

# CompTIA XK0-004

## CompTIA Linux+ Certification Exam

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# Latest Version: 22.0

## Question: 1

Which of the following would be the BEST solution for a systems administrator to access the graphical user environment of a Linux machine remotely?

- A. VNC
- B. KDE
- C. X11
- D. RPC

**Answer: A**

Reference: <https://www.sfu.ca/computing/about/support/tips/remote-to-linux-with-gui.html>

## Question: 2

A technical support engineer receives a ticket from a user who is trying to create a 1KB file in the /tmp directory and is getting the following error No space left on device. The support engineer checks the /tmp directory, and it has 20GB of free space.

Which of the following BEST describes a possible cause for this error?

- A. The /tmp directory is not mounted.
- B. The filesystem is formatted with a 4MB block size.
- C. the filesystem ran out of inodes.
- D. The /tmp directory has been set with an immutable attribute.

**Answer: C**

Reference: <https://www.maketecheasier.com/fix-linux-no-space-left-on-device-error/>

## Question: 3

Which of the following is the BEST reason for not storing database files in the /var directory?

- A. The /var filesystem is not fast enough for database files.
- B. The number of files in /var is limited by the available inodes.
- C. Files in /var do not have strict file permissions.
- D. If log files fill up /var, it might corrupt the database.

**Answer: D**

## Question: 4

### CORRECT TEXT

A 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 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]#
```

**Answer: See explanation below Solution below.**

```
[root@tecmin ~]#
[root@tecmin ~]# yum install httpd
Loaded plugins: fastestmirror, refresh-packagekit
Setting up Install Process
Loading mirror speeds from cached hostfile
 * base: centos.excellmedia.net
 * epel: epel.scopesky.iq
 * extras: centos.excellmedia.net
 * updates: centos-hn.viettelidc.com.vn
Resolving Dependencies
There are unfinished transactions remaining. You might consider running yum-comp
lete-transaction first to finish them.
```

```

[root@tecmin ~]#
[root@tecmin ~]# systemctl start httpd
[root@tecmin ~]#
[root@tecmin ~]# systemctl enable httpd
Created symlink from /etc/systemd/system/multi-user.target.wants/httpd.service to /usr/lib/systemd/system/httpd.service
[root@tecmin ~]#
[root@tecmin ~]# systemctl status httpd
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; vendor preset: disabled)
   Active: active (running) since Tue 2017-06-27 06:51:35 EDT; 14s ago
     Docs: man:httpd(8)
           man:apachectl(8)
  Main PID: 17981 (httpd)
    Status: "Total requests: 0; Current requests/sec: 0; Current traffic:  0 B/sec"
    CGroup: /system.slice/httpd.service
            └─17981 /usr/sbin/httpd -DFOREGROUND
              └─17982 /usr/sbin/httpd -DFOREGROUND
                └─17983 /usr/sbin/httpd -DFOREGROUND
                  └─17984 /usr/sbin/httpd -DFOREGROUND
                    └─17985 /usr/sbin/httpd -DFOREGROUND
                      └─17986 /usr/sbin/httpd -DFOREGROUND

Jun 27 06:51:35 tecmint systemd[1]: Starting The Apache HTTP Server...
Jun 27 06:51:35 tecmint httpd[17981]: AH00558: httpd: Could not reliably determine the server's fully qualified domain name, setting 'ServerName' to '::'
Jun 27 06:51:35 tecmint systemd[1]: Started The Apache HTTP Server.
[root@tecmin ~]# █

```

## Question: 5

DRAG DROP

The lead Linux has added a disk, /dev/sdd, to a VM that is running out of disk space. Place the following steps in the correct order from first (1) to last (4) to add the disk to the existing LVM.

1

2

3

4

```
lvextend -L +10GB  
/dev/mapper/vgdata-data
```

```
pvccreate /dev/sdd
```

```
resize2fs /dev/mapper/vgdata-  
data
```

```
vgextend vgdata /dev/sdd
```

**Answer:**

- 1 `pvccreate /dev/sdd`
- 2 `vgextend vgdata /dev/sdd`
- 3 `lvextend -L +10GB  
/dev/mapper/vgdata-data`
- 4 `resize2fs /dev/mapper/vgdata-  
data`

```
lvextend -L +10GB  
/dev/mapper/vgdata-data
```

```
pvccreate /dev/sdd
```

```
resize2fs /dev/mapper/vgdata-  
data
```

```
vgextend vgdata /dev/sdd
```

Reference: <https://www.rootusers.com/how-to-increase-the-size-of-a-linux-lvm-by-expanding-the-virtual-machine-disk/>

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