

Beowulffish users administration
Notes for Duane
Last updated: 6/26/2007

Adding a new user

1. Login to a machine like moonjelly
ssh moonjelly

Once logged in, use ypcat to get the user id number. This will return the user id along with other user information. For example, in the following case, the user id is 653.

```
# ypcat passwd | grep kgomes
Kgomes:1u70PY0Lazw5o:653:20:Kevin Gomes,,2098,:/u/kgomes:/bin/csh
```

2. Login to beowulffish as root, and add the user with the useradd command:

```
# ssh beowulffish -l root
```

This will add the new user *kgomes* with id *653* to primary group *20* and additional group *aved* and create user directory if it doesn't exist

```
# useradd -c "Kevin Gomes" -u 653 -g 20 -G aved -m kgomes
```

3. Add a directory for the user in the scratch spaces and change permissions on those directories

```
# mkdir /mnt/scratch/kgomes
# mkdir /mnt/scratch2/kgomes
# chown kgomes:users /mnt/scratch/kgomes
# chown kgomes:users /mnt/scratch2/kgomes
```

4. Add mail forwarding so that person may receive email to their MBARI account from the cluster

```
# echo kgomes@beowulffish.shore.mbari.org kgomes@mbari.org >>
/etc/mail/virtusertable
```

5. Update Beowulf nodes with user account
#/opt/opium/bin/sync_users

If the password for the root or aved user changes, please contact Danelle to let her know. The password is not the same on all machines.

Cleaning scratch directory

To clean out scratch, run the *cleanscratch* script in the root users home directory. This must be run as root and will remove *everything* in /mnt/scratch so be careful !! The *cleanscratch* will also remove anything in the /video/capture directory because it's linked to the scratch space, so move anything you have captured in /video/capture to the /nanomia/RAID mount if you want to save it. This script will also recreate the directories in scratch.

```
# ~/.cleanscratch
```

Samba access

For users to browse to the scratch space on beowulffish and drag/drop files, they need to have access through the Samba service on beowulffish. To add a user to the samba permissions list:

1. Edit /etc/samba/smb.conf

Scroll down to the scratch section near the bottom, this looks like:

```
[scratch]
comment = AVED project scratch space
path = /mnt/scratch
browseable = yes
writable = yes
valid users = dcline,duane,salamy,ikerkez
```

2. Add the user name to the valid users line, e.g. to add kgomes
valid users = dcline,duane,salamy,ikerkez, kgomes

3. Restart samba service to implement changes

```
# service smb restart
```

Resetting capture card firmware

Occasionally seen when running the capture program, the error “Couldn’t determine input 1 video mode” and resetting the firmware on the capture card solved this error. To reprogram firmware:

```
# /usr/local/spectsoft/utils/sfbaja_firmware 0
```

NStor db9 cabling

When db9 serial cable is plugged into the Nstor RAID controller and into beowulffish com port 1 – after a reboot the system hangs with 033 error. during the boot cycle Workaround is to unplug the cable during boot, and plug back in if needed for reconfigure the RAID through minicom. Otherwise just leave the serial cable unplugged at either end.