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## CompTIA Linux+ Certification Exam

CompTIA XK0-004

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**QUESTION NO: 1**

An administrator wants to use a Linux server's GUI remotely but is limited by security to using TCP port 22. Which of the following is the BEST choice for installation on the Linux server to enable this functionality?

- A. X-forwarding
- B. NX
- C. VNC
- D. XRDP

**ANSWER: C****QUESTION NO: 2**

Which of the following commands will verify the size of a swap partition? (Seled TWO).

- A. lsscsi
- B. cat /proc/meminfo
- C. cat /proc/iports
- D. lausb
- E. lscpu
- F. lablk

**ANSWER: B F****QUESTION NO: 3**

A company requires all servers to be configured with the BIOS on Coordinated Universal Time and the OS on Central Standard Time.

Which of the following can be used to change the time according to these requirements? (Choose two.)

- A. localectl
- B. LC\_ALL
- C. date
- D. time

E. hwclock

F. crontab

**ANSWER: C E**

#### QUESTION NO: 4

A Linux administrator is developing a Bash script to close specific ports on a server firewall. The administrator is not certain of the default port for the Internet Message Access Protocol.

Which of the following files should the administrator check to determine the default port?

A. /etc/network

B. /etc/default/ufw

C. /etc/resolv.conf

D. /etc/services

**ANSWER: D**

#### QUESTION NO: 5

An administrator is trying to optimize a connection to an off-site NFS server.

Which of the following commands would BEST display the problems with packet sizes between hops on the network?

A. tracepath

B. ping

C. tracer

D. nmap

**ANSWER: A**

#### QUESTION NO: 6

Which of the following would allow remote users to access a corporate server? (Choose two.)

A. VPN server

B. SMTP server

C. NTP server

- D. SSH server
- E. DHCP server
- F. File server

**ANSWER: A D**

#### QUESTION NO: 7

A junior systems administrator is diagnosing an issue with latency. The administrator issues the command `mtr www.comptia.org` at a terminal and receives the following output:

Host	Packets			Pings			
	Loss %	Sent	Last	Avg	Best	Worst	StDev
1. 10.0.5.2	3 %	345	0.6	0.7	0.3	19.6	1.2
2. 192.168.0.1	30 %	345	0.6	45	0.1	0.2	0.04
3. 216.239.14.33	100 %	0	0	0	0	0	0

Given this scenario and the output, which of the following should be reported to the network team for investigation? (Choose two.)

- A. Host 1 is set to filter ICMP reply packets.
- B. Host 1 is set to filter ICMP echo packets.
- C. Host 2 is experiencing high packet loss, indicating the link is overloaded.
- D. Host 2 is experiencing low bandwidth, indicating the ISP is blocking traffic.
- E. Host 3 is set to filter ICMP reply packets.
- F. Host 3 is set to filter ICMP echo packets.

**ANSWER: C F**

#### QUESTION NO: 8 - (DRAG DROP)

##### 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.

Select and Place:

**Snippets**

tar	until	zip
egrep	awk	\$log
"\$@"	pgrep	repeat
/tmp/tmpfile	locate	filename
rar	then	"log.[1-6]\$"
in	done	/var/log
for	xt	"\$1"
sed	grep	"\$log.[1-6]\$"
while		

```
#!/bin/bash

#name: script.sh

find /var/log -type f -maxdepth 1 | grep [?] > /tmp/tmpfile

[?] filename [?] $(cat [?])

do

[?] $filename

[?]
```

ANSWER:

### Snippets

tar	until	zip
egrep	awk	\$log
"\$@"	pgrep	repeat
/tmp/teampfile	locate	filename
nan	then	"log.[1-6]\$"
in	done	/var/log
for	xx	"\$1"
sed	gzip	"\$log.[1-6]\$"
while		

```
#!/bin/bash

#name: script.sh

find /var/log -type f -maxdepth 1 | grep "$1" > /tmp/teampfile

for filename in $(cat /tmp/teampfile)
do
    gzip $filename
done
```

**Explanation:**

### QUESTION NO: 9

A systems administrator logs into a Linux server and must identify whether the server is a physical or virtual machine.

Which of the following commands should the administrator run?

- A. vmstat
- B. cat /proc/cpuinfo
- C. dmidecode
- D. modinfo

**ANSWER: C**

### QUESTION NO: 10

A systems administrator installed Git on a new workstation and wants to ensure all Git projects on this machine are initialized with the same username and email address. Which of the following should the administrator use to meet this goal? (Choose two.)

- A. git config --global user.name = "James Doe"

- B. echo 'email.addr = "jdoe@comptia.org"' >> .git/.gitconfig
- C. echo 'username' = "James Doe" >> .git/.gitconfig
- D. git config username = "James Doe"
- E. git config --global user.email = "jdoe@comptia.org"
- F. git config email.addr = jdoe@comptia.org"

**ANSWER: A E**

### QUESTION NO: 11 - (SIMULATION)

#### SIMULATION

Find the file named core and remove it from the system.

#### INSTRUCTIONS

Type "help" to display a list of available commands.

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

#### Linux Shell

```
[comptia@localhost ~]$ find / -name core
```

```
/tmp/core
```

```
[comptia@localhost ~]$ rm /tmp/core
```

```
rm: cannot remove '/tmp/core': Operation not permitted
```

```
[comptia@localhost ~]$ sudo rm /tmp/core
```

```
[comptia@localhost ~]$ find / -name core
```

```
[comptia@localhost ~]$
```

**ANSWER: See explanation below.**

**Explanation:**

```
root@tryit-sought:~# find . -type f -name "FILE-TO-FIND" -exec rm -f {} \;  
root@tryit-sought:~# find . -type f -name "FILE-TO-FIND" -exec rm -f {} \;
```

Reference: <https://www.cyberciti.biz/faq/linux-unix-how-to-find-and-remove-files/>

## QUESTION NO: 12

A junior systems administrator needs to make a packet capture file that will only capture HTTP protocol data to a file called test.pcap.

Which of the following commands would allow the administrator to accomplish this task?

- A. netcat -p 80 -w test.pcap
- B. tshark -r test.pcap -o http
- C. tcpdump -i eth0 port 80 -r test.pcap
- D. tcpdump -i eth0 port 80 -w test.pcap

**ANSWER: B**

## QUESTION NO: 13

While trying to access a website hosted on the server, the systems administrator receives the following error message:

```
<!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 2.0//EN">  
<html><head>  
<title>403 Forbidden</title>  
</head><body>  
<h1>Forbidden</h1>  
<p>You don't have permission to access /website/index.html  
on this server.</p>  
</body><html>
```

The administrator then performs some diagnostics:



```
/var/www/html:
drwxr-xr-x. root root unconfined_u:object_r:httpd_sys_content_t:s0 website
/var/www/html/website:
-rw-r--r--. root root unconfined_u:object_r:default_t:s0 index.html

SELinux status: enabled
SELinuxfs mount: /sys/fs/selinux
SELinux root directory: /etc/selinux
Loaded policy name: targeted
Current mode: enforcing
Mode from config file: enforcing
Policy MLS status: enabled
Policy deny_unknown status: allowed
Max kernel policy version: 31
```

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

- A. `chown -R www:www /var/www/website`
- B. `chcon -t httpd_sys_content_t /etc/httpd`
- C. `chmod -R 777 /var/www/website`
- D. `restorecon /var/www/html/website/index.html`

**ANSWER: D**

#### QUESTION NO: 14

A junior systems administrator is upgrading a package that was installed on a Red Hat-based system. The administrator is tasked with the following:

- Update and install the new package.

- Verify the new package version is installed.

Which of the following should be done to BEST accomplish these task? (Choose two.)

- A. `yum install`
- B. `yum upgrade`
- C. `rpm -e`
- D. `rpm -qa`
- E. `apt-get`
- F. `apt-get upgrade`

**ANSWER: A D**

**Explanation:**

Reference: [https://access.redhat.com/documentation/en-us/red\\_hat\\_enterprise\\_linux/6/html/deployment\\_guide/ch-yum](https://access.redhat.com/documentation/en-us/red_hat_enterprise_linux/6/html/deployment_guide/ch-yum)

**QUESTION NO: 15**

An administrator is reviewing updates in the master online Git repository and notices a file named `.htaccess`. The file contains passwords and should only be in the administrator's local repository, not the online one. Which of the following would prevent this file from appearing online in the future?

- A. `git commit -m "File Update" -x .htaccess`
- B. `sed -i 's/#Preserve Hidden=True/Preserve Hidden=True/g' .git/config`
- C. `chown nobody:nodoby .htaccess`
- D. `echo ".htaccess" >> .gitignore`

**ANSWER: D****QUESTION NO: 16**

A systems administrator downloads an application's source files, compiles the application, and installs it per the application's installation instructions. When trying to run the application, the system states:

```
$ occmd
```

```
bash: occmd: command not found...
```

Running the `locate` command shows it does exist in the following location:

```
/opt/occmd/bin/occmd
```

Which of the following should the administrator do to allow the command to run properly? (Choose two.)

- A. `sudo ln -s /opt/occmd/bin/occmd /usr/local/bin/occmd`
- B. `echo "export PATH=$PATH:/opt/occmd/bin" >> ~/.bashrc`
- C. `mv /opt/occmd ~/ && ln -s ~/occmd/bin/occmd ./occmd`
- D. `echo "#!/bin/bash \n ${which occmd}" > /usr/bin/occmd.sh`
- E. `sudo mv /opt/occmd/bin/occmd /etc/bin/`
- F. `cd /opt/occmd/bin && chmod +x ./occmd && restorecon -rv *`

**ANSWER: E F****QUESTION NO: 17**

A Linux user needs to create a file named newfile in the home directory that mirrors the contents of the /etc/resolv.conf file.

Which of the following commands would accomplish this task?

- A. `cat /etc/resolv.conf > /home/user/newfile`
- B. `echo /etc/resolv.conf > /home/user/newfile`
- C. `grep /etc/resolv.conf < /home/user/newfile`
- D. `printf /etc/resolv.conf > /home/user/newfile`

**ANSWER: A**

#### QUESTION NO: 18

A technician reviews the following output:

Device	Boot	Start	End	Sectors	Size	Id	Type
/dev/sda1	*	2048	121634815	121632768	58G	83	Linux
/dev/sda2		121636862	125827071	4190210	2G	5	Extended
/dev/sda5		121636864	125827071	4190208	2G	82	Linux swap / Solaris
	total	used	free	shared	buff/cache	available	
mem:	2052060	1545312	66676	33508	440072	305308	
Swap:	0	0	0				

Which of the following commands should the technician execute to ensure the system has the appropriate paging? (Select TWO).

- A. `dd if=/dev/sda5 of=/otp bs=512`
- B. `swapon /dev/sda5`
- C. `mkswap /dev/sda5`
- D. `mkfs.ext3 /dev/sda5`
- E. `iostat /dev/sda5`
- F. `free -m /dev/sda`

**ANSWER: B C**

#### QUESTION NO: 19

A junior systems administrator is tasked with providing the network\_administrators group the ability to perform sudo without prompting for a password. Which of the following steps should the administrator perform to accomplish this task? (Choose two.)

- A. Use visudo to edit the /etc/sudoers file and add network\_administrators to the “wheel” group
- B. Use vi to edit the /etc/sudo file and add network\_administrators to the “wheel” group
- C. Provide all network\_administrators with the “root” account password
- D. Add the network\_administrators ALL=(ALL) NOPASSWD: ALL directive to the /etc/sudoers file
- E. Add the network\_administrators =(ALL) NOEXEC: ALL directive to the /etc/sudoers file

**ANSWER: C D**

#### QUESTION NO: 20

An administrator notices the HISTSIZE variable is 50, using the commands below:

```
HISTSIZE=50
```

```
export HISTSIZE
```

The administrator rechecks the HISTSIZE value using echo HISTSIZE but gets no value. Which of the following commands should the administrator use to retrieve its value?

- A. printenv | grep \$HISTSIZE
- B. echo HISTSIZE
- C. printf HISTSIZE
- D. grep \$HISTSIZE

**ANSWER: B**