

Network Monitoring & Management

A few Linux basics

Our chosen platform

Ubuntu Linux 10.04 LTS 32-bit

- LTS = Long Term Support
- no GUI, we administer using ssh
- Ubuntu is Debian underneath
- In the real world choose 64-bit edition
- There are other platforms you could use:
 - CentOS / RedHat, FreeBSD, ...
- This isn't a UNIX admin course
 - Worksheets are mostly step-by-step
 - Please help each other or ask us for help

You need to be able to....

Login to your virtual machine using ssh

- On Windows use putty.exe
- Connect to pcX as user sysadmn
- Be root when necessary: sudo <cmd>
- Install packages
 - sudo apt-get install <pkg>
- Edit files
 - sudo joe /etc/motd
 - sudo vi /etc/motd

joe editor

- Ctrl-C quit without saving
- Ctrl-K X to quit and save
- Cursors work as you expect
- We provide a PDF reference in the materials

vi editor

- The default editor for all UNIX and Linux distributions
- Can be difficult to use
- If you know it and prefer to use vi please do
- We provide a PDF reference in the materials

Other tools

- Terminate foreground program: ctrl-c
- Browse the filesystem:

```
-cd /etc
```

-ls

-ls -l

Rename and delete files

```
-mv file file.bak
```

-rm file.bak

Starting and stopping services

Standard method

-/etc/init.d/apache2 restart

New method

- service apache2 restart

Check for the process

-ps auxwww | grep apache

Viewing files

Sometimes files are viewed through a pager program ("more", "less", "cat"). Example:

```
-man sudo
```

- Space bar for next page
- "b" to go backwards
- "q" to quit
- "/" and a pattern (/text) to search

To get started

- Login to your virtual server using ssh
- Install the "joe" editor package
 - sudo apt-get update
 - sudo apt-get install joe
- Edit the "message of the day" to identify your virtual machine as yours:
 - sudo joe /etc/motd
 - Or use your favorite editor (vi, pico, etc.)
- Log out and log in again, then do:
 - man motd.tail