



Week 10

Packet-Filtering Firewalls

Packet-Filtering Firewalls

- The simplest form of firewall
- Discard packets, which do not meet the configurable criteria (policy)
 - Addresses
 - Source/destination IP numbers
 - Protocols
 - E.g., port 80 for HTTP, port 25 for e-mail, port 23 for Telnet, etc.
 - Initiators
 - Histories
- Frequently added to routers for cost-effective performance

Packet-Filtering Firewalls

- Static packet filtering
 - Looks at packets one at a time, in isolation
 - Not knowing the context of the packet
 - Extremely limited
- Stateful inspection firewalls
 - Packet filtering firewalls with enhancement, considering the context of packets
 - Record information about TCP connections
 - Forward packets based on the current context, such as TCP connections or sequence numbers



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