

CompTIA

Exam Questions XK0-004

CompTIA Linux+ Certification Exam



NEW QUESTION 1

- (Exam Topic 1)

A Linux systems administrator is setting up SSH access with PKI for several users 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

Explanation:

Reference: <https://www.linode.com/docs/security/authentication/use-public-key-authentication-with-ssh/>

NEW QUESTION 2

- (Exam Topic 1)

A systems administrator is troubleshooting an intermittent network connection at the IP address 192.168.1.23. The administrator wishes to monitor the connection at five-minute intervals for one hour. Which of the following commands will accomplish this task?

- A. ping -i 5 192.168.1.23
- B. ping -c 12 192.168.1.23
- C. ping -c 12 -i 300 192.168.1.23
- D. ping -c 60 -i 100 192.168.1.23

Answer: B

Explanation:

Reference: <https://linuxize.com/post/linux-ping-command/>

NEW QUESTION 3

- (Exam Topic 1)

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 4

- (Exam Topic 1)

A company wants to provide internal identity verification services for networked devices. Which of the following servers should be installed?

- A. SSH
- B. VPN
- C. CA
- D. DHCP
- E. DNS

Answer: C

NEW QUESTION 5

- (Exam Topic 1)

A Linux administrator must identify a user with high disk usage. The administrator runs the `# du -s /home/*` command and gets the following output:

```
43      /home/User1
2701    /home/User2
133089  /home/User3
3611    /home/User4
```

Based on the output, User3 has the largest amount of disk space used. To clean up the file space, the administrator needs to find out more information about the specific files that are using the most disk space.

Which of the following commands will accomplish this task?

- A. `df -k /home/User/files.txt`
- B. `du -a /home/User3/*`
- C. `du -sh /home/User/`
- D. `find . -name /home/User3 -print`

Answer: B

Explanation:

Reference: <https://unix.stackexchange.com/questions/37221/finding-files-that-use-the-most-disk-space>

NEW QUESTION 6

- (Exam Topic 1)

Ann, a Linux administrator, wants to edit a configuration management file. When she opens the file to edit, her text editor reports that the file has been opened in read-only mode. She then tries to edit the file as root by elevating via sudo and is still unable to save any changes. The error message in her text editor says that the read-only option is set on the file. Ann checks the permissions on the file and sees the following:

```
-rw-rw-r-- 1 root wheel 30 Jun 13 15:38 infrastructure.yml
```

Which of the following commands is the BEST option to allow her to successfully modify the file?

- A. `chmod 600 infrastructure.yml`
- B. `chown root: infrastructure.yml`
- C. `chattr -i infrastructure.yml`
- D. `chmod o+w infrastructure.yml`

Answer: D

Explanation:

Reference: <https://cets.seas.upenn.edu/answers/chmod.html>

NEW QUESTION 7

- (Exam Topic 1)

A Linux administrator needs to schedule a cron job to run at 1:15 p.m. every Friday to report the amount of free disk space on the system and to send the output to a file named "freespace". Which of the following would meet this requirement?

- A. `13 15 * * 5 df > /freespace`
- B. `15 13 * * 5 df > /freespace`
- C. `15 1 * * 6 df > /freespace`
- D. `15 13 6 * * df > /freespace`

Answer: A

NEW QUESTION 8

- (Exam Topic 2)

Users are unable to connect to a server using HTTPS. The administrator runs the following command on the remote system:

```
$ netstat
tcp 0 0 0.0.0.0:80 0.0.0.0:* LISTEN
tcp 0 0 0.0.0.0:443 0.0.0.0:* LISTEN
tcp 0 0 0.0.0.0:22 0.0.0.0:* LISTEN
```

Then, the administrator runs the following command from a local workstation:

```
$ nmap
PORT STATE
80 open
443 closed
22 open
```

Which of the following steps should the administrator take to address the issue?

- A. Start the application to run on port 443
- B. Configure the application to run on an active port
- C. Allow port 443 through the firewall
- D. Update the self-signed certificate

Answer: C

NEW QUESTION 9

- (Exam Topic 2)

A Linux administrator is helping the security team troubleshoot an SELinux policy violation incident. Which of the following would be the BEST utility command to display SELinux violation and AVC denial messages?

- A. `journalctl | grep sealert`
- B. `sealert -a /var/log/audit/audit.log`
- C. `aureport | grep AVC`
- D. `cat /var/log/messages | grep selinux`

Answer: B

NEW QUESTION 10

- (Exam Topic 2)

Joe, a user, creates a short shell script, `shortscript.sh`, and saves it in his home directory with default permissions and paths. He then attempts to run the script by

typing ./shortscript.sh, but the command fails to execute.
 Which of the following commands would have allowed the script to run?

- A. chmod u+x shortscript.sh
- B. source ./shortscript.sh
- C. chmod 155 ~/shortscript.sh
- D. chgrp shortscript.sh Joe

Answer: A

NEW QUESTION 11

- (Exam Topic 2)

A user is reporting unusual slowness when trying to transfer a large file to an NFS server from a workstation. The administrator runs tracepath and gets the following output:

```
1?: [LOCALHOST]          pmtu 9000
1: 192.168.5.15         9.238ms
2: 192.168.10.1        10.233ms
3: 192.168.3.1         8.882ms          pmtu 1500
4: storage.localhost   10.234ms
```

Which of the following BEST describes the issue and a possible solution?

- A. The path MTU is lower than the source MT
- B. Reduce the source MTU setting.
- C. There is latency at the storage devic
- D. Work with the storage team to correct the issue.
- E. There is latency on an intermediate route
- F. Increase the path MTU to compensate.
- G. There are dropped packets at an intermediate route
- H. Work with the network team to correct the issue.

Answer: A

NEW QUESTION 12

- (Exam Topic 2)

In which of the following Linux GUI environments would the Konsole application MOST likely be found?

- A. Gnome
- B. KDE
- C. Cinnamon
- D. Unity
- E. MATE

Answer: B

Explanation:

Reference: <https://opensource.com/life/17/10/top-terminal-emulators>

NEW QUESTION 13

- (Exam Topic 2)

An administrator wants to know the amount of memory installed on a Linux server. Which of the following commands can be used to accomplish this task?

- A. cat /sys/proc/meminfo
- B. cat /proc/meminfo
- C. cat /proc/sys/meminfo
- D. cat /sys/meminfo

Answer: D

Explanation:

Reference: [https://devconnected.com/how-to-check-ram-on-linux/#:~:text=The%20most%20popular%20command%20in,use%20the%20%22free%22command.&text=As%20you%20can%20see%2C%20the,\(also%20called%20virtual%20memory\)](https://devconnected.com/how-to-check-ram-on-linux/#:~:text=The%20most%20popular%20command%20in,use%20the%20%22free%22command.&text=As%20you%20can%20see%2C%20the,(also%20called%20virtual%20memory))

NEW QUESTION 14

- (Exam Topic 2)

A directory called /employee is shared with many employees in a company. New hardware was acquired, and the systems administrator needs to back up all files in /employee before the server is replaced.

Which of the following commands should be used to back up all the files and compress them to use little space in the filesystem?

- A. tar -zcvf backup.tar.gz /employee
- B. tar -zxvf backup.tar.gz /employee
- C. tar -Cvf backup.tar.gz /employee
- D. tar -Tpf backup.tar.gz /employee

Answer: A

NEW QUESTION 15

- (Exam Topic 4)

A virtual machine logs all times using UTC. The systems administrator would like to have one script that outputs times that are in the America/Chicago time zone. Which of the following would the administrator MOST likely use in the script to accounts.

- A. `echo 'env TZ=America/Chicago date' >> mylog.txt`
- B. `hwclock --localtime » -mylog.txt`
- C. `date -d 'Tz="America/Chicago" now' >> mylog.txt`
- D. `timedatectl set-timezone "America/Chicago" $$ date >> mylog.txt`

Answer: D

NEW QUESTION 16

- (Exam Topic 4)

A Linux administrator needs to implement a security policy that prevents all connections from the marketing department that has the IP subnet 10.10.10.0/24 from reaching the current server. Which of the following commands can BEST accomplish this task?

- A. `iptables -A output -s 10.10.10.0/24 -j DROP`
- B. `iptables -A input -s 10.10.10.0/24 -j ACCEFT`
- C. `iptables -A forward -s 10.10.10.0/24 -j ACCEPT`
- D. `iptables -A input -s 10.10.10.0/24 -j DROP`

Answer: B

NEW QUESTION 17

- (Exam Topic 4)

An administrator needs to run the `rescript.sh` script stored on the `/mnt/disk` filesystem, but permission is denied;

```
# /mnt/disk/myscript.sh
-bash: ./myscript.sh: Permission denied
```

The system options are:

```
/dev/mapper/xyvg-mylv1 on /mnt/disk type xfs (ro,nosuid,nodev,noexec,noatime,seclabel,attr2,inode64,logbufs=8,logbsize=32k)
```

The script properties are:

```
# ls -lZ /mnt/disk/myscript.sh
-rwxr-xr-x. 1 root root unconfined_u:object_r:unlabeled_t:s0 26 Feb 25 16:50
```

Which of the following will resolve the issue?

- A. `mount -o remount, rw /mnt/disk`
- B. `chcon-u system_u -t admin_home_ /mnt/disk/ myscript.sh`
- C. `mount -o remount, exec .mnt/disk`
- D. `setenforce permissive`

Answer: A

NEW QUESTION 18

- (Exam Topic 4)

A user is unable to execute the command `sudo su -on` on a newly provisioned system. Which of the following should the Linux administrator do to allow the user to execute that command?

- A. Change the user's UID to 100
- B. Add the user to the wheel group
- C. Run `restorecon` to update SELinux contexts
- D. Set the execute bit on the `sudo` command

Answer: B

NEW QUESTION 19

- (Exam Topic 4)

When performing a routine server process inspection the systems administrator notices that about 300 processes similar to the following are running:

```
Root 7858 0 21:39 pts/0 00:00:00 [webserv] <defunct>
```

Malfunctioning software is found and removed from the server, but the administrator is now unable to terminate the remaining processes. Which of the following is the BEST course of action for the administrator to take NEXT in order to remove.

- A. Schedule a server reboot
- B. Raise the process priorities
- C. Reinstall the OS on the server
- D. Lower the process priorities

Answer: A

NEW QUESTION 20

- (Exam Topic 4)

A systems administrator is installing an HTTPD server on a Linux server and configuring it as a proxy server. The administrator runs the following commands to verify that the service is running:

```
# journalctl -u httpd.service --since today
Jan 22 20:11:09 linux8 systemd[1]: Starting the Apache HTTP Server...
Jan 22 20:11:10 linux8 httpd[21876]: Server configured, listening on: port 80
```

However, the administrator is getting a 503 error when browsing to portal . company. internal. After reviewing the logs, the following error information is discovered:

```
[error] (13)Permission denied: proxy: ajp: attempt to connect to 10.0.0.1:7009 (portal.company.internal)
[error] ap_proxy_connect_backend disabling worker for (portal.company.internal)

type=AVC msg=audit(126509.303:14): avc: denied { name_connect } for pid=21876 comm="httpd" descontext=system_u:system_r:httpd_t:s0
tcontext=system_u:object_r:port_t:s0 tsclass=tcp_socket
```

Which Of the following commands BEST resolves the issue?

- A. `setenforce 0`
- B. `ausearch -m USER_LOGIN -sv no`
- C. `grep httpd /var/log/audit/audit.log | audit2why`
- D. `setsebool -P httpd_can_network_connect 1`

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

Answer: A

NEW QUESTION 21

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