

XK0-004 Dumps

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 administrator has installed a web application firewall in front of a web server running on HTTP port 8080 and successfully started the HTTP server. However, after opening the application URL in an Internet browser, the administrator discovered that the application does not work. The administrator performed the following diagnostic steps:

Output of `sysctl -a` command:

```
kernel.sched_child_runs_first = 0
kernel.panic = 0
kernel.ftrace_enabled = 1
kernel.sysrq = 1
net.ipv4.icmp_echo_ignore_all = 0
```

Output of `iptables -L` command:

```
Chain INPUT (policy ACCEPT)

target    prot opt source destination
ACCEPT    tcp  --  anywhere anywhere    tcp dpt:webcache

Chain FORWARD (policy ACCEPT)

target    prot opt source destination
ACCEPT    tcp  --  anywhere anywhere    dpt:webcache

Chain OUTPUT (policy ACCEPT)

target    prot opt source destination
```

Output of `netstat -nltp | grep "8080"`:

```
tcp    0.0.0.0:8080    0.0.0.0*    Listen    12801/httpd
```

Which of the following is the NEXT step the administrator should perform to permanently fix the issue at the kernel level?

- A. `sysctl -w net.ipv4.ip_forward=1` then run `sysctl -w /etc/sysctl.conf` to enable the change
- B. Edit `/etc/sysctl.conf` file and add `net.ipv4.ip_forward = 1` then run `sysctl -p /etc/sysctl.conf` to enable the change
- C. Add iptables rule `iptables -A INPUT -m state --state NEW -p tcp --dport 8080 -j` then restart httpd daemon
- D. Add iptables rule `iptables -A FORWARD -m state --state NEW -p tcp --dport 8080 -j ACCEPT` then restart httpd daemon

Answer: D

NEW QUESTION 3

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 4

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 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 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 7

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 8

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 9

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 10

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 10

A Linux administrator wants to fetch a Git repository from a remote Git server. Which of the following is the BEST command to perform this task?

- A. git checkout
- B. git clone
- C. git merge
- D. git config

Answer: B

NEW QUESTION 14

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 19

A networked has been crashing intermittently. A Linux administrator would like to write a shell script that will attempt to ping the server and email an alert if the server fails to respond. The script will later be scheduled via cron job.

Which of the following scripts would BEST accomplish this task?

A

```
SERVER='192.168.1.50'
RESULT='ping -C 2 $SERVER'
if [ ! $RESULT ]; then
    echo "Server is down" | mail -s "Server down" admin@email_address.com
fi
```

B

```
SERVER="192.168.1.50"
ping -c 2 $SERVER >/dev/null 2>/dev/null
if [ $? -ge 1 ]; then
    echo "Server is down" | mail -s "Server down" admin@email_address.com
fi
```

C

```
SERVER="192.168.1.50"

RESULT='ping -c 2 $SERVER >/dev/null 2>/dev/null'

while [ $RESULT != 1 ];
do
    echo "Server is down" | mail -s "Server down" admin@email_address.com
done
```

D

```
SERVER="192.168.1.50"

ping -c 2 $SERVER >/dev/null 2>/tmp/fail.log

if [ -f /tmp/fail/log ]; then
    echo "Server is down" | mail -s "Server down" admin@email_address.com
fi
```

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

Answer: D**NEW QUESTION 22**

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 26**

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 31**

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 36**

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 37**

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 39

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 44

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 47

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 51

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 55

A Linux systems administrator needs to provision multiple web servers into separate regional datacenters. The systems architect has instructed the administrator to define the server infrastructure using a specific tool that consumes a text-based file.

Which of the following is the BEST reason to do this?

- A. To document the infrastructure so it can be included in the system security plan
- B. To ensure the administrator follows the planning phase of the system development life cycle
- C. To define the infrastructure so it can be provisioned consistently with minimal manual tasks
- D. To validate user requirements have been met within each regional datacenter for compliance

Answer: B

NEW QUESTION 59

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 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 66

An administrator reviews the following configuration file provided by a DevOps engineer:

```
Tasks:

- name:Install php-fpm from repo
  yum:
    name: php-fpm
    state: present
- name:Install mysql from repo
  yum:
    name: mysql-server
    state: present
```

Which of the following would the application parsing this file MOST likely have to support?

- A. YAML
- B. AJAX
- C. JSON
- D. SOAP

Answer: C

NEW QUESTION 68

A new HTTPS web service is being deployed on a server. Which of the following commands should the Linux administrator use to ensure traffic is able to flow through the system firewall to the new service?

- A. `iptables -I OUTPUT -p tcp --sport 443 -j ACCEPT`
- B. `iptables -A INPUT -p tcp --dport 443 -j ACCEPT`
- C. `iptables -I INPUT --dport 443 -j ACCEPT`
- D. `iptables -A OUTPUT -p tcp --dport 443 -j ACCEPT`

Answer: C

NEW QUESTION 69

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 72

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 75

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 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 83

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 84

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 85

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 90

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` -eq 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 93

A Linux administrator built a GitLab server. Later that day, a software engineer tried to access the server to upload the repository during the final step of installation. The software engineer could not access the website. Which of the following firewall rules would allow access to this site?

- A. iptables -A INPUT -p tcp -m multiport --dports 80,443 -m conntrack --cstate NEW, ESTABLISHED -j ACCEPT
- B. iptables -A INPUT -p tcp -m multiport --dports 80,443 -m conntrack --cstate ESTABLISHED -j ACCEPT
- C. iptables -A INPUT -p tcp -m multiport --dports 80,443 -m conntrack --cstate RELATED, ESTABLISHED -j ACCEPT
- D. iptables -A INPUT -p tcp -m multiport --dports 80,443 -m conntrack --cstate NEW, ESTABLISHED -j REJECT

Answer: C

NEW QUESTION 94

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