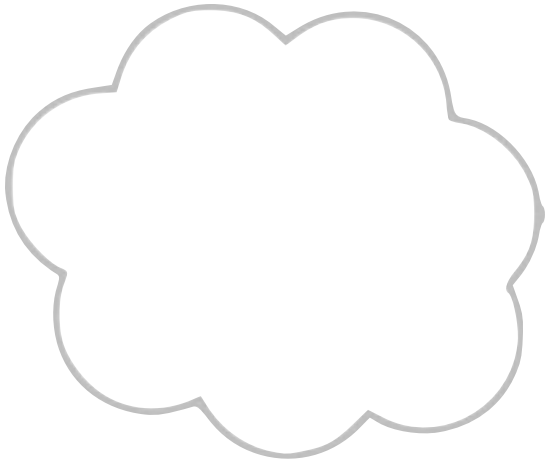


The Protocol Stack

Ethernet

WiFi



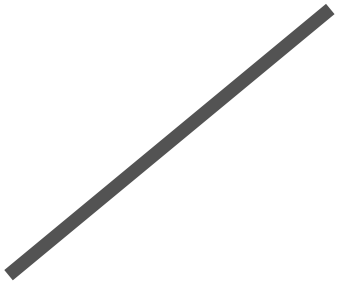














ICMP

IPv4

UDP



SMTTP

DNS

BGP

HTTP

Application

Transport

Network

Link

ARP



IPv6

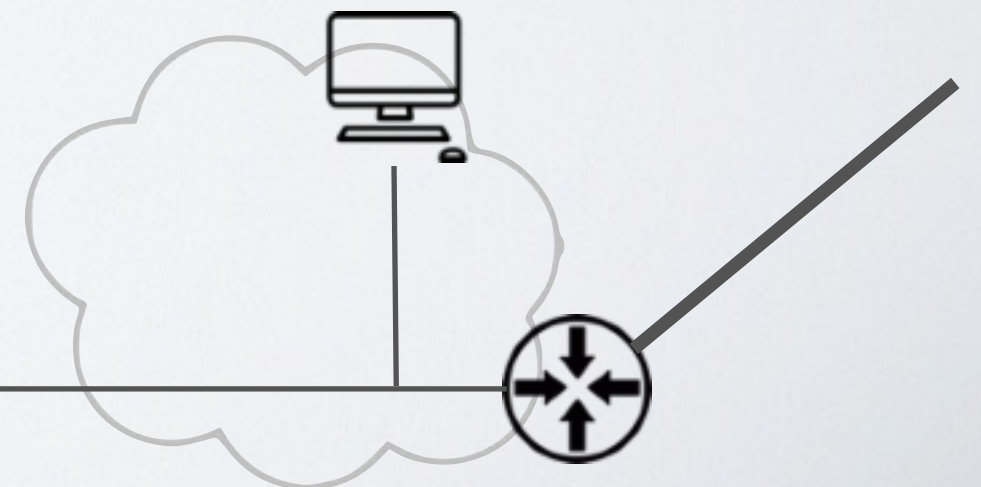
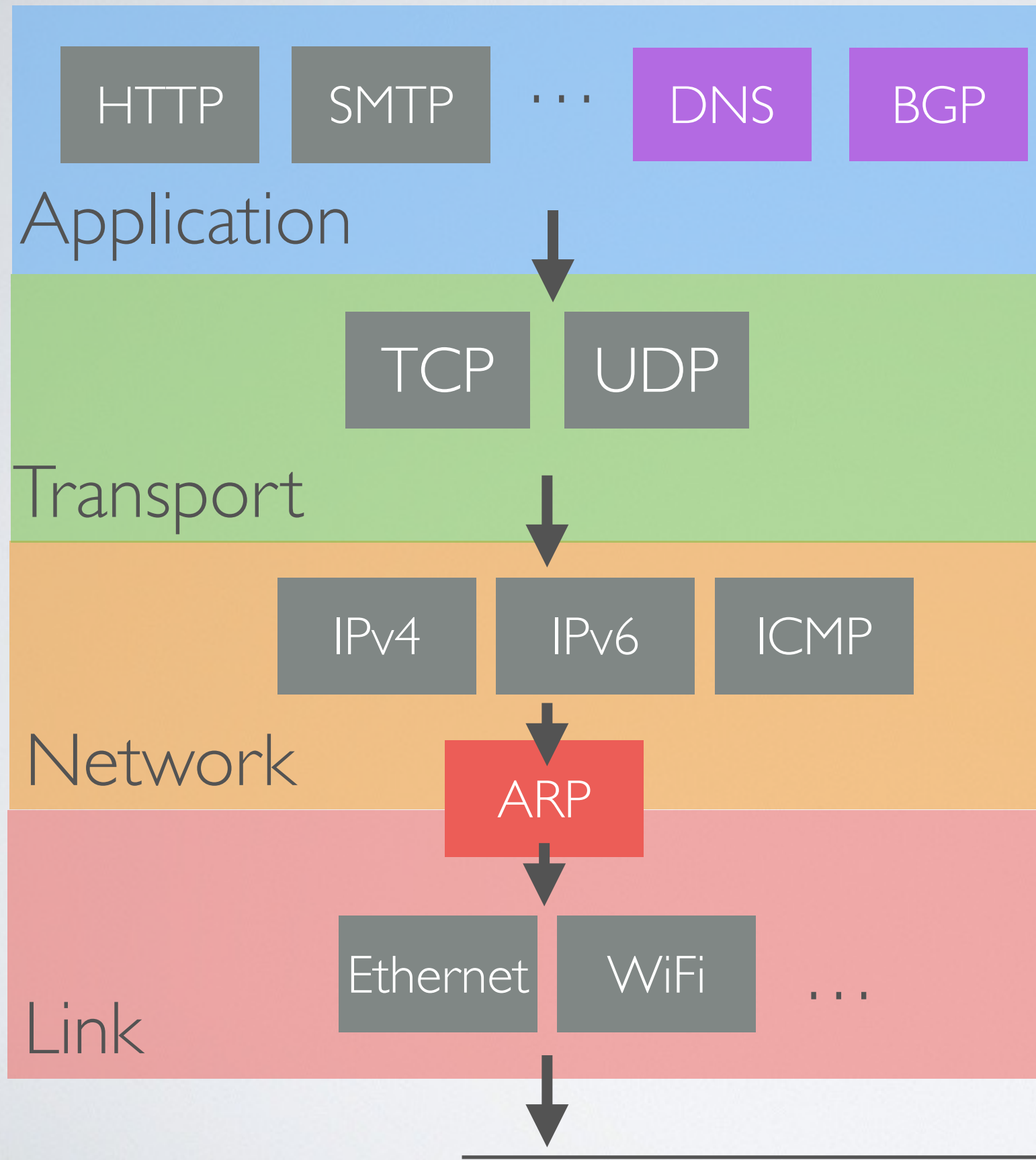


TCP





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