



# CompTIA

**XK0-004 Exam**

**CompTIA Linux+ Certification**

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# Version: 16.0

Topic 1, Exam Pool A

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## Question: 1

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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

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**Answer: A**

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Explanation:

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

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## Question: 2

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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.

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**Answer: C**

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Explanation:

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

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## Question: 3

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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.

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**Answer: D**

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Explanation:

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### Question: 4

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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 below**

---

Explanation:

Solution below.

```
[root@tecmint ~]#
[root@tecmint ~]# 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-com
lete-transaction first to finish them.

-

[root@tecmint ~]#
[root@tecmint ~]# systemctl start httpd
[root@tecmint ~]#
[root@tecmint ~]# systemctl enable httpd
Created symlink from /etc/systemd/system/multi-user.target.wants/httpd.service to /usr/lib/systemd/system/ht
[root@tecmint ~]#
[root@tecmint ~]# 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 qualifi
Jun 27 06:51:35 tecmint systemd[1]: Started The Apache HTTP Server.
[root@tecmint ~]# █
```

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## Question: 5

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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
```

```
pvcreate /dev/sdd
```

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

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

---

**Answer:**

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Explanation:

1 `pvcreate /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`

`pvcreate /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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