

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)