**suServer (**128.186.176.81**):**

**1 Install zfsutils-linux**

$ sudo apt-get install -y zfsutils-linux

**2 Load zfs.ko**

$ sudo modprobe zfs

**3 Create storage pool**

Create storage pool with using /dev/vdb and naming tank.

$ sudo zpool create -f tank /dev/vdb

$ sudo zfs create tank/username

$ sudo zfs set mountpoint=/home/username tank/username

Now you can use /tank as ZFS file system.

**4 Share via NFS**

Install NFS server. No need to edit /etc/exports and run exportfs.

$ sudo apt-get install -y nfs-kernel-server

Now share storage pool via NFS. Below command will provide writable storage to 128.186.176.0/22 network.

$ sudo zfs set sharenfs="rw=@128.186.176.76" tank

Update the NFS thread count by:

$ vi /etc/default/nfs-kernel-server

...

RPCNFSDCOUNT=64

...

$ vi /etc/init.d/nfs-kernel-server

...

RPCNFSDCOUNT=64

...

5. Add more security

bioadmin@pauper2:~$ vi /etc/hosts.allow

*rpcbind mountd nfsd statd lockd rquotad : 128.186.176.76*

bioadmin@pauper2:~$ vi /etc/hosts.deny

*rpcbind mountd nfsd statd lockd rquotad : ALL*

sudo service portmap restart

sudo service nfs-kernel-server reload

sudo service nfs-kernel-server restart

6. Add autoshare to config

bioadmin@pauper2:~$ vi /etc/default/zfs

*automount=’yes’*

**Client:**

Install NFS:

sudo apt install nfs-common

Install autofs:

sudo apt install autofs

The following configuration example sets up home directories to automount off an NFS server upon logging in. Other directories can be setup to automount upon access as well.

Add the following line to the end of /etc/auto.master:

 /home /etc/auto.home --ghost

Create /etc/auto.home and insert the following:

 \* -noatime,rsize=32768,wsize=32768 128.186.176.81:/home/&

The above line automatically mounts any directory accessed at /home/[username] on the client machine from 128.186.176.81:/home/[username].

Restart autofs to enable the configuration:

sudo service autofs start

Add security:

bioadmin@pauper3:/etc$ vi /etc/hosts.allow

rpcbind : 128.186.176.81

bioadmin@pauper3:/etc$ vi /etc/hosts.deny

rpcbind : ALL