

Ethernet

WiFi





ICMP

IPv4

UDP



SMTTP

DNS

BGP

HTTP

ARP



IPv6



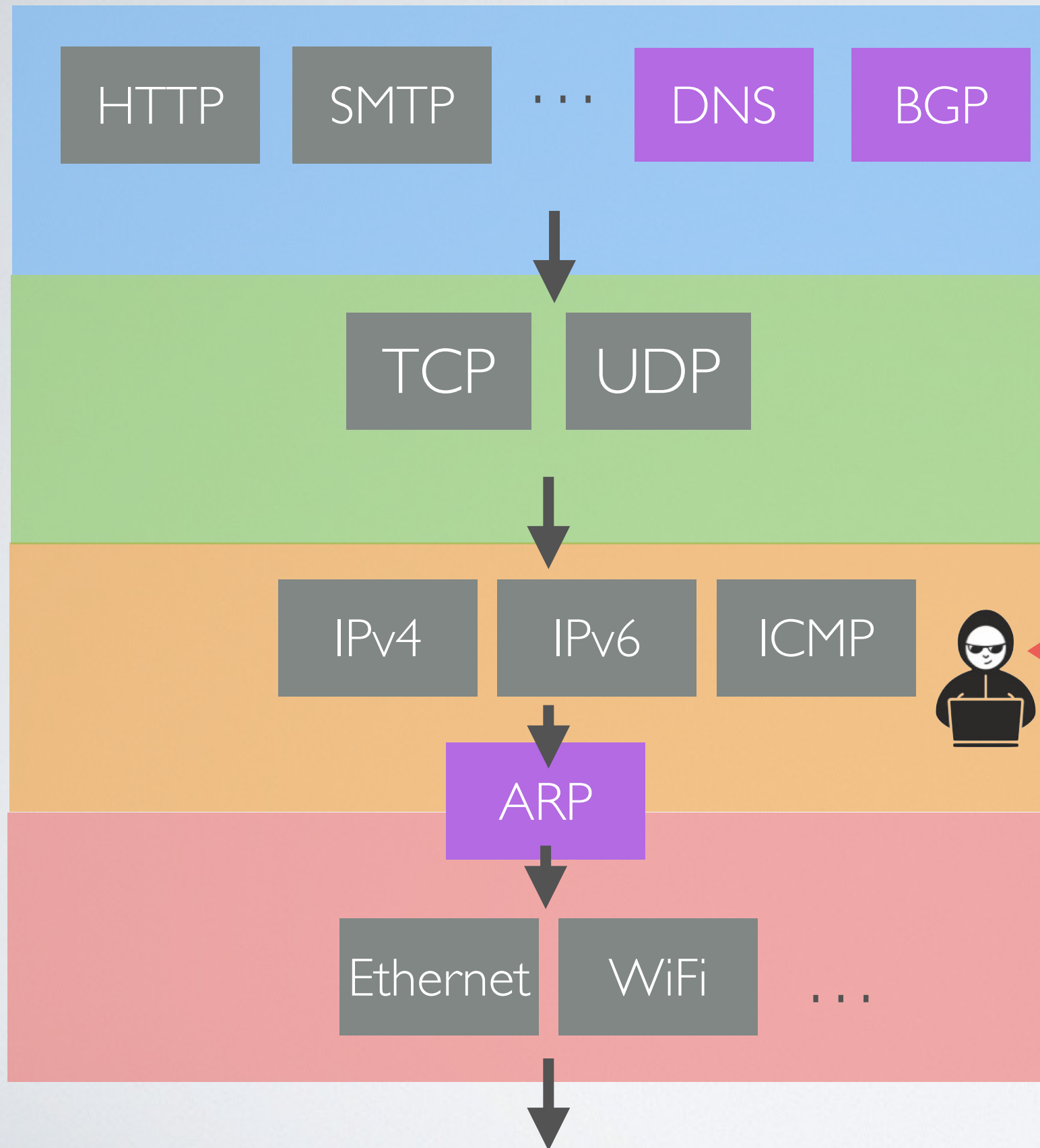
TCP





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- A red speech bubble with a white outline and a tail pointing towards the top-left corner. Inside the bubble is a bulleted list of three items.
- Host discovery (scanning)
 - IP forgery (spoofing)
 - ICMP Ping flooding (DOS)





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Defending against IP forgery

IPsec - Internet Protocol Security provides authentication (AH) (and optionally encryption (ESP)) of IP traffic

- ➔ Uses SHA2 and AES (previously SHA1 and 3DES)
- ➔ Built-in support in IPv6
- ➔ Transport mode and Tunnel mode (most common)
- ✓ Used usually between routers (link and network layers only)

