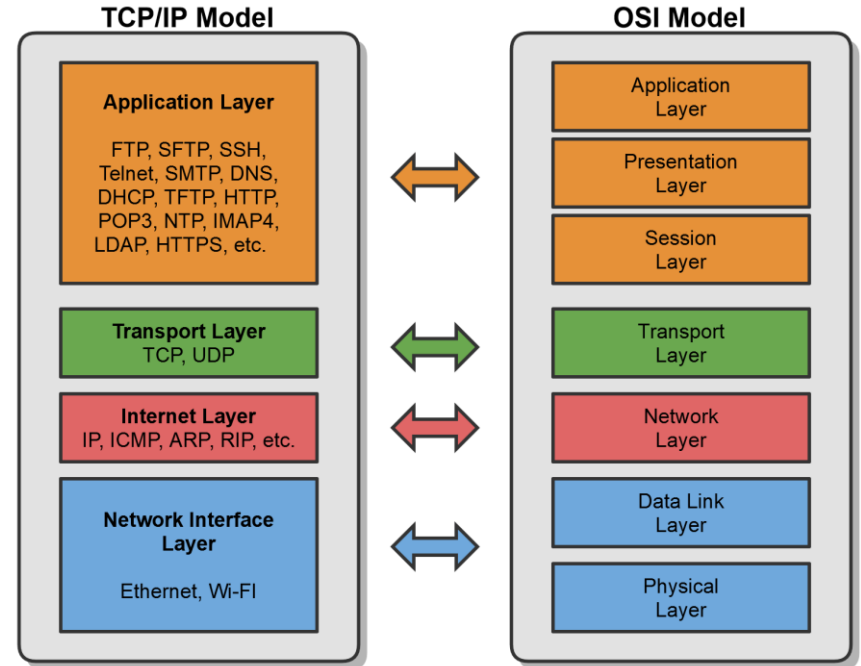


What is TCP/IP?

What is TCP/IP?

- Transmission Control Protocol/Internet Protocol
- Commonly called the **Internet Protocol** suite because it was designed for the Internet, but LANs use it too.
- First Two Protocols Defined in the Suite Were:
 - TCP & IP, hence TCP/IP
- Similar to the OSI Model, but Simpler:
 - OSI is Conceptual
 - TCP/IP was Implemented



TCP/IP Protocols

TCP/IP Protocols

Layer	Protocols
Application	FTP, TFTP, DNS, HTTP(S), TLS/SSL, SSH, POP3, IMAP4, NTP, Telnet, SMTP, SNMP
Transport	TCP, UDP and Ports
Internet	IP Addressing (Routing), ICMP, ARP
Network Interface	Ethernet, Token Ring

These protocols work together to provide communication, management, diagnostics, and troubleshooting for a TCP/IP network.

Network Access Methods

Network Access Methods

CSMA

- Carrier Sense
 - Checks network for communication.
- Multiple Access
 - Multiple devices using the network.
- Collision Detection
 - Wired Network
- Collision Avoidance
 - Wireless Network

Token Ring

- The Token
 - Passed between devices on the network.
 - Only devices with the token can send data.
 - Token prevents network collisions.