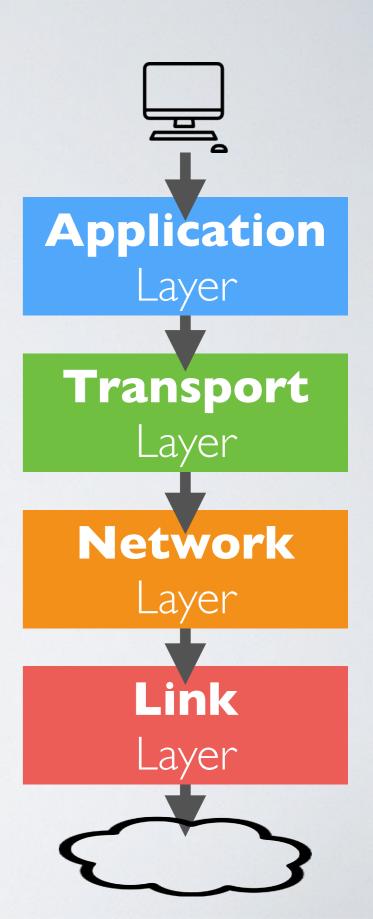
## The Internet Protocol Suite (a.k.a the network stack)

Protocols are built on top of each other as layers (modularity and encapsulation)

- How can two programs send messages to each other?
- How to make sure that messages have been well transmitted?
- How to route messages through the network?
- How to encode messages to go through copper, fiber or air?



## 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