

# CompTIA

## Exam Questions XK0-004

CompTIA Linux+ Certification Exam



#### 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 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 3

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 4

A systems administration team has decided to their systems as immutable instances. They keep the desired state of each of their systems in version control and apply automation whenever they provision a new instance. If there is an issue with one of their servers, instead of troubleshooting the issue they terminate the instance and rebuild it using automation.

Which of the following is this an example of?

- A. Inventory
- B. Orchestration
- C. Infrastructure as code
- D. Agentless deployment

**Answer:** C

#### NEW QUESTION 5

Given that a company's policy states that users cannot install third-party tools on Window 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 6

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 7

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 8

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 9

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 10

An administrator needs to create a shared directory in which all users are able, write, and execute its content but none of the regular users are able to delete any content.

Which of the following permissions should be applied to this shared directory?

- A. rwxrwxrwt
- B. rwxrwxrws
- C. rwxrwxrwx
- D. rwxrwxrw\*

**Answer:** C

#### NEW QUESTION 10

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 11

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

"\$6"

pgrep

repeat

/tmp/tempfile

locate

filename

rar

then

"log.[1-6]\$"

in

done

/var/log

for

xt

"\$1"

sed

grep

"\$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 13

A Linux systems administrator installed a new web server, which failed while attempting to start. The administrator suspects that SELinux is causing an issue and wants to temporarily put the system into permissive mode. Which of the following would allow the administrator to accomplish this?

- A. echo SELINUX=PERMISSIVE >> /etc/sysconfig/selinux
- B. setenforce 0
- C. sestatus 0
- D. chcon httpd\_sys\_content\_t /var/

**Answer: B**

#### NEW QUESTION 15

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 17

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 21

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 23

Which of the following configuration management tools is considered agentless?

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

**Answer:** C

#### NEW QUESTION 26

Ann, a junior Linux administrator, needs to copy software from her local machine to assist in developing a software application on a remote machine with the IP address 192.168.3.22. The file needs to be placed on the /tmp directory. After downloading the RPM to the local machine, which of the following commands would be BEST to use to copy the software?

- A. scp ~/software.rpm USER@192.168.3.22:/tmp
- B. scp ~/software.rpm USER@192.168.3.22: /tmp
- C. wget USER@192.168.3.22:/tmp -f ~/software.rpm
- D. scp USER@192.168.3.22 ~/software.rpm :/tmp

**Answer:** C

#### NEW QUESTION 28

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 30

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 31

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 32

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 36

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 40

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 42

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 renice -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 44

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 46

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 50

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 54

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 59

A Linux administrator needs to remotely update the contents of the [www.comptia.org/contacts](http://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](http://www.comptia.org/contacts)
- B. dig [www.comptia.org/contacts](http://www.comptia.org/contacts)
- C. apt-get [www.comptia.org/contacts](http://www.comptia.org/contacts)
- D. yum list [www.comptia.org/contacts](http://www.comptia.org/contacts)

**Answer:** A

#### NEW QUESTION 62

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 64

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 68

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-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 ''
Jun 27 06:51:35 tecmint systemd[1]: Started The Apache HTTP Server.
[root@tecmint ~]# █
```

#### NEW QUESTION 72

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 76

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 80

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 81

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 86

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 assists the administrator in identifying the problem?

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

**Answer: A**

#### NEW QUESTION 91

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 93

A new corporate policy states that Bluetooth should be disabled on all company laptops. Which of the following commands would disable the use of Bluetooth?

- A. `echo "blacklist bluetooth" > /etc/modprobe.d/blacklist-bluetooth`
- B. `echo "kill bluetooth" > /etc/modprobe.d/kill-bluetooth`
- C. `echo "modprobe bluetooth" > /etc/modprobe.d/modprobe-bluetooth`
- D. `echo "rmod bluetooth" > /etc/modprobe.d/rmod-bluetooth`

**Answer: C**

#### NEW QUESTION 95

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 96

An administrator notices that a long-running script, /home/user/script.sh, is taking up a large number of system resources. The administrator does not know the script's function. Which of the following commands should the administrator use to minimize the script's impact on system resources?

- A. `renice`

- B. kill
- C. bg
- D. nohup

**Answer:** A

**NEW QUESTION 98**

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 103**

A junior Linux administrator needs to ensure a service will start on system boot. Which of the following commands should be used to accomplish this task?

- A. `chkconfig <service> on`
- B. `systemctl <service> bootup`
- C. `service <service> enable`
- D. `crontab install <service>`

**Answer:** A

**NEW QUESTION 105**

A Linux administrator needs to take stock of USB devices attached to the system. Which of the following commands would be BEST to complete this task?

- A. `lspci`
- B. `lsusb`
- C. `cat /proc/USB`
- D. `modprobe --usb`

**Answer:** B

**NEW QUESTION 108**

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 109**

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 114

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 115

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 117

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 120**

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 125**

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 126**

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 128**

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 132**

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

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

**Answer:** A

**NEW QUESTION 135**

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 136**

After installing a new web server, you are unable to browse to the default web page. INSTRUCTIONS

Review all the command output and select the command needed to remediate the issue.

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

Commands

```
[root@webserver log]# getenforce
[root@webserver log]# getsebool -a | grep httpd
[root@webserver log]# netstat -antp
[root@webserver log]# ss -antp
[root@webserver log]# ps -ef | grep nginx
[root@webserver log]# grep avc /var/log/audit/audit.log
[root@webserver log]# more /var/log/web/access_log
[root@webserver log]# more /var/log/web/error_log
[root@webserver log]# ls -la
[root@webserver log]# journalctl -u nginx -l
[root@webserver log]# systemctl status webserver
[root@webserver log]# sealer
```

Answer

```
[root@webserver log]#
```

```
systemctl restart nginx
setsebool -P httpd_read_user_content =1
restorecon -rv /home/comptia/html
kill -HUP 3431
sysctl -w net.ipv4 ip_forward = 1
chown -R comptia: /home/comptia/html/
firewall-cmd --zone=public --service=http --permanent
chmod 777 /home/comptia/html/
setfacl -m g:comptia:rwX /home/comptia/html/
cp -R /home/comptia/html /var/www/html
```

Output

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Commands

```
[root@webserver log]# getenforce
[root@webserver log]# getsebool -a | grep httpd
[root@webserver log]# netstat -antp
[root@webserver log]# ss -antp
[root@webserver log]# ps -ef | grep nginx
[root@webserver log]# grep avc /var/log/audit/audit.log
[root@webserver log]# more /var/log/web/access_log
[root@webserver log]# more /var/log/web/error_log
[root@webserver log]# ls -la
[root@webserver log]# journalctl -u nginx -l
[root@webserver log]# systemctl status webserver
[root@webserver log]# sealer
```

Answer

```
[root@webserver log]#
```

```
systemctl restart nginx
setsebool -P httpd_read_user_content =1
restorecon -rv /home/comptia/html
kill -HUP 3431
sysctl -w net.ipv4 ip_forward = 1
chown -R comptia: /home/comptia/html/
firewall-cmd --zone=public --service=http --permanent
chmod 777 /home/comptia/html/
setfacl -m g:comptia:rwX /home/comptia/html/
cp -R /home/comptia/html /var/www/html
```

Output

NEW QUESTION 137

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 142

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 143

A systems administrator observes high latency values when reaching a remote web server. Which of the following commands will help determine and isolate issues on the network side?

- A. mtr
- B. dig
- C. netstat
- D. route

**Answer:** A

#### NEW QUESTION 144

A system administrator has deployed a Linux server based on an Anaconda process with all packages and custom configurations necessary to install a web server role.

Which of the following could be used to install more Linux servers with the same characteristics?

- A. /etc/sysconfig/anaconda/cfg
- B. /root/anaconda.auto
- C. /root/anaconda-ks.cfg
- D. /etc/sysconfig/installation.cfg

**Answer:** C

#### NEW QUESTION 145

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 defaults 0 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 150**

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 155**

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. `tracert`
- C. `route`
- D. `iperf`
- E. `ip`
- F. `arp`

**Answer: CF**

#### **NEW QUESTION 159**

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