# 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**
Given that a company's policy states that users cannot install third-party tools on Window servers, which of the following protocols will allow a Linux GUI to connect to a Windows server?

A. VNC
B. NX
C. RDP
D. X11

**Answer:** A


**NEW QUESTION 5**
An administrator is tasked with increasing the size of the volume /dev/vg/lv to 20GB. Which of the following BEST illustrates the steps the administrator should take?

A. vgextend –L20G /dev/vg/lv; resizelv /dev/vg/lv
B. parted –L20G /dev/vg/lv; remount /dev/vg/lv
C. mkfs –L20G /dev/vg/lv; tune2fs /dev/vg/lv
D. lvextend –L20G /dev/vg/lv; resize2fs /dev/vg/lv

**Answer:** D


**NEW QUESTION 6**
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 <package name>
B. yum upgrade
C. rpm –e <package name>
D. rpm –qa
E. apt-get <package name>
F. apt-get upgrade

**Answer:** AD


**NEW QUESTION 7**
A Linux administrator implemented a new HTTP server using the default configuration. None of the users on the network can access the server. If there is no

problem on the network or with the users' workstations, which of the following steps will BEST analyze and resolve the issue?

A. Run netstat to ensure the port is correctly bound, and configure the firewall to allow access on ports 80 and 443
B. Run route to ensure the port is correctly bound, and configure the firewall to allow access on ports 80 and 443
C. Run netcat to ensure the port is correctly bound, and configure a static route to the web to allow access on ports 80 and 443
D. Run route to ensure the port is correctly bound, and configure SELinux to allow access on ports 80 and 443

**Answer:** C


**NEW QUESTION 8**
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. rwxrwxrwt
B. rwxrwxrws
C. rwxrwxrwx
D. rwxrwxrw*

**Answer:** C


**NEW QUESTION 9**
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.



A. Mastered
B. Not Mastered

**Answer:** A

**Explanation:**

## Snippets

| | | |
|---|---|---|
| tar | until | zip |
| egrep | awk | $log |
| "$6" | pgrep | repeat |
| /tmp/tempfile | locate | filename |
| rar | then | "log.[1-6]$" |
| in | done | /var/log |
| for | xz | "$1" |
| sed | gzip | "$log.[1-6]$" |
| while | | |

```
#!/bin/bash

#name: script.sh

find /var/log -type f -maxdepth 1 | grep [ "$1" ]   > /tmp/tempfile

[ for ] filename [ in ] $(cat [ /tmp/tempfile ] )

do

    [ gzip ] $filename

[ done ]
```

**NEW QUESTION 10**
A Linux systems administrator installed a new web server, which failed while attempting to start. The administrator suspects that SELinux is causing an issue and wants to temporarily put the system into permissive mode. Which of the following would allow the administrator to accomplish this?

A. echo SELINUX=PERMISSIVE >> /etc/sysconfig/selinux
B. setenforce 0
C. sestatus 0
D. chcon httpd_sys_content_t /var/

**Answer:** B


**NEW QUESTION 10**
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 14**
A system administrator has set up third-party log aggregation agents across several cloud instances. The systems administrator wants to create a dashboard of failed SSH attempts and the usernames used.
Which of the following files should be watched by the agents?

A. /var/log/audit/audit.log
B. /var/log/kern.log
C. /var/log/monitor
D. /etc/rsyslog.conf

**Answer:** D


**NEW QUESTION 19**
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 21
Which of the following configuration management tools is considered agentless?

A. Ouppet
B. Salt
C. Ansible
D. Chef

**Answer:** C

## NEW QUESTION 23
Ann, a junior Linux administrator, needs to copy software from her local machine to assist in developing a software application on a remote machine with the IP address 192.168.3.22. The file needs to be placed on the /tmp directory. After downloading the RPM to the local machine, which of the following commands would be BEST to use to copy the software?

A. scp ~/software.rpm USER@192.168.3.22:/tmp
B. scp ~/software.rpm USER@192.168.3.22: /tmp
C. wget USER@192.168.3.22:/tmp -f ~/software.rpm
D. scp USER@192.168.3.22 ~/software.rpm :/tmp

**Answer:** C

## NEW QUESTION 24
Which of the following commands would show the default printer on a Linux system?

A. lpr
B. lpq
C. lpstat
D. lspci

**Answer:** B

## NEW QUESTION 26
Which of the following statements BEST represents what the term "agentless" means regarding orchestration?

A. Installation of a tool is not required on the remote system to perform orchestration tasks
B. It facilitates version control when using infrastructure as code during orchestration
C. It automatically removes malware from the remote system during orchestration
D. A tool can only be accessed remotely to perform orchestration tasks

**Answer:** A

## NEW QUESTION 29
Which of the following can be used to boot a DVD from a remote device to initialize a Linux system setup on bare metal hardware as if it is a local DVD?

A. UEFI
B. PXE
C. NFS
D. GRUB

**Answer:** A

## NEW QUESTION 34
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 39
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 43**
A junior Linux administrator is optimizing a system in which an application needs to take priority 0 when running the process. The administrator runs the ps command and receives the following output:

```
PID    PPID   TTY      Time       CMD

8481   2      pts/17   16:40:00   app

9854   0      pts/17   16:40:00   ps
```

Given this scenario, which of the following steps will address this issue?

A. Issue the command ronice –n 0 –p 8481
B. Issue the command renice –p 8481
C. Issue the command renice –p 0 ~n 8481
D. Issue the command renice –n 8481

**Answer:** D

---

**NEW QUESTION 48**
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 52**
Which of the following BEST describes running on a Linux system?

A. Containers only need the namespaces functionally to run on a Linux system available since kernel 2.6.
B. Containers need a hypervisor to run a Linux syste
C. Cgroups namespaces are functionalities used for the kernel but not for running containers.
D. Containers only need the cgroups functionality for running on a Linux syste
E. Namespaces is not a Linux kernel functionality needed for creating and managing containers.
F. Containers use the cgroups and namespaces functionalities to isolate processes and assign hardware resources to each of those isolated processes.

**Answer:** D

---

**NEW QUESTION 56**
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 59**
A Linux administrator has configured a Linux system to be used as a router. The administrator confirms that two network adapters are properly installed and functioning correctly. In addition, the output of the iptables –L command appears to contain a complete firewall configuration.
Which of the following commands does the administrator need to issue for the router to be fully functional?

A. echo "1" > /proc/sys/net/ipv4/ip_forward
B. echo "0" > /proc/sys/net/ipv4/tcp_abort_on_overflow
C. echo "0" > /proc/sys/net/ipv4/max_connections
D. echo "1" > /proc/sys/net/ipv4/ip_default_ttl

**Answer:** A

---

**NEW QUESTION 61**
A Linux server has multiple IPs. A Linux administrator needs to verify if the HTTP server port is bound to the correct IP.
Which of the following commands would BEST accomplish this task?

A. route
B. host

C. nslookup
D. netstat
E. ip

**Answer:** D


**NEW QUESTION 65**
Which of the following is the purpose of the monitoring server role?

A. To aggregate web traffic to watch which websites employees are visiting
B. To collect status and performance information about the servers in an environment
C. To provide user authentication services to a network
D. To provide real-time analysis of potential threats to the organization

**Answer:** B


**NEW QUESTION 67**
After starting a long-running script, a systems administrator needs to verify the frequency of what is filling up the /var partition and kill it because it is consuming too much space.
Which of the following is the correct sequence given only a terminal is available?

A. 1. CTRL-C2. bg3. watch df /var4. CTRL-C5. fg6. CTRL-Z
B. 1. CTRL-C2. fg3. watch df /var4. CTRL-Z5. bg6. CTRL-Z
C. 1. CTRL-Z2. bg3. watch df /var4. CTRL-C5. fg6. CTRL-C
D. 1. CTRL-Z2. bg3. watch df /var4. CTRL-Z5. fg6. CTRL-C

**Answer:** D


**NEW QUESTION 68**
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:

```
root@comptia:~# echo "line" > /etc/yum.conf

-su: /etc/yum.conf: Operation not permitted
```

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

```
root@comptia:~# ls -l /etc/yum.conf

-rw-r—r—1 root root 970 Jan 30 2018 /etc/yum.conf


root@comptia:~# lsattr /etc/yum.conf

----i--------e-- /etc/yum.conf


root@comptia:~# df -i /etc/yum/conf

Filesystem    Inodes    IUsed    IFree    IUse%  Mounted on

/dev/sda1    524288    192861    331427    37%     /
```

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 –I /etc/yum.conf
D. setenforce 0

**Answer:** A


**NEW QUESTION 69**
A systems administrator suspects a process with a PID of 2864 is consuming resources at an alarming rate. The administrator uses the command renice -n -5 -p2864, but it does not solve the issue. Which of the
following commands should the administrator execute to correct the issue?

A. nice -n 5 -p 2864
B. nice -n -5 -p 2864
C. renice -n 10 -p 2864
D. renice -n -10 -p 2864

**Answer:** D


**NEW QUESTION 73**
A junior Linux administrator needs to ensure a service will start on system boot. Which of the following commands should be used to accomplish this task?

A. chkconfig <service> on

B. systemctl <service> bootup
C. service <service> enable
D. crontab install <service>

**Answer:** A


**NEW QUESTION 77**
A junior Linux administrator needs to access production servers using a secure SSH protocol. Which of the following files should contain the public key to gain remote access to the server?

A. ~/ssh/authorized-keys
B. /etc/authorized_keys
C. /etc/sshd/ssh.conf
D. ~/.ssh/authorized_keys

**Answer:** D


**NEW QUESTION 79**
A systems administrator has received reports of intermittent network connectivity to a particular website. Which of the following is the BEST command to use to characterize the location and type of failure over the course of several minutes?

A. mtr www.comptia.org
B. tracert www.comptia.org
C. ping www.comptia.org
D. netstat www.comptia.org

**Answer:** B


**NEW QUESTION 84**
A Linux systems administrator needs to set permissions on an application with the following parameters: The owner of the application should be able to read, write, and execute the application.
Members of the group should be able to read and execute the application. Everyone else should not have access to the application.
Which of the following commands would BEST accomplish these tasks?

A. chmod 710 <application name>
B. chmod 730 <application name>
C. chmod 750 <application name>
D. chmod 760 <application name>

**Answer:** D


**NEW QUESTION 89**
Which of the following server roles would assign a host IP address?

A. DHCP
B. NTP
C. DNS
D. SSH

**Answer:** A


**NEW QUESTION 91**
After installing a new web server, you are unable to browse to the default web page. INSTRUCTIONS
Review all the command output and select the command needed to remediate the issue.
If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

**Commands**

```
[root@webserver log]# getenforce
[root@webserver log]# getsebool -a | grep httpd
[root@webserver log]# netstat -antp
[root@webserver log]# ss -antp
[root@webserver log]# ps -ef | grep nginx
[root@webserver log]# grep avc /var/log/audit/audit.log
[root@webserver log]# more /var/log/web/access_log
[root@webserver log]# more /var/log/web/error_log
[root@webserver log]# ls -la
[root@webserver log]# journalctl -u nginx -l
[root@webserver log]# systemctl status webserver
[root@webserver log]# sealer
```

**Answer**

```
[root@webserver log]#
```

```
systemctl restart nginx
setsebool -P httpd_read_user_content =1
restorecon -rv /home/comptia/html
kill -HUP 3431
sysctl -w net.ipv4 ip_forward = 1
chown -R comptia: /home/comptia/html/
firewall-cmd --zone=public --service=http --permanent
chmod 777 /home/comptia/html/
setfacl -m g:comptia:rwx /home/comptia/html/
cp -R /home/comptia/html /var/www/html
```

**Output**

A. Mastered
B. Not Mastered

**Answer:** A

**Explanation:**

**Commands**

```
[root@webserver log]# getenforce
[root@webserver log]# getsebool -a | grep httpd
[root@webserver log]# netstat -antp
[root@webserver log]# ss -antp
[root@webserver log]# ps -ef | grep nginx
[root@webserver log]# grep avc /var/log/audit/audit.log
[root@webserver log]# more /var/log/web/access_log
[root@webserver log]# more /var/log/web/error_log
[root@webserver log]# ls -la
[root@webserver log]# journalctl -u nginx -l
[root@webserver log]# systemctl status webserver
[root@webserver log]# sealer
```

**Answer**

```
[root@webserver log]#
```

```
systemctl restart nginx
setsebool -P httpd_read_user_content =1
restorecon -rv /home/comptia/html
kill -HUP 3431
sysctl -w net.ipv4 ip_forward = 1
chown -R comptia: /home/comptia/html/
firewall-cmd --zone=public --service=http --permanent
chmod 777 /home/comptia/html/
setfacl -m g:comptia:rwx /home/comptia/html/
cp -R /home/comptia/html /var/www/html
```

**Output**

**NEW QUESTION 95**
Which of the following is the template for the grub.cfg file?

A. /etc/default/grub
B. /etc/grub2.cfg
C. /etc/sysct1.conf
D. /boot/efi

**Answer:** A

**NEW QUESTION 97**
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 101**
A junior administrator of a physical server receives log messages indicating the out-of-memory killer has been active. All memory slots are in use on the motherboard, but additional disk space is available. Space has been allocated for a swap file.
Which of the following should the administrator use to reduce the output of memory messages?

A. free : swapoff / swapfile ; swapon -a
B. mkswap /swapfile; swapon –a
C. fallocate –l 2G /swapfile && swapon –a
D. echo "1" > /proc/meninfo ; swapon / swapfile

**Answer:** A

**NEW QUESTION 102**
A junior Linux administrator is setting up system-wide configuration settings. The goal is to ensure the PATH environment variable includes the following locations for all users who log into a Linux system.

```
/usr/local/bin

/usr/local/sbin
```

The administrator issues the following commands at the terminal:

```
echo $PATH

cat /etc/profile
```

Respectively, the output of these commands is as follows:

```
/usr/bin:/usr/sbin:/sbin:/bin


# /etc/profile: system-wide .profile file for the Bourne shell (sh(1))

# and Bourne compatible shells (bash(1), ksh(1), ash(1), …).


if [ 'id –u' –eg 0 ]; then

PATH="usr/bin:/usr/sbin:/sbin:/bin"

else

PATH="/usr/local/games"

fi

export PATH
```

Given this output, which of the following would be the BEST action for the administrator to perform to address this issue?

A. Update the /etc/profile.d file using a text editor, navigate to the PATH element add the missing locations, and run the bash_completion.sh script to update the changes.
B. Update the /etc/profile file using a text editor, navigate to the PATH element, add the missing locations and run the . /etc/profile command to update the changes.
C. Update the /etc/profile.d file using a text editor, navigate to the PATH element, add the missing locations, and reboot to update the changes.
D. Update the /etc/profile file using a text editor navigate to the PATH element, add the missing locations, and restart the bash process to update the changes.

**Answer:** B

**NEW QUESTION 106**
A systems administrator observes high latency values when reaching a remote web server. Which of the following commands will help determine and isolate issues on the network side?

A. mtr
B. dig
C. netstat
D. route

**Answer:** A

**NEW QUESTION 111**
A system administrator has deployed a Linux server based on an Anaconda process with all packages and custom configurations necessary to install a web server role.
Which of the following could be used to install more Linux servers with the same characteristics?

A. /etc/sysconfig/anaconda/cfg
B. /root/anaconda.auto
C. /root/anaconda-ks.cfg
D. /etc/sysconfig/installation.cfg

**Answer:** C

**NEW QUESTION 115**
All users are reporting that they cannot connect to the SFTP server. The administrator runs a scan:

```
starting nmap 4.11 at 2018-06-16 EST
not shown: 1456 closed ports

PORT        STATE      SERVICE
53/tcp      open       dns
80/tcp      open       http
957/tcp     open       unknown

MAC Address 08:00:00:00:00:00 ( computer systems )
nmap finished = 1 ip address ( 1 host up ) scanned in 1.497 seconds
You have mail in /var/spool/mail/root
```

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 118**
A junior systems administrator created a new filesystem /dev/sda1 with mountpoint /data and added it to the
/etc/fstab for auto-mounting.
When the systems administrator tries to mount the file system, the system refuses. Given the output below:

```
/dev/mapper/VolGroup00-Log-Vol00 / xfs defaults 0 0
/dev/sda1                   /data   xfs      noauto,dev,sync,ro,nosuid      0 0
/dev/mapper/VolGroup00-Log-Vol101 swap     swap     defaults0 0
/dev/sda2                   /mine   ext4     auto,suid,sync,rw,dev   0 0
```

Which of the following steps is necessary?

A. Change the filesystem from /dev/sda1 to /dev/sda2 and reboot.
B. Change the options to auto,dev,sync,rw,nosuid and run the mount -a command.
C. Change the mount point to data and reboot.
D. Change the dump column to 1 and run the mount -a command.

**Answer:** B

**NEW QUESTION 120**
The lead Linux has added a disk, /dev/sdd, to a VM that is running out of disk space. Place the following steps in the correct order from first (1) to last (4) to add the disk to the existing LVM.

A. Mastered
B. Not Mastered

**Answer:** A

**Explanation:**



**NEW QUESTION 121**
A junior Linux administrator is updating local name resolution to support IPv6. The administrator issues the command cat /etc/hosts and receives the following
output: 127.1.1.1 localhost
Which of the following actions should the administrator perform to accomplish this task?

A. Modify the /etc/hosts file, and add the ipv6 localhost entry to the file.
B. Modify the /etc/hosts file, and add the ::1 localhost entry to the file.
C. Modify the /etc/hosts file, and add the ipv4 localhost entry to the file.

D. Modify the /etc/hosts file, and add the 0.0.0.0 localhost entry to the file.

**Answer:** D

**NEW QUESTION 123**
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 127**
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