

CompTIA

Exam Questions XK0-004

CompTIA Linux+ Certification Exam



NEW QUESTION 1

Given that a company's policy states that users cannot install third-party tools on Windows 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 2

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 3

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 4

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 5

A Linux systems administrator is setting up SSH access with PKI for several users 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 6

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 7

A systems administrator wants to know the current status of a series of `dd` jobs that were started in the background three hours ago. Which of the following commands will achieve this task?

- A. `sudo killall -HUP dd`
- B. `sudo killall dd`
- C. `sudo killall -TERM dd`

D. sudo killall -USR1 dd

Answer: D

NEW QUESTION 8

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 9

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

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 10

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 11

Which of the following is the purpose of the vmlinuz 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 13

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 18

A systems administrator has finished building a new feature for the monitoring software in a separate Git branch. Which of the following is the BEST method for adding the new feature to the software's master branch?

- A. Merge the changes from the feature branch to the master branch.
- B. Save the changes to the master branch automatically with each Git commit.
- C. Clone the feature branch into the master branch.
- D. Pull the changes from the feature branch into the master branch.

Answer: A

NEW QUESTION 20

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 22

A Linux administrator installed a new network adapter and temporarily disabled the network service from starting on boot. The partial output of chkconfig is as follows:

```
network 0:off 1:off 2:off 3:off 4:off 5:off 6:off
```

Which of the following commands BEST describes how the administrator should re-enable the network service?

- A. chkconfig --level 0 network on
- B. chkconfig --level 0-6 network on
- C. chkconfig --level 6 network on
- D. chkconfig --level 12 network on
- E. chkconfig --level 345 network on

Answer: E

NEW QUESTION 25

A junior systems administrator is creating a cron job. The cron job requirements are as follows: Run the hello.sh script every hour (24 times in one day). Run it on Monday only.

Given this scenario, which of the following crontab options should be configured to meet these requirements?

- A. 0 *** 1 hello.sh
- B. 0 24 ** Monday hello.sh
- C. 24 *** Monday hello.sh
- D. 1 *** 0 hello.sh

Answer: C

NEW QUESTION 28

Which of the following BEST describes running on a Linux system?

- A. Containers only need the namespaces functionality to run on a Linux system available since kernel 2.6.
- B. Containers need a hypervisor to run a Linux system
- 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 system
- 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 29

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?

D18912E1457D5D1DDCDBD40AB3BF70D5D

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

Answer: C

NEW QUESTION 33

A Linux administrator needs to remotely update the contents of the `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`
- B. `dig www.comptia.org/contacts`
- C. `apt-get www.comptia.org/contacts`
- D. `yum list www.comptia.org/contacts`

Answer: A

NEW QUESTION 36

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 38

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 40

An administrator needs to change the IP address on a server remotely. After updating the configuration files, a network restart is needed. However, the administrator fears that when the network connection drops, the network restart script will be killed before the new IP address has been set. Which of the following commands would prevent the script from being killed?

- A. `nohup service network restart`
- B. `service network restart &`
- C. `echo "service network restart" | at now`
- D. `dg service network restart`

Answer: A

NEW QUESTION 44

A new corporate policy states that Bluetooth should be disabled on all company laptops. Which of the following commands would disable the use of Bluetooth?

- A. `echo "blacklist bluetooth" > /etc/modprobe.d/blacklist-bluetooth`
- B. `echo "kill bluetooth" > /etc/modprobe.d/kill-bluetooth`
- C. `echo "modprobe bluetooth" > /etc/modprobe.d/modprbe-bluetooth`
- D. `echo "rmod bluetooth" > /etc/modprobe.d/rmmod-bluetooth`

Answer: C

NEW QUESTION 49

While creating a file on a volume, the Linux administrator receives the following message: No space left on device. Running the `df -m` command, the administrator notes there is still 50% of usage left. Which of the following is the NEXT step the administrator should take to analyze the issue without losing data?

- A. Run the `df -i` command and notice the inode exhaustion
- B. Run the `df -h` command and notice the space exhaustion
- C. Run the `df -B` command and notice the block size
- D. Run the `df -k` command and notice the storage exhaustion

Answer: A

NEW QUESTION 54

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 57

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 60

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 63

An administrator needs to see a list of the system user's encrypted passwords. Which of the following Linux files does the administrator need to read?

- A. `/etc/shadow`
- B. `/etc/skel`
- C. `/etc/passwd`
- D. `/etc/pw`

Answer: C

NEW QUESTION 64

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 65

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 68

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	Answer
<pre>[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</pre>	<pre>[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</pre>
Output	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Commands	Answer
<pre>[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</pre>	<pre>[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</pre>
Output	

NEW QUESTION 70

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 75

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 79

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 82

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 85

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 89

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