

Network Firewall

A firewall defines a logical defense parameter and acts as an access control between two networks

- ➡ Packet filtering based on IP addresses (TCP filtering)
- inbound traffic from the Internet trying to get into the protected network
- outbound traffic going the other way
- ✓ For the most part, we trust the outbound but not the inbound

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