

CompTIA.Pre.XK0-005.36q - DEMO

Number: XK0-005
Passing Score: 800
Time Limit: 120 min



Exam Code: XK0-005
Exam Name: CompTIA Linux+
Website: <https://VCEup.com/>
Team-Support: <https://VCEplus.io/>



Exam A

QUESTION 1

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 2

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:



QUESTION 3

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.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 4

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 5

Several users reported that they were unable to write data to the /oracle1 directory. The following output has been provided:

Filesystem	Size	Used	Available	Use%	Mounted on
/dev/sdb1	100G	50G	50G	50%	/oracle1

Which of the following commands should the administrator use to diagnose the issue?

- A. df -i /oracle1
- B. fdisk -l /dev/sdb1
- C. lsblk /dev/sdb1
- D. du -sh /oracle1

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 6

After installing some RPM packages, a systems administrator discovers the last package that was installed was not needed. Which of the following commands can be used to remove the package?

- A. dnf remove packagename
- B. apt-get remove packagename
- C. rpm -i packagename
- D. apt remove packagename

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 7

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 8

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

```
resource "aws_instance" "ec2_instance" {  
  ami           = data.aws_ami.vendor-linux-2.id  
  associate_public_ip_address = true  
  count        = 3  
  instance_type = "instance_type"  
  vpc_security_group_ids = [aws_security_group.allow_ssh.id]  
  key_name      = aws_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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 9

Which of the following technologies can be used as a central repository of Linux users and groups?

- A. LDAP
- B. MFA
- C. SSO
- D. PAM

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:



QUESTION 10

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.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 11

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 12

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/

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 13

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/linux+-.git
git checkout -b <new-branch>

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 14

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   15:15  files/
$ 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   10:34  readme.txt
```



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

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 15

Which of the following commands will display the operating system?

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 16

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_vg`
`mkfs.xfs /dev/app_vg/app`
`mount /dev/app_vg/app /opt/app`

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 17

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`

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 18

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 kernel 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/ssh.service: disabled; vendor preset: enabled)
Active: active (running) since Thu 2021-08-26 18:50:19 CEST; 2 weeks 5 days ago
```

Server output 3:

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

Server output 4:

```
default via 104.21.75.254 dev eth0
104.21.75.0/24 dev eth0 proto kernel 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.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 19

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 20

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 21

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 22

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 23

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 24

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:

```
dzwx-----. 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[8460]: Accepted keyboard-interactive/pam for user from 10.0.6.5 port 50928 ssh2
Sep 15 17:24:03 server sshd[8460]: pam_unix(sshd:session): session opened for user testuser
Sep 15 17:24:03 server sshd[8460]: 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.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 25

An administrator accidentally deleted the /boot/vmlinuz file and must resolve the issue before the server is rebooted. Which of the following commands should the administrator use to identify the correct version of this file?

- A. rpm -qa | grep kernel; uname -a
- B. yum -y update; shutdown -r now
- C. cat /etc/centos-release; rpm -Uvh --nodeps
- D. telinit 1; restorecon -Rv /boot

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 26

A cloud engineer needs to change the secure remote login port from 22 to 49000. Which of the following files should the engineer modify to change the port number to the desired value?

- A. /etc/host.conf
- B. /etc/hostname
- C. /etc/services
- D. /etc/ssh/sshd_config

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 27

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 28

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

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 29

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 eth0 -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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 30

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 31

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

Correct Answer: DF

Section: (none)

Explanation

Explanation/Reference:

Explanation:

QUESTION 32

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:
Explanation:

QUESTION 33

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.

Correct Answer: D
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 34

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 -l | 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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:
Explanation:

QUESTION 35

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

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

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:



Explanation:

QUESTION 36

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`

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

