



CompTIA

Exam Questions XK0-004

CompTIA Linux+ Certification Exam

NEW QUESTION 1

A Linux administrator is testing a new web application on a local laptop and consistently shows the following 403 errors in the laptop's logs"

```
type=AVC msg=audit(126552035:37232) :avc:denied [read] for pid=24941 com=nginx  
nme="/home/user1" /dev/sda1 ino=2 scontext=unconfined_u:system_r:httpd_t:s0  
tcontext=syssetm_u:object_r:httpd_sys_content:s0
```

The web server starts properly, but an error is generated in the audit log. Which of the following settings should be enabled to prevent this audit message?

- A. httpd_can_network_connect = 1
- B. httpd_enable_scripting = 1
- C. httpd_enable_homedirs = 1
- D. httpd_enable_cgi = 1

Answer: A

NEW QUESTION 2

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 3

An administrator is tasked with increasing the size of the volume /dev/vg/lv to 20GB. Which of the following BEST illustrates the steps the administrator should take?

- A. vgextend -L20G /dev/vg/lv; resizelv /dev/vg/lv
- B. parted -L20G /dev/vg/lv; remount /dev/vg/lv
- C. mkfs -L20G /dev/vg/lv; tune2fs /dev/vg/lv
- D. lvextend -L20G /dev/vg/lv; resize2fs /dev/vg/lv

Answer: D

NEW QUESTION 4

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 5

A junior systems is configuring localization option environment variables. The administrator is given a checklist of tasks with the following requirements:

View current settings of the LC_ALL environment variable only. Modify the LANG environment variable to US English Unicode.

Given this scenario, which of the following should be performed to meet these requirements? (Choose two.)

- A. echo \$LC_ALL
- B. locale
- C. cat \$LC_ALL
- D. export LANG = en_US.UTF-8
- E. export \$LANG = en_US.UTF
- F. stty

Answer: BD

NEW QUESTION 6

A Linux administrator needs the "tech" account to have the option to run elevated commands as root. Which of the following commands would BEST meet this goal?

- A. \$ su - tech -c "/bin/bash"
- B. # usermod -aG wheel tech
- C. # sudo -l tech
- D. # groupadd -u tech -g root

Answer: C

NEW QUESTION 7

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 8

A user, jsmith, needs access to database files located on a server. Which of the following will add jsmith to the "dba" group and preserve existing group memberships?

- A. usermod -a -G dba jsmith
- B. usermod -g dba jsmith
- C. useradd -g dba jsmith
- D. groupmod dba -u jsmith

Answer: AC

Explanation:

According to the reference given below. Both AC is correct.

NEW QUESTION 9

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 10

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 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 14

A system administrator has set up third-party log aggregation agents across several cloud instances. The systems administrator wants to create a dashboard of failed SSH attempts and the usernames used.

Which of the following files should be watched by the agents?

- A. /var/log/audit/audit.log
- B. /var/log/kern.log
- C. /var/log/monitor
- D. /etc/rsyslog.conf

Answer: D

NEW QUESTION 18

Which of the following configuration management tools is considered agentless?

- A. Puppet
- B. Salt
- C. Ansible
- D. Chef

Answer: C

NEW QUESTION 21

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 25

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 26

Which of the following statements BEST represents what the term “agentless” means regarding orchestration?

- A. Installation of a tool is not required on the remote system to perform orchestration tasks
- B. It facilitates version control when using infrastructure as code during orchestration
- C. It automatically removes malware from the remote system during orchestration
- D. A tool can only be accessed remotely to perform orchestration tasks

Answer: A

NEW QUESTION 28

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 32

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 33

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 37

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 38

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 43

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 48

A Linux administrator has configured a Linux system to be used as a router. The administrator confirms that two network adapters are properly installed and functioning correctly. In addition, the output of the iptables -L command appears to contain a complete firewall configuration. Which of the following commands does the administrator need to issue for the router to be fully functional?

- A. echo "1" > /proc/sys/net/ipv4/ip_forward
- B. echo "0" > /proc/sys/net/ipv4/tcp_abort_on_overflow
- C. echo "0" > /proc/sys/net/ipv4/max_connections
- D. echo "1" > /proc/sys/net/ipv4/ip_default_ttl

Answer: A

NEW QUESTION 50

An analyst is trying to determine which public IP addresses are managed by Company A, but the script is not working correctly.

```
for ip in $(cat ip-list.txt)
do whois $ip | grep "Company A" > /dev/null
    if [ $? -ne 0 ]
        then echo "$ip"
    fi
done
```

Which of the following explains what is wrong with the script?

- A. \$(cat ip-list.txt) should be changed to `cat ip-list.txt` in the for statement.
- B. The for should be changed to while in the loop.
- C. The > should be changed to 2> in the do statement.
- D. The -ne flag should be changed to -eq in the if statement.

Answer: A

NEW QUESTION 52

An operator finds a user is having issues with opening certain files.

Which of the following commands would allow the security administrator to list and check the SELinux context?

- A. ls -D
- B. ls -a
- C. ls -Z
- D. ls -l

Answer: C

NEW QUESTION 56

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



- 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-complete-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/httpd.service
[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 qualified domain name, setting ServerName to localhost.localdomain.
Jun 27 06:51:35 tecmint systemd[1]: Started The Apache HTTP Server.
[root@tecmint ~]# █
```

NEW QUESTION 60

After starting a long-running script, a systems administrator needs to verify the frequency of what is filling up the /var partition and kill it because it is consuming too much space.

Which of the following is the correct sequence given only a terminal is available?

- A. 1. CTRL-C2. bg3. watch df /var4. CTRL-C5. fg6. CTRL-Z
- B. 1. CTRL-C2. fg3. watch df /var4. CTRL-Z5. bg6. CTRL-Z
- C. 1. CTRL-Z2. bg3. watch df /var4. CTRL-C5. fg6. CTRL-C
- D. 1. CTRL-Z2. bg3. watch df /var4. CTRL-Z5. fg6. CTRL-C

Answer: D

NEW QUESTION 61

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 64

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 69

An administrator receives a warning about a file system filling up, and then identifies a large file located at /tmp/largelogfile. The administrator deletes the file, but no space is recovered on the file system.

Which of the following commands would BEST assist the administrator in identifying the problem?

- A. lsof | grep largelogfile
- B. pkill /tmp/largelogfile
- C. pgrep largelogfile
- D. ps -ef | grep largelogfile

Answer: A

NEW QUESTION 73

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 77

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 80

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 83

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 88

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 91

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 95

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 99

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 101

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