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**How to migrate LVM to new storage**

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This documentation shows how to migrate existing logical volumes to other new drives without any downtime. Before moving further, I would like to give some useful information about Logical Volume Management(LVM). There are two ways to migrate an LVMs’ storage unit.

* LVM Mirroring
* LVM Pvmove

**LVM Mirroring Methods:**

**Step 1:Check new device which ‘ll be used after migration**

#fdisk -l

**New Disk ID:/dev/sdd**  
Next command is optional:Just we create a new partition

#fdisk /dev/sdd

n,p,1,enter,enter

**Step 2:Check LVM device which you need to migrate**

#vgdisplay vghitachi

#lvdisplay -v /dev/vghitachi/lvhitachi

“You should check LVM size before get new LUN device. Your LUN device size must be bigger then total LVM size.”

**Step 3:Create PV with new added LUN device**

#pvcreate /dev/sdd1

**Step 4:Extend VG with new added PV**

#vgextend vghitachi /dev/sdd1

**Step 5:Add new mirror device to LVM.**

#lvconvert -m 1 –corelog /dev/vghitachi/lvhitachi /dev/sdd1

**Step 6:Remove old disk from LVM.  
Before remove old disk from LVM you need to check mirror state with “lvdisplay -v” or “lvs -o+devices” command.**

#lvconvert -m 0 /dev/vghitachi/lvhitachi /dev/emcpowere1

**Step 7:Remove old pv from Volume Group(vg).**

#vgreduce vghitachi /dev/emcpowere1

**Step 8:Remove old pv**

#pvremove /dev/emcpowere1

**LVM PvMove Method:**

Instead using ‘lvconvert’ mirroring command, you can use ‘pvmove‘ command with option ‘-n‘ (logical volume name) method to mirror data between two pv device.

**Step 1-2-3 are same as Mirroring Method**

**Step 4:Move Pv from old device to new device**

#pvmove -n /dev/vghitachi/lvhitachi /dev/sdd1 /dev/emcpowere1

This command is one of the simple way to mirror data between two pv.But we strongly advice LVM mirroring Method instead of pvmove.

I'm a IT Infrastructure and Operations Architect with extensive experience and administration skills and works for Turk Telekom. I provide hardware and software support for the IT Infrastructure and Operations tasks.

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