

# Middle Boxes

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## Middle Boxes

- These are extra devices that interact with IP packets when they are getting transported by a layer.
- Most of these are found on network layer and transport layer.
- One that is connected to the global network and the other is connected to local network.
- Middle Boxes also works with packets data are coming and allow some packets ,rejects some packets or modify packets.
- Operates in Network layer but also exist in Transport layer.

## Firewall

- This is a type of middle box.
- This filters out IP packets on the basis of some rules.
- These type of middle boxes are found on the end devices and on the network.
- There are two types of firewall one is connected to global internet and other is connected with your own network.

## Stateless Firewall

- This firewall does not keep any state about the packets.
- Stateless firewall is not efficient.

## Stateful Firewall

- This maintains state of the IP packets.
- This stores IP packets into cache.
- This is efficient because it maintains cache.