Networking Basics – Practical Sheet

In Class Practical

Get Set Up

You will need your computer plugged into a shared router Ethernet port.

Connect computer to Ethernet router

Make sure you are using a computer with an Ethernet port, take a single Ethernet cat5 cable and connect the Ethernet port to the shared router provided by the teacher.

Manually specify an IP and mac address

Using the ifconfig command, manually specify a static ip-address for the Ethernet interface (normally eth0/eth1)

Discover other computers on the network

Using the `arp -i` command discover and identify each of the computers on the local network.

Send 3 other students a file via netsend

Send 3 other students any file from your system.

Homework

Configure 3 firewall rules using iptables, one for IN, two for OUT, send the results to a file.