Additional Information: SSH, PuTTY, and VmWare

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EECS Linux machine remote access

- There are several ways you can access EECS Linux machines remotely depending on your computer OS:
  - MAC / Linux
  - Windows
- If you are using a computer with MAC OS or Linux distro
  - Use ssh
    - Open a terminal
    - Type 'ssh <username>@cycle2.eecs.ku.edu'
  - To enable X11 fowarding
    - Use the '-X' flag
    - Type 'ssh **-X** <username>@cycle2.eecs.ku.edu'
    - This is necessary for graphical programs (e.g. DDD)

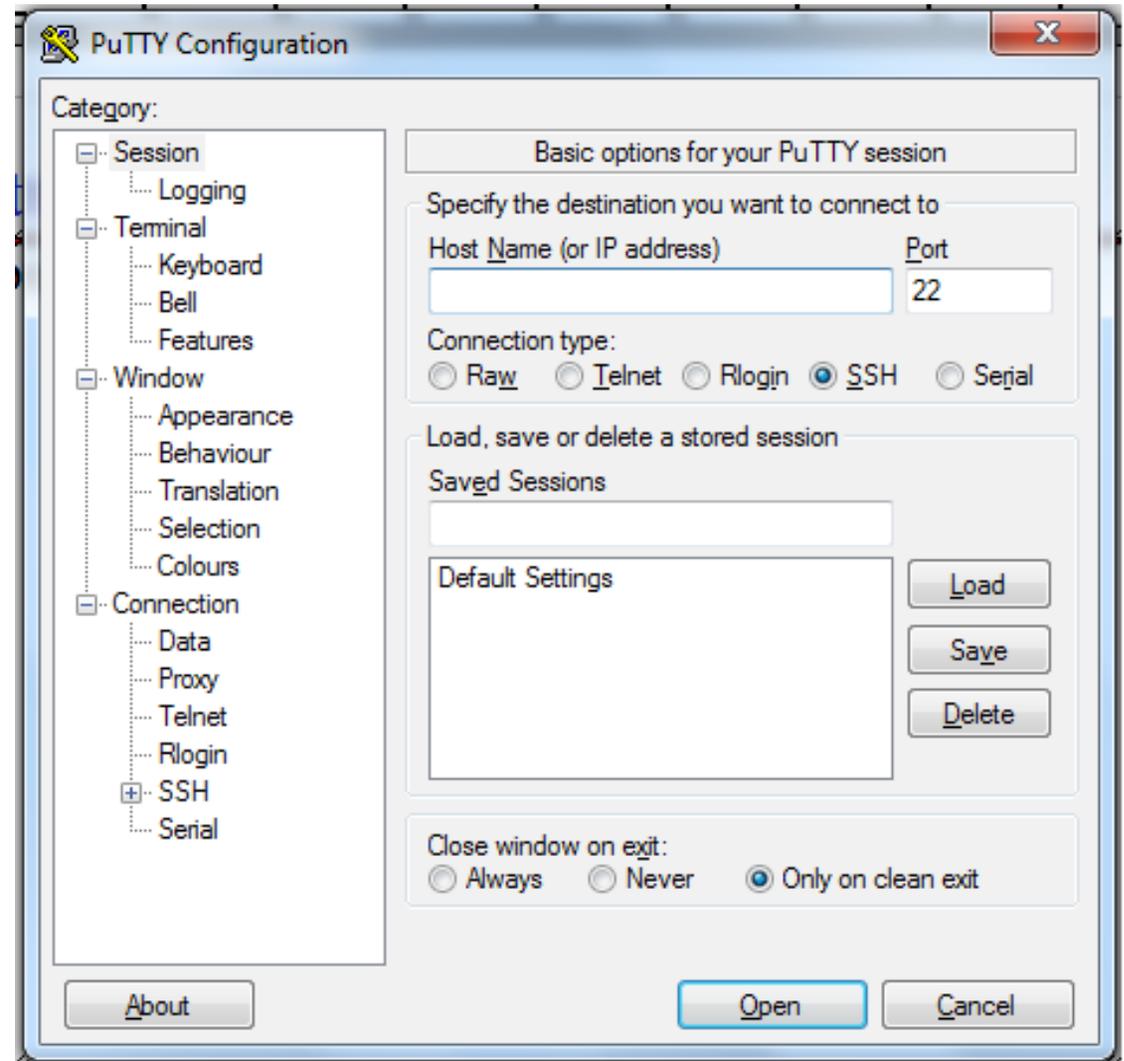# Windows User

- If your computer is using Windows OS, you can use
  - Putty
  - Virtualization software
- Putty
  - It is a free Telnet/SSH client for Windows
  - Installation
    - Go to

      http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html
    - On the 'Binaries' section, under 'For Windows on Intel x86' section, download 'putty.exe'

      (http://the.earth.li/~sgtatham/putty/latest/x86/putty.exe)
    - Place the executable in a desired location
    - Note this will only support character oriented connections, not X-forwarding

Putty

- Open putty.exe
- Under 'Host Name'
  - Type 'cycle2.eecs.ku.edu'
- Click 'Open'
- A terminal will pop up and ask for your eecs username and password
- Type username and password
  - Typing your password will not display any characters
- Now you are connected to EECS Linux machine

Virtualization OS software

- It provides you with a virtual version of an OS
- There are many options to choose from, but these are the two common ones:
  - VMware workstation
  - Virtual Box
- You can use either one of them to install a Linux distro (e.g. Fedora 15) on your computer.

Vmware workstation

- Vmware workstation is a commercial software
- But the EECS department provides it free to the students, along with other software
- Go to https://eecs.ku.edu/login
- Log in with your EECS username and password
- Click 'Downloads', on the left hand side
- Under the 'Software Licensing Agreement' section
    - Click VMWare
- Download 'Vmware Workstation 7'
- It will show as a purchase, but it cost $0
- Save the serial number that is given, since you have to use to activate the software
- Run the Vmware-workstation-full-7.1.3.exe

Vmware workstation (continued)

- Follow the instructions from the Installer wizard
  - For more detailed instructions, go to http://www.vmware.com/support/ws5/doc/ws_install_winhost.html
  - Type in the serial number when requested
  - Reboot your computer
- Now we need the Fedora 15 installer.
- Go to http://fedoraproject.org/en/get-fedora-options
- Download the ISO image for your corresponding system (e.g. 32-bit or 64-bit)
  - EECS is running 64-bit Fedora 15 (Fall 2011) on the workstations, but for what 268 does either 32 or 64 bit should work.
  - Still, it is safer to go with reproducing the target environment

Installing Fedora 15 on Vmware workstation

- Open Vmware Workstation
  - Go to Start->All Programs->VMware->VMware Workstation
- Create a new virtual machine
  - Go to File->New->Virtual Machine
- Follow the wizard instructions
  - Select 'Typical' configuration and click Next
  - Select 'Installer disc image file (iso)' and click 'Browse'
  - Choose the Fedora 15 iso image and click 'Open'
  - Click Next
  - Fill out user information and name the virtual machine
  - Select the size of virtual machine.
    - The recommended size is 20 GB
  - Click Finish, and the Fedora installation should begin

Installing Fedora 15 on Vmware workstation

- Follow the wizard instructions
- If you want more detailed information on installing Fedora 15 go to
  - http://docs.fedoraproject.org/en-US/Fedora/15/html/Installation_Guide/pt-The_installation_process.html
- Once you have the Linux OS, you can use ssh or just do the assignments on the Guest OS Linux
  - If you can use Firefox in the Guest OS, you can upload a TAR file..... probably
- Other options
  - You can also use Virtual Box instead to install Fedora 15 on your Windows machine
    - Virtual Box is not commercial
  - You can dual boot your computer with Fedora 15
    - It requires a higher level of expertise