH connection issues from one of the workstations.
When users attempt to log in from the workstation to a server with the IP address 104.21.75.76, they receive the following message:

```
ssh: connect to host 104.21.75.76 port 22: Connection refused
```

The administrator reviews the information below:

Workstation output 1:

```
eth0: <BROADCAST,MULTICAST, UP, LOWER_UP> mtu 1500 qdisc mq state UP group default
link/ether 00:15:5d:e9:e9:fb brd 5.189.153.255 scope global eth0
inet 5.189.153.89/24 brd 5.189.153.255 scope global eth0
```

Workstation output 2:

```
default via 5.189.153.1 dev eth0
5.189.153.0/24 dev eth0 proto kertnel scope link src 5.189.153.89
```

Server output 1:

```
target     prot   opt    source            destination
REJECT     tcp    --     101.68.78.194     0.0.0.0/0    tcp dpt:22 ctstate NEW, UNTRACKED
                                                        reject-with icmp-port-unreachable
REJECT     tcp    --     222.186.180.130   0.0.0.0/0    tcp dpt:22 ctstate NEW, UNTRACKED
                                                        reject-with icmp-port-unreachable
REJECT     tcp    --     104.131.1.39      0.0.0.0/0    tcp dpt:22 ctstate NEW, UNTRACKED
                                                        reject-with icmp-port-unreachable
REJECT     tcp    --     68.183.196.11     0.0.0.0/0    tcp dpt:22 ctstate NEW, UNTRACKED
                                                        reject-with icmp-port-unreachable
REJECT     tcp    --     5.189.153.89      0.0.0.0/0    tcp dpt:22 ctstate NEW, UNTRACKED
                                                        reject-with icmp-port-unreachable
REJECT     tcp    --     41.93.32.148      0.0.0.0/0    tcp dpt:22 ctstate NEW, UNTRACKED
                                                        reject-with icmp-port-unreachable
```

Server output 2:

```
sshd. service - OpenSSH server daemon
  Loaded: loaded (/usr/lib/systemd/system/sshd.service: disabled: vendor preset: enabled)
  Active: active (running) since Thu 2021-08-26 18:50:19 CEST; 2 weeks 5 days ago
```

Server output 3:

```
eth0: <BROADCAST, MULTICAST, UP, LOWER_UP> mtu 1500 qdisc mg state UP group default
link/ether 52:52:00:2a:bb:98 brd 104.21.75.255 scope global eth0
inet 104.21.75.76/24 brd 104.21.75.255 scope qlobal eth0
```

Server output 4:

```
default via 104.21.75.254 dev eth0
104.21.75.0/24 dev eth0 proto kertnel scope link src 104.21.75.76
```

Which of the following is causing the connectivity issue?

A. The workstation has the wrong IP settings.
B. The sshd service is disabled.
C. The server's firewall is preventing connections from being made.
D. The server has an incorrect default gateway configuration.

Answer: B

QUESTION 13
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

QUESTION 14
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

QUESTION 15
Which of the following tools is commonly used for creating CI/CD pipelines?

A. Chef
B. Puppet
C. Jenkins
D. Ansible

Answer: C

QUESTION 16
A systems administrator requires that all files that are created by the user named web have read-only permissions by the owner. Which of the following commands will satisfy this requirement?

A. chown web:web /home/web
B. chmod -R 400 /home/web
C. echo "umask 377" >> /home/web/.bashrc
D. setfacl read /home/web

Answer: B

QUESTION 17
A systems administrator is tasked with preventing logins from accounts other than root, while the file /etc/nologin exists. Which of the following PAM modules will accomplish this task?

A. pam_login.so
B. pam_access.so
C. pam_logindef.so
D. pam_nologin.so

Answer: D

QUESTION 18
A systems administrator has been tasked with disabling the nginx service from the environment to prevent it from being automatically and manually started. Which of the following commands will accomplish this task?

A. systemctl cancel nginx
B. systemctl disable nginx
C. systemctl mask nginx
D. systemctl stop nginx

Answer: C

QUESTION 19
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.sevice.
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

QUESTION 20
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

QUESTION 21
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

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