Role STORE - Increase File System Size (Redundant DRBD on LVM)

Advanced Topic

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Warning - this is an advanced topic. Always backup your data first.

Preparation

Add a new disk to both machines of **EXACTLY** the same size and configuration in the virtual environment.

It is also possible to use a new partition on an existing disk whose size has been increased, but this is not covered here.

The commands below assume that **/dev/sdc** will be used to increase the size of the storage in a DRBD on top of LVM configuration.

Rescan the SCSI Bus to display the drive

Sometimes the system will not see the new disk immediately. To achieve this without a reboot, run the following command to rescan the SCSI bus.

Rescan SCSI Bus

```
# Check if the disk is there
ls /dev/sd*

# Expected output (includes /dev/sdc)
/dev/sda  /dev/sda1  /dev/sda2  /dev/sdb  /dev/sdc

# If not, rescan SCSI and repeat above
echo "- - -" > /sys/class/scsi_host/host0/scan
```

Make one node Secondary

Determine which node is servicing the SMB share with **pcs status**, and then on the non sevicing node:

```
# Determine which node is servicing the share
pcs status

# Standby the server on which the resources are NOT running
pcs cluster standby acd-store2

# Run this command on the STANDBY machine
drbdadm secondary jtelshared
```

Create LVM Physical Volume, Extend the Volume Group and the Logical Volume (Both Nodes)

```
# Create the phsyical volume - this is based on sdc assuming it is the third drive on the system
lvm pvcreate /dev/sdc

# Extend the volume group
lvm vgextend "vg_drbd_jtelshared" /dev/sdc

# Create the logical volume
lvm lvresize -l +100%FREE /dev/vg_drbd_jtelshared/lv_drbd_jtelshared
```

Extend the DRBD Resource (Primary Node Only)

```
# Extend the DRBD resource
drbdadm -- --assume-clean resize jtelshared
```

Resize the FileSystem (Primary Node Only)

```
# Resize File System
xfs_growfs /dev/drbd/by-res/jtelshared/0
```

Make Secondary Node Primary and Unstandby in Cluster (Secondary Node Only)

```
# Back to primary
drbdadm primary jtelshared

# Back to unstandby
pcs cluster unstandby acd-store2
```

Check the Results (Primary Node Only)

```
df -h
```