

CompTIA

Exam Questions XK0-005

CompTIA Linux+ Certification Exam



NEW QUESTION 1

A Linux administrator cloned an existing Linux server and built a new server from that clone. The administrator encountered the following error after booting the cloned server:

Device mismatch detected

The administrator performed the commands listed below to further troubleshoot and mount the missing filesystem:

```
#ls -al /dev/disk/by-uuid/  
total 0  
drwxr-xr-x 2 root 220 Jul 08:59 .  
drwxr-xr-x 2 root 160 Jul 08:59 ..  
lrwxrwxrwx 1 root 26 Jul 11:10 2251a54-6c14-9187-df8629373 -> ../../sdb  
lrwxrwxrwx 1 root 26 Jul 11:10 4211c54-2a13-7291-bd8629373 -> ../../sdc  
lrwxrwxrwx 1 root 26 Jul 11:10 3451b54-6d10-3561-ad8629373 -> ../../sdd
```

Which of the following should administrator use to resolve the device mismatch issue and mount the disk?

- A. mount disk by device-id
- B. fsck -A
- C. mount disk by-label
- D. mount disk by-blkid

Answer: D

NEW QUESTION 2

Which of the following data structures is written in JSON?

A)

```
---  
name: user1  
position: DevOps  
floor: 3
```

B)

```
<table>  
<tbody><tr>  
<td>user1</td>  
<td>DevOps</td>  
<td>3</td>  
</tr>  
</tbody></table>
```

C)

```
<root>  
  <floor>3</floor>  
  <name>user1</name>  
  <position>DevOps</position>  
</root>
```

D)

```
{  
  "name": "user1",  
  "job": "DevOps",  
  "floor": 3  
}
```

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

Answer: D

NEW QUESTION 3

A systems administrator is tasked with preventing logins from accounts other than root, while the file /etc/nologin exists. Which of the following PAM modules will accomplish this task?

- A. pam_login.so
- B. pam_access.so
- C. pam_logindef.so
- D. pam_nologin.so

Answer: D

NEW QUESTION 4

A Linux engineer receives reports that files created within a certain group are being modified by users who are not group members. The engineer wants to reconfigure the server so that only file owners and group members can modify new files by default. Which of the following commands would accomplish this task?

- A. chmod 775
- B. umas
- C. 002
- D. chactr -Rv
- E. chown -cf

Answer: B

NEW QUESTION 5

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 6

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 7

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 8

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 9

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 10

While inspecting a recently compromised Linux system, the administrator identified a number of processes that should not have been running:

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
5545	joe	30	-10	5465	56465	8254	R	0.5	1.5	00:35.3	upload.sh
2567	joe	30	-10	6433	75544	9453	R	0.7	1.8	00:25.1	upload_passwd.sh
8634	joe	30	-10	3584	74537	6435	R	0.3	1.1	00:17.6	uploadpw.sh
4846	joe	30	-10	6426	63234	9683	R	0.8	1.9	00:22.2	upload_shadow.sh

Which of the following commands should the administrator use to terminate all of the identified processes?

- A. pkill -9 -f "upload*.sh"
- B. kill -9 "upload*.sh"
- C. killall -9 -upload*.sh"
- D. skill -9 "upload*.sh"

Answer: C

NEW QUESTION 10

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 15

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.

```
# Min/max values for automatic uid selection in useradd
#
UID_MIN 1000
UID_MAX 60000
# Min/max values for automatic gid selection in groupadd
#
GID_MIN 1000
GID_MAX 60000
```

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 18

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 19

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 23

A systems administrator is compiling a report containing information about processes that are listening on the network ports of a Linux server. Which of the following commands will allow the administrator to obtain the needed information?

- A. ss -pint
- B. tcpdump -nL
- C. netstat -pn
- D. lsof -lt

Answer: C

NEW QUESTION 25

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/ipv_forward
- B. sysctl -w net.ipv4.ip_forward=1
- C. firewall-cmd --enable ipv4_forwarding
- D. systemctl start ipv4_forwarding

Answer: B

NEW QUESTION 27

A Linux administrator has installed a web server, a database server, and a web application on a server. The web application should be active in order to render the web pages. After the administrator restarts the server, the website displays the following message in the browser: Error establishing a database connection. The Linux administrator reviews the following relevant output from the systemd init files:

```
[Unit]
Description=The Apache #HTTP Server
Wants=httpd-init.service
After=network.target remote-fs.target nss-lookup-target httpd-init.service mariadb.service

[Unit]
Description=MariaDB 10.5 database server
After=network.target
```

The administrator needs to ensure that the database is available before the web application is started. Which of the following should the administrator add to the HTTP server .service file to accomplish this task?

- A. TRIGGERS=mariadb.service
- B. ONFAILURE=mariadb.service
- C. WANTEDBY=mariadb.service
- D. REQUIRES=mariadb.service

Answer: D

NEW QUESTION 30

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 34

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?

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


```
pvccreate -L1G /dev/app  
mkfs.xfs /dev/app  
mount /dev/app /opt/app
```

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

```
parted /dev/sdb --script mkpart primary xfs 1GB  
mkfs.xfs /dev/sdb  
mount /dev/sdb /opt/app
```

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

```
lvs --create 1G --name app  
mkfs.xfs /dev/app  
mount /dev/app /opt/app
```

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

```
lvcreate -L 1G -n app app_vg  
mkfs.xfs /dev/app_vg/app  
mount /dev/app_vg/app /opt/app
```

Answer: D

NEW QUESTION 36

A DevOps engineer needs to allow incoming traffic to ports in the range of 4000 to 5000 on a Linux server. Which of the following commands will enforce this rule?

- A. iptables -f filter -I INPUT -p tcp --dport 4000:5000 -A ACCEPT
- B. iptables -t filter -A INPUT -p tcp --dport 4000:5000 -j ACCEPT
- C. iptables filter -A INPUT -p tcp --dport 4000:5000 -D ACCEPT
- D. iptables filter -S INPUT -p tcp --dport 4000:5000 -A ACCEPT

Answer: B

NEW QUESTION 38

A Linux administrator is tasked with creating resources using containerization. When deciding how to create this type of deployment, the administrator identifies some key features, including portability, high availability, and scalability in production. Which of the following should the Linux administrator choose for the new design?

- A. Docker
- B. On-premises systems
- C. Cloud-based systems
- D. Kubernetes

Answer: D

NEW QUESTION 41

Which of the following files holds the system configuration for journal when running systemd?

- A. /etc/systemd/journald.conf
- B. /etc/systemd/systemd-journalctl.conf
- C. /usr/lib/systemd/journalctl.conf
- D. /etc/systemd/systemd-journald.conf

Answer: A

NEW QUESTION 43

A systems administrator is tasked with mounting a USB drive on a system. The USB drive has a single partition, and it has been mapped by the system to the device /dev/sdb. Which of the following commands will mount the USB to /media/usb?

- A. mount /dev/sdb1 /media/usb
- B. mount /dev/sdb0 /media/usb
- C. mount /dev/sdb /media/usb
- D. mount -t usb /dev/sdb1 /media/usb

Answer: A

NEW QUESTION 45

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 47

Developers have requested implementation of a persistent, static route on the application server. Packets sent over the interface eth0 to 10.0.213.5/32 should be routed via 10.0.5.1. Which of the following commands should the administrator run to achieve this goal?

- A. route -i eth0 -p add 10.0.213.5 10.0.5.1
- B. route modify eth0 +ipv4.routes "10.0.213.5/32 10.0.5.1"
- C. echo "10.0.213.5 10.0.5.1 eth0" > /proc/net/route
- D. ip route add 10.0.213.5/32 via 10.0.5.1 dev eth0

Answer: D

NEW QUESTION 50

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.

```
$ systemctl get-default  
getty.target
```

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 51

A Linux systems administrator receives a notification that one of the server's filesystems is full. Which of the following commands would help the administrator to identify this filesystem?

- A. lsblk
- B. fdisk
- C. df -h
- D. du -ah

Answer: C

NEW QUESTION 56

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 59

A Linux administrator needs to redirect all HTTP traffic temporarily to the new proxy server 192.0.2.25 on port 3128. Which of the following commands will accomplish this task?

- A. iptables -t nat -D PREROUTING -p tcp --sport 80 -j DNAT - -to-destination 192.0.2.25:3128
- B. iptables -t nat -A PREROUTING -p top --dport 81 -j DNAT --to-destination 192.0.2.25:3129
- C. iptables -t nat -I PREROUTING -p top --sport 80 -j DNAT --to-destination 192.0.2.25:3129
- D. iptables -t nat -A PREROUTING -p tcp --dport 80 -j DNAT --to-destination 192.0.2.25:3128

Answer: D

NEW QUESTION 63

A Linux administrator recently downloaded a software package that is currently in a compressed file. Which of the following commands will extract the files?

- A. unzip -v
- B. bzip2 -z
- C. gzip
- D. funzip

Answer: C

NEW QUESTION 64

A Linux system is failing to start due to issues with several critical system processes. Which of the following options can be used to boot the system into the single user mode? (Choose two.)

- A. Execute the following command from the GRUB rescue shell: mount -o remount, ro/sysroot.
- B. Interrupt the boot process in the GRUB menu and add systemd.unit=single in the kernel line.
- C. Interrupt the boot process in the GRUB menu and add systemd.unit=rescue.target in the kernel line.
- D. Interrupt the boot process in the GRUB menu and add single=user in the kernel line.
- E. Interrupt the boot process in the GRUB menu and add init=/bin/bash in the kernel line.
- F. Interrupt the boot process in the GRUB menu and add systemd.unit=single.target in the kernel line.

Answer: CE

NEW QUESTION 65

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 69

A systems administrator has been tasked with disabling the nginx service from the environment to prevent it from being automatically and manually started. Which of the following commands will accomplish this task?

- A. systemctl cancel nginx
- B. systemctl disable nginx
- C. systemctl mask nginx
- D. systemctl stop nginx

Answer: C

NEW QUESTION 70

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

Answer: C

NEW QUESTION 71

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 74

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  app1
```

```
$ ps -ef | grep user1
user1 6295 1 7:42:19 tty/1 06:48:29 /usr/local/bin/app1
```

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 77

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 80

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:

```
Send-mail: Cannot open mail:25
```

The local machine DNS settings are:

```
$ cat /etc/resolv.conf
nameserver 10.10.10.10 #web records
nameserver 10.10.10.20 #email records
```

```
Mail server: mail.example.com
```

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 83

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 84

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 88

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 92

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 93

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:

```
# netstat -anp | grep appd | grep -w LISTEN
tcp 0 0 127.0.0.1:9443 0.0.0.0:* LISTEN 1234/appd
```

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 95

A Linux administrator needs to correct the permissions of a log file on the server. Which of the following commands should be used to set filename.log permissions to -rwxr--r--. ?

- A. chmod 755 filename.log
- B. chmod 640 filename.log
- C. chmod 740 filename.log
- D. chmod 744 filename.log

Answer: D

NEW QUESTION 99

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 103

A Linux system is failing to boot with the following error:

```
error: no such partitions
Entering rescue mode...
grub rescue>
```

Which of the following actions will resolve this issue? (Choose two.)

- A. Execute grub-install --root-directory=/mnt and reboot.
- B. Execute grub-install /dev/sdX and reboot.
- C. Interrupt the boot process in the GRUB menu and add rescue to the kernel line.
- D. Fix the partition modifying /etc/default/grub and reboot.
- E. Interrupt the boot process in the GRUB menu and add single to the kernel line.
- F. Boot the system on a LiveCD/ISO.

Answer: BD

NEW QUESTION 107

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 112

A user generated a pair of private-public keys on a workstation. Which of the following commands will allow the user to upload the public key to a remote server and enable passwordless login?

- A. scp ~/.ssh/id_rsa user@server:~/
- B. rsync ~ /.ssh/ user@server:~/
- C. ssh-add user server
- D. ssh-copy-id user@server

Answer: D

NEW QUESTION 114

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 116

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 118

A Linux administrator is providing a new Nginx image from the registry to local cache. Which of the following commands would allow this to happen?

- A. docker pull nginx
- B. docker attach nginx
- C. docker commit nginx
- D. docker import nginx

Answer: A

NEW QUESTION 120

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 123

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

```
Chain INPUT (policy ACCEPT)
target          prot opt source          destination
Chain FORWARD (policy ACCEPT)
target          prot opt source          destination
Chain OUTPUT (policy ACCEPT)
target          prot opt source          destination
```

The systems administrator makes additional checks:

```
- dynamic firewall daemon
  Loaded: loaded (/usr/lib/systemd/system/firewalld.service: disabled; vendor preset: enabled)
  Active: inactive (dead)
  Docs: man: firewalld (1)

firewalld is not running
```

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 126

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 129

A Linux administrator is installing a web server and needs to check whether web traffic has already been allowed through the firewall. Which of the following commands should the administrator use to accomplish this task?

- A. firewalld query-service-http
- B. firewall-cmd --check-service http
- C. firewall-cmd --query-service http
- D. firewalld --check-service http

Answer: C

NEW QUESTION 131

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. \$TENV
- C. \$SHELL
- D. \$DISPLAY

Answer: D

NEW QUESTION 136

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

```
setfacl: data.txt: operation not permitted
```

Given the following analysis:

```
/dev/mapper/linux-home on /home type xfs (rw,relatime,seclabel,attr2,inode64,usrquota)

-rw-rw-r--+ 1 user staff 2354 Sep 15 16:33 data.txt
-rw-rw-r--+ user staff unconfined_u:object_r:user_home_t:s0 data.txt

# file: data.txt
# owner: user
# group: staff
user::rw-
user:accounting:rw-
group::r-
mask::rw-
other::r-

Attributes:
-----a-----
```

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 141

A Linux administrator wants to set the SUID of a file named dev_team.txt with 744 access rights. Which of the following commands will achieve this goal?

- A. chmod 4744 dev_team.txt
- B. chmod 744 --setuid dev_team.txt
- C. chmod -c 744 dev_team.txt
- D. chmod -v 4744 --suid dev_team.txt

Answer: A

NEW QUESTION 142

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

```
# grep joe /etc/passwd /etc/shadow
/etc/passwd:joe:x:1001:1001::/home/joe:/bin/nologin
/etc/shadow:joe:$6$3uOw6qWx9876jGhgKJsdfH987634534voj.:18883:0:99999:7:::
```

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 146

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 147

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

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

D. /opt

Answer: A

NEW QUESTION 152

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 153

A Linux administrator was notified that a virtual server has an I/O bottleneck. The Linux administrator analyzes the following output:

```
root@linux:~# uptime
18:43:47 up 1 day, 19:58, 1 user, load average: 9.90, 5.83, 2.49
root@linux:~# vmstat 10 10
procs -----memory----- --swap---- ----io---- -system- -----cpu-----

  r b swpd   free   buff   cache si   so bi    bo    in    cs us  sy  id  wa  st
  13 0 5520 141228 98932 2325312 0    2 10    28   192   167 1  0 99  0  0
  10 0 5608 131280 98932 2325324 0 26211 0 26211  342   393 91  9  0  0  0
  10 0 5528   1096 98932 2325324 0  5242 0  5242  333   402 96  4  0  0  0

root@linux:~# free -m

      total used    free shared buff/cache available
Mem:   3933 1454    110     33     2368     2202
Swap:  1497     5    1491
```

Given there is a single CPU in the sever, which of the following is causing the slowness?

- A. The system is running out of swap space.
- B. The CPU is overloaded.
- C. The memory is exhausted.
- D. The processes are paging.

Answer: B

NEW QUESTION 154

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 156

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 160

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:

```
# rmdir data/
rmdir: failed to remove 'data/': Operation not permitted
# rm -rf data/
rm: cannot remove 'data': Operation not permitted
# mv data/ mydata
mv: cannot move 'data/' to 'mydata': Operation not permitted
# cd data/
# cat > test.txt
bash: test.txt: Permission denied
```

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 164

A systems administrator is investigating why one of the servers has stopped connecting to the internet.

```
#curl http://google.com
curl: (6) Could not resolve host: google.com

#cat /etc/resolv.conf
search user.company.com company.com
#nameserver 10.10.10.10

#ip route
0.0.0.0/0 via 10.0.5.1 dev eth0 proto static metric 100
10.0.0.0/16 dev eth0 proto kernel scope link src 10.0.3.60 metric 101

#nmcli connection show
NAME                                UUID                                TYPE      DEVICE
eth0                                ba4a3d30-efdc-4fa5-83d3-3721fd4aff75  ethernet  eth0
Wired connection 1                  8d569d5a-22a2-356d-8532-9a2638f11b5a5  ethernet  --
```

Which of the following is causing the issue?

- A. The DNS address has been commented out in the configuration file.
- B. The search entry in the /etc/resolv.conf file is incorrect.
- C. Wired connection 1 is offline.
- D. No default route is defined.

Answer: A

NEW QUESTION 169

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 170

Employees in the finance department are having trouble accessing the file /opt/work/file. All IT employees can read and write the file. Systems administrator reviews the following output:

```
admin@server:/opt/work$ ls -al file
-rw-rw----+ 1 root it 4 Sep 5 17:29 file
```

Which of the following commands would permanently fix the access issue while limiting access to IT and finance department employees?

- A. chattr +i file

- B. chown it:finance file
- C. chmod 666 file
- D. setfacl -m g:finance:rw file

Answer: D

NEW QUESTION 171

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 174

A server is experiencing intermittent connection issues. Some connections to the Internet work as intended, but some fail as if there is no connectivity. The systems administrator inspects the server configuration:

Routing table:

```
default via 89.107.157.129 dev ens3 proto static metric 100
default via 10.0.5.1 dev ens11 proto dhcp metric 101
10.0.0.0/16 dev sn11 proto kernel scope link src 10.0.6.225 metric 101
89.107.157.128/26 via 89.107.157.129 dev ens3 proto static metric 100
89.107.157.129 dev ens3 proto static scope link metric 100
89.107.157.160/29 dev ens3 proto kernel scope link src 89.107.157.161 metric 100
```

IP configuration:

```
ens3:
    inet 89.107.157.161/29 brd 89.107.157.167 scope global noprefixroute ens3
ens11:
    inet 10.0.6.225/16 brd 10.0.255.255 scope global noprefixroute dynamic ens11
```

ARP table:

Address	Hwtype	Hwaddress	Flags	Mask	Iface
10.0.5.1	ether	64:d1:54:c4:75:cb	C		ens11
89.107.157.129	ether	5c:5e:ab:01:85:cf	C		ens3
89.107.157.162	ether	52:54:00:e1:44:0a	C		ens3
10.0.255.1	ether	00:50:7f:e3:aa:1c	C		ens11

```
/etc/resolv.conf:
Generated by NetworkManager
search company.com
nameserver 10.0.5.1
```

Which of the following is MOST likely the cause of the issue?

- A. An internal-only DNS server is configured.
- B. The IP netmask is wrong for ens3.
- C. Two default routes are configured.
- D. The ARP table contains incorrect entries.

Answer: C

NEW QUESTION 178

Which of the following enables administrators to configure and enforce MFA on a Linux system?

- A. Kerberos
- B. SELinux
- C. PAM
- D. PKI

Answer: A

NEW QUESTION 182

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 186

A Linux administrator is troubleshooting a memory-related issue. Based on the output of the commands:

```
$ vmstat -s --unit M
```

```
968 M total memory
331 M used memory
482 M active memory
279 M inactive memory
99 M free memory
```

```
$ free -h
```

	total	used	free	shared	buff/cache	available
Mem:	968M	331M	95M	13M	540M	458M
Swap:	0	0	0			

```
$ ps -aux | grep script.sh
```

USER	PID	%CPU	%MEM	VSZ	RSS	TTY	STAT	START	TIME	COMMAND
user	8321	2.8	40.5	3224846	371687	7	SN	16:49	2:09	/home/user/script.sh

Which of the following commands would address the issue?

- A. top -p 8321
- B. kill -9 8321
- C. renice -10 8321
- D. free 8321

Answer: C

NEW QUESTION 191

The security team has identified a web service that is running with elevated privileges A Linux administrator is working to change the systemd service file to meet security compliance standards. Given the following output:

```
[Unit]
Description=CompTIA server daemon
Documentation=man:webserver(8) man:webserver_config(5)
After=network.target
```

```
[Service]
Type=notify
EnvironmentFile=/etc/webserver/config
ExecStart=/usr/sbin/webserver -D $OPTIONS
ExecReload=/bin/kill -HUP $MAINPID
KillMode=process
Restart=on-failure
RestartSec=42s
```

```
[Install]
WantedBy=multi-user.target
```

Which of the following remediation steps will prevent the web service from running as a privileged user?

- A. Removing the ExecStarWusr/sbin/webserver -D \$OPTIONS from the service file
- B. Updating the Environment File line in the [Service] section to/home/websevice/config
- C. Adding the User-websevice to the [Service] section of the service file
- D. Changing the:multl-user.target in the [Install] section to basic.target

Answer: A

NEW QUESTION 192

A junior administrator is setting up a new Linux server that is intended to be used as a router at a remote site. Which of the following parameters will accomplish this goal?

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

```
echo 1 > /proc/sys/net/ipv4/ip_forward
iptables -t nat -A PREROUTING -i eth0 -j MASQUERADE
```

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

```
echo 1 > /proc/sys/net/ipv4/ip_forward
iptables -t nat -D POSTROUTING -o eth0 -j MASQUERADE
```

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

```
echo 1 > /proc/sys/net/ipv4/ip_forward
iptables -t nat -A POSTROUTING -o eth0 -j MASQUERADE
```

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

```
echo 1 > /proc/sys/net/ipv4/ip_forward
iptables -t nat -A PREROUTING -o eth0 -j MASQUERADE
```

Answer: A

NEW QUESTION 195

A systems administrator was tasked with assigning the temporary IP address/netmask 192.168.168.1/255.255.255.255 to the interface eth0 of a Linux server. When adding the address, the following error appears:

```
# ip address add 192.168.168.1/33 dev eth0
```

Error: any valid prefix is expected rather than "192.168.168.1/33".

Based on the command and its output above, which of the following is the cause of the issue?

- A. The CIDR value /33 should be /32 instead.
- B. There is no route to 192.168.168.1/33.
- C. The interface eth0 does not exist.
- D. The IP address 192.168.168.1 is already in use.

Answer: C

NEW QUESTION 197

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 199

Due to low disk space, a Linux administrator finding and removing all log files that were modified more than 180 days ago. Which of the following commands will accomplish this task?

- A. find /var/log -type d -mtime +180 -print -exec rm {} \;
- B. find /var/log -type f -modified +180 -rm
- C. find /var/log -type f -mtime +180 -exec rm {} \
- D. find /var/log -type c -atime +180 -remove

Answer: A

NEW QUESTION 200

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