



سيسكو في 6 ساعات



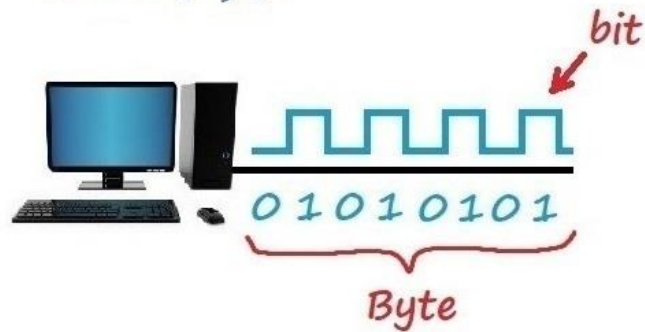
الكورس

يختصر أكثر من مائة ساعة
يركز على احتياجات المهندسين
في سوق العمل

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Second Edition
حقوق النشر والترجمة محفوظة

- Binary Digit

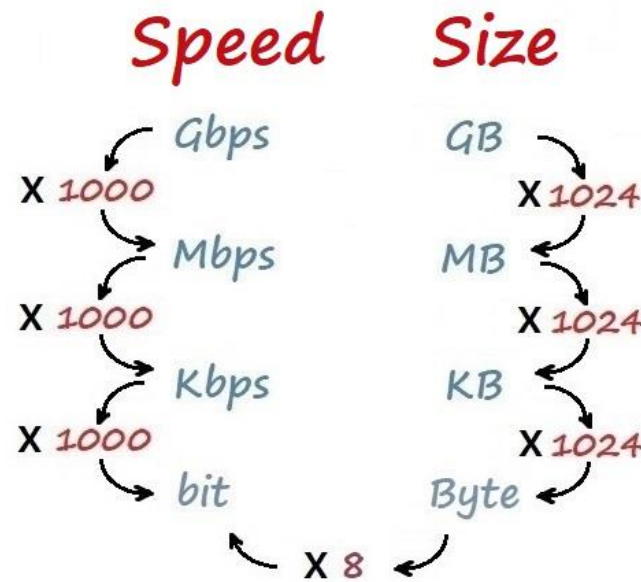
- bit = 0, 1



- Byte = 8 Bit



Size = 8KB
 = 8 x 1024
 = 8,192 Byte



0	00000000
1	00000001
2	00000010
3	00000011
4	00000100
	0
	0
%	00001000
@	00010000
=	00010001
	0
	0
A	01000001
B	01000010

- Binary System

128 64 32 16 8 4 2 1

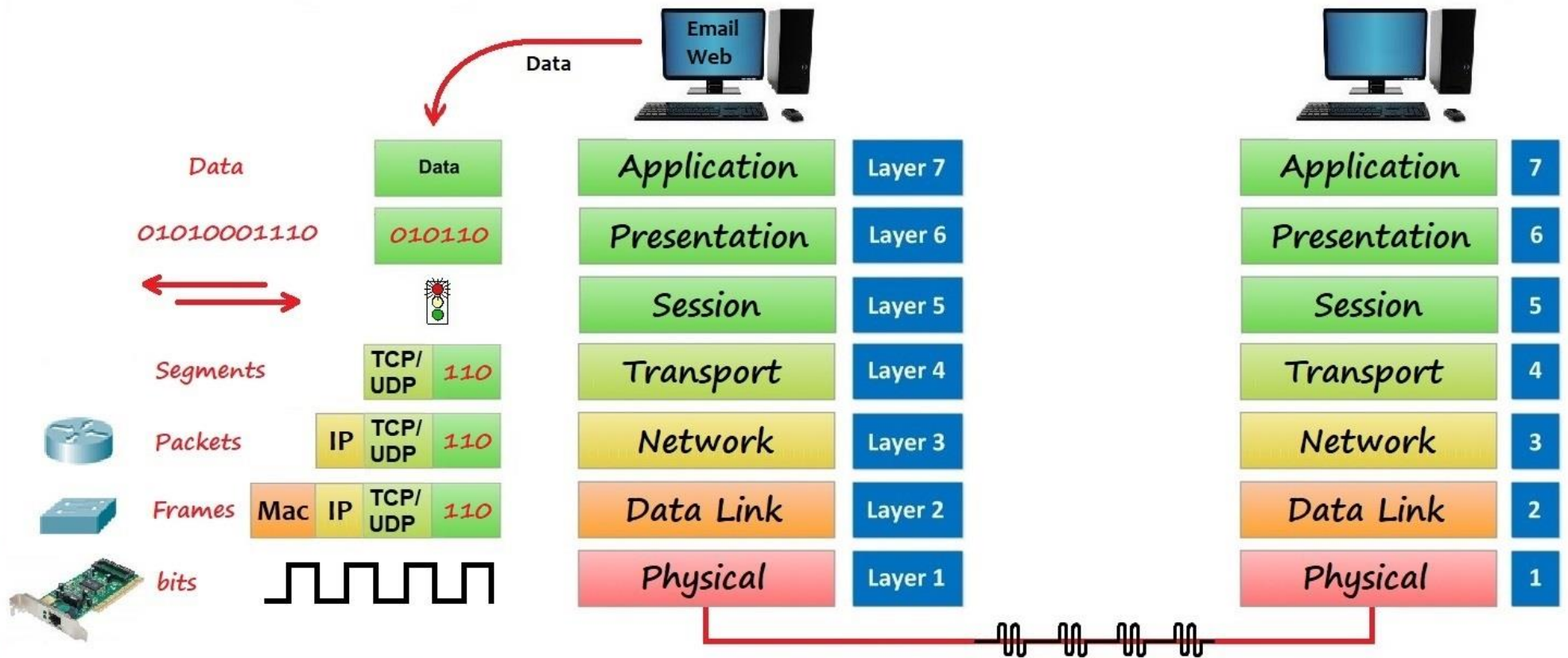
- 33 to Binary

- 255 to Binary

- 0100001 to decimal

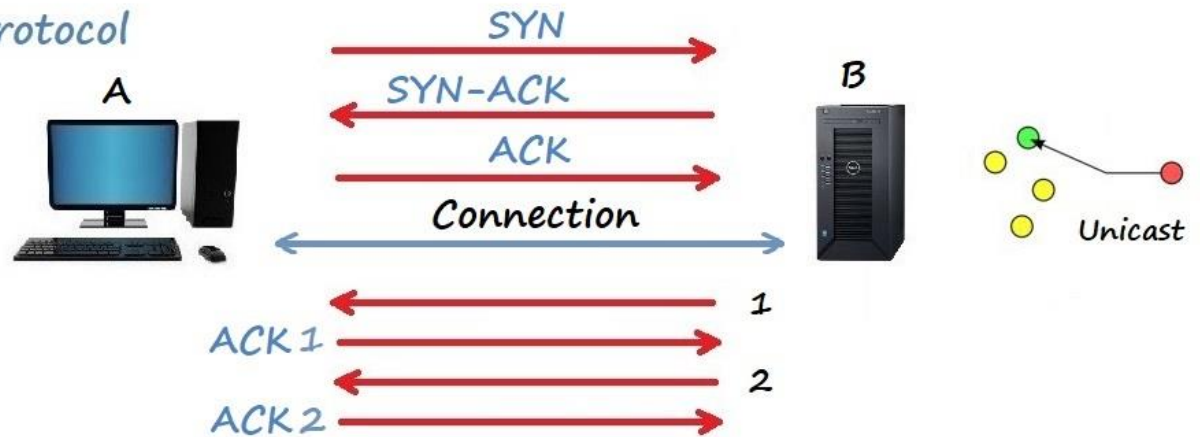
- 1000010 to decimal

- OSI (Open System Interconnect)



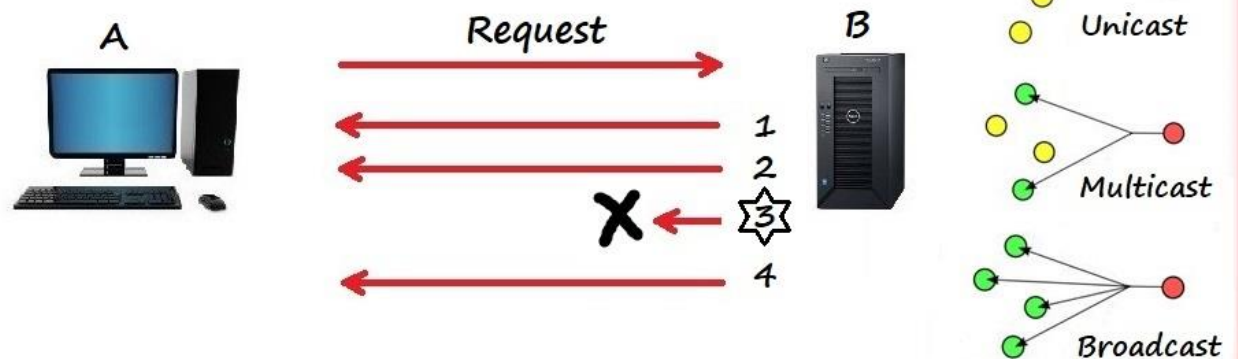
- TCP Transmission Control Protocol

Three Way Handshak Connection
 Slower (Error Checking)
 Used with : Web , Email



- UDP User Datagram Protocol

Request orders
 Faster (No Error Checking)
 Used with : Video, Music, Games,
 DHCP, DNS ,VOIP

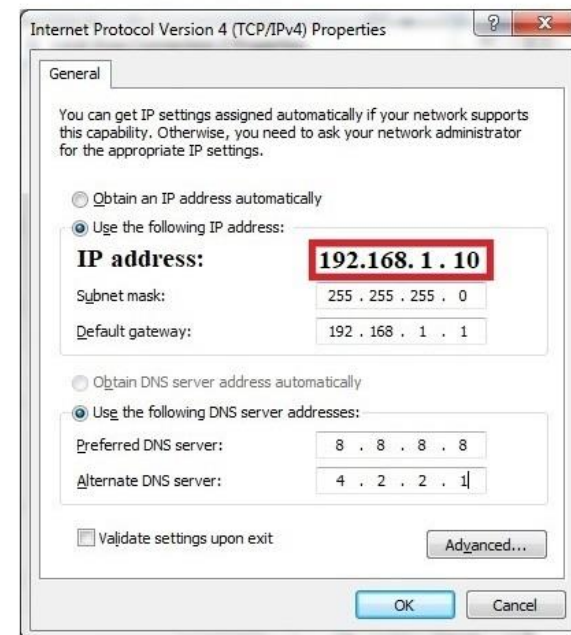
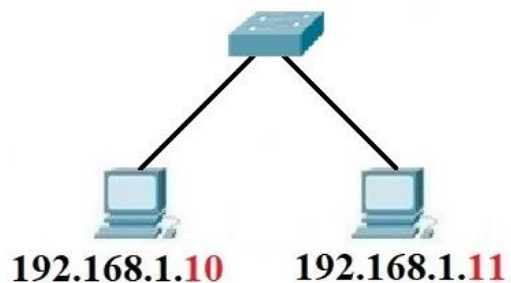


- IP (internet Protocol)

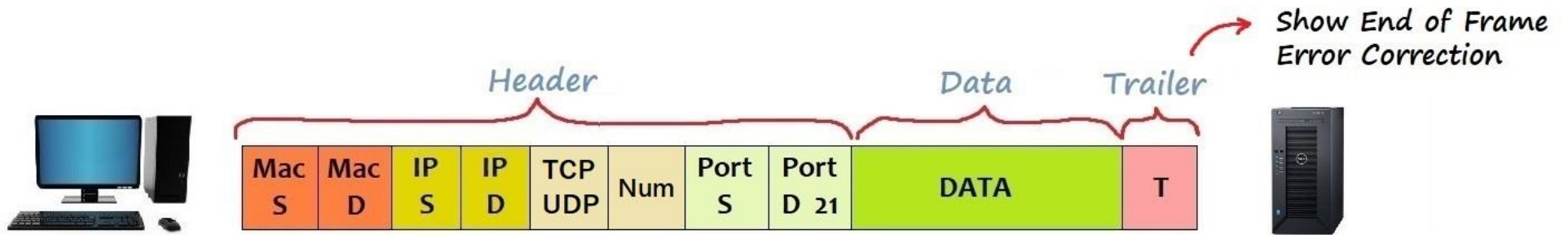
- IANA (Internet Assigned Number Authority)

- 4 Number (4 octet), separated by dot
- Each Number from 0-255

192 • 168 • 1 • 10
↓ ↓ ↓ ↓
11000000 • 10101000 • 00000001 • 00001010
└───┬───┘
One byte



- Frame



- 21 Ftp
 - 23 Telnet
 - 25 SMTP
 - 80 Http
 - 110 PoP3
 - 114 IRC
 - 520 Rip
 - xxxx App
- Known Port 0 - 1023
- Registration Port 1024 - 65535

- Frame

