

## XK0-004 Dumps

### 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 Linux administrator is testing connectivity to a remote host on a shared terminal. The administrator wants to allow other users to access the terminal while the command is executing.

Which of the following commands should the administrator use?

- A. `bg ping remotehost`
- B. `fg ping remotehost`
- C. `ping remotehost < results`
- D. `ping remotehost &`

**Answer: C**

#### NEW QUESTION 3

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 4

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 5

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 6

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 7

A junior Linux administrator is installing a new application with CPU architecture requirements that have the following specifications:

x64 bit 3.0GHz speed

Minimum quad core

The administrator wants to leverage existing equipment but is unsure whether the requirements of these systems are adequate. The administrator issues the following command `cat/proc/cpuinfo`. The output of the command is as follows:

```
processor:          0
vendor_id:         GenuineIntel
cpu_family:        x64
model:             58
model name:        Intel (R) Core(TM) i7-3687U @2.10 GHz
stepping:          9
microcode:         0x1c
cpu MHz:           2593.84
cache size:        4096KB
siblings:          1
core id:           0
cpd cores:         4
```

Which of the following is the recommended course of action the administrator should take based on this output?

- A. Install the application, as the system meets the application requirements
- B. Procure new equipment that matches the recommended specifications
- C. Recompile the Linux kernel to support the installation.
- D. Reconfigure lib modules to support the new application.

**Answer:** A

#### NEW QUESTION 8

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 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

An administrator is attempting to block SSH connections to 192.168.10.24 using the Linux firewall. After implementing a rule, a connection refused error is displayed when attempting to SSH to 192.168.10.24.

Which of the following rules was MOST likely implemented?

- A. iptables -A -p tcp -d 192.168.10.24 -dropt 22 -j REJECT
- B. iptables -A -p tcp -d 192.168.10.24 -dropt 22 -j DROP
- C. iptables -A -p tcp -d 192.168.10.24 -dropt 22 -j FORWARD
- D. iptables -A -p tcp -d 192.168.10.24 -dropt 22 -j REFUSE

**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 11

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 12

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 13

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 15

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 16

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 20

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 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 30**

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 32**

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 34**

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 38**

A junior system administrator had trouble installing and running an Apache web server on a Linux server. You have been tasked with installing the Apache web server on the Linux server and resolving the issue that prevented the junior administrator from running Apache.

**INSTRUCTIONS**

Install Apache and start the service. Verify that the Apache service is running with the defaults. Typing "help" in the terminal will show a list of relevant commands. If at any time you would like to bring back the initial state of the simulation, please click the Reset All button. CentOS Command Prompt

```
[root@centos7]#
```

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

```
[root@tecmint ~]#
[root@tecmint ~]# yum install httpd
Loaded plugins: fastestmirror, refresh-packagekit
Setting up Install Process
Loading mirror speeds from cached hostfile
 * base: centos.excellmedia.net
 * epel: epel.scopesky.iq
 * extras: centos.excellmedia.net
 * updates: centos-hn.viettelidc.com.vn
Resolving Dependencies
There are unfinished transactions remaining. You might consider running yum-comp
lete-transaction first to finish them.
```

```
[root@tecmint ~]#
[root@tecmint ~]# systemctl start httpd
[root@tecmint ~]#
[root@tecmint ~]# systemctl enable httpd
Created symlink from /etc/systemd/system/multi-user.target.wants/httpd.service to /usr/lib/systemd/system/htt
[root@tecmint ~]#
[root@tecmint ~]# systemctl status httpd
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; vendor preset: disabled)
   Active: active (running) since Tue 2017-06-27 06:51:35 EDT; 14s ago
     Docs: man:httpd(8)
           man:apachectl(8)
  Main PID: 17981 (httpd)
    Status: "Total requests: 0; Current requests/sec: 0; Current traffic:  0 B/sec"
   CGroup: /system.slice/httpd.service
           └─17981 /usr/sbin/httpd -DFOREGROUND
             └─17982 /usr/sbin/httpd -DFOREGROUND
               └─17983 /usr/sbin/httpd -DFOREGROUND
                 └─17984 /usr/sbin/httpd -DFOREGROUND
                   └─17985 /usr/sbin/httpd -DFOREGROUND
                     └─17986 /usr/sbin/httpd -DFOREGROUND

Jun 27 06:51:35 tecmint systemd[1]: Starting The Apache HTTP Server...
Jun 27 06:51:35 tecmint httpd[17981]: AH00558: httpd: Could not reliably determine the server's fully qualifi
Jun 27 06:51:35 tecmint systemd[1]: Started The Apache HTTP Server.
[root@tecmint ~]# █
```

NEW QUESTION 41

Find the file named core and remove it from the system. INSTRUCTIONS

Type "help" to display a list of available commands.

If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

```
[comptia@localhost ~]$
```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

```
root@tryit-sought:~# find . -type f -name "FILE-TO-FIND" -exec rm -f {} \;
root@tryit-sought:~# find . -type f -core "FILE-TO-FIND" -exec rm -f {} \;
```

**NEW QUESTION 42**

A Linux system is running normally when the systems administrator receives an alert that one application spawned many processes. The application is consuming a lot of memory, and it will soon cause the machine to become unresponsive. Which of the following commands will stop each application process?

- A. kill 'pidof application'
- B. killall application
- C. kill -9 'ps -aux | grep application'
- D. pkill -9 application

**Answer:** B

**NEW QUESTION 44**

A Linux administrator wants to obtain a list of files and subdirectories in the /etc directory that contain the word "services". Once the files and subdirectories are discovered, they should be listed alphabetically in the /var/tmp/foundservices file. Which of the following shell scripts will accomplish this task?

- A. #/bin/bashfind /etc -name services | sort > /var/tmp/foundservices
- B. #/bin/bashlocate /etc -sort -name services > /var/tmp/foundservices
- C. #/bin/bashfind -name services -sort </var/tmp/foundservices
- D. #/bin/bashfind /etc -name services -sort > /var/tmp/foundservices

**Answer:** B

**NEW QUESTION 46**

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 48

A Linux administrator retrieved a repository of files from a Git server using git clone. The administrator wants to see if a configuration file was added to the repository. Which of the following Git arguments should be used to see the recent modifications?

- A. fetch
- B. log
- C. init
- D. pull

**Answer: D**

#### NEW QUESTION 49

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 54

A user attempts to use the mount -a command but gets the following error: mount: mount point /mnt/test does not exist. Which of the following commands best describes the action the Linux administrator should take NEXT?

- A. mount -a /mnt/test
- B. mkdir -p /mnt/test
- C. mdadm -p /mnt/test
- D. mkfs /mnt/test
- E. touch /mnt/test

**Answer: B**

#### NEW QUESTION 57

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 61

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 64

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 69**

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 74**

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 active
- 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 corrupt
- 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 missing
- F. The administrator should recreate them by running `/dev/MAKEDEV`.
- G. The file system is read-only
- H. The administrator should remount it as read-write with the command `mount -o remount.rw /data`.

**Answer: A**

**NEW QUESTION 76**

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 79**

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 81**

Which of the following server roles would assign a host IP address?

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

**Answer: A**

**NEW QUESTION 82**

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 86**

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 localectl

**Answer:** A

**NEW QUESTION 91**

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 94**

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/meminfo ; swapon / swapfile

**Answer:** A

**NEW QUESTION 99**

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-Vol100 / 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 102**

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 105**

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