



# CompTIA

## Exam Questions XK0-005

CompTIA Linux+ Certification Exam

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#### NEW QUESTION 1

A Linux administrator is reviewing changes to a configuration file that includes the following section:

The Linux administrator is trying to select the appropriate syntax formatter to correct any issues with the configuration file. Which of the following should the syntax formatter support to meet this goal?

- A. Markdown
- B. XML
- C. YAML
- D. JSON

**Answer: C**

#### NEW QUESTION 2

A Linux administrator needs to connect securely to a remote server in order to install application software. Which of the following commands would allow this connection?

- A. `scp "ABC-key.pem" root@10.0.0.1`
- B. `sftp root@10.0.0.1`
- C. `telnet 10.0.0.1 80`
- D. `ssh -i "ABC-key.pem" root@10.0.0.1`
- E. `sftp "ABC-key.pem" root@10.0.0.1`

**Answer: D**

#### NEW QUESTION 3

One leg of an LVM-mirrored volume failed due to the underlying physical volume, and a systems administrator is troubleshooting the issue. The following output has been provided:

Given this scenario, which of the following should the administrator do to recover this volume?

- A. Reboot the server
- B. The volume will automatically go back to linear mode.
- C. Replace the failed drive and reconfigure the mirror.
- D. Reboot the server
- E. The volume will revert to stripe mode.
- F. Recreate the logical volume.

**Answer: B**

#### NEW QUESTION 4

Which of the following tools is BEST suited to orchestrate a large number of containers across many different servers?

- A. Kubernetes
- B. Ansible
- C. Podman
- D. Terraform

**Answer: A**

#### NEW QUESTION 5

An administrator attempts to rename a file on a server but receives the following error.

The administrator then runs a few commands and obtains the following output:

Which of the following commands should the administrator run NEXT to allow the file to be renamed by any user?

- A. `chgrp root files`
- B. `chmod -R 644 files`
- C. `chown users files`
- D. `chmod -t files`

**Answer: D**

#### NEW QUESTION 6

Rugged appliances are small appliances with ruggedized hardware and like Quantum Spark appliance they use which operating system?

- A. Centos Linux
- B. Gaia embedded
- C. Gaia
- D. Red Hat Enterprise Linux version 5

**Answer:** B

#### NEW QUESTION 7

A systems administrator pressed Ctrl+Z after starting a program using the command line, and the shell prompt was presented. In order to go back to the program, which of the following commands can the administrator use?

- A. fg
- B. su
- C. bg
- D. ed

**Answer:** A

#### Explanation:

Ctrl+Z suspended the process, and "fg" will bring it back into the foreground of the shell

#### NEW QUESTION 8

A Linux system is getting an error indicating the root filesystem is full. Which of the following commands should be used by the systems administrator to resolve this issue? (Choose three.)

- A. df -h /
- B. fdisk -l /dev/sdb
- C. growpart /dev/mapper/rootvg-rootlv
- D. pvcreate /dev/sdb
- E. lvresize -L +10G -r /dev/mapper/rootvg-rootlv
- F. lsblk /dev/sda
- G. parted -l /dev/mapper/rootvg-rootlv
- H. vgextend /dev/rootvg /dev/sdb

**Answer:** DEH

#### NEW QUESTION 9

Users have been unable to reach [www.comptia.org](http://www.comptia.org) from a Linux server. A systems administrator is troubleshooting the issue and does the following:

Based on the information above, which of the following is causing the issue?

- A. The name [www.comptia.org](http://www.comptia.org) does not point to a valid IP address.
- B. The server 192.168.168.53 is unreachable.
- C. No default route is set on the server.
- D. The network interface eth0 is disconnected.

**Answer:** C

#### NEW QUESTION 10

A systems administrator is implementing a new service task with systems at startup and needs to execute a script entitled test.sh with the following content:

The administrator tries to run the script after making it executable with `chmod +x`; however, the script will not run. Which of the following should the administrator do to address this issue? (Choose two.)

- A. Add `#!/bin/bash` to the bottom of the script.
- B. Create a unit file for the new service in `/etc/systemd/system/` with the name `helpme.service` in the location.
- C. Add `#!/bin/bash` to the top of the script.
- D. Restart the computer to enable the new service.
- E. Create a unit file for the new service in `/etc/init.d` with the name `helpme.service` in the location.
- F. Shut down the computer to enable the new service.

**Answer:** BC

#### NEW QUESTION 10

A systems administrator created a web server for the company and is required to add a tag for the API so end users can connect. Which of the following would the administrator do to complete this requirement?

- A. `hostnamectl status --no-ask-password`
- B. `hostnamectl set-hostname "$(perl -le "print" "A" x 86)"`
- C. `hostnamectl set-hostname Comptia-WebNode -H root@192.168.2.14`
- D. `hostnamectl set-hostname Comptia-WebNode --transient`

**Answer:** C

#### NEW QUESTION 13

A Linux administrator reviews a set of log output files and needs to identify files that contain any occurrence of the word denied. All log files containing entries in uppercase or lowercase letters should be included in the list. Which of the following commands should the administrator use to accomplish this task?

- A. `find . -type f -print | xargs grep -ln denied`
- B. `find . -type f -print | xargs grep -nv denied`
- C. `find . -type f -print | xargs grep -wL denied`
- D. `find . -type f -print | xargs grep -li denied`

**Answer:** A

#### NEW QUESTION 15

A Linux administrator was asked to run a container with the httpd server inside. This container should be exposed at port 443 of a Linux host machine while it internally listens on port 8443. Which of the following commands will accomplish this task?

- A. `podman run -d -p 443:8443 httpd`
- B. `podman run -d -p 8443:443 httpd`
- C. `podman run -d -e 443:8443 httpd`
- D. `podman exec -p 8443:443 httpd`

**Answer:** A

#### NEW QUESTION 17

Which of the following technologies can be used as a central repository of Linux users and groups?

- A. LDAP
- B. MFA
- C. SSO
- D. PAM

**Answer:** A

#### NEW QUESTION 22

At what point is the Internal Certificate Authority (ICA) created?

- A. During the primary Security Management Server installation process.
- B. Upon creation of a certificate.
- C. When an administrator decides to create one.
- D. When an administrator initially logs into SmartConsole.

**Answer:** A

#### NEW QUESTION 25

A Linux administrator needs to create an image named sda.img from the sda disk and store it in the /tmp directory. Which of the following commands should be used to accomplish this task?

- A. `dd of=/dev/sda if=/tmp/sda.img`
- B. `dd if=/dev/sda of=/tmp/sda.img`
- C. `dd --if=/dev/sda --of=/tmp/sda.img`
- D. `dd --of=/dev/sda --if=/tmp/sda.img`

**Answer:** B

#### NEW QUESTION 30

Based on an organization's new cybersecurity policies, an administrator has been instructed to ensure that, by default, all new users and groups that are created fall within the specified values below.

To which of the following configuration files will the required changes need to be made?

- A. `/etc/login.defs`
- B. `/etc/security/limits.conf`
- C. `/etc/default/useradd`
- D. `/etc/profile`

**Answer:** A

#### NEW QUESTION 32

An administrator recently updated the BIND software package and would like to review the default configuration that shipped with this version. Which of the following files should the administrator review?

- A. `/etc/named.conf.rpmnew`
- B. `/etc/named.conf.rpmsave`
- C. `/etc/named.conf`
- D. `/etc/bind/bind.conf`

**Answer:** C

### NEW QUESTION 35

A systems administrator is troubleshooting a connectivity issue pertaining to access to a system named db.example.com. The system IP address should be 192.168.20.88. The administrator issues the dig command and receives the following output:

The administrator runs `grep db.example.com /etc/hosts` and receives the following output:

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

- A. Modify the `/etc/hosts` file and change the db.example.com entry to 192.168.20.89.
- B. Modify the `/etc/network` file and change the db.example.com entry to 192.168.20.88.
- C. Modify the `/etc/network` file and change the db.example.com entry to 192.168.20.89.
- D. Modify the `/etc/hosts` file and change the db.example.com entry to 192.168.20.88.

**Answer: A**

### NEW QUESTION 36

A Linux system fails to start and delivers the following error message:

Which of the following commands can be used to address this issue?

- A. `fsck.ext4 /dev/sda1`
- B. `partprobe /dev/sda1`
- C. `fdisk /dev/sda1`
- D. `mkfs.ext4 /dev/sda1`

**Answer: A**

### NEW QUESTION 37

A systems administrator needs to reconfigure a Linux server to allow persistent IPv4 packet forwarding. Which of the following commands is the correct way to accomplish this task?

- A. `echo 1 > /proc/sys/net/ipv4/ipv4_forward`
- B. `sysctl -w net.ipv4.ip_forward=1`
- C. `firewall-cmd --enable ipv4_forwarding`
- D. `systemctl start ipv4_forwarding`

**Answer: B**

### NEW QUESTION 39

An administrator needs to make some changes in the IaC declaration templates. Which of the following commands would maintain version control?

- A. `git clone https://github.com/comptia/linux+- .git git push origin`
- B. `git clone https://qithub.com/comptia/linux+- .git git fetch New-Branch`
- C. `git clone https://github.com/comptia/linux+- .git git status`
- D. `git clone https://github.com/comptia/linux+- .git git checkout -b <new-branch>`

**Answer: D**

### NEW QUESTION 43

A systems administrator has been unable to terminate a process. Which of the following should the administrator use to forcibly stop the process?

- A. `kill -1`
- B. `kill -3`
- C. `kill -15`
- D. `kill -HUP`
- E. `kill -TERM`

**Answer: B**

### NEW QUESTION 46

A systems engineer is adding a new 1GB XFS filesystem that should be temporarily mounted under `/ops/app`. Which of the following is the correct list of commands to achieve this goal?

D. C:\Users\Admin\Desktop\Data\Odt data\Untitled.jpg

**Answer: D**

#### NEW QUESTION 48

A Linux administrator is troubleshooting an issue in which an application service failed to start on a Linux server. The administrator runs a few commands and gets the following outputs:

Based on the above outputs, which of the following is the MOST likely action the administrator should take to resolve this issue?

- A. Enable the logsearch.service and restart the service.
- B. Increase the TimeoutStartUsec configuration for the logsearch.service.
- C. Update the OnCalendar configuration to schedule the start of the logsearch.service.
- D. Update the KillSignal configuration for the logsearch.service to use TERM.

**Answer: B**

#### NEW QUESTION 50

A cloud engineer needs to block the IP address 192.168.10.50 from accessing a Linux server. Which of the following commands will achieve this goal?

- A. iptables -F INPUT -j 192.168.10.50 -m DROP
- B. iptables -A INPUT -s 192.168.10.30 -j DROP
- C. iptables -i INPUT --ipv4 192.168.10.50 -z DROP
- D. iptables -j INPUT 192.168.10.50 -p DROP

**Answer: B**

#### NEW QUESTION 52

A development team asks an engineer to guarantee the persistency of journal log files across system reboots. Which of the following commands would accomplish this task?

- A. `grep -i auto /etc/systemd/journald.conf && systemctl restart systemd-journald.service`
- B. `cat /etc/systemd/journald.conf | awk '(print $1,$3)'`
- C. `sed -i 's/auto/persistent/g' /etc/systemd/journald.conf && sed -i 'persistent/s/^##/q/' /etc/systemd/journald.conf`
- D. `journalctl --list-boots && systemctl restart systemd-journald.service`

**Answer: A**

#### NEW QUESTION 55

A Linux system is failing to boot. The following error is displayed in the serial console: `[[1;33mDEPEND[Om] Dependency failed for /data.`  
`[[1;33mDEPEND[Om] Dependency failed for Local File Systems`

...  
Welcome to emergency mode! After logging in, type "journalctl -xb" to view system logs, "systemctl reboot" to reboot, "systemctl default" to try again to boot into default mode.

Give root password for maintenance (or type Control-D to continue)

Which of the following files will need to be modified for this server to be able to boot again?

- A. /etc/mtab
- B. /dev/sda
- C. /etc/fstab
- D. /etc/grub.conf

**Answer: C**

#### NEW QUESTION 56

A junior systems administrator has just generated public and private authentication keys for passwordless login. Which of the following files will be moved to the remote servers?

- A. id\_dsa.pem
- B. id\_rsa
- C. id\_ecdsa
- D. id\_rsa.pub

**Answer:** D

#### NEW QUESTION 59

After listing the properties of a system account, a systems administrator wants to remove the expiration date of a user account. Which of the following commands will accomplish this task?

- A. `chgrp system accountname`
- B. `passwd -s accountname`
- C. `chmod -G system account name`
- D. `chage -E -1 accountname`

**Answer:** D

#### NEW QUESTION 63

A junior Linux administrator is tasked with installing an application. The installation guide states the application should only be installed in a run level 5 environment.

Which of the following commands would ensure the server is set to runlevel 5?

- A. `systemctl isolate multi-user.target`
- B. `systemctl isolate graphical.target`
- C. `systemctl isolate network.target`
- D. `systemctl isolate basic.target`

**Answer:** B

#### NEW QUESTION 65

A systems administrator frequently connects to a remote host via SSH and a non-standard port. The systems administrator would like to avoid passing the port parameter on the command line every time. Which of the following files can be used to set a different port value for that host?

- A. `/etc/ssh/sshd_config`
- B. `/etc/ssh/moduli`
- C. `~/.ssh/config`
- D. `~/.ssh/authorized_keys`

**Answer:** C

#### NEW QUESTION 66

A cloud engineer is installing packages during VM provisioning. Which of the following should the engineer use to accomplish this task?

- A. Cloud-init
- B. Bash
- C. Docker
- D. Sidecar

**Answer:** A

#### NEW QUESTION 71

A junior administrator is trying to set up a passwordless SSH connection to one of the servers. The administrator follows the instructions and puts the key in the `authorized_key` file at the server, but the administrator is still asked to provide a password during the connection.

Given the following output:

Which of the following commands would resolve the issue and allow an SSH connection to be established without a password?

- A. `restorecon -rv .ssh/authorized_key`
- B. `mv .ssh/authorized_key .ssh/authorized_keys`
- C. `systemctl restart sshd.service`
- D. `chmod 600 mv .ssh/authorized_key`

**Answer:** C

#### NEW QUESTION 73

Which of the following commands is used to configure the default permissions for new files?

- A. `setenforce`
- B. `sudo`
- C. `umask`
- D. `chmod`

**Answer:** C

#### NEW QUESTION 78

A Linux administrator created the directory `/project/access2all`. By creating this directory, the administrator is trying to avoid the deletion or modification of files from non-owners. Which of the following will accomplish this goal?

- A. `chmod +t /project/access2all`
- B. `chmod +rws /project/access2all`
- C. `chmod 2770 /project/access2all`
- D. `chmod ugo+rwx /project/access2all`

**Answer:** A

#### NEW QUESTION 83

A Linux systems administrator needs to copy files and directories from Server A to Server B. Which of the following commands can be used for this purpose? (Select TWO)

- A. `rsyslog`
- B. `cp`
- C. `rsync`
- D. `reposync`
- E. `scp`
- F. `ssh`

**Answer:** CE

#### NEW QUESTION 88

A systems technician is working on deploying several microservices to various RPM-based systems, some of which could run up to two hours. Which of the following commands will allow the technician to execute those services and continue deploying other microservices within the same terminal session?

- A. `gedit & disown`
- B. `kill 9 %1`
- C. `fg %1`
- D. `bg %1 job name`

**Answer:** A

#### NEW QUESTION 91

A Linux administrator needs to create a new `cloud.cpio` archive containing all the files from the current directory. Which of the following commands can help to accomplish this task?

- A. `ls | cpio -iv > cloud.cpio`
- B. `ls | cpio -iv < cloud.cpio`
- C. `ls | cpio -ov > cloud.cpio`
- D. `ls cpio -ov < cloud.cpio`

**Answer:** C

#### NEW QUESTION 96

A Linux administrator copied a Git repository locally, created a feature branch, and committed some changes to the feature branch. Which of the following Git actions should the Linux administrator use to publish the changes to the main branch of the remote repository?

- A. `rebase`
- B. `tag`
- C. `commit`
- D. `push`

**Answer:** C

#### NEW QUESTION 98

A Linux administrator is troubleshooting the root cause of a high CPU load and average.

Which of the following commands will permanently resolve the issue?

- A. `renice -n -20 6295`
- B. `pstree -p 6295`
- C. `iostat -cy 1 5`
- D. `kill -9 6295`

**Answer:** A

#### NEW QUESTION 103

A Linux administrator was tasked with deleting all files and directories with names that are contained in the `sobelete.txt` file. Which of the following commands will accomplish this task?

- A. `xargs -f cat toDelete.txt -rm`
- B. `rm -d -r -f toDelete.txt`
- C. `cat toDelete.txt | rm -frd`
- D. `cat toDelete.txt | xargs rm -rf`

**Answer:** B

#### NEW QUESTION 104

A Linux engineer set up two local DNS servers (10.10.10.10 and 10.10.10.20) and was testing email connectivity to the local mail server using the mail command on a local machine when the following error appeared:

The local machine DNS settings are:

Which of the following commands could the engineer use to query the DNS server to get mail server information?

- A. dig @example.com 10.10.10.20 a
- B. dig @10.10.10.20 example.com mx
- C. dig @example.com 10.10.10.20 ptr
- D. dig @10.10.10.20 example.com ns

**Answer: B**

#### NEW QUESTION 106

A Linux administrator created a new file system. Which of the following files must be updated to ensure the filesystem mounts at boot time?

- A. /etc/sysctl
- B. /etc/filesystems
- C. /etc/fstab
- D. /etc/nfsmount.conf

**Answer: C**

#### NEW QUESTION 110

A Linux systems administrator needs to persistently enable IPv4 forwarding in one of the Linux systems. Which of the following commands can be used together to accomplish this task? (Choose two.)

- A. sysctl net.ipv4.ip\_forward
- B. sysctl -w net.ipv4.ip\_forward=1
- C. echo "net.ipv4.ip\_forward=1" >> /etc/sysctl.conf
- D. echo 1 > /proc/sys/net/ipv4/ip\_forward
- E. sysctl -p
- F. echo "net.ipv6.conf.all.forwarding=1" >> /etc/sysctl.conf

**Answer: BC**

#### NEW QUESTION 111

A Linux administrator modified the SSH configuration file. Which of the following commands should be used to apply the configuration changes?

- A. systemctl stop sshd
- B. systemctl mask sshd
- C. systemctl reload sshd
- D. systemctl start sshd

**Answer: C**

#### NEW QUESTION 112

A Linux systems administrator receives reports from various users that an application hosted on a server has stopped responding at similar times for several days in a row. The administrator logs in to the system and obtains the following output:

Output 1:

Output 2:

Output 3:

Which of the following should the administrator do to provide the BEST solution for the reported issue?

- A. Configure memory allocation policies during business hours and prevent the Java process from going into a zombie state while the server is idle.
- B. Configure a different nice value for the Java process to allow for more users and prevent the Java process from restarting during business hours.
- C. Configure more CPU cores to allow for the server to allocate more processing and prevent the Java process from consuming all of the available resources.
- D. Configure the swap space to allow for spikes in usage during peak hours and prevent the Java process from stopping due to a lack of memory.

**Answer: A**

#### NEW QUESTION 115

A Linux administrator needs to remove software from the server. Which of the following RPM options should be used?

- A. rpm -s
- B. rm -d
- C. rpm -q
- D. rpm -e

**Answer:** D

#### NEW QUESTION 119

A Linux administrator is alerted to a storage capacity issue on a server without a specific mount point or directory. Which of the following commands would be MOST helpful for troubleshooting? (Choose two.)

- A. parted
- B. df
- C. mount
- D. du
- E. fdisk
- F. dd
- G. ls

**Answer:** BD

#### NEW QUESTION 123

A systems administrator is receiving tickets from users who cannot reach the application app that should be listening on port 9443/tcp on a Linux server. To troubleshoot the issue, the systems administrator runs netstat and receives the following output:

Based on the information above, which of the following is causing the issue?

- A. The IP address 0.0.0.0 is not valid.
- B. The application is listening on the loopback interface.
- C. The application is listening on port 1234.
- D. The application is not running.

**Answer:** B

#### Explanation:

The server is in a "Listen" state on port 9943 using its loopback address. The "1234" is a process-id

#### NEW QUESTION 128

A Linux administrator rebooted a server. Users then reported some of their files were missing. After doing some troubleshooting, the administrator found one of the filesystems was missing. The filesystem was not listed in /etc/fstab and might have been mounted manually by someone prior to reboot. Which of the following would prevent this issue from reoccurring in the future?

- A. Sync the mount units.
- B. Mount the filesystem manually.
- C. Create a mount unit and enable it to be started at boot.
- D. Remount all the missing filesystems

**Answer:** C

#### NEW QUESTION 133

A systems administrator wants to be sure the sudo rules just added to /etc/sudoers are valid. Which of the following commands can be used for this task?

- A. visudo -c
- B. test -f /etc/sudoers
- C. sudo vi check
- D. cat /etc/sudoers | tee test

**Answer:** A

#### NEW QUESTION 134

User1 is a member of the accounting group. Members of this group need to be able to execute but not make changes to a script maintained by User2. The script should not be accessible to other users or groups. Which of the following will give proper access to the script?

- A. chown user2:accounting script.sh chmod 750 script.sh
- B. chown user1:accounting script.sh chmod 777 script.sh
- C. chown accounting:user1 script.sh chmod 057 script.sh
- D. chown user2:accounting script.sh chmod u+x script.sh

**Answer:** C

#### NEW QUESTION 137

A Linux administrator is troubleshooting SSH connection issues from one of the workstations.

When users attempt to log in from the workstation to a server with the IP address 104.21.75.76, they receive the following message:

The administrator reviews the information below:

Which of the following is causing the connectivity issue?

- A. The workstation has the wrong IP settings.
- B. The sshd service is disabled.
- C. The server's firewall is preventing connections from being made.
- D. The server has an incorrect default gateway configuration.

**Answer: B**

#### NEW QUESTION 139

A database administrator requested the installation of a custom database on one of the servers. Which of the following should the Linux administrator configure so the requested packages can be installed?

- A. /etc/yum.conf
- B. /etc/ssh/sshd.conf
- C. /etc/yum.repos.d/db.repo
- D. /etc/resolv.conf

**Answer: C**

#### NEW QUESTION 142

A cloud engineer needs to remove all dangling images and delete all the images that do not have an associated container. Which of the following commands will help to accomplish this task?

- A. `docker images prune -a`
- B. `docker push images -a`
- C. `docker rmi -a images`
- D. `docker images rmi --all`

**Answer: A**

#### NEW QUESTION 145

A systems administrator configured firewall rules using firewalld. However, after the system is rebooted, the firewall rules are not present:

The systems administrator makes additional checks:

Which of the following is the reason the firewall rules are not active?

- A. iptables is conflicting with firewalld.
- B. The wrong system target is activated.
- C. FIREWALL\_ARGS has no value assigned.
- D. The firewalld service is not enabled.

**Answer: D**

#### NEW QUESTION 149

A cloud engineer needs to check the link status of a network interface named eth1 in a Linux server. Which of the following commands can help to achieve the goal?

- A. `ifconfig hw eth1`
- B. `netstat -r eth1`
- C. `ss -ti eth1`
- D. `ip link show eth1`

**Answer: D**

#### NEW QUESTION 153

A Linux administrator is trying to remove the ACL from the file /home/user/data.txt but receives the following error message:

Given the following analysis:

Which of the following is causing the error message?

- A. The administrator is not using a highly privileged account.
- B. The filesystem is mounted with the wrong options.
- C. SELinux file context is denying the ACL changes.
- D. File attributes are preventing file modification.

**Answer:** D

#### NEW QUESTION 155

Joe, a user, is unable to log in to the Linux system Given the following output:

Which of the following command would resolve the issue?

- A. `usermod -s /bin/bash joe`
- B. `pam_tally2 -u joe -r`
- C. `passwd -u joe`
- D. `chage -E 90 joe`

**Answer:** A

#### NEW QUESTION 157

A developer reported an incident involving the application configuration file `/etc/httpd/conf/httpd.conf` that is missing from the server. Which of the following identifies the RPM package that installed the configuration file?

- A. `rpm -qf /etc/httpd/conf/httpd.conf`
- B. `rpm -ql /etc/httpd/conf/httpd.conf`
- C. `rpm --query /etc/httpd/conf/httpd.conf`
- D. `rpm -q /etc/httpd/conf/httpd.conf`

**Answer:** A

#### NEW QUESTION 158

A Linux administrator needs to create a new user named `user02`. However, `user02` must be in a different home directory, which is under `/comptia/projects`. Which of the following commands will accomplish this task?

- A. `useradd -d /comptia/projects user02`
- B. `useradd -m /comptia/projects user02`
- C. `useradd -b /comptia/projects user02`
- D. `useradd -s /comptia/projects user02`

**Answer:** A

#### NEW QUESTION 161

A Linux administrator wants to find out whether files from the `wget` package have been altered since they were installed. Which of the following commands will provide the correct information?

- A. `rpm -i wget`
- B. `rpm -qf wget`
- C. `rpm -F wget`
- D. `rpm -V wget`

**Answer:** D

#### NEW QUESTION 162

After installing some RPM packages, a systems administrator discovers the last package that was installed was not needed. Which of the following commands can be used to remove the package?

- A. `dnf remove packagename`
- B. `apt-get remove packagename`
- C. `rpm -i packagename`
- D. `apt remove packagename`

**Answer:** A

#### NEW QUESTION 165

In which of the following filesystems are system logs commonly stored?

- A. `/var`
- B. `/tmp`
- C. `/etc`
- D. `/opt`

**Answer:** A

**NEW QUESTION 166**

A Linux administrator needs to obtain a list of all volumes that are part of a volume group. Which of the following commands should the administrator use to accomplish this task?

- A. vgs
- B. lvs
- C. fdisk -l
- D. pvs

**Answer: D**

**NEW QUESTION 169**

A Linux engineer has been notified about the possible deletion of logs from the file `/opt/app/logs`. The engineer needs to ensure the log file can only be written into without removing previous entries.

Which of the following commands would be BEST to use to accomplish this task?

- A. `chattr +a /opt/app/logs`
- B. `chattr +d /opt/app/logs`
- C. `chattr +i /opt/app/logs`
- D. `chattr +c /opt/app/logs`

**Answer: A**

**NEW QUESTION 174**

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.

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**

#### NEW QUESTION 175

A Linux engineer is setting the sticky bit on a directory called devops with 755 file permission. Which of the following commands will accomplish this task?

- A. `chown -s 755 devops`
- B. `chown 1755 devops`
- C. `chmod -s 755 devops`
- D. `chmod 1755 devops`

**Answer: D**

#### NEW QUESTION 176

An administrator transferred a key for SSH authentication to a home directory on a remote server. The key file was moved to `.ssh/authorized_keys` location in order to establish SSH connection without a password. However, the SSH command still asked for the password. Given the following output:

Which of the following commands would resolve the issue?

- A. `restorecon .ssh/authorized_keys`
- B. `ssh_keygen -t rsa -o .ssh/authorized_keys`
- C. `chown root:root .ssh/authorized_keys`
- D. `chmod 600 .ssh/authorized_keys`

**Answer: A**

#### NEW QUESTION 180

An administrator deployed a Linux server that is running a web application on port 6379/tcp. SELinux is in enforcing mode based on organization policies. The port is open on the firewall.

Users who are trying to connect to a local instance of the web application receive Error 13, Permission denied. The administrator ran some commands that resulted in the following output:

Which of the following commands should be used to resolve the issue?

- A. `semanage port -d -t http_port_t -p tcp 6379`
- B. `semanage port -a -t http_port_t -p tcp 6379`
- C. `semanage port -a http_port_t -p top 6379`
- D. `semanage port -l -t http_port_tcp 6379`

**Answer: B**

#### NEW QUESTION 185

A Linux administrator found many containers in an exited state. Which of the following commands will allow the administrator to clean up the containers in an exited state?

- A. `docker rm --all`
- B. `docker rm $(docker ps -aq)`
- C. `docker images prune *`
- D. `docker rm --state exited`

**Answer: D**

#### NEW QUESTION 190

An administrator is trying to diagnose a performance issue and is reviewing the following output:

System Properties: CPU: 4 vCPU

Memory: 40GB

Disk maximum IOPS: 690

Disk maximum throughput: 44Mbps | 44000Kbps

Based on the above output, which of the following BEST describes the root cause?

- A. The system has reached its maximum IOPS, causing the system to be slow.
- B. The system has reached its maximum permitted throughput, therefore `iowait` is increasing.
- C. The system is mostly idle, therefore the `iowait` is high.
- D. The system has a partitioned disk, which causes the IOPS to be doubled.

**Answer: B**

#### NEW QUESTION 192

A Linux engineer needs to create a custom script, `cleanup.sh`, to run at boot as part of the system services. Which of the following processes would accomplish this task?

- A. Create a unit file in the `/etc/default/` director
- B. `systemctl enable cleanupsystemctl is-enabled cleanup`
- C. Create a unit file in the `/etc/ske1/` director
- D. `systemctl enable cleanupsystemctl is-enabled cleanup`
- E. Create a unit file in the `/etc/systemd/system/` director
- F. `systemctl enable cleanupsystemctl is-enabled cleanup`
- G. Create a unit file in the `/etc/sysctl.d/` director
- H. `systemctl enable cleanupsystemctl is-enabled cleanup`

**Answer: C**

#### NEW QUESTION 196

A cloud engineer is asked to copy the file `deployment.yaml` from a container to the host where the container is running. Which of the following commands can accomplish this task?

- A. `docker cp container_id/deployment.yaml deployment.yaml`
- B. `docker cp container_id:/deployment.yaml deployment.yaml`
- C. `docker cp deployment.yaml local://deployment.yaml`
- D. `docker cp container_id/deployment.yaml local://deployment.yaml`

**Answer: A**

#### NEW QUESTION 201

A systems administrator made some changes in the `~/.bashrc` file and added an alias command. When the administrator tried to use the alias command, it did not work. Which of the following should be executed FIRST?

- A. `source ~/.bashrc`
- B. `read ~/.bashrc`
- C. `touch ~/.bashrc`
- D. `echo ~/.bashrc`

**Answer: A**

#### NEW QUESTION 206

A developer has been unable to remove a particular data folder that a team no longer uses. The developer escalated the issue to the systems administrator. The following output was received:

Which of the following commands can be used to resolve this issue?

- A. `chgrp -R 755 data/`
- B. `chmod -R 777 data/`
- C. `chattr -R -i data/`
- D. `chown -R data/`

**Answer: C**

#### NEW QUESTION 209

Using AD Query, the security gateway connections to the Active Directory Domain Controllers using what protocol?

- A. Windows Management Instrumentation (WMI)
- B. Hypertext Transfer Protocol Secure (HTTPS)
- C. Lightweight Directory Access Protocol (LDAP)
- D. Remote Desktop Protocol (RDP)

**Answer: A**

#### NEW QUESTION 212

A systems administrator created a new Docker image called `test`. After building the image, the administrator forgot to version the release. Which of the following will allow the administrator to assign the `v1` version to the image?

- A. `docker image save test test:v1`
- B. `docker image build test:v1`
- C. `docker image tag test test:v1`
- D. `docker image version test:v1`

**Answer: C**

#### NEW QUESTION 216

A systems administrator installed a new software program on a Linux server. When the systems administrator tries to run the program, the following message appears on the screen.

Which of the following commands will allow the systems administrator to check whether the system supports virtualization?

- A. `dmidecode -s system-version`
- B. `lscpu`
- C. `sysctl -a`
- D. `cat /sys/device/system/cpu/possible`

**Answer: B**

#### NEW QUESTION 220

A systems administrator is checking the system logs. The administrator wants to look at the last 20 lines of a log. Which of the following will execute the command?

- A. tail -v 20
- B. tail -n 20
- C. tail -c 20
- D. tail -l 20

**Answer:** B

#### NEW QUESTION 224

A Linux administrator booted up the server and was presented with a non-GUI terminal. The administrator ran the command `systemctl isolate graphical.target` and rebooted the system by running `systemctl reboot`, which fixed the issue. However, the next day the administrator was presented again with a non-GUI terminal. Which of the following is the issue?

- A. The administrator did not reboot the server properly.
- B. The administrator did not set the default target to `basic.target`.
- C. The administrator did not set the default target to `graphical.target`.
- D. The administrator did not shut down the server properly.

**Answer:** C

#### NEW QUESTION 227

To harden one of the servers, an administrator needs to remove the possibility of remote administrative login via the SSH service. Which of the following should the administrator do?

- A. Add the line `DenyUsers root` to the `/etc/hosts.deny` file.
- B. Set `PermitRootLogin` to `no` in the `/etc/ssh/sshd_config` file.
- C. Add the line `account required pam_nologin`
- D. so to the `/etc/pam.d/sshd` file.
- E. Set `PubKeyAuthentication` to `no` in the `/etc/ssh/ssh_config` file.

**Answer:** B

#### NEW QUESTION 230

Which of the following technologies provides load balancing, encryption, and observability in containerized environments?

- A. Virtual private network
- B. Sidecar pod
- C. Overlay network
- D. Service mesh

**Answer:** D

#### Explanation:

"A service mesh controls the delivery of service requests in an application. Common features provided by a service mesh include service discovery, load balancing, encryption and failure recovery."

<https://www.techtarget.com/searchitoperations/definition/service-mesh>

#### NEW QUESTION 233

A systems administrator wants to test the route between IP address 10.0.2.15 and IP address 192.168.1.40. Which of the following commands will accomplish this task?

- A. `route -e get to 192.168.1.40 from 10.0.2.15`
- B. `ip route get 192.163.1.40 from 10.0.2.15`
- C. `ip route 192.169.1.40 to 10.0.2.15`
- D. `route -n 192.168.1.40 from 10.0.2.15`

**Answer:** B

#### NEW QUESTION 236

Users have been unable to save documents to `/home/tmp/temp` and have been receiving the following error: Path not found

A junior technician checks the locations and sees that `/home/tmp/tempa` was accidentally created instead of `/home/tmp/temp`. Which of the following commands should the technician use to fix this issue?

- A. `cp /home/tmp/tempa /home/tmp/temp`
- B. `mv /home/tmp/tempa /home/tmp/temp`
- C. `cd /temp/tmp/tempa`
- D. `ls /home/tmp/tempa`

**Answer:** B

#### NEW QUESTION 237

A systems administrator is investigating an issue in which one of the servers is not booting up properly. The `journalctl` entries show the following:

Which of the following will allow the administrator to boot the Linux system to normal mode quickly?

- A. Comment out the `/opt/app` filesystem in `/etc/fstab` and reboot.
- B. Reformat the `/opt/app` filesystem and reboot.
- C. Perform filesystem checks on local filesystems and reboot.

D. Trigger a filesystem relabel and reboot.

**Answer:** A

**NEW QUESTION 240**

A systems administrator is encountering performance issues. The administrator runs 3 commands with the following output

The Linux server has the following system properties CPU: 4 vCPU

Memory: 50GB

Which of the following accurately describes this situation?

- A. The system is under CPU pressure and will require additional vCPUs
- B. The system has been running for over a year and requires a reboot.
- C. Too many users are currently logged in to the system
- D. The system requires more memory

**Answer:** B

**NEW QUESTION 245**

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