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Ubuntu Maryland Team

http://ubuntu-maryland.org

Ubuntu System Administration

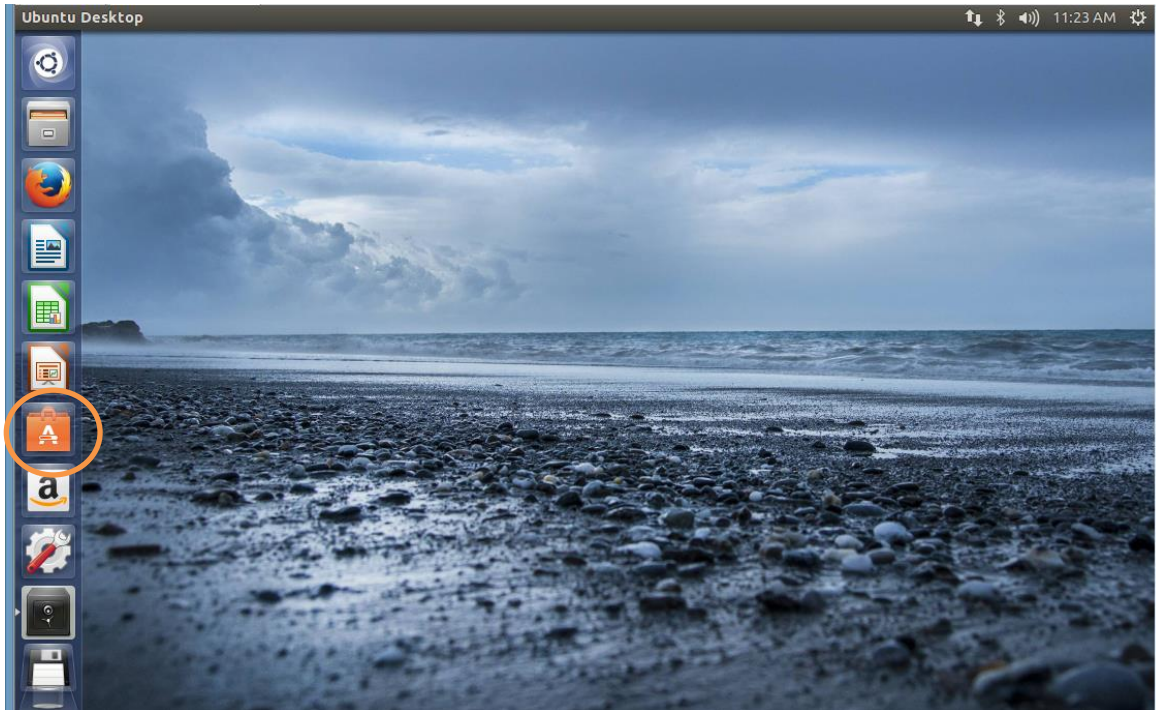## Text Editors

a. vi
b. nano
c. gedit
d. Change default editor
sudo update-alternatives --config editor
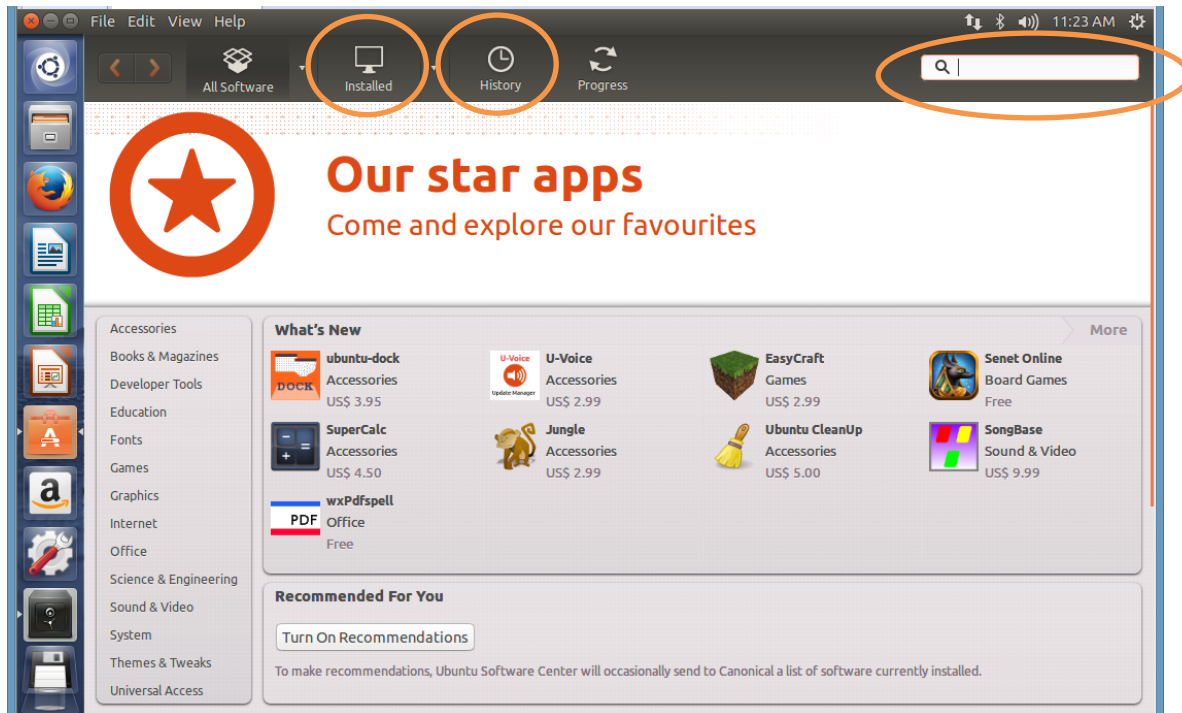
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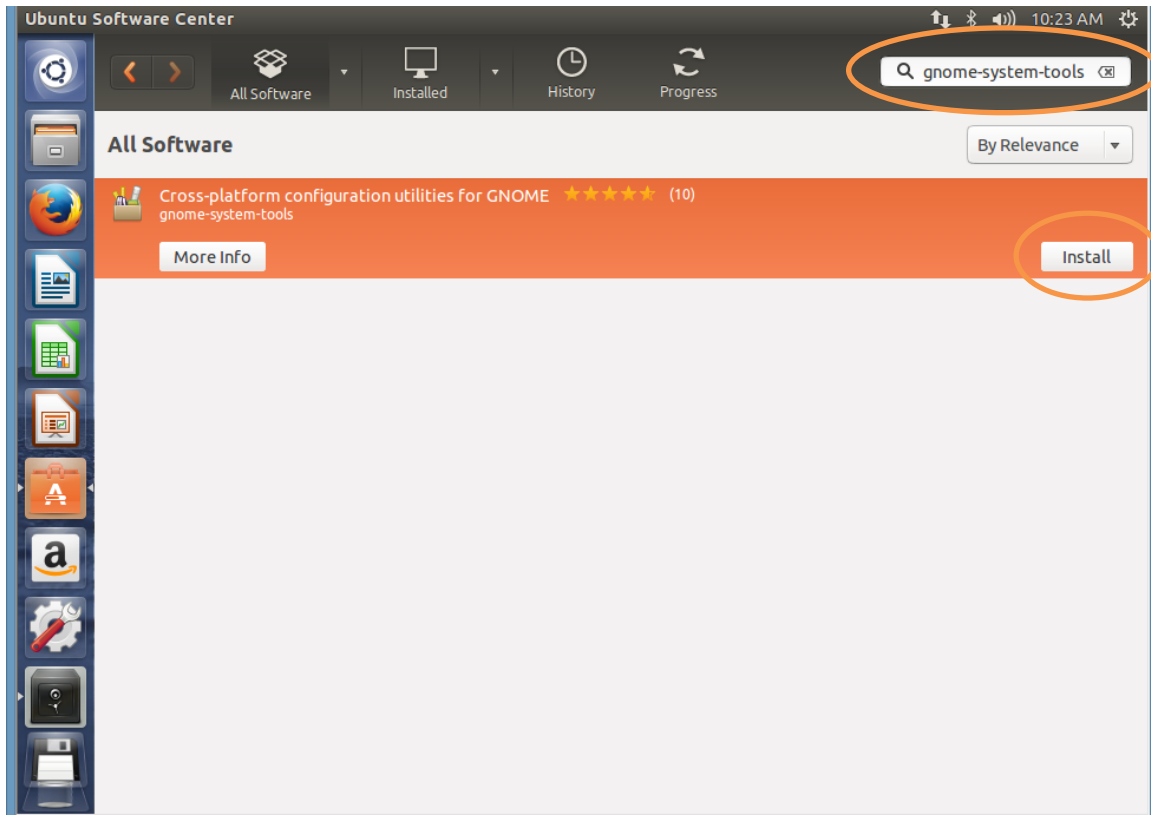
View and Install Software

GUI

a) Click on the Ubuntu Software Center

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b) From the Ubuntu Software Center, you can search for software packages, see installed software by category type, and get a history of installed/updated/removed software packages, by date.

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c) Click Install to start the process

Command Line

a. To find out the package name and description
   sudo apt-cache search vsftpd
b. To check information of package along with a short description
   sudo apt-cache show vsftpd
c. To check the dependencies for particular software packages
   sudo apt-cache showpkg vsftpd
d. To resynchronize the package index files from the their sources
   sudo apt-get update
e. To upgrade all the currently installed software packages on the system
   sudo apt-get upgrade
   Do not continue so select n
f. To install one or more packages
   sudo apt-get install vsftpd sysv-rc-conf mlocate
g. To get list of installed packages
   sudo dpkg --get-selections | grep -v deinstall
h. Verify vsftpd is installed
   sudo dpkg -l vsftpd

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    i.   To un-install software packages without removing their configuration files

            sudo apt-get remove vsftpd

    j.   To un-install software packages with their configuration files

            sudo apt-get remove --purge vsftpd

    k.   To free up the disk space by cleaning retrieved packages

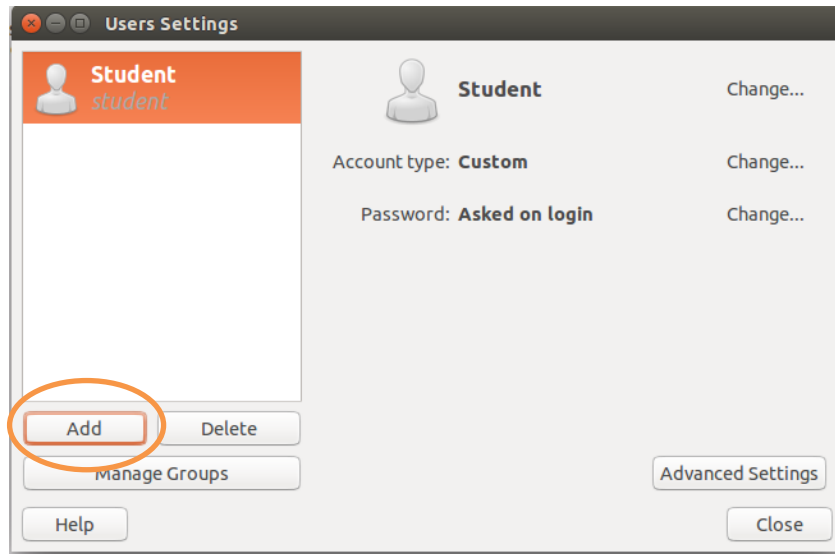   sudo apt-get clean

Create new users and groups

GUI

a)   By default, you will have access to the User Accounts application. If you want to manage users and groups, you must install the gnome-system-tools package to get the Users and Groups application.
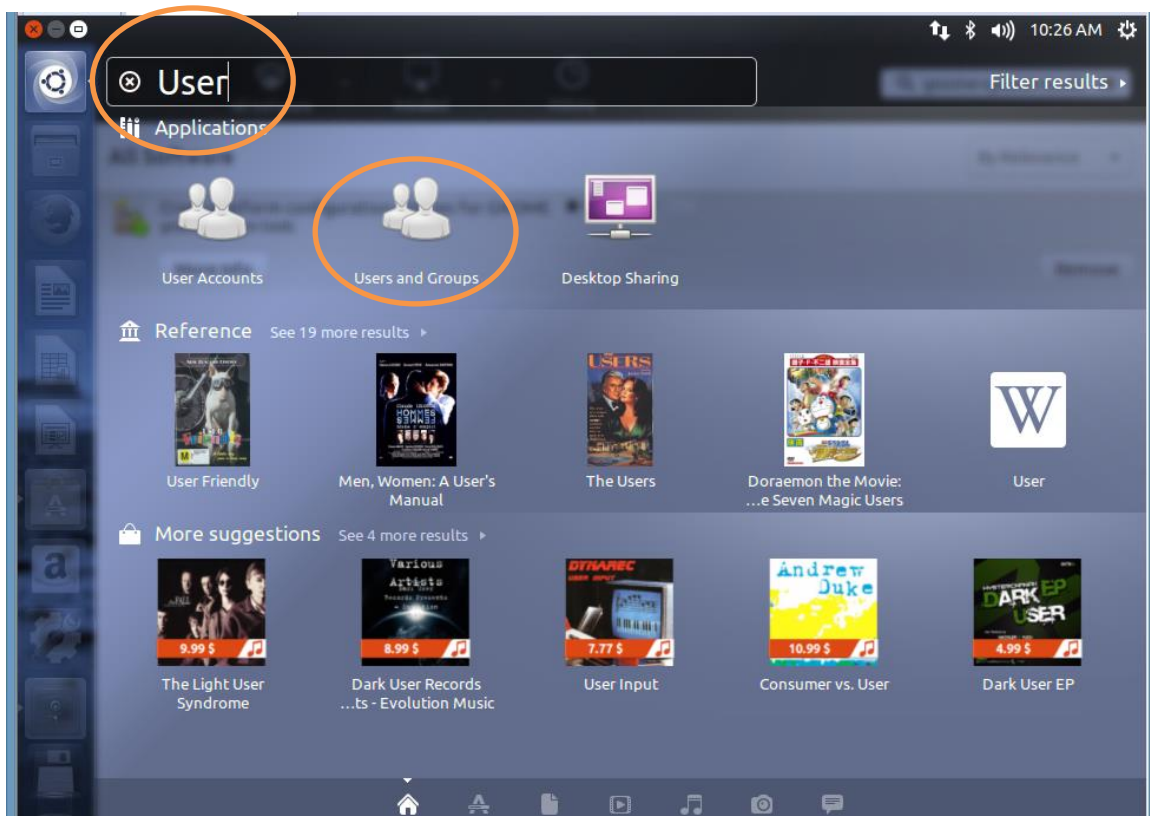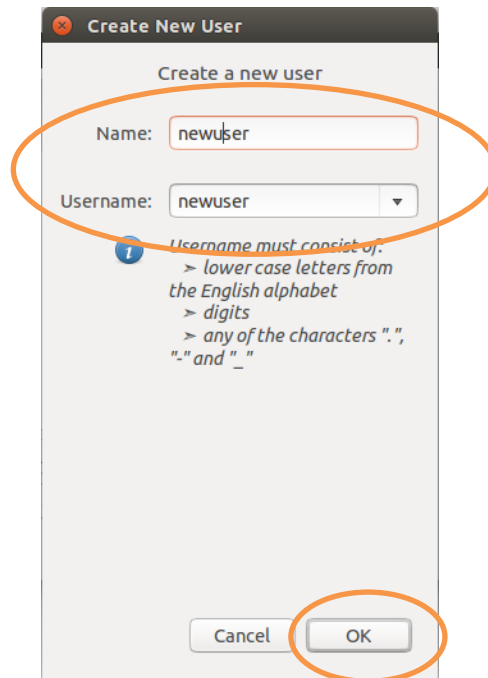

b)   Select the Users and Groups application

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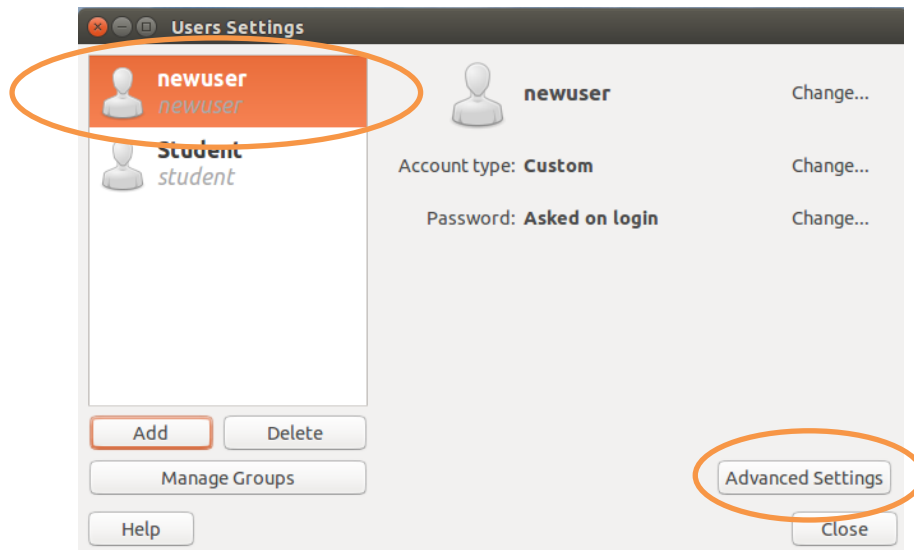c) Click Add to create a new user

d) Enter in a name. Username is fill in based on the name but you can change it.
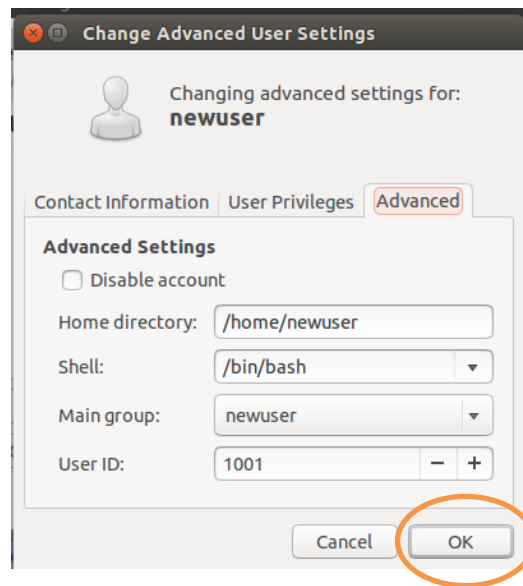
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e) Enter new password for the new user. Optionally, you can choose a random password. Although not recommended, you can also not set a password for the new user.
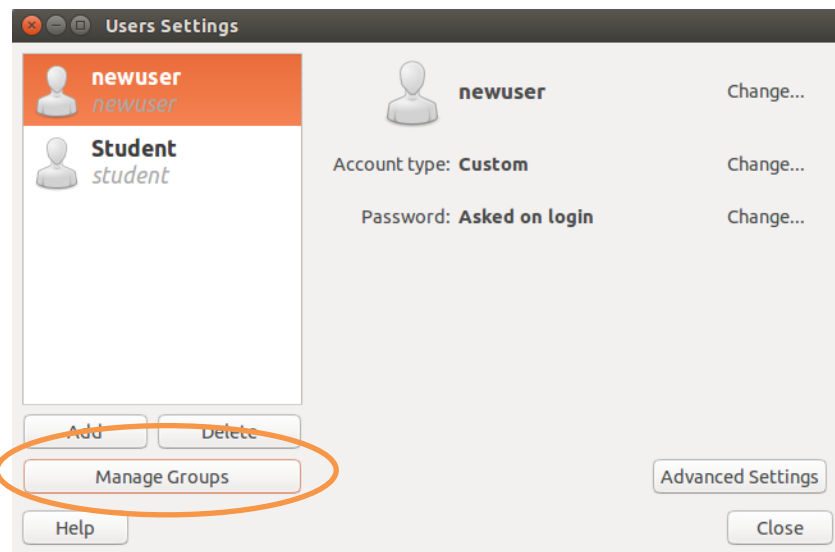

f) Now that the account is created, let's click Advanced Settings.
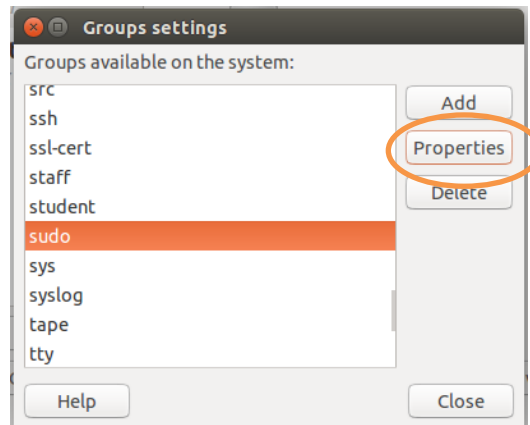
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g) You can add additional information to Contact Information or set settings permissions in User Privileges

h) In the Advanced tab, you can edit the home directory, shell, primary group and user id. You can also disable the account from the Advanced tab.
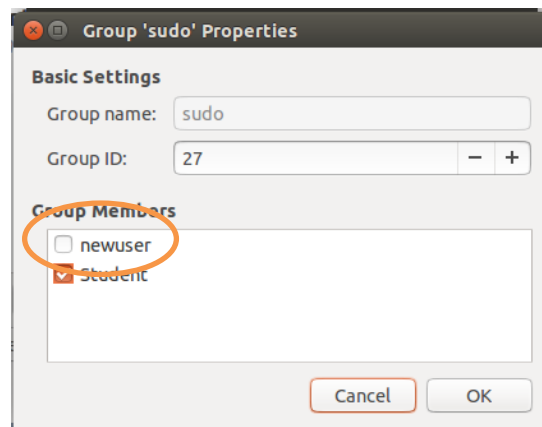

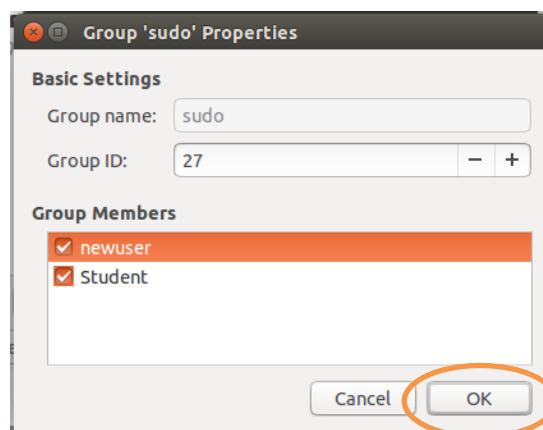i) Now let go to Manage Groups to add supplemental groups.

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j)   Select the group you want to add your user to.
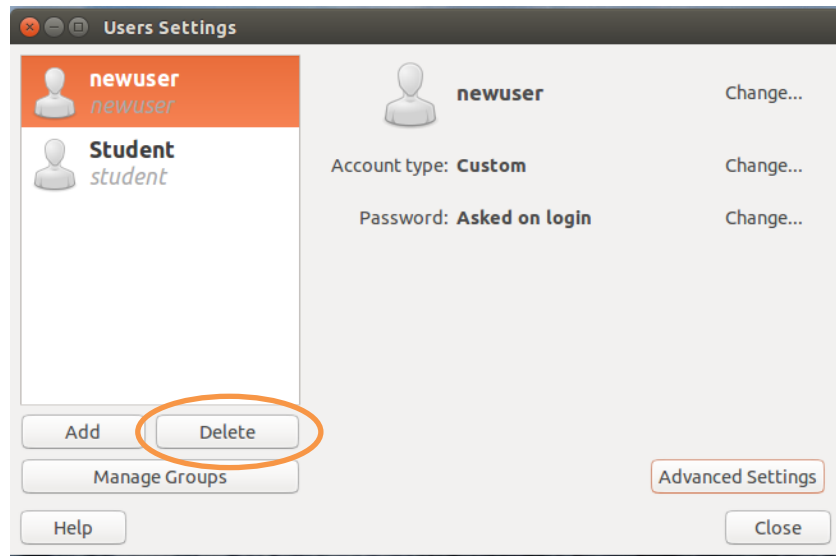

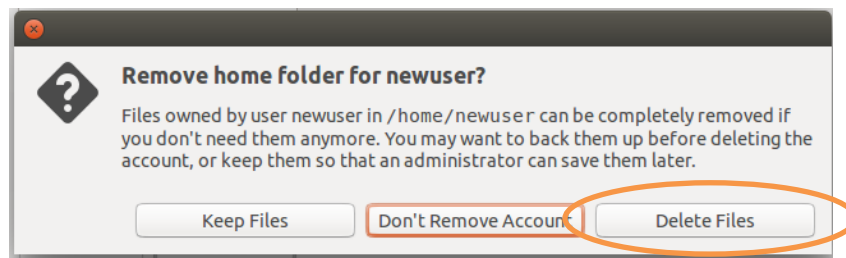k)   Add the user to the group.

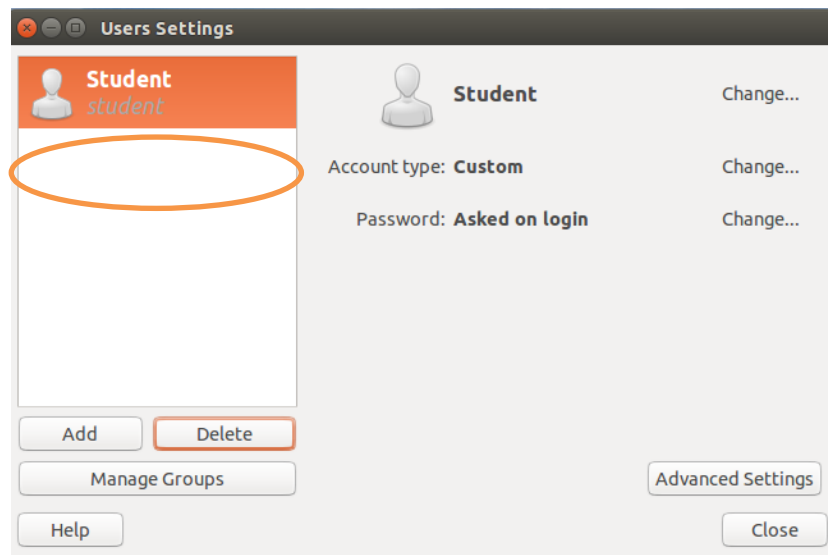l)   After selecting the user, click Ok

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m) Now, let's delete the new user we just created. Select the user and Delete.

n) You have an option when removing the user's account to keep or delete the user's files.

o) After making that selection, you will see the user is deleted.

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Command Line

a. Create new users

sudo useradd -u2000 -G sudo -c "Student Number" -s /bin/sh student1

b. Set password on user

sudo passwd student1

c. Create a new group

sudo groupadd developer

d. Check account information then set account to expire tomorrow

sudo chage -l student1

sudo chage -E "2015-03-01" student1

e. Update the user account

sudo usermod -s /bin/bash -aG developer student1

f. Create a second user

sudo adduser student2

g. Create a third user

sudo adduser student3

h. Login as student2 and change the password

su - student2 -s /bin/dash

passwd

i. Lock student2 account

sudo passwd -l student2

j. Delete student3 and his home directory

sudo userdel -r student3

k. Check current statuses of all accounts

sudo passwd -aS

l. Verify student1 user exist

sudo getent passwd student1

m. Verify student1 groups

sudo id student1

n. Check who is currently logged one

w

who

users

uptime

top | head -1

last | grep -w 'still logged in'

o. Check user's login and logout times/dates

last -F

p. Let's reboot server but first notify logged on users, Open up another shell

sudo shutdown -r +1 "The system is about to reboot in 1 minute"