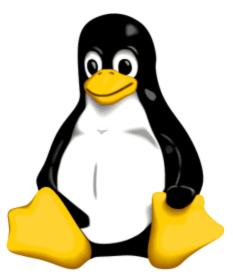
Linux / Linux Labs



What is Linux?

- An alternative to Microsoft Windows
- Open source
- Freely available
- Reliable
- More use seen in labs/scientific situations, but is seeing more popularity.
- Command line based interface



What is Linux?

- This is what we'll learn to program on in this class.
- Become comfortable with it early on.
 Don't wait until your first assignment.

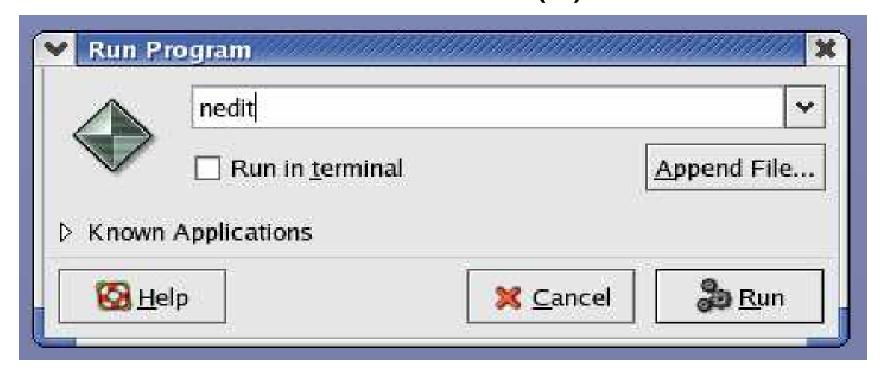
Linux Labs

- We'll hand out the appropriate accounts
- Where are the labs?
 - 301 Maclean Hall
 - B5 Maclean Hall

Now that I'm in the lab, what do I do?

- Login
- Go to start menu
- Go to "run programs"

Text Editor(s)



Like notepad, so easy to use.

Other options: emacs, vi (much harder to use)

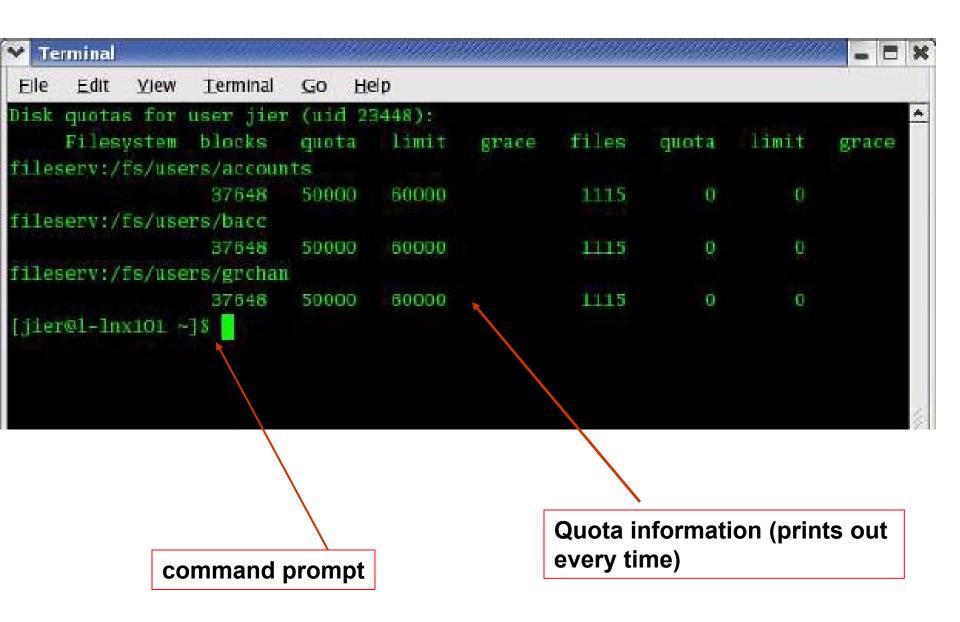
Non GUI: pico

Terminal

- Command line interface (like the DOS prompt)
- Where you will compile and run programs, manage files etc.
- We'll learn a set of basic commands.



Terminal Window



- pwd
 - print out current working directory

```
[skhandel@serv15 ~]$ pwd
/mnt/nfs/fileserv/grad/skhandel
[skhandel@serv15 ~]$
```

- mkdir
 - create a new directory
- [skhandel@serv15 ~]\$ mkdir newdir [skhandel@serv15 ~]\$

- cd
 - change directory

[skhandel@serv15 ~]\$ cd newdir [skhandel@serv15 ~/newdir]\$

- cd ..
 - back out of a directory

```
[skhandel@serv15 ~/newdir]$ cd ..
[skhandel@serv15 ~]$
```

Is or Is –I

list contents of directory

cp

copy a file

```
[skhandel@serv15 ~/newdir]$ cp file1.txt file4.txt
[skhandel@serv15 ~/newdir]$ ls
file1.txt file2.txt file3.jpg file4.txt
```

mv

– rename/move a file

```
[skhandel@serv15 ~/newdir]$ ls
file1.txt file2.txt file3.jpg
[skhandel@serv15 ~/newdir]$ mv file1.txt newfile1.txt
[skhandel@serv15 ~/newdir]$ ls
file2.txt file3.jpg newfile1.txt
```

rm

- delete a file

```
[skhandel@serv15 ~/newdir]$ ls

file2.txt file3.jpg renamedfile1.txt

[skhandel@serv15 ~/newdir]$ rm renamedfile1.txt

rm: remove regular empty file `renamedfile1.txt'? y

[skhandel@serv15 ~/newdir]$ ls

file2.txt file3.jpg

[skhandel@serv15 ~/newdir]$
```

rmdir

delete an empty directory

And the Web shall be your master

 This was a quick introduction, there are plenty of pages online that cover this material & more.

 Become familiar with these commands, feel comfortable with Linux.