

LVM Cheatsheet

Physical Volumes	Usage	
pvcreate	Create a pv from disk	pvcreate /dev/sda3
pvremove	Remove a pv from a disk	pvremove /dev/sda3
pvmove	Move a pv to free extents (on different pv) in the same vg	pvmove -v /dev/sda3
pvdisplay/pvs	Display info about pvs	
pvscan	Scan for pvs	
pvresize	Resize pvs to either a set size or the size of the disk/partition	pvresize --setphysicalvolumesize 40G /dev/sda3 pvresize /dev/sda3

Volume Groups	Usage	
vgcreate	Create a vg from pvs. Characters sets [] can be used for ranges	vgcreate vgname /dev/sda3 /dev/sdb3 vgcreate vgname /dev/sd[d-m]1
vgremove	Remove a vg	vgremove vgname
vgdisplay/vgs	Get info about vgs	
vgscan	Scan for vgs	
vgextend	Add a pv to a vg	vgextend vgname /dev/sdb2
vgreduce	Remove a pv from vg Remove a missing pv from vg	vgreduce vgname /dev/sdb2 vgreduce --removemissing
vgchange	Change vg attributes like UUID or whether lvs in the vg are accessible	vgchange -u vgname vgchange -ay vgchange -an

Logical Volumes	Usage	
lvcreate	Create an lv Create an lv with stripe Create an lv with mirror(s) Create largest LV possible	lvcreate --name lvname --size 50G vgname lvcreate --name lvname -i3 -I4 --size 100G vgname lvcreate --name lvname -m1 --size 50G vgname lvcreate --name lvname -l +100%FREE vgname
lvremove	Remove an lv	lvremove /dev/vgname/lvname
lvdisplay/lvs	Display info about lvs	
lvscan	Scan for lvs	
lvresize	Resize an lv to a set size or a percent of available space	lvresize --size 40G /dev/vgname/lvname lvresize -l +100%FREE /dev/vgname/lvname

Misc	
Path to Logical Volume	/dev/vgname/lvname /dev/mapper/vgname-lvname