



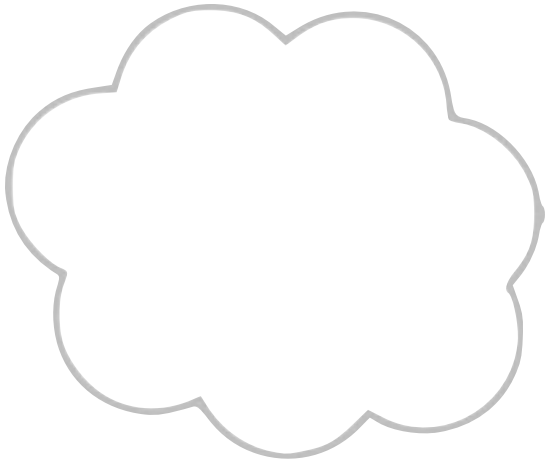
The Protocol Stack



Ethernet

WiFi





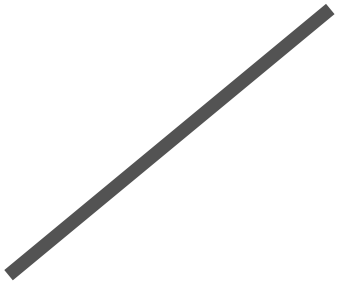
















ICMP

IPv4





UDP





SMTP

DNS

BGP

HTTP



Application

Transport

Network

Link

ARP



IPv6



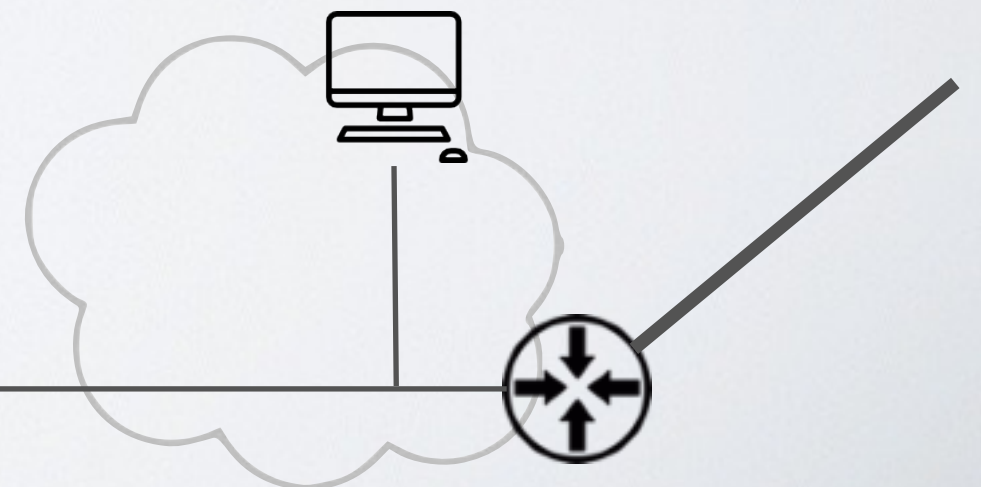
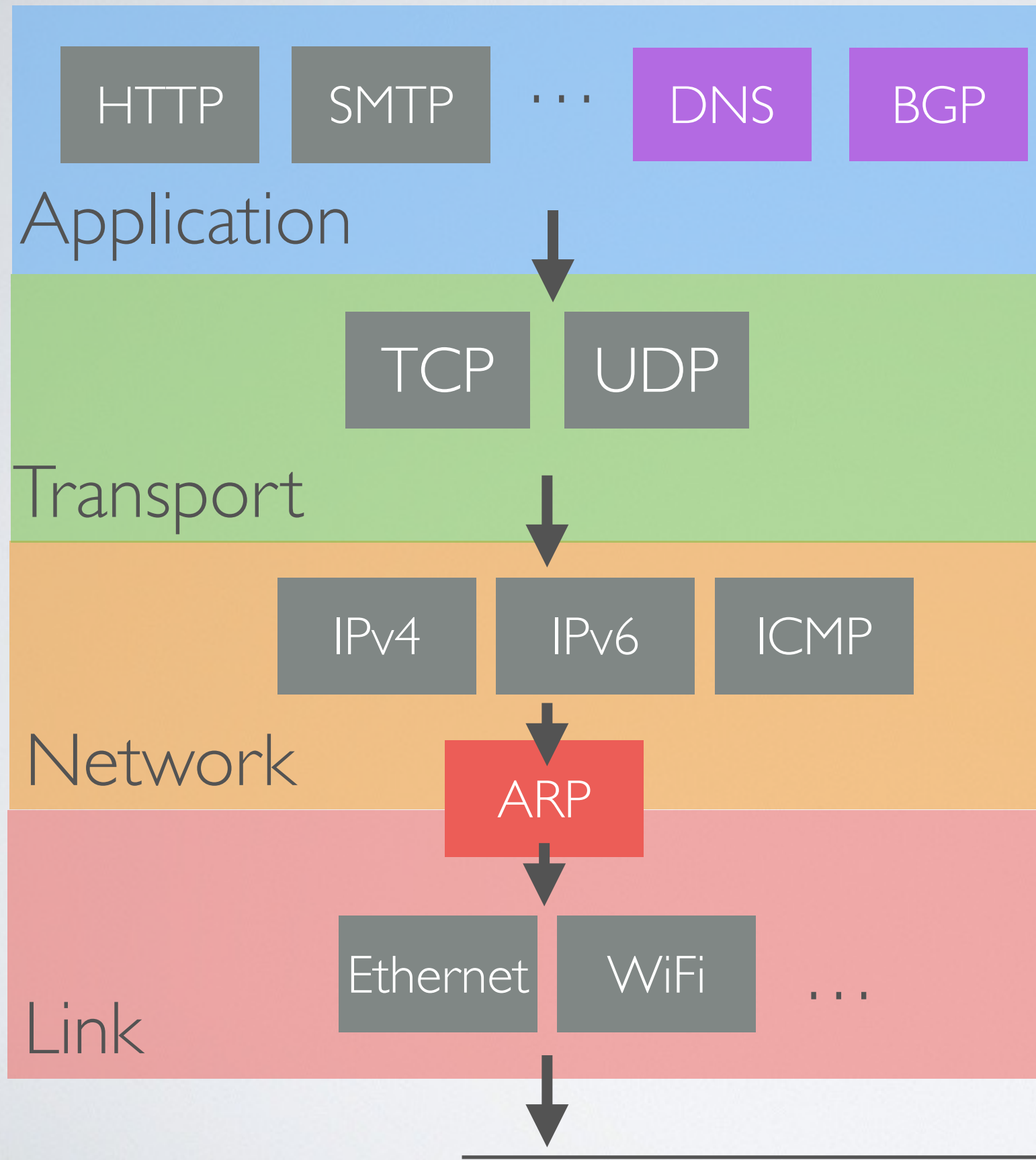


TCP





# The Protocol Stack



confidentiality  
integrity  
availability



The attacker is capable of ...

**Scanning** - survey the network and its hosts

**Eavesdropping** - read messages

**Spoofing** - forge illegitimate messages

**DOS** (Denial of Service) - disrupt the communications

➡ The attacker can target any layer in the network stack