

XK0-004 Dumps

CompTIA Linux+ Certification Exam

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NEW QUESTION 1

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 2

A junior systems administrator is upgrading a package that was installed on a Red Hat-based system. The administrator is tasked with the following:

Update and install the new package.

Verify the new package version is installed.

Which of the following should be done to BEST accomplish these task? (Choose two.)

- A. yum install <package name>
- B. yum upgrade
- C. rpm -e <package name>
- D. rpm -qa
- E. apt-get <package name>
- F. apt-get upgrade

Answer: AD

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 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 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

As a Systems Administrator, to reduce disk space, you were tasked to create a shell script that does the following:

Add relevant content to /tmp/script.sh, so that it finds and compresses rotated files in /var/log without recursion.

INSTRUCTIONS

Fill the blanks to build a script that performs the actual compression of rotated log files.

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

Snippets

tar	until	zip
egrep	awk	\$log
"\$@"	pgrep	repeat
/tmp/tempfile	locate	filename
rar	then	"log.[1-6]\$"
in	done	/var/log
for	xz	"\$@"
sed	gzip	"\$log.[1-6]\$"
while		

```
#!/bin/bash

#name: script.sh

find /var/log -type f -maxdepth 1 | grep [?] > /tmp/tempfile

[?] filename [?] $(cat [?])

do

[?] $filename

[?]
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Snippets

tar	until	zip
egrep	awk	\$log
"\$@"	pgrep	repeat
/tmp/tmpfile	locate	filename
rar	then	"log-[1-6]\$"
in	done	/var/log
for	xz	"\$1"
sed	gzip	"\$log-[1-6]\$"
while		

```
#!/bin/bash

#name: script.sh

find /var/log -type f -maxdepth 1 | grep "$@" > /tmp/tmpfile

for filename in $(cat /tmp/tmpfile)
do
    gzip $filename
done
```

NEW QUESTION 7

A Linux administrator needs every new file created on a directory to maintain the group permissions of the same directory. Which of the following commands would satisfy this requirement?

- A. chmod o+s <directory>
- B. chmod u+s <directory>
- C. chmod +s <directory>
- D. chmod g+s <directory>

Answer: D

NEW QUESTION 8

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 9

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 10

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

Which of the following configuration management tools is considered agentless?

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

Answer: C

NEW QUESTION 13

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 17

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 22

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 24

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 25

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 27

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 31

A configuration management tool running every minute is enforcing the service HTTPd to be started. To perform maintenance, which of the following series of commands can be used to prevent the service from being started?

- A. systemctl stop httpd && systemctl mask httpd
- B. systemctl disable httpd && systemctl mask httpd
- C. systemctl stop httpd && systemctl hide httpd
- D. systemctl disable httpd && systemctl hide httpd

Answer: A

NEW QUESTION 33

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 36

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?
D18912E1457D5D1DDCBD40AB3BF70D5D

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

Answer: C

NEW QUESTION 37

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 38

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 42

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 46

Which of the following are Linux desktop managers? (Choose two.)

- A. KDE
- B. GNOME
- C. GUI
- D. VNC
- E. X11
- F. SPICE

Answer: AB

NEW QUESTION 50

A user wants to list the lines of a log, adding a correlative number at the beginning of each line separated by a set of dashes from the actual message. Which of the following scripts will complete this task?

```
A. #!/bin/bash
LOG='/var/log/auth.log'
nrlines=0
while read LINE
do
    nrlines=$((nrlines + 1))
    echo $nrlines --- ${LINE}
done < ${LOG}

B. #!/bin/bash
LOG='/var/log/auth.log'
nrlines=0
while read LINE
do
    nrlines=$((nrlines + 1))
    echo $nrlines --- ${LINE}
done

C. #!/bin/bash
LOG='/var/log/auth.log'
nrlines=0
while read LINE
do
    nrlines=$((nrlines + 1))
    echo $nrlines --- ${LINE}
done < ${LOG}

D. #!/bin/bash
LOG='/var/log/auth.log'
nrlines=0
while read LINE
do
    nrlines=$((nrlines + 1))
    echo $nrlines --- ${LINE}
done < ${LOG}
```

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

Answer: D

NEW QUESTION 55

A junior Linux administrator is installing patches using YUM. The administrator issues the following command:

yum list installed

The output of the command is as follows:

```
Loaded plugins: fastmirror, langpacks
Existing lock /var/run/yum.pid: another copy is running as pid 5180.
Another app is currently holding the yum lock; waiting for it to exit...
The other application is yum
Memory: 26 M RSS (r415 MB VSZ)
Started: Fri Jun 15 08:05:15 2018 - 2:18:48 ago
State: Traced/Stopped pid: 5180
```

Given this scenario and the output, which of the following should the administrator do to address this issue?

- A. renice -n 9 -p 5180
- B. killall yum
- C. ps -ef | grep yum
- D. top | grep yum

Answer: C

NEW QUESTION 60

A member of the production group issues the following command:

echo "Monday through Friday" > /production_docs/days

The command fails to execute, so the user obtains the following output: drwxr--r-- root production 0 Jun 16 2018 production

-rw-r--r-- production production 4096 Jun 14 2018 days

Which of the following commands should the user execute to BEST fix the issue?

- A. chmod g+w production to change the permissions of the days file
- B. chgrp root production_docs/days to change the group ownership of the production_docs/ days file
- C. chmod g+S production to set the GUID on the production_docs directory
- D. chown production to change the ownership of the production_docs directory

Answer: D

NEW QUESTION 62

A junior Linux administrator needs to access production servers using a secure SSH protocol. Which of the following files should contain the public key to gain remote access to the server?

- A. ~/.ssh/authorized-keys

- B. /etc/authorized_keys
- C. /etc/sshd/ssh.conf
- D. ~/.ssh/authorized_keys

Answer: D

NEW QUESTION 65

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 67

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 68

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 71

A junior administrator is migrating a virtual machine from a Type 1 hypervisor to a Type 2 hypervisor. To ensure portability, which of the following formats should the administrator export from the Type 1 hypervisor to ensure compatibility?

- A. OWASP
- B. VDI
- C. VMDK
- D. OVA

Answer: D

NEW QUESTION 72

Two specific users need access to a directory owned by root where backups are located. Which of the following commands would BEST ensure the specified users can access the backup files?

- A. umask
- B. chcon
- C. chmod
- D. setfacl

Answer: D

NEW QUESTION 75

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 79

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