



# CompTIA

## Exam Questions XK0-004

CompTIA Linux+ Certification Exam

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**NEW QUESTION 1**

A Linux administration is using a Linux system as a router. During the tests, the administrator discovers that IP packets are not being sent between the configured interfaces.

Which of the following commands enables this feature for IPv4 networks?

- A. `cat /proc/sys/net/ipv4/ip_route > 1`
- B. `echo "1" > /proc/sys/net/ipv4/ip_forward`
- C. `echo "1" > /proc/sys/net/ipv4/ip_route`
- D. `echo "1" > /proc/sys/net/ipv4/ip_net`

**Answer: B**

**NEW QUESTION 2**

A user has connected a Bluetooth mouse to a computer, but it is not working properly. Which of the following commands should the systems administrator use to fix the issue?

- A. `lsmod -i bluetooth`
- B. `insmod bluetooth`
- C. `modprobe -r bluetooth`
- D. `depmod -i bluetooth`

**Answer: C**

**NEW QUESTION 3**

A systems administration team has decided to their systems as immutable instances. They keep the desired state of each of their systems in version control and apply automation whenever they provision a new instance. If there is an issue with one of their servers, instead of troubleshooting the issue they terminate the instance and rebuild it using automation.

Which of the following is this an example of?

- A. Inventory
- B. Orchestration
- C. Infrastructure as code
- D. Agentless deployment

**Answer: C**

**NEW QUESTION 4**

A Linux administrator needs the "tech" account to have the option to run elevated commands as root. Which of the following commands would BEST meet this goal?

- A. `$ su - tech -c "/bin/bash"`
- B. `# usermod -aG wheel tech`
- C. `# sudo -l tech`
- D. `# groupadd -u tech -g root`

**Answer: C**

**NEW QUESTION 5**

An administrator needs to create a shared directory in which all users are able, write, and execute its content but none of the regular users are able to delete any content.

Which of the following permissions should be applied to this shared directory?

- A. `rxwxrwxrwt`
- B. `rxwxrwxrws`
- C. `rxwxrwxrwx`
- D. `rxwxrwxrw*`

**Answer: C**

**NEW QUESTION 6**

A server is almost out of free memory and is becoming unresponsive. Which of the following sets of commands will BEST mitigate the issue?

- A. `free`, `fack`, `partprobe`
- B. `lsuf`, `lvcreate`, `mdadm`
- C. `df`, `du`, `rmmod`
- D. `fdisk`, `mkswap`, `swapon -a`

**Answer: A**

**NEW QUESTION 7**

A Linux administrator needs every new file created on a directory to maintain the group permissions of the same directory. Which of the following commands would satisfy this requirement?

- A. `chmod o+s <directory>`
- B. `chmod u+s <directory>`

- C. chmod +s <directory>
- D. chmod g+s <directory>

**Answer:** D

#### NEW QUESTION 8

The development team has automated their software build process so each time a change is submitted to the source code repository, a new software build is compiled. They are requesting that the Linux operations team look into automating the deployment of the software build into the test environment. Which of the following is the benefit to the development team for implementing deployment automation?

- A. To ensure the build commits are also deployed to the test environment
- B. To enable notifications when builds are deployed to the test environment
- C. To ensure software builds in test are not accidentally deployed to production
- D. To streamline the deployment process for deploying builds into test environments

**Answer:** D

#### NEW QUESTION 9

Which of the following would be the BEST solution for a systems administrator to access the graphical user environment of a Linux machine remotely?

- A. VNC
- B. KDE
- C. X11
- D. RPC

**Answer:** A

#### NEW QUESTION 10

Which of the following BEST describes the purpose of the X11 system?

- A. X11 provides graphical display capabilities
- B. X11 provides command line capabilities
- C. X11 provides networking capabilities
- D. X11 provides telephony capabilities.

**Answer:** A

#### NEW QUESTION 10

A systems administrator wants to deploy several applications to the same server quickly. Each application should be abstracted from the host with its own dependencies and libraries and utilize a minimal footprint.

Which of the following would be BEST in this scenario?

- A. Virtual machines
- B. Type 2 hypervisor
- C. Chroot jails
- D. Containers

**Answer:** D

#### NEW QUESTION 11

A Linux administrator needs to back up the folder /usr/domain, and the output must be a gzip compressed tar. Which of the following commands should be used?

- A. tar -cv domain.tar.gz /usr/domain
- B. tar -cvf /usr/domain domain.tar.gz
- C. tar -czvf domain.tar.gz /usr/domain
- D. tar -cxzv /usr/domain domain.tar.gz

**Answer:** C

#### NEW QUESTION 12

A technical support engineer receives a ticket from a user who is trying to create a 1KB file in the /tmp directory and is getting the following error No space left on device. The support engineer checks the /tmp directory, and it has 20GB of free space.

Which of the following BEST describes a possible cause for this error?

- A. The /tmp directory is not mounted.
- B. The filesystem is formatted with a 4MB block size.
- C. the filesystem ran out of inodes.
- D. The /tmp directory has been set with an immutable attribute.

**Answer:** C

#### NEW QUESTION 14

An administrator has modified the configuration file for a service. The service is still running but is not using the new configured values. Which of the following will BEST remediate this issue?

- A. kill -HUP
- B. init 0
- C. service start
- D. renice -10

**Answer:** A

#### NEW QUESTION 16

A systems administrator needs to retrieve specific fields from a csv file. Which of the following tools would accomplish this task?

- A. awk
- B. sort
- C. print
- D. echo

**Answer:** A

#### NEW QUESTION 18

Which of the following will provide a list of all flash, external, internal, and SSD drives?

- A. lspci
- B. lsmod
- C. lsblk
- D. lsusb

**Answer:** C

#### NEW QUESTION 21

An administrator needs to deploy 100 identical CentOS workstations via PXE boot. Which of the following should the administrator use to minimize the amount of interaction with the consoles needed?

- A. Kickstart script
- B. Ghost image on a distribution server
- C. Hard disk duplicator
- D. Hard disk duplicator
- E. Ubiquity script

**Answer:** A

#### NEW QUESTION 26

A four-drive Linux NAS has been improperly configured. Each drive has a capacity of 6TB, for a total storage capacity of 24TB. To reconfigure this unit to be not pluggable for drive replacement and provide total storage of 11TB to 12TB, which of the following would be the correct RAID configuration?  
D18912E1457D5D1DDCBD40AB3BF70D5D

- A. RAID 01
- B. RAID 03
- C. RAID 10
- D. RAID 50

**Answer:** C

#### NEW QUESTION 27

An analyst is trying to determine which public IP addresses are managed by Company A, but the script is not working correctly.

Which of the following explains what is wrong with the script?

- A. \$(cat ip-list.txt) should be changed to `cat ip-list.txt` in the for statement.
- B. The for should be changed to while in the loop.
- C. The > should be changed to 2> in the do statement.
- D. The -ne flag should be changed to -eq in the if statement.

**Answer:** A

#### NEW QUESTION 31

A Linux administrator needs to remotely update the contents of the [www.comptia.org/contacts](http://www.comptia.org/contacts) URL.

Which of the following commands would allow the administrator to download the current contents of the URL before updating?

- A. curl [www.comptia.org/contacts](http://www.comptia.org/contacts)
- B. dig [www.comptia.org/contacts](http://www.comptia.org/contacts)
- C. apt-get [www.comptia.org/contacts](http://www.comptia.org/contacts)
- D. yum list [www.comptia.org/contacts](http://www.comptia.org/contacts)

**Answer:** A

#### NEW QUESTION 33

An operator finds a user is having issues with opening certain files.

Which of the following commands would allow the security administrator to list and check the SELinux context?

- A. ls -D
- B. ls -a
- C. ls -Z
- D. ls -l

**Answer:** C

#### NEW QUESTION 34

An administrator needs to mount the shared NFS file system testhost:/testvolume to mount point /mnt/testvol and make the mount persistent after reboot.

Which of the following BEST demonstrates the commands necessary to accomplish this task?

- A.
- B.
- C.
- D.

**Answer:** C

#### NEW QUESTION 36

Ann, a junior systems administrator, is required to add a line to the /etc/yum.conf file. However, she receives the following error message when she tries to add the line:

Ann performs some diagnostics to attempt to find the root cause:

Which of the following commands should Ann execute to write content to /etc/yum?

- A. chmod 755 /etc/yum.conf
- B. setfacl -m m:rw /etc/yum.conf
- C. chattr -l /etc/yum.conf
- D. setenforce 0

**Answer:** A

#### NEW QUESTION 41

An administrator reviews the following configuration file provided by a DevOps engineer:

Which of the following would the application parsing this file MOST likely have to support?

- A. YAML
- B. AJAX
- C. JSON
- D. SOAP

**Answer:** C

#### NEW QUESTION 43

A Linux administrator needs to take stock of USB devices attached to the system. Which of the following commands would be BEST to complete this task?

- A. lspci
- B. lsusb
- C. cat /proc/USB
- D. modprobe --usb

**Answer:** B

#### NEW QUESTION 46

An administrator is analyzing a Linux server which was recently hacked.

Which of the following will the administrator use to find all unsuccessful login attempts?

- A. nsswitch
- B. faillock
- C. pam\_tally2
- D. passwd

**Answer:** C

#### NEW QUESTION 51

A member of the production group issues the following command:

```
echo "Monday through Friday" > /production_docs/days
```

The command fails to execute, so the user obtains the following output: drwxr--r-- root production 0 Jun 16 2018 production

-rw-r--r-- production production 4096 Jun 14 2018 days

Which of the following commands should the user execute to BEST fix the issue?

- A. `chmod g+w production` to change the permissions of the days file
- B. `chgrp root production_docs/days` to change the group ownership of the production\_docs/ days file
- C. `chmod g+S production` to set the GUID on the production\_docs directory
- D. `chown production` to change the ownership of the production\_docs directory

**Answer:** D

#### NEW QUESTION 52

A Linux administrator opens a ticket to have an external hard drive mounted. As a security policy, external storage kernel modules are disabled.

Which of the following is the BEST command for adding the proper kernel module to enable external storage modules?

- A. `rmmod /lib/modules/3.6.12-100-generic/kernel/drivers/usb/storage/usb-storage.ko`
- B. `modinfo /lib/modules/3.6.12-100-generic/kernel/drivers/usb/storage/usb-storage.ko`
- C. `depmod /lib/modules/3.6.12-100-generic/kernel/drivers/usb/storage/usb-storage.ko`
- D. `insmod /lib/modules/3.6.12-100-generic/kernel/drivers/usb/storage/usb-storage.ko`

**Answer:** D

#### NEW QUESTION 57

A Linux storage administrator wants to create a logical volume group. Which of the following commands is required to start the process?

- A. `pvcreate`
- B. `vgcreate`
- C. `lvcreate`
- D. `mkfs.xfs`

**Answer:** B

#### NEW QUESTION 59

A systems administrator is configuring options on a newly installed Linux VM that will be deployed to the Pacific time zone. Which of the following sets of commands should the administrator execute to accurately configure the correct time settings?

- A. `cd /etcln -s /usr/share/zoneinfo/US/Pacific localtime`
- B. `cd /usr/localln -s /usr/share/zoneinfo/US/Pacific zoneinfo`
- C. `cd /etc/localln -s /usr/share/zoneinfo/US/Pacific localtime`
- D. `cd /usr/share/localln -s /usr/share/zoneinfo/US/Pacific localecl`

**Answer:** A

#### NEW QUESTION 60

A Linux systems administrator needs to copy the contents of a directory named “working” on the local working system to a folder /var/www/html on a server named “corporate-web”.

Which of the following commands will allow the administrator to copy all the contents to the web server?

- A. `scp -r working/* webuser@corporate-web:/var/www/html`
- B. `tar working/* webuser@corporate-web:/var/www/html`
- C. `cp -r working/* webuser@corporate-web:/var/www/html`
- D. `mv working webuser@corporate-web:/var/www/html`

**Answer:** A

#### NEW QUESTION 63

A systems administrator is enabling quotas on the /home directory of a Linux server. The administrator makes the appropriate edits to the /etc/fstab file and attempts to issue the commands to enable quotas on the desired directory. However, the administrator receives an error message stating the filesystem does not support quotas. Which of the following commands should the administrator perform to proceed?

- A. `mount -o remount /home`
- B. `quotacheck -cg`
- C. `edquota /home`
- D. `quotaon /home`

**Answer:** D

#### NEW QUESTION 64

All users are reporting that they cannot connect to the SFTP server. The administrator runs a scan:

Which of the following would allow the administrator to fix the problem?

- A. Allow SFTP connections on port 22 using /etc/sysconfig/iptables.
- B. Allow SFTP connections on port 20 and 21 using /etc/sysconfig/iptables.
- C. Allow SFTP connections on port 25 using /etc/sysconfig/iptables.
- D. Allow SFTP connections on port 1456 using /etc/sysconfig/iptables.

**Answer:** A

#### NEW QUESTION 68

An engineer is working on a production application deployment that requires changing a web application property file called server.property that is managed by the Git version control system. A cloned copy of the remote repository in which the server.property file exists is on the local desktop computer. The engineer makes appropriate changes to the files, saves it as server.property, and executes git commit -m "changed the property file" server.property. Which of the following commands did the engineer fail to perform?

- A. git init server.property
- B. git merge server.property
- C. git add server.property
- D. git push server.property

**Answer: D**

#### NEW QUESTION 73

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