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

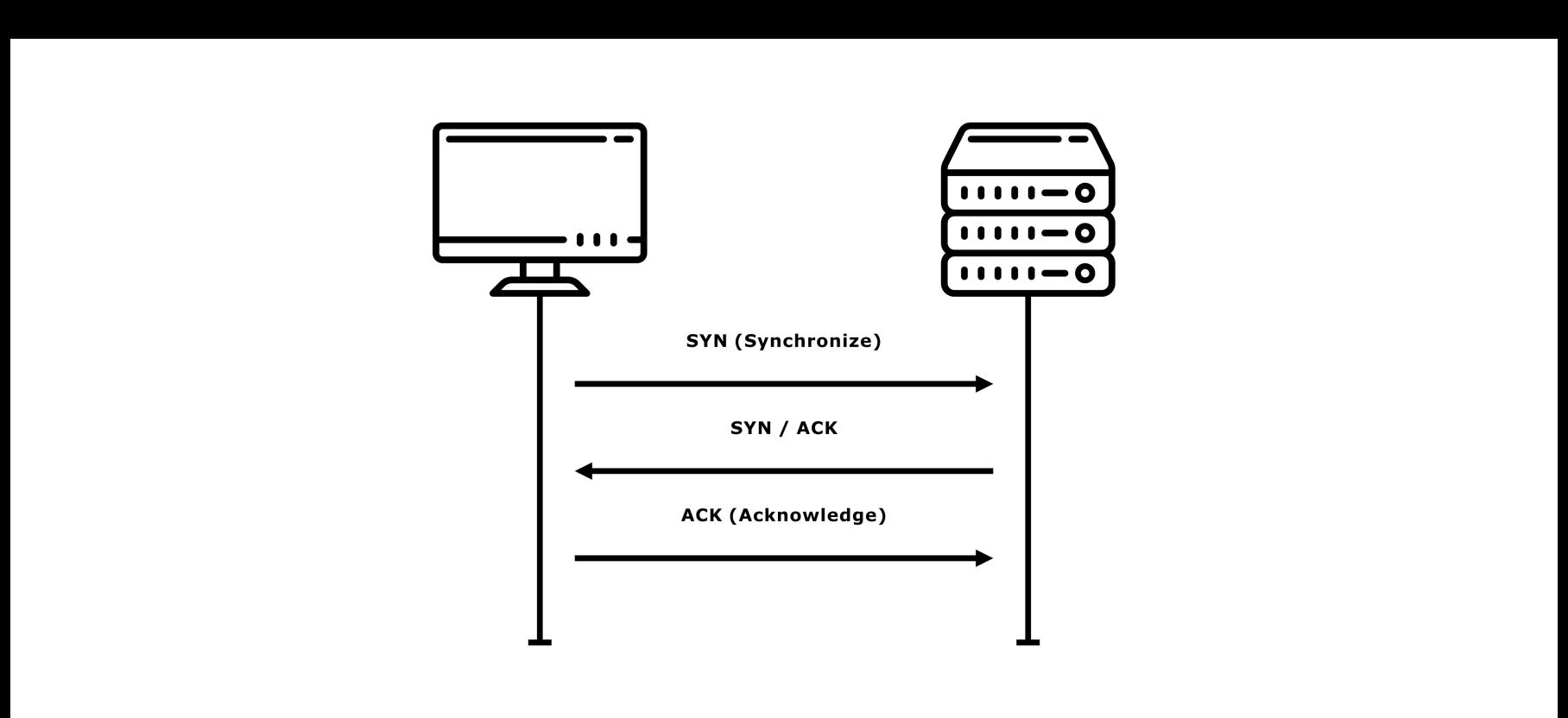
Classes	Left-most Bit	Starting IP Address		Last IP Address		
A	0xxx	0.0.0		127.255.255		
В	10xx	128.0.0.0		191	255.255.255	
C	110x	192.0.0.0		223	3.255.255.255	
D	1110	224.0.0.0		239	239.255.255	
E	1111	240.0.0		255	255.255.255	
Classes	Byte 1	Byte 2	Byt	te 3	Byte 4	
A	Network ID	Host ID				
В	Network ID		Host ID			
C	Network ID			Host ID		
D	Multicast Traffic					

PRIVATE IP ADDRESSES

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



DHCP OVERVIEW

