

NETWORKING BASICS

OSI Model:

- 1 Physical – cables and signals
- 2 Data Link – MAC, ARP
- 3 Network – IP addressing
- 4 Transport – TCP/UDP
- 5 Session – session control
- 6 Presentation – encryption
- 7 Application – HTTP, FTP

TCP/IP Model:

Application, Transport, Internet, Network Access

DNS:

Converts domain names to IP addresses.

HTTP vs HTTPS:

HTTP is plain text.

HTTPS uses SSL/TLS encryption.

IP Addressing:

IPv4, Private IPs, NAT.