Intro to Linux/Unix (user commands)

Box

What is Linux?

- Open Source Operating system

- Developed by Linus Trovaldsa the U. of Helsinki in Finland since 1991.

- Under GNU GPL, its source code is free for everyone to download and use.

- One of the most popular, esp for a server markets

- Source code can be modified to fit your need.

- Quite portable – good for new hardware products

- Supports various hardware platforms. Majority on x86

- True multi-tasking operating system.
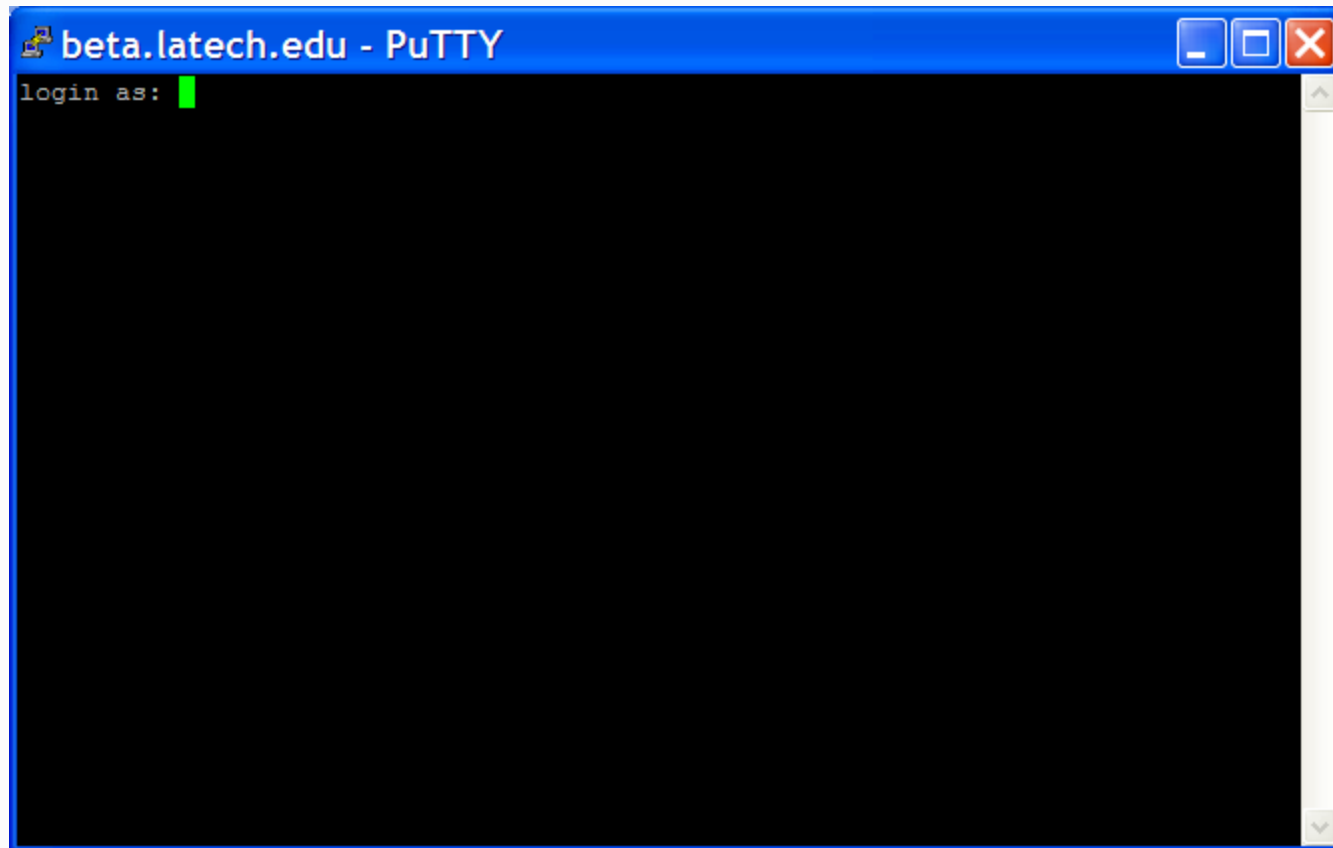
- Being immunized against all kinds of viruses.

Login

- Login at terminal/console, X-window

- Remote terminal – ssh
  - Putty – windows, openssh.org

Putty login screen

Navigate around and file/dir commands

- List a directory – ls

- Get more help – man %command

- Change directory – cd

- Forward slash in Linux/Unix

- Create directory – mkdir

- Remove file or dir – rm

- List a file content – cat , more

Create/edit a file

- Vi

- Emacs

- Any of you favorite editor

Compile and run your program

- Gcc – gnu c compiler

- G++ - c++

- Mpicc – mpi c compiler

- Default executable – a.out

- Run your program.
  - Make sure your $PATH is set
  - ./a.out – normal program
  - Mpi – mpirun or qsub (pbs)…