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CompTIA Linux+ Exam

CompTIA XK0-005

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QUESTION NO: 1

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: B D**QUESTION NO: 2**

A Linux systems administrator is configuring a new filesystem that needs the capability to be mounted persistently across reboots. Which of the following commands will accomplish this task? (Choose two.)

- A. `df -h /data`
- B. `mkfs.ext4 /dev/sdc1`
- C. `fsck /dev/sdc1`
- D. `fdisk -l /dev/sdc1`
- E. `echo "/data /dev/sdc1 ext4 defaults 0 0" >> /etc/fstab`
- F. `echo "/dev/sdc1 /data ext4 defaults 0 0" >> /etc/fstab`

ANSWER: B F

QUESTION NO: 3

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**QUESTION NO: 4**

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: C E**QUESTION NO: 5**

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

QUESTION NO: 6

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: B C

QUESTION NO: 7

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**QUESTION NO: 8**

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: C E**QUESTION NO: 9**

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

QUESTION NO: 10

A Linux administrator is tasked with adding users to the system. However, the administrator wants to ensure the users' access will be disabled once the project is over. The expiration date should be 2021-09-30. Which of the following commands will accomplish this task?

- A. sudo useradd -e 2021-09-30 Project_user
- B. sudo useradd -c 2021-09-30 Project_user
- C. sudo modinfo -F 2021-09-30 Project_uses
- D. sudo useradd -m -d 2021-09-30 Project_user

ANSWER: A