

Exam Questions XK0-005

CompTIA Linux+ Certification Exam

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NEW QUESTION 1

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. umask
- C. 002
- D. chattr -Rv
- E. chown -cf

Answer: B

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:

Partial mode. Incomplete volume groups will be activated read-only

LV	VG	Attr	LSize	Origin	Snap%	Move	Log	Copy%	Devices
linear	vg	-wi-a-	40.00G						unknown device(0)
stripe	vg	-wi-a-	40.00G						unknown device(5120), /dev/sda1(0)

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

In order to copy data from another VLAN, a systems administrator wants to temporarily assign IP address 10.1.6.5/24 to the newly added network interface enp1s0f1. Which of the following commands should the administrator run to achieve the goal?

- A. ip addr add 10.0.6.5/24 dev enp1s0f1
- B. echo "IPV4_ADDRESS=10.0.6.5/24" > /etc/sysconfig/network-scripts/ifcfg-enp1s0f1
- C. ifconfig 10.0.6.5/24 enp1s0f1
- D. nmcli conn add ipv4.address-10.0.6.5/24 ifname enp1s0f1

Answer: A

NEW QUESTION 5

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 6

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 7

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 8

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 9

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 10

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 10

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 13

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 18

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

```
pvcreate -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 22

A systems administrator is tasked with installing GRUB on the legacy MBR of the SATA hard drive. Which of the following commands will help the administrator accomplish this task?

- A. grub-install /dev/hda
- B. grub-install /dev/sda
- C. grub-install /dev/sr0
- D. grub-install /dev/hd0,0

Answer: B

NEW QUESTION 27

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 30

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 31

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 35

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

Answer: C

NEW QUESTION 38

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 41

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 45

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 49

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 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 54

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 58

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 60

A DevOps engineer needs to download a Git repository from <https://git.company.com/admin/project.git>. Which of the following commands will achieve this goal?

- A. git clone <https://git.company.com/admin/project.git>
- B. git checkout <https://git.company.com/admin/project.git>
- C. git pull <https://git.company.com/admin/project.git>
- D. git branch <https://git.company.com/admin/project.git>

Answer: A

Explanation:

git clone is the best option if its a new project. git pull would work best if it was an ongoing project that had multiple team members that had pushed their updates to the main repository

NEW QUESTION 61

A systems administrator received a notification that a system is performing slowly. When running the top command, the systems administrator can see the following values:

```
%Cpu(s): 2.7 us, 1.9 sy, 0.0 ni, 0.4 id, 95 wa, 0.0 hi, 0.0 si 0.0 st
```

Which of the following commands will the administrator most likely run NEXT?

- A. vmstat
- B. strace
- C. htop
- D. lsof

Answer: A

NEW QUESTION 63

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+rxw /project/access2all`

Answer: A

NEW QUESTION 65

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 67

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 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 72

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 76

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 79

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 84

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:

```
[Tue Aug 31 16:36:42 2021] OOM: Kill process 43805 (java) score 249 or sacrifice child
[Tue Aug 31 16:36:42 2021] killed process 43805 (java) total-vm: 4446352kB, anon-rss: 4053140kB, file-rss: 68kB
```

Output 2:

```
Linux 3.10.0-328.13.1.x86_64 #1 (hostname) 31/08/2021 _x86_64_ (8 CPU)
16:00:01 PM      CPU      %user   %nice   %system  %iowait  %steal     %idle
16:10:01 PM      all      17.58    0.00     9.36     0.00     0.00     73.06
16:20:01 PM      all      22.34    0.00    11.75     0.00     0.00     65.91
16:30:01 PM      all      25.49    0.00    11.69     0.00     0      62.82
```

Output 3:

```
$ free -m
              total        used        free  shared  buff/cache   available
Mem:          16704        15026         174      92          619         793
Swap:           0           0           0
```

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 85

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 89

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 91

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 92

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 93

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 96

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 99

A Linux administrator is creating a primary partition on the replacement hard drive for an application server. Which of the following commands should the administrator issue to verify the device name of this partition?

- A. sudo fdisk /dev/sda
- B. sudo fdisk -s /dev/sda
- C. sudo fdisk -l
- D. sudo fdisk -h

Answer: C

NEW QUESTION 100

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 104

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 109

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:

```
ssh: connect to host 104.21.75.76 port 22: Connection refused
```

The administrator reviews the information below:

Workstation output 1:

```
eth0: <BROADCAST,MULTICAST, UP, LOWER_UP> mtu 1500 qdisc mq state UP group default  
link/ether 00:15:5d:e9:e9:fb brd 5.189.153.255 scope global eth0  
inet 5.189.153.89/24 brd 5.189.153.255 scope global eth0
```

Workstation output 2:

```
default via 5.189.153.1 dev eth0  
5.189.153.0/24 dev eth0 proto kernel scope link src 5.189.153.89
```

Server output 1:

```
target    prot    opt    source        destination
REJECT    tcp    --    101.68.78.194  0.0.0.0/0    tcp dpt:22 ctstate NEW, UNTRACKED
           reject-with icmp-port-unreachable
REJECT    tcp    --    222.186.180.130  0.0.0.0/0    tcp dpt:22 ctstate NEW, UNTRACKED
           reject-with icmp-port-unreachable
REJECT    tcp    --    104.131.1.39    0.0.0.0/0    tcp dpt:22 ctstate NEW, UNTRACKED
           reject-with icmp-port-unreachable
REJECT    tcp    --    68.183.196.11  0.0.0.0/0    tcp dpt:22 ctstate NEW, UNTRACKED
           reject-with icmp-port-unreachable
REJECT    tcp    --    5.189.153.89   0.0.0.0/0    tcp dpt:22 ctstate NEW, UNTRACKED
           reject-with icmp-port-unreachable
REJECT    tcp    --    41.93.32.148   0.0.0.0/0    tcp dpt:22 ctstate NEW, UNTRACKED
           reject-with icmp-port-unreachable
```

Server output 2:

```
sshd.service - OpenSSH server daemon
Loaded: loaded (/usr/lib/systemd/system/sshd.service; disabled; vendor preset: enabled)
Active: active (running) since Thu 2021-08-26 18:50:19 CEST; 2 weeks 5 days ago
```

Server output 3:

```
eth0: <BROADCAST, MULTICAST, UP, LOWER_UP> mtu 1500 qdisc mg state UP group default
link/ether 52:52:00:2a:bb:98 brd 104.21.75.255 scope global eth0
inet 104.21.75.76/24 brd 104.21.75.255 scope global eth0
```

Server output 4:

```
default via 104.21.75.254 dev eth0
104.21.75.0/24 dev eth0 proto kernel scope link src 104.21.75.76
```

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 111

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 116

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 119

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 124

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 128

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 130

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 135

Users have reported that the interactive sessions were lost on a Linux server. A Linux administrator verifies the server was switched to rescue.target mode for maintenance. Which of the following commands will restore the server to its usual target?

- A. telinit 0
- B. systemctl reboot
- C. systemctl get-default
- D. systemctl emergency

Answer: B

NEW QUESTION 137

An administrator accidentally deleted the `/boot/vmlinuz` file and must resolve the issue before the server is rebooted. Which of the following commands should the administrator use to identify the correct version of this file?

- A. `rpm -qa | grep kernel; uname -a`
- B. `yum -y update; shutdown -r now`
- C. `cat /etc/centos-release; rpm -Uvh --nodeps`
- D. `telinit 1; restorecon -Rv /boot`

Answer: A

NEW QUESTION 142

A Linux engineer needs to download a ZIP file and wants to set the nice of value to -10 for this new process. Which of the following commands will help to accomplish the task?

- A. `$ nice -v -10 wget https://foo.com/installation.zip`
- B. `$ renice -v -10 wget https://foo.com/installation.zip`
- C. `$ renice -10 wget https://foo.com/installation.zip`
- D. `$ nice -10 wget https://foo.com/installation.zip`

Answer: D

NEW QUESTION 146

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 150

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 153

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 156

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 158

A systems administrator is deploying three identical, cloud-based servers. The administrator is using the following code to complete the task:

```
resource "aws_instance" "ec2_instance" {  
  
    ami                = data.aws_ami.vendor-Linux-2.id  
    associate_public_ip_address = true  
    count              = 3  
    instance_type      = "instance_type"  
    vpc_security_group_ids = [aws_security_group.allow_ssh.id]  
    key_name           = aws_key_pair.key_pair.key_name  
  
    tags = [  
        Name = "${var.namespace} ${count.index}"  
    ]  
}
```

Which of the following technologies is the administrator using?

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

Answer: D

NEW QUESTION 159

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 164

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 168

Several users reported that they were unable to write data to the /oracle1 directory. The following output has been provided:

Filesystem	Size	Used	Available	Use%	Mounted on
/dev/sdb1	100G	50G	50G	50%	/oracle1

Which of the following commands should the administrator use to diagnose the issue?

- A. df -i /oracle1
- B. fdisk -l /dev/sdb1
- C. lsblk /dev/sdb1
- D. du -sh /oracle1

Answer: A

NEW QUESTION 173

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 174

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 179

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 180

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 183

A Linux administrator is scheduling a system job that runs a script to check available disk space every hour. The Linux administrator does not want users to be able to start the job. Given the following:

```
[Unit]
Description=Check available disk space
RefuseManualStart=yes
RefuseManualStop=yes

[Timer]
Persistent=true
OnCalendar=*-*-* *:00:00
Unit=checkdiskpace.service

[Install]
WantedBy=timers.target
```

The Linux administrator attempts to start the timer service but receives the following error message:

```
Failed to start checkdiskpace.timer: Operation refused ...
```

Which of the following is MOST likely the reason the timer will not start?

- A. The checkdiskpace.timer unit should be enabled via systemctl.
- B. The timers.target should be reloaded to get the new configuration.
- C. The checkdiskpace.timer should be configured to allow manual starts.
- D. The checkdiskpace.timer should be started using the sudo command.

Answer: C

NEW QUESTION 188

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 193

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 SOPTIONS
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 SOPTIONS 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:multi-user.target in the [Install] section to basic.target

Answer: A

NEW QUESTION 196

A newly created container has been unable to start properly, and a Linux administrator is analyzing the cause of the failure. Which of the following will allow the administrator to determine the FIRST command that is executed inside the container right after it starts?

- A. docker export <container_id>
- B. docker info <container_id>
- C. docker start <container_id>
- D. docker inspect <container_id>

Answer: D

NEW QUESTION 198

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 199

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 202

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