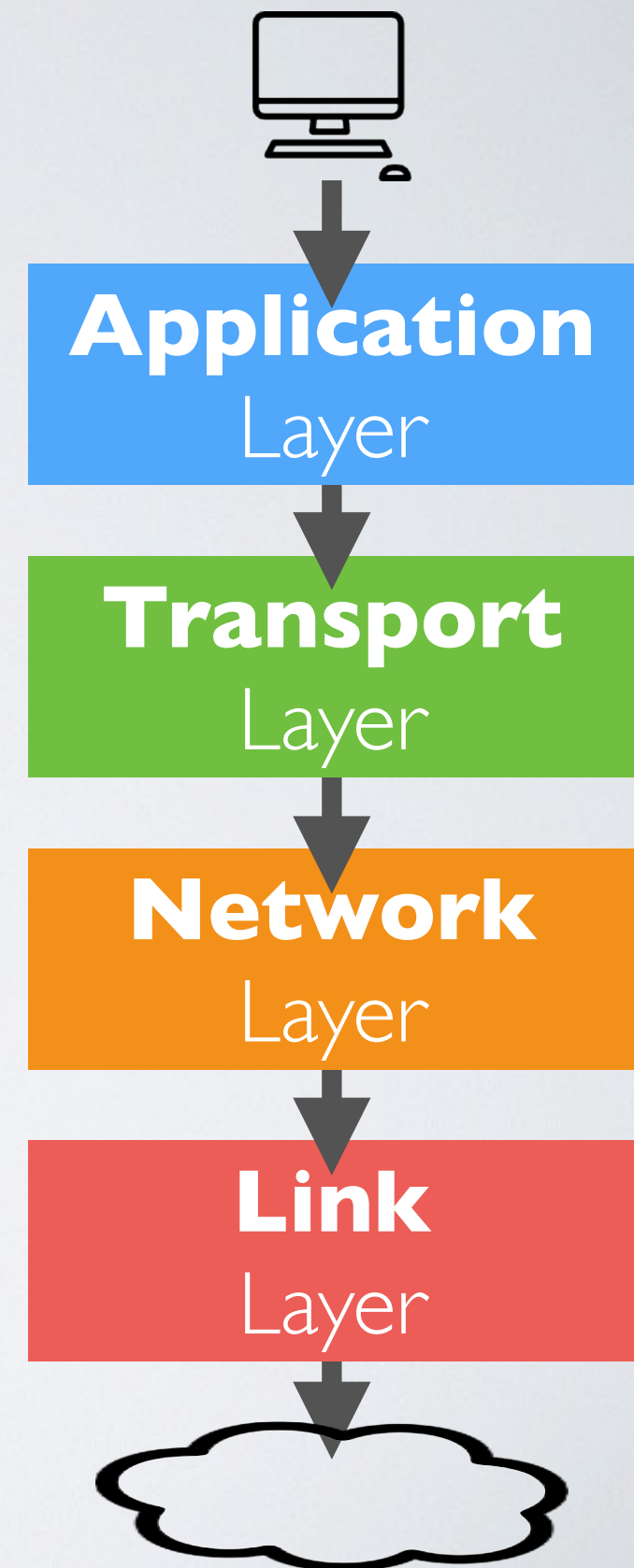


The Internet Protocol Suite (a.k.a the network stack)

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 ?



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