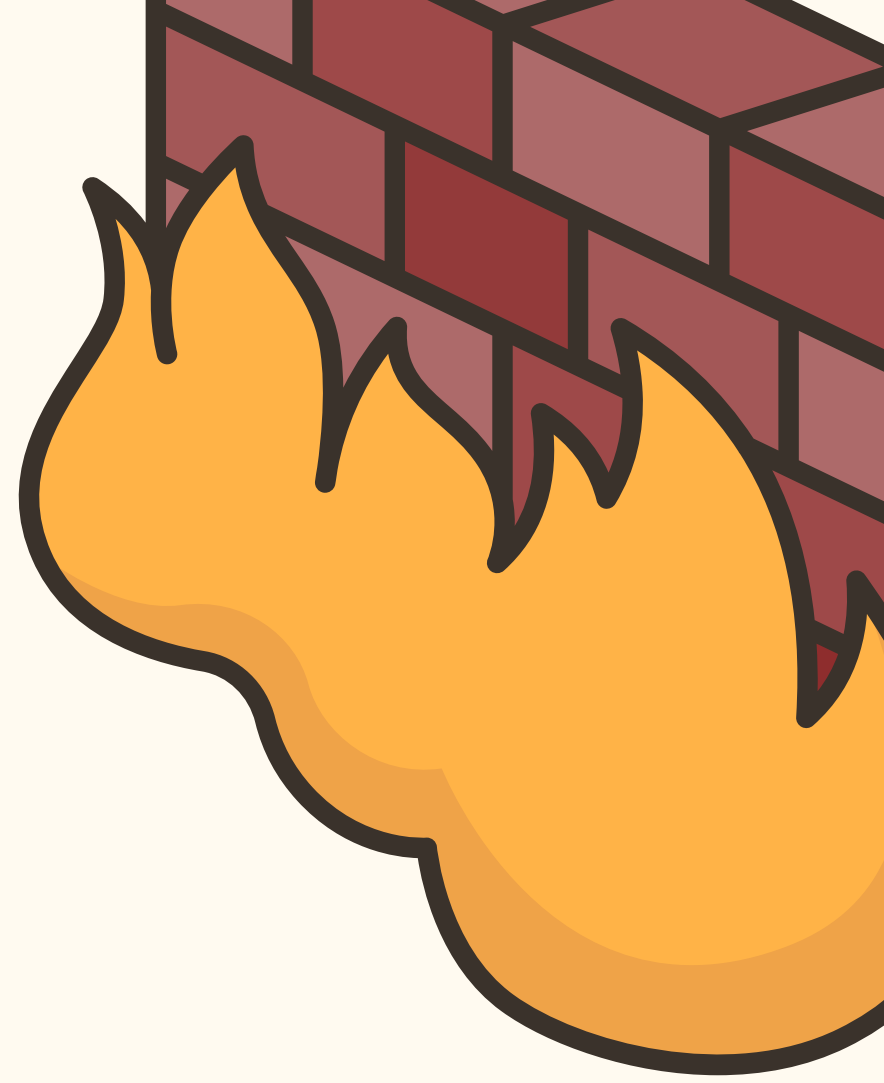
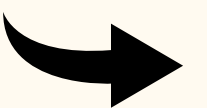
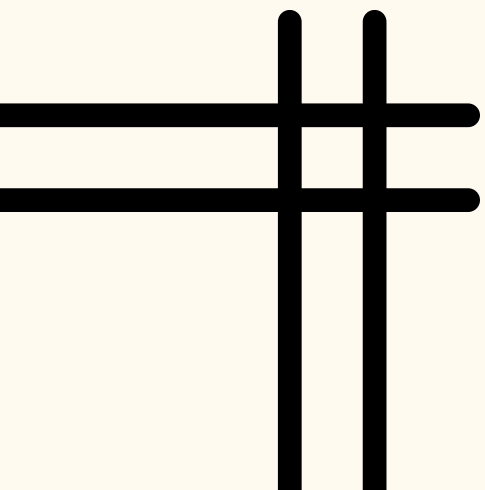


**MINISTRY
OF
SECURITY**

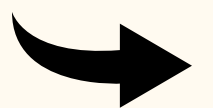


TYPES OF FIREWALLS



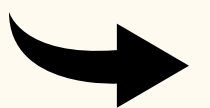
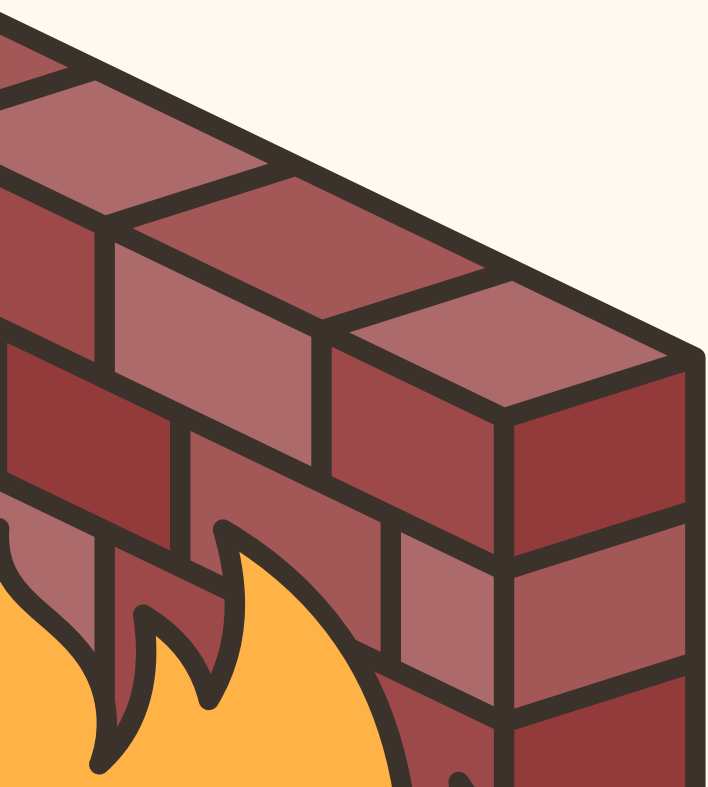
01 PACKET FILTERING FIREWALL

- Packet Filtering firewall serves as inline security checkpoint attached to a router or switch.
- As the name suggests, it monitors network traffic by filtering incoming packets according to the information they carry.



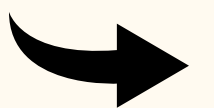
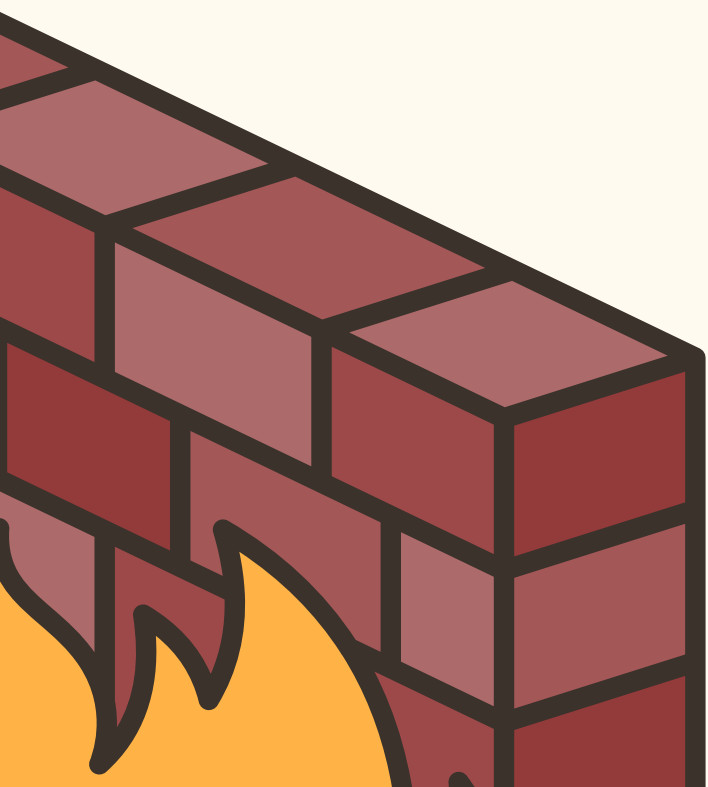
02 STATEFUL INSPECTION FIREWALL

- Stateful Inspection monitors the state of active connections and uses this information to determine which network packets to allow through the firewall.
- It keeps track of the state of connection by monitoring the TCP 3 way handshake.



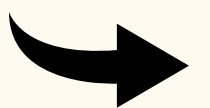
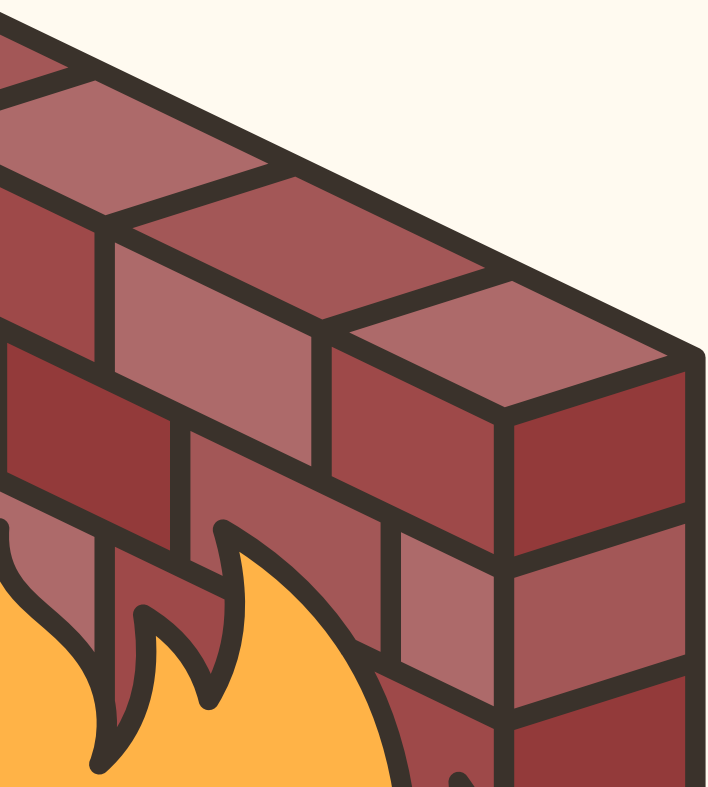
03 STATEFUL MULTILAYER FIREWALL

- Stateful multilayer uses a sophisticated form of packet-filtering that examines all seven layers of the Open System Interconnection (OSI) model.
- Each packet is examined and compared against known states of friendly packets.



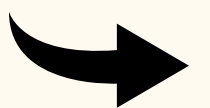
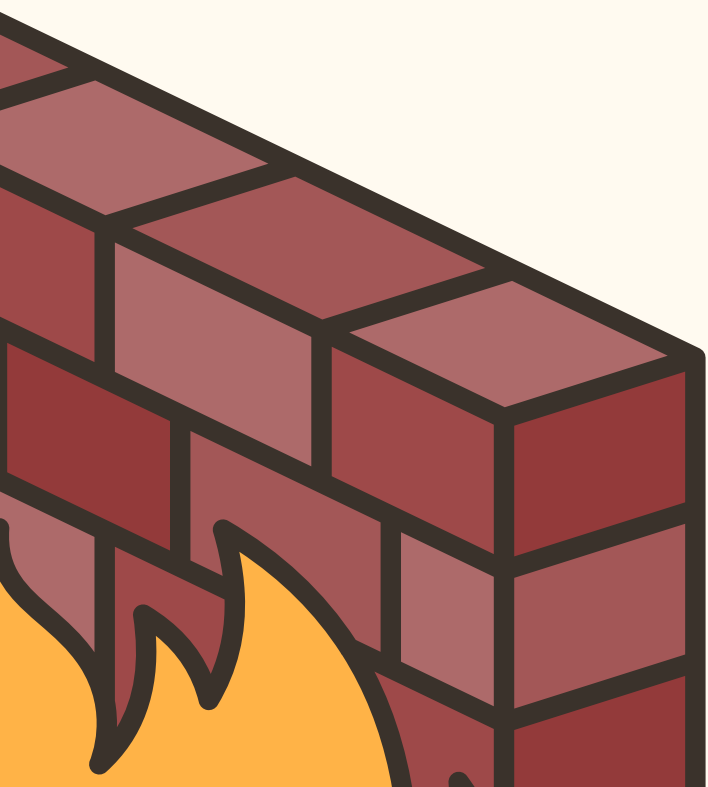
04 PROXY FIREWALL

- A proxy firewall serves as an intermediate device between internal & external systems communicating over the internet.
- It protects the network by forwarding requests from the original client and masking as it as its own.



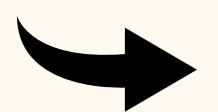
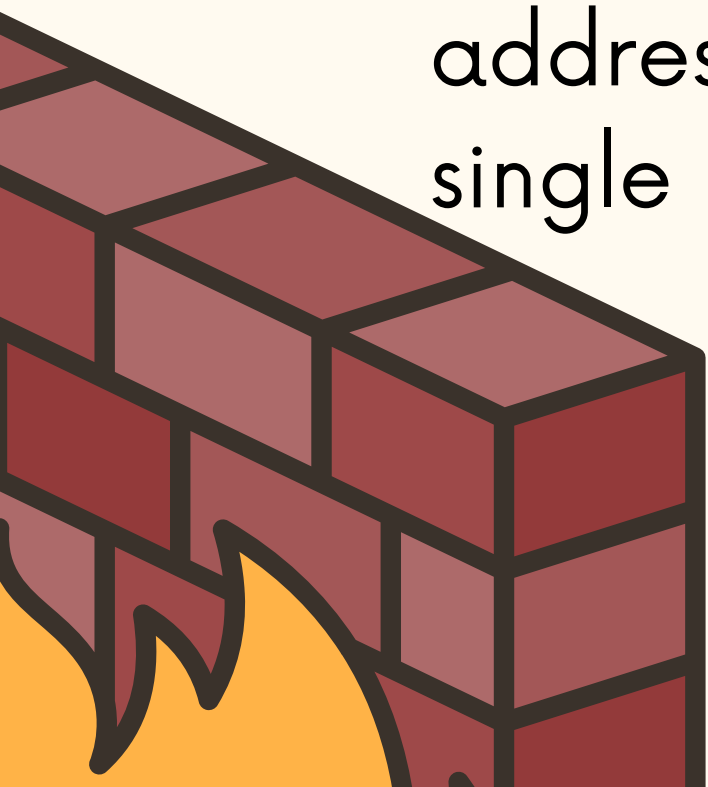
05 NEXT-GEN FIREWALL

- A next generation firewall is a security device that combines a number of functions of other firewalls.
- It incorporates packet, stateful and deep packet inspection.



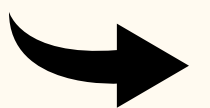
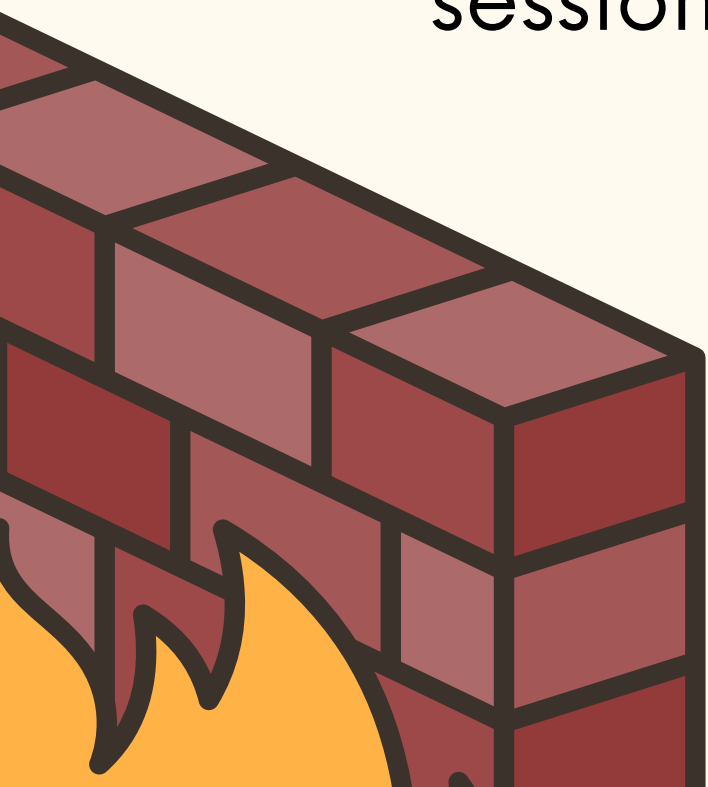
06 NETWORK ADDRESS TRANSLATION FIREWALL

- NAT firewalls are similar to Proxy firewalls, acting as intermediaries between a group of computers and outside traffic.
- They act as private networks, allowing multiple devices with independent network addresses to connect to the Internet with a single IP address.



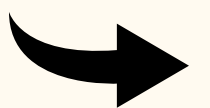
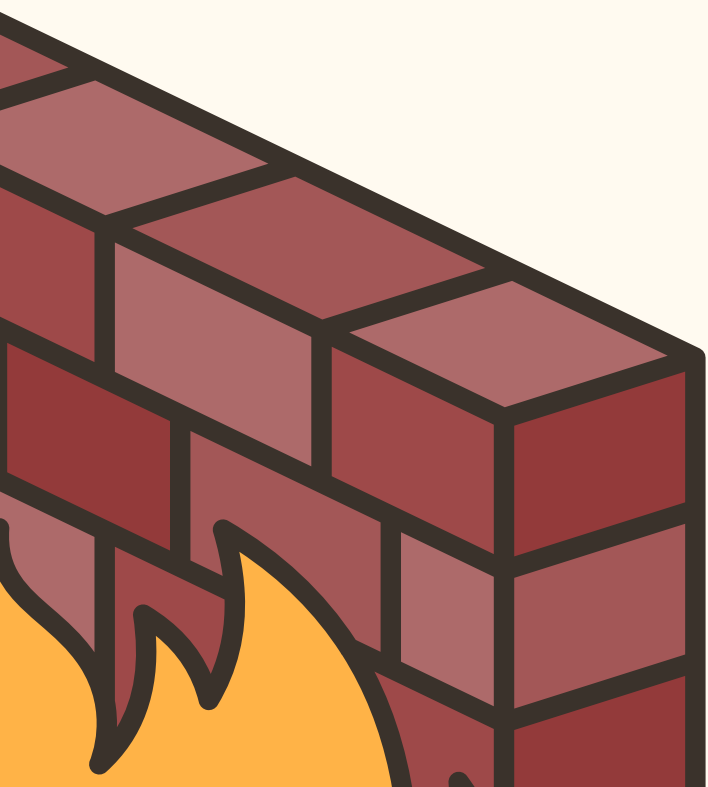
07 CIRCUIT LEVEL GATEWAY

- Circuit level gateways are a type of firewall that work at the session layer of the OSI model, observing TCP connections and sessions.
- It monitors TCP handshaking between packets to determine whether a requested session is legitimate.



08 CLOUD FIREWALL

- A cloud firewall or firewall as a service (FaaS) is a cloud solution for network protection.
- Like other cloud solutions, it is maintained and run on the internet by other third party cloud vendors.



09 APPLICATION GATEWAY FIREWALLS

- Application gateway firewalls has the capability to inspect packets and ensure the packets are conforming to application specifications.
- It filters incoming node traffic to certain specifications which mean that only transmitted network application data is filtered.

