



How to move tmp directory from root [/] to a different partition on Red Hat Enterprise Linux?

🌟 **SOLUTION IN PROGRESS** - Updated Thursday at 9:25 AM - English ▼

Environment

- Red Hat Enterprise Linux (RHEL) 4/5/6/7/8/9

Issue

- Moving tmp from root [/] to a different partition on Red Hat Enterprise Linux.

Resolution

1. Check for available space :

```
vgdisplay  
fdisk -l
```

- In case if space is not available on the existent volume group, add a new disk or new partition.

2. Initialize the new disk or partition for use by LVM (in this case we are using sdb as an example name):

```
pvccreate /dev/sdb1
```

3. Create a volume group:

```
vgcreate vg_tmp /dev/sdb1
```

4. Display attributes of volume group and check the space available "Free PE / Size":

```
vgdisplay vg_tmp
```

5. Create a logical volume on vg_tmp. The following will create the new logical volumes for lv_tmp(adjust the size accordingly with your needs):

```
lvcreate -L 5G --name lv_tmp vg_tmp
```

6. Creating the file system for /tmp directory:

```
mkfs.ext4 /dev/vg_tmp/lv_tmp
```

- Now the LVM of /tmp is ready, a few more steps to move tmp.

7. Mounting the new logical volume:

```
mount /dev/vg_tmp/lv_tmp /tmp/
```

8\ . If everything looks correct until here, mount filesystem persistent across a reboot:

On RHEL 6 and later

This command will show the UUID for lv_tmp

```
blkid
```

- Copy UUID of new logical volume and edit the file "/etc/fstab" adding the lines:

```
UUID=example-UUID-for-lv_tmp /tmp ext4 defaults 0 0
```

Note:- Make sure to inform the UUID accordingly with the blkid output:

On RHEL 5 or older:

```
/dev/vg_tmp/lv_tmp    /tmp  ext3  defaults 0 0
```

```
mount -a
```

Note:- Remember to double check the paths and also the filesystem type, such as ext3 or ext4, accordingly with your system, the above are examples only.

Product(s) Red Hat Enterprise Linux **Category** Customize or extend

Tags ext3 ext4

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