

# Widely used in practice

Assuming the attacks comes from outside, a firewall can prevent

- Most scanning attacks
  - Some spoofing attacks
  - Some flooding attacks (as long as it can handle the load)
  - Anomalous messages e.g smurf attack
  - and others
- ➡ But more generally, it can restrict access to protected hosts

# Two type of firewalls

## **Stateless packet filtering**

is purely based on the IP address and the port

## **Stateful packet filtering**

tracks the status of every connection (TCP 3 way handshake)