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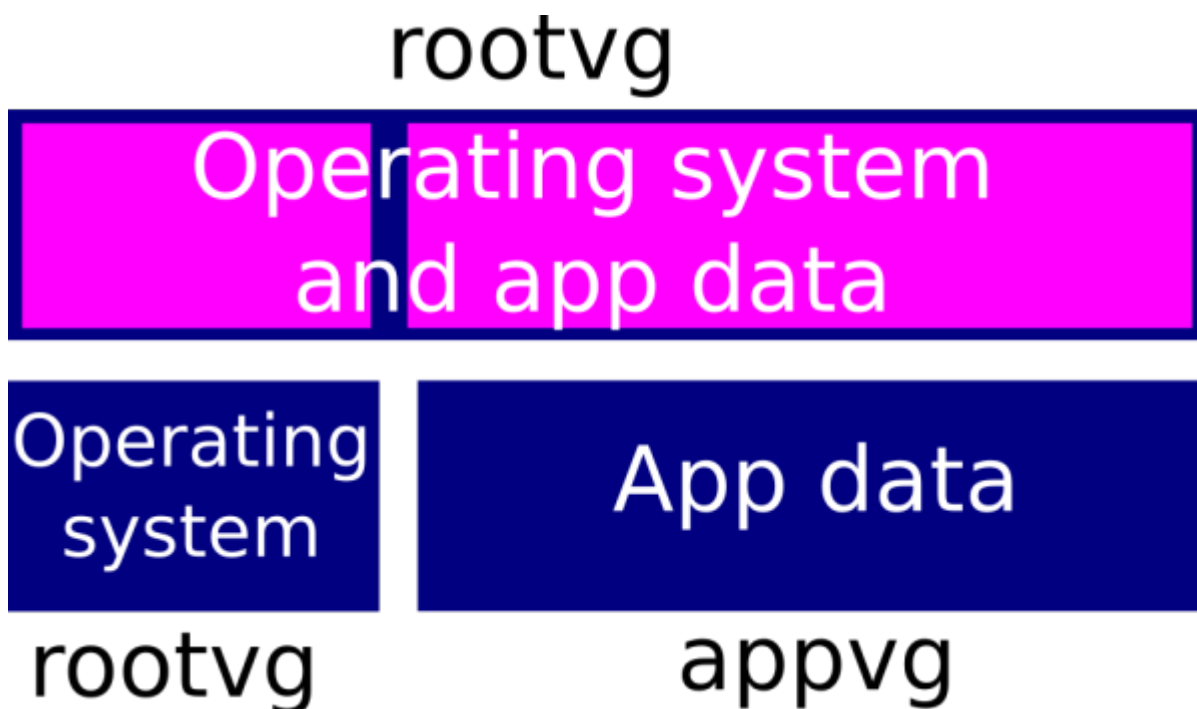
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Split rootvg

Scenarios

- One physical volume: rootvg must have 9G and appvg must contain only app data. The original disk must be removed and two physical volumes must be added
- Several physical volume on rootvg: rootvg must have 9G and appvg must contain only app data, additional physical volumes on rootvg must be removed.

Several physical volume



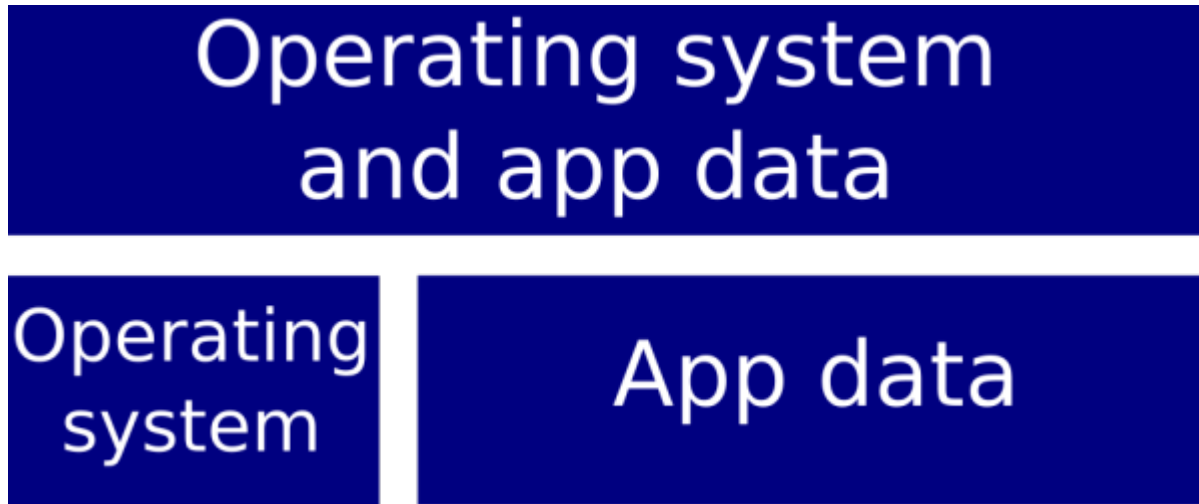
Create a partition en /dev/vdb:

```
$ sudo pvcreate /dev/vdc1
$ sudo vgcreate appvg /dev/vdc1
$ sudo lvcreate -L9.5G -n applv appvg
$ sudo mkfs.ext4 /dev/mapper/appvg-applv
$ sudo mkdir /app.NEW
$ sudo mount /dev/mapper/appvg-applv /app.NEW
$ sudo rsync -ahv /app/ /app.NEW/
$ sudo umount /app.NEW
$ sudo rm -rf /app/
$ sudo mkdir /app/
$ sudo echo "/dev/mapper/appvg-applv /app                ext4
defaults          0 0" >> /etc/fstab
$ sudo mount -a
$ sudo vgreduce centos /dev/vdb1
$ sudo pvremove /dev/vdb1
```

Si es necesario cambiar los permisos del directorio /app.

Probar sin reiniciar.

One physical volume



Migrate App data

We will use a simple rsync to copy all the information. Create a partition in the new disk /dev/vdc with fdisk, next create physical volume and volume group with logical volume.

```
$ sudo pvcreate /dev/vdc1
$ sudo vgcreate appvg /dev/vdc1
$ sudo lvcreate -L8.5G -n applv appvg
$ sudo mkfs.ext4 /dev/mapper/appvg-applv
$ sudo mkdir /app.NEW
$ sudo mount /dev/mapper/appvg-applv /app.NEW
$ sudo rsync -ahv /app/ /app.NEW/
$ sudo umount /app.NEW/
$ sudo rm -rf /app/
$ sudo mkdir /app/
$ sudo echo "/dev/mapper/appvg-applv /app                               ext4
defaults                0 0" >> /etc/fstab
$ sudo mount -a
```

Migrate rootvg

You will need reboot the system with boot CD and enter to rescue mode. Skip to shell.

Optional, assign IP address:

```
# ip addr add 192.168.122.110/24 dev eth0
# ip route add default via 192.168.122.1
```

```
# cd /etc/sshd
# cp sshd_config.anaconda sshd_config
# /sbin/sshd
```

```
# vgchange -ay centos
# e2fsck -f /dev/mapper/centos-root
# lvreduce --resizefs --size 7G /dev/mapper/centos-root
```

Use fdisk to create a /boot partition of 512M on /dev/vdb1 and the physical volume of the rest space on /dev/vdb2.

```
# pvcreate /dev/vdb2
# vgextend centos /dev/vdb2
# pvmove /dev/vda2
# vgreduce centos /dev/vda2
# pvremove /dev/vda2
```

Reboot

```
$ sudo dd if=/dev/vda1 of=/dev/vdb1 bs=512 conv=noerror,sync
$ sudo dd if=/dev/vda of=/dev/vdb bs=1 count=512
$ sudo grub2-install /dev/vdb
$ sudo sync
```

From:

<https://www.estebanmonge.site/> - **Esteban Monge**

Permanent link:

https://www.estebanmonge.site/doku.php?id=split_rootvg

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