OSI MODEL

	Application	
Application	Presentation	
	Session	
Transport	Transport	
Internet	Network	
Link	Data 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		191.255.255.255	
C	110x	192.0.0	192.0.0.0		223.255.255	
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		Host ID			
C	Network ID			Host ID		
D	Multicast Traffic					

PRIVATE IP ADDRESSES

Ε

	Last Private IP Address		
A 10.0.0.0 10.255.255.2	255		
B 172.16.0.0 172.31.255.2	255		
C 192.168.0.0 192.168.255.	.255		

Reserved

TCP 3 WAY HANDSHAKE



