## OSI MODEL

	Application	
Application	Presentation	
	Session	
Transport	Transport	
Internet	Network	
	Data Link	
Link	Physical	

# TCP/IP MODEL (MODERN)

Application	HTTP, SMTP, etc	Messages	N / A
Transport	TCP / UDP	Segments	Port Numbers
Network	IP	Packet / Diagram	IP Addresses
Data Link	Ethernet, Wi-Fi	Frames	MAC Addresses
Physical	N/A	Bits	N / A

**NETWORK CLASSES** 

Classes	Left-most Bit	Starting IP A	Starting IP Address		Last IP Address	
A	0xxx	0.0.0.	0.0.0		127.255.255	
В	10xx	128.0.0	128.0.0.0		191.255.255	
C	110x	192.0.0	.0	22	3.255.255.255	
D	1110	224.0.0	224.0.0.0		239.255.255	
E	1111	240.0.0	240.0.0		255.255.255	
Classes	Byte 1	Byte 2	Byte	3	Byte 4	
A	Network ID  Host ID					
В	Network ID		Hos	Host ID		
C	Network ID		Host ID			
D	Multicast Traffic					

PRIVATE IP ADDRESSES

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Classes	Starting Private IP Address	Last Private IP Address		
A	10.0.0.0	10.255.255		
В	172.16.0.0	172.31.255.255		
C	192.168.0.0	192.168.255.255		

Reserved

TCP 3 WAY HANDSHAKE



