

Exam	XK0-005
Title	CompTIA Linux+ Certification Exam
Version	4.0
Product Type	176 Q&A with explanations

QUESTION 1

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`

Answer: A

Explanation:

QUESTION 2

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`

Answer: D

Explanation:

QUESTION 3

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

Explanation:

QUESTION 4

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`

Answer: D

Explanation:

QUESTION 5

Developers have requested implementation of a persistent, static route on the application server. Packets sent over the interface eth0 to 10.0.213.5 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 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 via 10.0.5.1 dev eth0

Answer: D

Explanation:

QUESTION 6

A user is asking the systems administrator for assistance with writing a script to verify whether a file exists. Given the following:

```
#!/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

Explanation:

QUESTION 7

DRAG DROP

As a Systems Administrator, to reduce disk space, you were tasked to create a shell script that does the following:

Add relevant content to /tmp/script.sh, so that it finds and compresses rotated files in /var/log without recursion.

INSTRUCTIONS

Fill the blanks to build a script that performs the actual compression of rotated log files.

If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

Snippets

tar	untar	zip
egrep	awk	\$log
"\$@"	pgrep	repeat
/tmp/tempfile	locate	filename
rar	tree	"log.[1-6]@"
in	done	/var/log
for	xx	"\$@"
sed	gzip	"\$log.[1-6]@"
while		

```
#!/bin/bash
#name: script.sh
find /var/log -type f -maxdepth 1 | grep [?] > /tmp/tempfile
[?] filename [?] $(cat [?])
do
[?] $filename
[?]
```

Answer:

```
#!/bin/bash
#name: script.sh
find /var/log -type f -maxdepth 1 | grep "$@" > /tmp/tempfile
for filename in $(cat /tmp/tempfile)
do
gzip $filename
done
```

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

Answer: D

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

Answer: A

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.

Answer: D

Explanation:

QUESTION 11

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

Explanation:

QUESTION 12

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

Explanation:

QUESTION 13

A systems administrator needs to clone the partition `/dev/sdc1` to `/dev/sdd1`. Which of the following commands will accomplish this task?

- A. `tar -cvzf /dev/sdd1 /dev/sdc1`
- B. `rsync /dev/sdc1 /dev/sdd1`
- C. `dd if=/dev/sdc1 of=/dev/sdd1`
- D. `scp /dev/sdc1 /dev/sdd1`

Answer: C

Explanation:

QUESTION 14

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: