➢ **Vendor:** CompTIA

➢ **Exam Code:** XK0-004

➢ **Exam Name:** CompTIA Linux+ Certification Exam

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**QUESTION 203**
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:** EF

**QUESTION 204**
A Linux administrator tries to ping a hostname in a network but receives the message: hostname not . The administrator is sure the name exists on the network and wants to verify if the DNS server is found correctly configured on the client. Which of the following files should the administrator use to verify this information?

A.  /etc/named.conf
B.  /etc/resolv.conf
C.  /etc/nsswitch.conf
D.  /etc/network

**Answer:** B

**QUESTION 205**
Users are unable to connect to a server using HTTPS. The administrator runs the following command on the remote system:

```
$ netstat
tcp  0    0    0.0.0.0:80     0.0.0.0:* LISTEN
tcp  0    0    0.0.0.0:443    0.0.0.0:* LISTEN
tcp  0    0    0.0.0.0:22     0.0.0.0:* LISTEN
```

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Then, the administrator runs the following command from a local workstation:

```
$ nmap
PORT  STATE
80    open
443   closed
22    open
```

Which of the following steps should the administrator take to address the issue?

A. Start the application to run on port 443
B. Configure the application to run on an active port
C. Allow port 443 through the firewall
D. Update the self-signed certificate

**Answer:** C

**QUESTION 206**
A Linux administrator is restoring the SELinux contexts on an entire system. Which of the following commands is the BEST option to complete this task?

A. setenforce 0 && reboot
B. setfacl -bR / && reboot
C. touch /.autorelabel && reboot
D. restorecon / && reboot

**Answer:** D

**QUESTION 207**
An administrator has a CSV file named hosts.csv. The contents of hosts.csv include the following:
```
192.168.2.57,lnx1prd.example.com,Linux,Production
192.168.2.58,lnx2prd.example.com,Linux,Production
192.168.1.4,server15.example.com,Windows,Development
```
The administrator needs to create a second comma-separated list of only the Linux server IP addresses. Which of the following commands would achieve this need?

A. `for ip in $(grep "Linux" hosts.csv | cut -d"," -f1); do echo -n "$ip,"; done`
B. `for ip in $( cut -d"," -f1 hosts.csv | grep "Linux"); do echo -n "$ip,"; done`
C. `for ip in $(grep "Linux" hosts.csv | sed "/$1//'); do echo -n "$ip,"; done`
D. `for ip in $(awk -F, '{print $1}' hosts.csv | grep "Linux"); do echo -n "$ip,"; done`

**Answer:** C

**QUESTION 208**
An administrator is installing a Linux VM on a personal hypervisor. The administrator wants to have the VM's IP address on the same network as the hypervisor host so the VM has the same network properties as the physical interface of the host. To which of the following should the administrator set the network properties?

A. Host-only network

B.  NAT network
C.  Bridge network
D.  Overlay network

**Answer:** C

**QUESTION 209**
A raw VM image is being compressed with bzip2 and copied to a flash drive at /dev/hdb for off-site use by the marketing department. Which of the following command lines accomplishes this task?

A.  mv /vm/mkgt.img | bzip2 /dev/hdb/mkgt.img.bz2
B.  bzip2 -c /vm/mktg.img | dd of=/dev/hdb
C.  cp /vm/mktg.img | bzip2 /dev/hdb/mktg.img.bz2
D.  cp -a -r /vm/mktg.img bzip2 /dev/hdb/mktg.img.zip

**Answer:** C

**QUESTION 210**
A systems administrator wants to install a new application that requires the newmod kernel module. Which of the following commands should the systems administrator use?

A.  lsof newmod
B.  modinfo newmod
C.  lsmod newmod
D.  modprobe newmod

**Answer:** B

**QUESTION 211**
A server, which is used to collect data about the network and datacenter environment via SNMP, is running out of space. Which of the following should the server administrator implement to reduce disk utilization?

A.  journald
B.  Snapshots
C.  logrotate
D.  tar -cvf

**Answer:** B

**QUESTION 212**
In which of the following directories is the vmlinuz file located?

A.  /boot
B.  /etc
C.  /bin
D.  /proc

**Answer:** A

**QUESTION 213**
A systems administrator is implementing disk quotas on /home. During the process, the administrator receives the following error:
`Cannot find filesystem to check or filesystem not mounted with user quota option.`
Which of the following is the correct order of steps the administrator should follow to resolve this error?

A. 1. Verify if /home has quotas enabled in /etc/fstab and, if not, enable it.
   2. Remount /home.
   3. Create the quota database files and generate the disk usage table.
   4. Assign user quota policies.
B. 1. Create the quota database files and generate the disk usage table.
   2. Verify if /home has quotas enabled in /etc/fstab and, if not, enable it.
   3. Remount /home.
   4. Assign user quota policies.
C. 1. Verify if /home has quotas enabled in /etc/fstab and, if not, enable it.
   2. Create the quota database files and generate the disk usage table.
   3. Remount /home.
   4. Assign user quota policies.
D. 1. Assign user quota policies.
   2. Verify if /home has quotas enabled in /etc/fstab and, if not, enable it.
   3. Create the quota database files and generate the disk usage table.
   4. Remount /home.

**Answer:** A

**QUESTION 214**
A Linux user wants to give read-only permissions to a directory and its contents. Which of the following commands will allow the user to accomplish this task?

A.  chmod -R 400 /new_directory/
B.  chmod -R 600 /new_directory/
C.  chmod 400 /new_directory/
D.  chmod 600 /new_directory/

**Answer:** D

**QUESTION 215**
A Linux administrator needs to remove a USB drive from a system. The unmount command fails, stating the device is busy. Which of the following commands will show the reason for this error?

A.  lsusb | grep /mnt/usb
B.  mount | grep /mnt/usb
C.  ps aux | grep /mnt/usb
D.  lsof | grep /mnt/usb

**Answer:** D

**QUESTION 216**
A Linux systems administrator is troubleshooting an issue with the /home directory running out of space. The administrator needs to determine which /home directories are using the most space. Which of the following commands should be used?

A.  du
B.  lvs
C.  df
D.  fsck

**Answer:** A