

# CompTIA

## Exam Questions XK0-005

CompTIA Linux+ Certification Exam



**NEW QUESTION 1**

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. umask
- C. 002
- D. chattr -Rv
- E. chown -cf

**Answer: B**

**NEW QUESTION 2**

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**

**NEW QUESTION 3**

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 4**

Some servers in an organization have been compromised. Users are unable to access to the organization's web page and other services. While reviewing the system log, a systems administrator notices messages from the kernel regarding firewall rules:

```
Oct 20 03:45:50 hostname kernel: iptables denied: IN=eth0 OUT=
MAC=xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx SRC=x.x.x.x DST=x.x.x.x LEN=1059 TOS=0x00
PREC=0x00 TTL=115 ID=31368 DF PROTO=TCP
SPT=17992 DPT=80 WINDOW=16477 RES=0x00 ACK PSH URGP=0
Oct 20 03:46:02 hostname kernel: iptables denied: IN=eth0 OUT=
MAC=xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx SRC=x.x.x.x DST=x.x.x.x LEN=52 TOS=0x00
PREC=0x00 TTL=52 ID=763 DF PROTO=TCP SPT=20229 DPT=22 WINDOW=15598 RES=0x00 ACK URGP=0
Oct 20 03:46:14 hostname kernel: iptables denied: IN=eth0 OUT=
MAC=xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx SRC=x.x.x.x DST=x.x.x.x LEN=324 TOS=0x00
PREC=0x00 TTL=49 ID=64245 PROTO=TCP SPT=47237 DPT=80 WINDOW=470 RES=0x00 ACK PSH URGP=0
Oct 20 03:46:26 hostname kernel: iptables denied: IN=eth0 OUT=
MAC=xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx:xx SRC=x.x.x.x DST=x.x.x.x LEN=52 TOS=0x00
PREC=0x00 TTL=45 ID=2010 PROTO=TCP SPT=48322 DPT=80 WINDOW=380 RES=0x00 ACK URGP=0
```

Which of the following commands will remediate and help resolve the issue?

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

```
Iptables -A FORWARD -i eth0 -p tcp --dport 80 -j ACCEPT
Iptables -A FORWARD -i eth0 -p tcp --dport 22 -j ACCEPT
```

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

```
IPTables -A INPUT -i eth0 -p tcp --dport 80 -j ACCEPT
IPTables -A INPUT -i eth0 -p tcp --dport 22 -j ACCEPT
```

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

```
IPTables -A INPUT -i eth0 -p tcp --sport 80 -j ACCEPT
IPTables -A INPUT -i eth0 -p tcp --sport 22 -j ACCEPT
```

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

```
IPTables -A INPUT -i eth0 -p tcp --dport :80 -j ACCEPT
IPTables -A INPUT -i eth0 -p tcp --dport :22 -j ACCEPT
```

**Answer: B**

#### NEW QUESTION 5

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 6

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 7

While inspecting a recently compromised Linux system, the administrator identified a number of processes that should not have been running:

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
5545	joe	30	-10	5465	56465	8254	R	0.5	1.5	00:35.3	upload.sh
2567	joe	30	-10	6433	75544	9453	R	0.7	1.8	00:25.1	upload_passwd.sh
8634	joe	30	-10	3584	74537	6435	R	0.3	1.1	00:17.6	uploadpw.sh
4846	joe	30	-10	6426	63234	9683	R	0.8	1.9	00:22.2	upload_shadow.sh

Which of the following commands should the administrator use to terminate all of the identified processes?

- A. pkill -9 -f "upload\*.sh"
- B. kill -9 "upload\*.sh"
- C. killall -9 -upload\*.sh"
- D. skill -9 "upload\*.sh"

**Answer: C**

#### NEW QUESTION 8

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 9

A systems administrator is compiling a report containing information about processes that are listening on the network ports of a Linux server. Which of the following commands will allow the administrator to obtain the needed information?

- A. ss -pint
- B. tcpdump -nL
- C. netstat -pn
- D. lsof -lt

**Answer:** C

#### NEW QUESTION 10

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 10

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 13

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 16

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 20

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

#### NEW QUESTION 22

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 27

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:

```
drwx-----. 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[1460]: Accepted keyboard-interactive/pam for user from 10.0.6.5 port 50928 ssh2
Sep 15 17:24:03 server sshd[1460]: pam_unix(sshd:session): session opened for user testuser
Sep 15 17:24:03 server sshd[1460]: 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.

**Answer: D**

#### NEW QUESTION 31

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 33

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 37

A Linux administrator is troubleshooting the root cause of a high CPU load and average.

```
$ uptime
07:30:43 up 20 days, 3 min, 1 user, load average: 2.98, 3.62, 5.21

$ top
PID  USER PR  NI  VIRT  RES   SHR  S  %CPU  %MEM  TIME+  COMMAND
6295 user1 30  -10  5465  56465 8254  R   86.5   1.5   7:35.25  appl

$ ps -ef | grep user1
user1 6295 1 7:42:19 tty/1   06:48:29 /usr/local/bin/appl
```

Which of the following commands will permanently resolve the issue?

- A. renice -n -20 6295
- B. pstree -p 6295
- C. iostat -cy 1 5
- D. kill -9 6295

**Answer:** A

#### NEW QUESTION 41

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 46

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 47

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 49

A Linux administrator needs to correct the permissions of a log file on the server. Which of the following commands should be used to set filename.log permissions to -rwxr—r--. ?

- A. chmod 755 filename.log
- B. chmod 640 filename.log
- C. chmod 740 filename.log
- D. chmod 744 filename.log

**Answer:** D

#### NEW QUESTION 50

A systems administrator is tasked with creating a cloud-based server with a public IP address.

```
---
-name: start an instance with a public IP address
  community.abc.ec2_instance:
    name: "public-compute-instance"
    key_name: "comptia-ssh-key"
    vpc_subnet_id: subnet-5cjssh1
    instance_type: instance.type
    security_group: comptia
    network:
      assign_public_ip: true
    image_id: ami-1234568
    tags:
      Environment: Comptia-Items-Writing-Workshop
...
```

Which of the following technologies did the systems administrator use to complete this task?

- A. Puppet
- B. Git
- C. Ansible
- D. Terraform

**Answer:** D

#### NEW QUESTION 53

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.sh chmod u+x script.sh`

**Answer:** C

#### NEW QUESTION 55

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 59

A developer is trying to install an application remotely that requires a graphical interface for installation. The developer requested assistance to set up the necessary environment variables along with X11 forwarding in SSH. Which of the following environment variables must be set in remote shell in order to launch the graphical interface?

- A. `$RHOST`
- B. `SETENV`
- C. `$SHELL`
- D. `$DISPLAY`

**Answer:** D

#### NEW QUESTION 61

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$3u0w6qWx9876jGhgKJsdfH987634534voj.: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 66

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 67

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 70

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 72

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

#### NEW QUESTION 73

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 76

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 81

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 86

A systems administrator created a new Docker image called test. After building the image, the administrator forgot to version the release. Which of the following will allow the administrator to assign the v1 version to the image?

- A. docker image save test test:v1
- B. docker image build test:vl
- C. docker image tag test test:vl
- D. docker image version test:v1

**Answer:** C

#### NEW QUESTION 90

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 93

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 96

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 98

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:$6$S3uOw6qWx9876jGhgKJedfH987634534voj.:18883:0:99999:7:::
```

Which of the following commands 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 99

Due to low disk space, a Linux administrator finding and removing all log files that were modified more than 180 days ago. Which of the following commands will accomplish this task?

- A. find /var/log -type d -mtime +180 -print -exec rm {} \;
- B. find /var/log -type f -modified +180 -rm
- C. find /var/log -type f -mtime +180 -exec rm {} \
- D. find /var/log -type c -atime +180 -remove

**Answer:** A

#### NEW QUESTION 103

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