ISCSI RAID configuration

Linux server — 1GB RAM , NAT— 192.168.44.130
20 GB x 4 Hard disk.

Linux client — 1GB RAM
20 GB Hard disk
NAT — 192.168.44.131

on server

```
# pvcreate /dev/sdb /dev/sdc /dev/sdd
# vgcreate vg-iscsi /dev/sdb /dev/sdc /dev/sdd
# lvcreate -n lv_iscsi-disk-01 -L 1G vg_iscsi
# lvcreate -n lv-iscsi-disk-02 -L 1G vg_iscsi
# lvs
# yum install targetcli → software for creating/
                          iscsi servers. managing

# systemctl stop firewalld.service
# targetcli
# cd backstores/block
# create block /dev/mapper/vg-iscsi - lv_iscsi--disk--01
# cd ..
# ls
# cd..
# cd iscsi
# create ign.2023-07.cdac.acts.hpcsa.sbm:disk1
# cd ign.2023-07.cdac.acts.hpcsa.sbm:disk1
```

on client

```
# hostnatctl set-hostname iscsi client
# exec bash
# yum install iscsi-initiator-utils
# systemctl stop firewalld.service.
# cat /etc/iscsi/initiatorname.iscsi
    ⇩ copy initiator name
```

on server

```
# cd /tpg1/acls/
# create initiator name copied from client
# cd ..     # cd luns   # create /backstores/block/block1
# cd /
# ls

# exit
# systemctl restart target
```

on client   Server IP

```
# iscsiadm -m discovery' -t st -p 192.168.44.130
                                              --login

# mkfs.ext4 /dev/sdb
# fdisk /dev/sdb
# mkfs.ext4 /dev/sdb1
# mkdir /mnt/iscsilab
```

```
# mount /dev/sdb1  /mnt/iscsilab/
# cd /mnt/iscsilab/
# dd if=/dev/zero of=file.test bs=1024
   count=520040
# df -h
```