A few Linux basics

Our chosen platform

Debian 7 "Wheezy" amd64 (64-bit)

- – no GUI, we administer using ssh
- – Debian is preferred platform of Ganeti devs
- – Ubuntu is a remix of Debian

- 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 hostN as user *root*
- *We'll do that now...*

- Accept Public Key when prompted
- Windows users can download *putty* from http://ws.bdnog.org/downloads
- Ask for help if you are having problems

You need to be able to….

- Install packages
  - `apt-get install <pkg>`
- Edit files with your chosen editor
  - `vi /etc/mailname`
  - `nano /etc/mailname`
- Check for the process "apache"
  - `ps auxwww | grep apache`
- Start/Stop services
  - `service <NAME> <start|stop|restart>`

vi editor

- The default editor for all Linux distributions
- When it starts you are in <u>COMMAND</u> mode
- To enter text you must be in <u>INSERT</u> mode
  - hit "i" in command mode to get to insert mode
  - hit [ESC] to return to command mode
- Essential commands (in command mode)

  : w q [Enter]   *write and quit*

  : q ! [Enter]   *quit discarding changes*

  x   *delete character under cursor*

  d d   *delete whole line*

joe editor

- You would need to install it

  ```
  apt-get install joe
  ```
- Ctrl-C quit without saving
- Ctrl-K X to quit and save
- Cursors work as you expect

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`

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

Brief exercise

- Login to your host
- Edit the file `/etc/motd` to customize the message you get when you next login
- Login again to check it has changed