

Exam Questions XK0-004

CompTIA Linux+ Certification Exam

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NEW QUESTION 1

A Linux administrator needs to switch from text mode to GUI. Which of the following runlevels will start the GUI by default?

- A. Runlevel 3
- B. Runlevel 4
- C. Runlevel 5
- D. Runlevel 6

Answer: C

NEW QUESTION 2

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 3

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 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

A systems administrator needs to append output of `ls -lha /opt` command to the contents of a `test.txt` file. Which of the following commands will accomplish this?

- A. `ls -lha /opt > test.txt`
- B. `ls -lha /opt < test.txt`
- C. `ls -lha /opt >> test.txt`
- D. `ls -lha /opt << test.txt`

Answer: C

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 systems administrator must clean up all application files in the directory `/var/log/app`. However, the company's security policy requires the files to be kept on the backup server for one year. The Linux server has only the `tar` and `bzip2` packages installed.

Which of the following commands will package and compress the files?

- A. `tar -zcvf applicationfiles.tar.bz2 /var/log/app/*`

- B. tar -jcvf applicationfiles.tar.bz2 /var/log/app/*
- C. tar -cvf applicationfiles.tar.bz2 /var/log/app/*
- D. tar -xvf applicationfiles.tar.bz2 /var/log/app/*

Answer: C

NEW QUESTION 8

A Linux administrator is setting up a testing environment and needs to connect to a separate testing server using the production server name. The administrator needs to override the hostname that the DNS is returning in order to use the test environment. Which of the following commands should be run on each of the testing systems to BEST meet this goal?

- A. # hostnamectl set-hostname "192.168.1.100 production.company.com"
- B. # grep -i IP "\${ip addr show} production.company.com" > /etc/resolv.conf
- C. # ip addr add 192.168.1.100/24 dev eth0 && rndc reload production.company.com
- D. # echo "192.168.1.100 production.company.com" >> /etc/hosts

Answer: A

NEW QUESTION 9

A systems administrator is unable to reach other devices on the network and the Internet. The server is configured with the IP address 192.169.1.50/24 on eth0. The server's router is 192.168.1.1. The administrator reviews the output of route -n:

Kernel IP routing table

Destination	Gateway	Genmask	Flags	Metric	Ref	Use	Iface
0.0.0.0	192.168.2.1	0.0.0.0	UG	1024	0	0	eth0
192.168.1.0	0.0.0.0	255.255.255.0	U	0	0	0	eth0

Which of the following commands should the administrator run to correct the issue?

- A. route del default gw 192.168.2.1 eth0; route add default gw 192.168.1.1 eth0
- B. route add -net 192.168.10.0 netmask 255.255.255.0 gw 192.168.2.1 eth0
- C. route add 192.168.1.1 default 192.168.1.50 eth0
- D. route host gw 192.168.1.1 eth0

Answer: B

NEW QUESTION 10

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 10

A Linux server needs to be accessed, but the root password is not available.

Which of the following would BEST allow an administrator to regain access and set a new known password at the same time?

- A. Boot into a single-user mode and reset the password via the passwd command.
- B. Boot into a single-user mode and reset the password by editing the /etc/passwd file.
- C. Boot into a single-user mode and reset the password by editing the /etc/shadow file.
- D. Boot into a single-user mode and reset the password via the chage command.

Answer: A

NEW QUESTION 14

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. lsof, lvcreate, mdadm
- C. df, du, rmmod
- D. fdisk, mkswap, swapon -a

Answer: A

NEW QUESTION 15

A Linux systems administrator is setting up SSH access with PKI for several using their newly created RSA keys. Which of the following MOST securely achieves this task?

- A. Use curl to copy each user's public key file to the respective system
- B. Use cp to copy each user's public key file to the respective system

- C. Use ssh-copy-id to copy each user's public key file to the respective system
- D. Use ssh-copy-id to copy each user's private key file to the respective system

Answer: C

NEW QUESTION 20

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 25

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 28

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 30

Given the output below:

```
drwxr-xr-x. 4096 user1 user1 Documents
drwxr-xr-x. 4096 user1 user1 Music
lrwxrwxrwx. 1 root root MyPhoto.jpg ->/Pictures/photo.jpg
drwxr-xr-x. 4096 user1 user1 Pictures
-rw-r--r--. 256 user1 user1 text.txt
-rw-r--r--. 35 user1 user1 tmp.tmp
```

Which of the following commands can be used to remove MyPhoto.jpg from the current directory?

- A. unlink ./MyPhoto.jpg
- B. del Pictures/photo.jpg
- C. rm -rf ./Pictures
- D. rm -f MyPhoto.jpg
- E. ln -rm ./Pictures/photo.jpg

Answer: E

NEW QUESTION 35

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 39

Which of the following is modified to reconfigure the boot environment?

- A. grub-mkconfig
- B. grub.cfg
- C. update-grub
- D. grub2-mkconfig

Answer: C

NEW QUESTION 43

Which of the following is the purpose of the vmlinux file on a Linux system?

- A. To prevent a Linux kernel panic
- B. To start a Linux virtual machine
- C. To provide the executable kernel for the system
- D. To enable resource access to the network

Answer: C

NEW QUESTION 47

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 51

Which of the following is the BEST reason for not storing database files in the /var directory?

- A. The /var filesystem is not fast enough for database files.
- B. The number of files in /var is limited by the available inodes.
- C. Files in /var do not have strict file permissions.
- D. If log files fill up /var, it might corrupt the database.

Answer: D

NEW QUESTION 56

In order to comply with new security policies, an administrator needs to prevent the SSH server from using insecure algorithms. Which of the following files should be edited to accomplish this?

- A. /etc/ssh/sshd_config
- B. /etc/ssh/ssh_config
- C. ~/.ssh/ssh_config
- D. /etc/ssh/known_hosts

Answer: A

NEW QUESTION 58

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 62

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 66

An administrator has written the following Bash script:

```
/home/user/test.sh
```

```
#!/usr/bin/sh
for i in `cat /home/user/iplist.txt`
do
    nslookup $i
done
echo
```

All necessary files exist in the correct locations. However, when the administrator executes /home/user/test.sh the following error is received:

No such file or directory

Which of the following is the MOST likely cause of the error?

- A. The shebang points to the wrong path.
- B. The script is not executable.
- C. The formatting of the file is incorrect.
- D. Nslookup is not installed.

Answer: A

NEW QUESTION 70

A junior Linux administrator is trying to verify connectivity to the remote host host1 and display round-trip statistics for ten ICMP.

Which of the following commands should the administrator execute?

- A. ping -c 10 host1
- B. traceroute -c 10 host1
- C. netstat host1
- D. pathping -c 10 host1

Answer: A

NEW QUESTION 72

A Linux administrator is using a public cloud provider to host servers for a company's website. Using the

provider's tools, the administrator wrote a JSON file to define how to deploy the servers. Which of the following techniques did the administrator use?

- A. Infrastructure as code
- B. Build automation
- C. Platform as a service
- D. Automated configuration

Answer: B

NEW QUESTION 73

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 76

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 78

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 83

A systems administrator needs to install a new piece of hardware that requires a new driver. The driver should be manually installed. Which of the following describes the order of commands required to obtain module information, install the module, and check the log for any errors during module installation?

- A. lsmod, modprobe, modinfo
- B. modinfo, insmod, modprobe
- C. modinfo, insmod, dmesg
- D. lsmod, insmod, dmesg

Answer: A

NEW QUESTION 85

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.

```
# mkdir -p /mnt/testvol

# echo "testhost:/testvolume          /mnt/testvol      nfs defaults 0 0" >> /etc/fstab

# mount -a
```
- B.

```
# mkdir /mnt/testvol

# mount testhost:/testvolume /mnt/testbol
```
- C.

```
# mkdir testhost:/testvolume at /mnt/testvol

# mount -a
```
- D.

```
# mkdir /mnt/testvol

# echo "testhost:/testvolume /mnt/testvol" >> /mnt/mnttab

# mount -a
```

Answer: C

NEW QUESTION 90

A systems administrator configured a new kernel module, but it stopped working after reboot. Which of the following will allow the systems administrator to check for module problems during server startup?

- A. lsmod
- B. modprobe
- C. modinfo
- D. dmesg

Answer: C

NEW QUESTION 93

An administrator notices that a long-running script, /home/user/script.sh, is taking up a large number of system resources. The administrator does not know the script's function. Which of the following commands should the administrator use to minimize the script's impact on system resources?

- A. renice
- B. kill
- C. bg
- D. nohup

Answer: A

NEW QUESTION 98

An administrator needs to see the type of CPU that a server is running. Which of the following files contains this information?

- A. /proc/cpuinfo
- B. /etc/devices/info.conf
- C. /dev/proc/cpu
- D. /sys/dev/cpuinfo

Answer: A

NEW QUESTION 100

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 102

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 105

A user wants to list the lines of a log, adding a correlative number at the beginning of each line separated by a set of dashes from the actual message. Which of the following scripts will complete this task?

- A.

```
#!/bin/bash
LOG='/var/log/auth.log'
nrlines=0
while read LINE
do
    nrlines=$((nrlines + 1))
    echo $nrlines --- ${LINE}
done < ${LOG}
```
- B.

```
#!/bin/bash
LOG='/var/log/auth.log'
nrlines=0
while read LINE
do
    nrlines=$((nrlines + 1))
    echo $nrlines --- ${LINE}
done
```
- C.

```
#!/bin/bash
LOG='/var/log/auth.log'
nrlines=0
while read LINE
do
    nrlines=$((nrlines + 1))
    echo $nrlines --- ${LINE}
done < ${LOG}
```
- D.

```
#!/bin/bash
LOG='/var/log/auth.log'
nrlines=0
while read LINE
do
    nrlines=$((nrlines + 1))
    echo $nrlines --- ${LINE}
done < ${LOG}
```

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

Answer: D

NEW QUESTION 106

A junior Linux administrator is installing patches using YUM. The administrator issues the following command:
`yum list installed`

The output of the command is as follows:

```
Loaded plugins: fastmirror, langpacks
Existing lock /var/run/yum.pid: another copy is running as pid 5180.
Another app is currently holding the yum lock; waiting for it to exit...
The other application is yum
Memory: 26 M RSS (r415 MB VSZ)
Started: Fri Jun 15 08:05:15 2018 - 2:18:48 ago
State: Traced/Stopped pid: 5180
```

Given this scenario and the output, which of the following should the administrator do to address this issue?

- A. `renice -n 9 -p 5180`

- B. killall yum
- C. ps -ef | grep yum
- D. top | grep yum

Answer: C

NEW QUESTION 110

A Linux systems administrator wants the ability to access systems remotely over SSH using RSA authentication. to which of the following files should the RSA token be added to allow this access?

- A. authorized_keys
- B. ~/.ssh/ssh_config
- C. id_rsa.pub
- D. known_hosts

Answer: C

NEW QUESTION 113

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 117

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 118

An administrator is troubleshooting an application that has failed to start after the server was rebooted. Noticing the data volume is not mounted, the administrator attempts to mount it and receives this error:

```
[root@localhost comptia]# mount /dev/datavg/datalv /data
mount: special device /dev/datavg/datalv does not exist
```

Upon checking the logical volume status, the administrator receives this information:

```
[root@localhost comptia]# lvs
LV VG Attr LSize Pool Origin Data% Meta% Move Log Cpy%Sync Convert
root centos -wi-ao---- <6.20g
swap centos -wi-ao---- 820.00m
datalv datavg -wi----- 500.00m
[root@localhost comptia]#
```

Which of the following can be said about the data logical volume, and how can this problem be resolved?

- A. The logical volume is not activ
- B. The administrator should make it active with lvchange -ay /dev/ datavg/datalv and then mount it.
- C. The logical volume file system has become corrupte
- D. The administrator should repair it with xfs_repair/dev/datavg/datalv and then mount it.
- E. The logical volume is OK but the /dev special files are missin
- F. The administrator should recreate them by running /dev/MAKEDEV.
- G. The file system is read-onl
- H. The administrator should remount it as read-write with the command mount - o remount.rw /data.

Answer: A

NEW QUESTION 120

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 125

Which of the following configuration files should be modified to disable Ctrl-Alt-Del in Linux?

- A. /etc/inittab
- B. ~/.bash_profile
- C. /etc/securetty
- D. /etc/security/limits.conf

Answer: A

NEW QUESTION 127

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 128

A junior administrator needs to unload an older video kernel module. Which of the following commands would BEST accomplish this task?

- A. modprobe
- B. insmod
- C. rmmod
- D. chmod

Answer: A

NEW QUESTION 130

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 135

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 138

A technician wants to secure a sensitive workstation by ensuring network traffic is kept within the local subnet. To accomplish this task, the technician executes the following command:

```
echo 0 > /proc/sys/net/ipv4/ip_default_ttl
```

Which of the following commands can the technician use to confirm the expected results? (Choose two.)

- A. `tcpdump`
- B. `traceroute`
- C. `route`
- D. `iperf`
- E. `ip`
- F. `arp`

Answer: CF

NEW QUESTION 141

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