

CompTIA

Exam Questions XK0-005

CompTIA Linux+ Certification Exam



NEW QUESTION 1

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

```
tls:
  certificates:
    - certFile: /etc/ssl/cert.cer
      keyFile: /etc/ssl/cert.key
      stores: default
    - certFile: /etc/ssl/expired.cer
      keyFile: /etc/ssl/expired.key
      stores: expired
```

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 rooteiO.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

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 4

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 5

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 6

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:

```
TIMESTAMP=$(date '+%Y-%m-%d %H:%M:%S')
echo "helpme.service: timestamp $(Timestamp)" | systemd-cat -p info
sleep 60
done
```

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 7

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 8

A Linux administrator is adding a new configuration file to a Git repository. Which of the following describes the correct order of Git commands to accomplish the task successfully?

- A. pull -> push -> add -> checkout
- B. pull -> add -> commit -> push
- C. checkout -> push -> add -> pull
- D. pull -> add -> push -> commit

Answer: B

NEW QUESTION 9

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

```
Checking all file systems.
/dev/sda1 contains a file system with errors, check forced.
/dev/sda1: Inodes that were part of a corrupted orphan linked list found.
/dev/sda1: UNEXPECTED INCONSISTENCY;
```

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 10

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 10

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 11

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:

Output 1:

```
Dec 23 23:14:15 root systemd[1] logsearch.service: Failed to start Logsearch.
```

Output 2:

```
logsearch.service - Log Search
Loaded: loaded (/etc/systemd/system/logsearch.service; enabled; vendor preset:enabled)
Active: failed (Result: timeout)
Process: 3267 ExecStart=/usr/share/logsearch/bin/logger ...
Main PID: 3267 (code=killed, signal=KILL)
```

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 13

A systems administrator needs to check if the service systemd-resolved.service is running without any errors. Which of the following commands will show this information?

- A. systemctl status systemd-resolved.service
- B. systemctl enable systemd-resolved.service
- C. systemctl mask systemd-resolved.service
- D. systemctl show systemd-resolved.service

Answer: A

NEW QUESTION 17

A systems administrator is tasked with setting up key-based SSH authentication. In which of the following locations should the administrator place the public keys for the server?

- A. ~/.ssh/authkeys
- B. ~/.ssh/keys
- C. ~/.ssh/authorized_keys
- D. ~/.ssh/keyauth

Answer: C

NEW QUESTION 19

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 24

A systems administrator needs to clone the partition /dev/sdc1 to /dev/sdd1. Which of the following commands will accomplish this task?

- A. tar -cvzf /dev/sdd1 /dev/sdc1
- B. rsync /dev/sdc1 /dev/sdd1
- C. dd if=/dev/sdc1 of=/dev/sdd1

D. `scp /dev/sdc1 /dev/sdd1`

Answer: C

NEW QUESTION 29

A systems administrator is tasked with creating an Ansible playbook to automate the installation of patches on several Linux systems. In which of the following languages should the playbook be written?

- A. SQL
- B. YAML
- C. HTML
- D. JSON

Answer: B

NEW QUESTION 34

Which of the following directories is the mount point in a UEFI system?

- A. `/sys/efi`
- B. `/boot/efi`
- C. `/efi`
- D. `/etc/efi`

Answer: B

NEW QUESTION 38

A Linux systems administrator is setting up a new web server and getting 404 - NOT FOUND errors while trying to access the web server pages from the browser. While working on the diagnosis of this issue, the Linux systems administrator executes the following commands:

```
# getenforce
Enforcing

# matchpathcon -V /var/www/html/*
/var/www/html/index.html has context unconfined_u:object_r:user_home_t:s0, should be system_u:object_r:httpd_sys_content_t:s0
/var/www/html/page1.html has context unconfined_u:object_r:user_home_t:s0, should be system_u:object_r:httpd_sys_content_t:s0
```

Which of the following commands will BEST resolve this issue?

- A. `sed -i 's/SELINUX=enforcing/SELINUX=disabled/' /etc/selinux/config`
- B. `restorecon -R -v /var/www/html`
- C. `setenforce 0`
- D. `setsebool -P httpd_can_network_connect_db on`

Answer: B

NEW QUESTION 40

A Linux administrator has set up a new DNS forwarder and is configuring all internal servers to use the new forwarder to look up external DNS requests. The administrator needs to modify the firewall on the server for the DNS forwarder to allow the internal servers to communicate to it and make the changes persistent between server reboots. Which of the following commands should be run on the DNS forwarder server to accomplish this task?

- A. `ufw allow out dns`
- B. `systemctl reload firewalld`
- C. `iptables -A OUTPUT -p udp -ra udp -dport 53 -j ACCEPT`
- D. `firewall-cmd --zone-public --add-port-53/udp --permanent`

Answer: D

NEW QUESTION 43

When trying to log in remotely to a server, a user receives the following message:

```
Password:
Last failed login: Wed Sep 15 17:23:45 CEST 2021 from 10.0.4.3 on ssh:notty
There were 3 failed login attempts since the last successful login.
Connection to localhost closed.
```

The server administrator is investigating the issue on the server and receives the following outputs:

Output 1:

```
user:x:1001:7374::/home/user:/bin/false
```

Output 2:

```
drwx-----, 2 user 62 Sep 15 17:17 /home/user
```

Output 3:

```
Sep 12 14:14:05 server sshd[22958]: Failed password for user from 10.0.2.8
Sep 15 17:24:03 server sshd[1460]: Accepted keyboard-interactive/pam for user from 10.0.6.5 port 50928 ssh2
Sep 15 17:24:03 server sshd[1460]: pam_unix(sshd:session): session opened for user testuser
Sep 15 17:24:03 server sshd[1460]: pam_unix(sshd:session): session closed for user testuser
```

Which of the following is causing the issue?

- A. The wrong permissions are on the user's home directory.
- B. The account was locked out due to three failed logins.
- C. The user entered the wrong password.
- D. The user has the wrong shell assigned to the account.

Answer: D

NEW QUESTION 46

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 48

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 52

A user is asking the systems administrator for assistance with writing a script to verify whether a file exists. Given the following:

```
#!/bin/bash
filename=$1
<CONDITIONAL>
echo "File exists"
else
echo "File does not exist"
fi
```

Which of the following commands should replace the <CONDITIONAL> string?

- A. if [-f "\$filename"]; then
- B. if [-d "\$filename"]; then
- C. if [-f "\$filename"] then
- D. if [-f "\$filename"]; while

Answer: A

NEW QUESTION 57

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 59

A Linux administrator has been tasked with installing the most recent versions of packages on a RPM-based OS. Which of the following commands will accomplish this task?

- A. apt-get upgrade
- B. rpm -a
- C. yum updateinfo
- D. dnf update
- E. yum check-update

Answer: D

NEW QUESTION 61

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

```
$ uptime
07:30:43 up 20 days, 3 min, 1 user, load average: 2.98, 3.62, 5.21

$ top
PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND
6295 user1 30 -10 5465 56465 8254 R 86.5 1.5 7:35.25 appl

$ ps -ef | grep user1
user1 6295 1 7:42:19 tty/1 06:48:29 /usr/local/bin/appl
```

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 64

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 66

A Linux administrator needs to determine whether a hostname is in the DNS. Which of the following would supply the information that is needed?

- A. nslookup
- B. rsyn
- C. netstat
- D. host

Answer: A

NEW QUESTION 71

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 76

What is the main objective when using Application Control?

- A. To filter out specific content.
- B. To assist the firewall blade with handling traffic.
- C. To see what users are doing.
- D. Ensure security and privacy of information.

Answer: C

NEW QUESTION 78

A Linux administrator needs to ensure that Java 7 and Java 8 are both locally available for developers to use when deploying containers. Currently only Java 8 is available. Which of the following commands should the administrator run to ensure both versions are available?

- A. docker image load java:7
- B. docker image pull java:7
- C. docker image import java:7
- D. docker image build java:7

Answer: B

NEW QUESTION 82

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 84

A systems administrator is tasked with creating a cloud-based server with a public IP address.

```
---
-name: start an instance with a public IP address
community.abc.ec2_instance:
  name: "public-compute-instance"
  key_name: "comptia-ssh-key"
  vpc_subnet_id: subnet-5cjs1
  instance_type: instance.type
  security_group: comptia
  network:
    assign_public_ip: true
  image_id: ami-1234568
  tags:
    Environment: Comptia-Items-Writing-Workshop
...
```

Which of the following technologies did the systems administrator use to complete this task?

- A. Puppet
- B. Git
- C. Ansible
- D. Terraform

Answer: D

NEW QUESTION 88

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 92

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 94

Which of the following commands will display the operating system?

- A. `uname -n`
- B. `uname -s`
- C. `uname -o`
- D. `uname -m`

Answer: C

NEW QUESTION 97

A systems administrator made some unapproved changes prior to leaving the company. The newly hired administrator has been tasked with revealing the system to a compliant state. Which of the following commands will list and remove the correspondent packages?

- A. `dnf list` and `dnf remove last`
- B. `dnf remove` and `dnf check`
- C. `dnf info` and `dnf upgrade`
- D. `dnf history` and `dnf history undo last`

Answer: D

NEW QUESTION 101

A developer is trying to install an application remotely that requires a graphical interface for installation. The developer requested assistance to set up the necessary environment variables along with X11 forwarding in SSH. Which of the following environment variables must be set in remote shell in order to launch the graphical interface?

- A. `$RHOST`
- B. `SETENV`
- C. `$SHELL`
- D. `$DISPLAY`

Answer: D

NEW QUESTION 103

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 107

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 event 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:

```
yum install httpd
systemctl --now enable httpd systemctl status httpd
netstat -tunlp | grep 80 pkill <processname> systemctl restart httpd systemctl status httpd
```

NEW QUESTION 111

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

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

Answer: A

NEW QUESTION 113

A new file was added to a main Git repository. An administrator wants to synchronize a local copy with the contents of the main repository. Which of the following commands should the administrator use for this task?

- A. git reflog
- B. git pull
- C. git status
- D. git push

Answer: B

NEW QUESTION 115

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:

```
[admin@linux ~ ]$ -ls -lhZ .ssh/auth*
-rw-r--r--. admin unconfined_u:object_r:user_home_t:s0 .ssh/authorized_keys
```

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 119

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

```
avg-cpu:  %user  %nice  %system  %iowait  %steal  %idle
           2.00   0.00   3.00    32.00   0.00   63.00

Device            tps  kB_read/s  kB_wrtn/s   kB_read  kB_wrtn
sdb                345.00     0.02      0.04 4739073123 23849523
sdb1               345.00  32102.03  12203.01 4739073123 23849523
```

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 122

A Linux administrator needs to analyze a failing application that is running inside a container. Which of the following commands allows the Linux administrator to enter the running container and analyze the logs that are stored inside?

- A. `docker run -ti app /bin/sh`
- B. `podman exec -ti app /bin/sh`
- C. `podman run -d app /bin/bash`
- D. `docker exec -d app /bin/bash`

Answer: B

NEW QUESTION 126

A systems administrator needs to verify whether the built container has the `app.go` file in its root directory. Which of the following can the administrator use to verify the root directory has this file?

- A. `docker image inspect`
- B. `docker container inspect`
- C. `docker exec <container_name> ls`
- D. `docker ps <container_name>`

Answer: B

NEW QUESTION 128

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.

```
Hardware virtualization support is not available on this system.
Either is not present or disabled in the system's BIOS
```

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 131

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 133

A new Linux systems administrator just generated a pair of SSH keys that should allow connection to the servers. Which of the following commands can be used to copy a key file to remote servers? (Choose two.)

- A. wget
- B. ssh-keygen
- C. ssh-keyscan
- D. ssh-copy-id
- E. ftpd
- F. scp

Answer: DF

NEW QUESTION 138

A Linux user reported the following error after trying to connect to the system remotely: ssh: connect to host 10.0.1.10 port 22: Resource temporarily unavailable
 The Linux systems administrator executed the following commands in the Linux system while trying to diagnose this issue:

```
# netstat -an | grep 22 | grep LISTEN
tcp        0      0      0.0.0.0:22          0.0.0.0:*        LISTEN

# firewall-cmd --list-all
public (active)
  target: default
  icmp-block-inversion: no
  interfaces: eth0
  sources:
  services: dhcpv6-client
  ports:
  protocols:
  masquerade: no
    forward-ports:
    source-ports:
    icmp-blocks:
    rich rules:
```

Which of the following commands will resolve this issue?

- A. firewall-cmd --zone=public --permanent --add-service=22
- B. systemctl enable firewalld; systemctl restart firewalld
- C. firewall-cmd --zone=public --permanent --add-service=ssh
- D. firewall-cmd --zone=public --permanent --add-port=22/udp

Answer: C

NEW QUESTION 141

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

```
09:10:18 up 457 days, 32min, 5 users, load average: 4.22 6.63 5.98
```

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 142

A systems administrator requires that all files that are created by the user named web have read-only permissions by the owner. Which of the following commands will satisfy this requirement?

- A. chown web:web /home/web
- B. chmod -R 400 /home/web
- C. echo "umask 377" >> /home/web/.bashrc
- D. setfacl read /home/web

Answer: B

NEW QUESTION 143

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