# I've decided to use 3 machines for this task

# 2 for the cluster nodes and 1 for target server

# The names are opensuse-m1, opensuse-m2 and opensuse-m3

# The positions: iSCSI Target server, Cluster Node1, Cluster Node 2,

# The addressing: 192.168.97.101    102    103

# install open-iscsi on the initiators and get the initiator names

# also edit the /etc/iscsi/iscsid.conf

# change node.startup to automatic

# uncomment the line node.session.auth.authmethod = CHAP

# uncomment the line node.session.auth.username = username

# uncomment the line node.session.auth.password = password

# IQNs for the cluster nodes are

iqn.1996-04.de.suse:01:c6228c3ffac1

iqn.1996-04.de.suse:01:ff8c804bea0

# So the m1 will be the Target server

sudo zypper install targetcli-fb

# enable the service

# the disk file will be stored here:

sudo mkdir -p /storage/iscsi

# run the tool and make the configuration

sudo targetcli

cd backstores/fileio

create homework\_disk /storage/iscsi/homework\_disk.img 10G

# Created fileio homework\_disk with size 10737418240

# back to /iscsi to create the target

cd /iscsi

create

# Created target iqn.2003-01.org.linux-iscsi.opensuse-m1.x8664:sn.a81bc09c8bab.

# Created TPG 1.

# Global pref auto\_add\_default\_portal=true

# Created default portal listening on all IPs (0.0.0.0), port 3260.

# Go into the newly created TPG/luns

cd iqn.2003-01.org.linux-iscsi.opensuse-m1.x8664:sn.a81bc09c8bab/tpg1/luns

# Create a new LUN

create /backstores/fileio/homework\_disk

# Created LUN 0.

# now return to /acls to add the initiators

cd ../acls

create iqn.1996-04.de.suse:01:c6228c3ffac1

# Created Node ACL for iqn.1996-04.de.suse:01:c6228c3ffac1

# Created mapped LUN 0.

create iqn.1996-04.de.suse:01:ff8c804bea0

# Created Node ACL for iqn.1996-04.de.suse:01:ff8c804bea0

# Created mapped LUN 0.

# add user/password to each node

cd iqn.1996-04.de.suse:01:xxxxxx

set auth userid=username

set auth password=password

set attribute authentication=1

exit

# Global pref auto\_save\_on\_exit=true

# Configuration saved to /etc/target/saveconfig.json

# verify the configuration

sudo targetcli ls

A screen shot of a computer program

AI-generated content may be incorrect.

# on opensuse-m2 and opensuse-m3

# discover the target server, login  
# after that only on opensuse-m2 we create the lvm

A computer screen with white text

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sudo pvcreate /dev/sdb

# Physical volume "/dev/sdb" successfully created.

sudo vgcreate vg\_web /dev/sdb

# Volume group "vg\_web" successfully created

# to see the available space:

sudo vgdisplay vg\_web

A screen shot of a computer

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# use the available space for lvm:

sudo lvcreate -l 100%FREE -n lv\_web vg\_web

# Logical volume "lv\_web" created.

sudo mkfs.ext4 /dev/vg\_web/lv\_web

sudo mkdir -p /mnt/web

sudo mount /dev/vg\_web/lv\_web /mnt/web

# opensuse-m3

sudo vgchange -ay vg\_web

sudo mkdir -p /mnt/web

sudo mount /dev/vg\_web/lv\_web /mnt/web

# now we have the storage mounted on both nodes

# create simple text file there:

echo 'Hello from Shared LVM' | sudo tee /mnt/web/readme.txt

# so we can setup High availabillity on both nodes:

sudo zypper install pacemaker corosync

# enable and start the services:

A screen shot of a computer program

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# the journalctl says that corosync.conf is missing, but when I add the file it still doesn’t start and dependency is missing for pacemaker

# I’ve created the file, but it still gives an error that I can’t debug at this time  
# As far as I know I just need to create resources like that

sudo crm configure primitive web\_server lsb:httpd op start interval=0s timeout=60s

sudo crm configure primitive web\_volume ocf:heartbeat:LVM VolumeGroup=vg\_web

sudo crm configure group web\_group web\_server web\_volume

sudo crm configure colocation web\_with\_lvm inf: web\_server web\_volume

sudo crm configure order web\_before\_lvm inf: web\_server web\_volume

# which will set up the web server to run over lvm with option to check if the volume is available