

# Task 1

- Create a firewall on your computer that prevents ping from working
- Capture on both computers using tcpdump; check WHY ping doesn't work
- Try different chains, 5 results:
  - INPUT on A: A ping B
  - INPUT on A: B ping A
  - OUTPUT on A: A ping B
  - OUTPUT on A: B ping A
  - FORWARD on A: anyone ping

# Task 2

- Create a firewall that will drop TCP packets destined to a specific computer (your neighbours)

# Task 3

- Create an internet with two subnets: on one subnet is a single PC1; and on the other subnet is two PCs (PC2 and PC3).
- PC1 should run a web server and SSH server.
- Create a firewall on the router that allows the following:
  - Any computer can connect to the web server on PC1;
  - Only PC2 can connect to the SSH server on PC1;
  - No computers can connect to any other servers (e.g. FTP, Email) on PC1.
  - PC1 can access servers on PC2 and PC3

# Task 3

- Create an internet with two subnets: on one subnet is a single PC1; and on the other subnet is two PCs (PC2 and PC3).
- PC1 should run a web server and SSH server.
- Create a firewall on the router that allows the following:
  - Any computer can connect to the SSH server on PC1;
  - Only PC2 can connect to the web server on PC1;
  - No computers can connect to any other servers (e.g. FTP, Email) on PC1.
  - PC1 can access servers on PC2 and PC3 (or anywhere else)

# Task 3 (not used)

- 3 or 4 computers (A, B, C, D)
- A: Stop B from accessing web site
- B: Allow only SSH access
- C: Allow only access to nc on port 50123
- D: Stop C from access port 50124 and SSH