Instructions for resizing RHEL disks

Url with more detailed instructions: <https://techportal.t-mobile.com/display/VA/Resizing+RHEL+Disks>

## Follow the steps under “Resizing The Disk In vRA”

## Follow the steps under “Resizing The Disk On The Server”

## Check the current device sizes

[root@ditplcmrc007b apps]# pvs

PV VG Fmt Attr PSize PFree

/dev/sda2 vg00 lvm2 a-- <99.51g 0

/dev/sdb vg01 lvm2 a-- <100.00g 0

/dev/sdc vg01 lvm2 a-- <50.00g 0

/dev/sdd vg01 lvm2 a-- <50.00g 0

[root@ditplcmrc007b apps]#

## Run df -h ${DIRECTORY\_NAME} to view the filesystem associated with the directory

## [root@ditplcmrc007b scsi\_device]# df -h /apps

## Filesystem 1K-blocks Used Available Use% Mounted on

## /dev/mapper/vg01-lvapps 104802308 103290868 1511440 99% /apps

[root@ditplcmrc007b scsi\_device]#

* In this case the filesystem/logical volume is /dev/mapper/vg01-lvapps
* View the devices associated with the filesystem using lvs

[root@ditplcmrc007b scsi\_device]# lvs -o +devices /dev/mapper/vg01-lvapps

LV VG Attr LSize Pool Origin Data% Meta% Move Log Cpy%Sync Convert Devices

lvapps vg01 -wi-ao---- <100.00g /dev/sdd(0)

lvapps vg01 -wi-ao---- <100.00g /dev/sdc(0)

lvapps vg01 -wi-ao---- <100.00g /dev/sdb(25598)

[root@ditplcmrc007b scsi\_device]#

* In this case the devices are /dev/sdd, /dev/sdc, and /dev/sdb
* Run pvresize on the devices

[root@ditplcmrc007b apps]# pvresize /dev/sdd

Physical volume "/dev/sdd" changed

1 physical volume(s) resized or updated / 0 physical volume(s) not resized

[root@ditplcmrc007b apps]# pvresize /dev/sdc

Physical volume "/dev/sdc" changed

1 physical volume(s) resized or updated / 0 physical volume(s) not resized

[root@ditplcmrc007b apps]# pvresize /dev/sdb

Physical volume "/dev/sdb" changed

1 physical volume(s) resized or updated / 0 physical volume(s) not resized

* Check if the devices got resized using pvs

[root@ditplcmrc007b apps]# pvs

PV VG Fmt Attr PSize PFree

/dev/sda2 vg00 lvm2 a-- <99.51g 0

/dev/sdb vg01 lvm2 a-- <300.00g 200.00g

/dev/sdc vg01 lvm2 a-- <50.00g 0

/dev/sdd vg01 lvm2 a-- <50.00g 0

[root@ditplcmrc007b apps]#

* Run lvresize to resize the logical volume associated with the device

[root@ditplcmrc007b apps]# lvresize -l +100%FREE /dev/mapper/vg01-lvapps

Size of logical volume vg01/lvapps changed from <100.00 GiB (25599 extents) to <300.00 GiB (76799 extents).

Logical volume vg01/lvapps successfully resized.

[root@ditplcmrc007b apps]#

* Run xfs\_growfs to grow the filesystem

[root@ditplcmrc007b apps]# xfs\_growfs /dev/mapper/vg01-lvapps

meta-data=/dev/mapper/vg01-lvapps isize=512 agcount=4, agsize=6553344 blks

= sectsz=512 attr=2, projid32bit=1

= crc=1 finobt=0 spinodes=0

data = bsize=4096 blocks=26213376, imaxpct=25

= sunit=0 swidth=0 blks

naming =version 2 bsize=4096 ascii-ci=0 ftype=1

log =internal bsize=4096 blocks=12799, version=2

= sectsz=512 sunit=0 blks, lazy-count=1

realtime =none extsz=4096 blocks=0, rtextents=0

data blocks changed from 26213376 to 78642176

[root@ditplcmrc007b apps]#

* Check that the folder got resized properly

[root@ditplcmrc007b apps]# df -h /apps

Filesystem Size Used Avail Use% Mounted on

/dev/mapper/vg01-lvapps 300G 99G 202G 33% /apps

[root@ditplcmrc007b apps]#

* If successful, you’re done!