- login into GNU/Linux and open up a terminal
- the network configuration diagram given in at the end of the lecture is out of date
  - [deliberately done for pedagogical reasons]
- the task today is to create an up to date version of the diagram using command line tools

- read the manual page for ping
- use it to see if the IP address 193.63.129.1 is receiving packets
- read the manual page for nslookup
  - use nslookup to determine the FQDN for 193.63.129.1
- read the manual for traceroute
- write down the route packets take from your local machine to 193.63.129.1

- find out the IP address of your current machine
  - hint: use the command line program hostname and nslookup
- to which IP network class is your lab machine connected?
- using a landscape A4 page draw a network map showing your local machine and the network class
- using traceroute find out your local network gateway as it travels to 193.63.129.1
  - your map should include all machines which packets traverse through on route to 193.63.129.1

- find out the IP address of floppsie.comp.glam.ac.uk and add it to your diagram
- find out the machine name of 193.63.148.84 and add it to your diagram
  - add all the router IP addresses which packets traverse through between your machine and 193.63.148.84

- read the manual for nmap
- what nmap command would you use to find out all client names of machines running the ssh server on your local subnet?
- what is the IP address of the dns server used by your client machine?
- can you find the IP address of the ntp server used on campus in the university?
- **c**an you find the dhcp server IP address your client uses?
  - hint see if this information is visable when running dmesg