

TCP/IP MODEL (RFC1122)

Application	
Transport	
Internet	
Link	

OSI MODEL

Application
Presentation
Session
Transport
Network
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

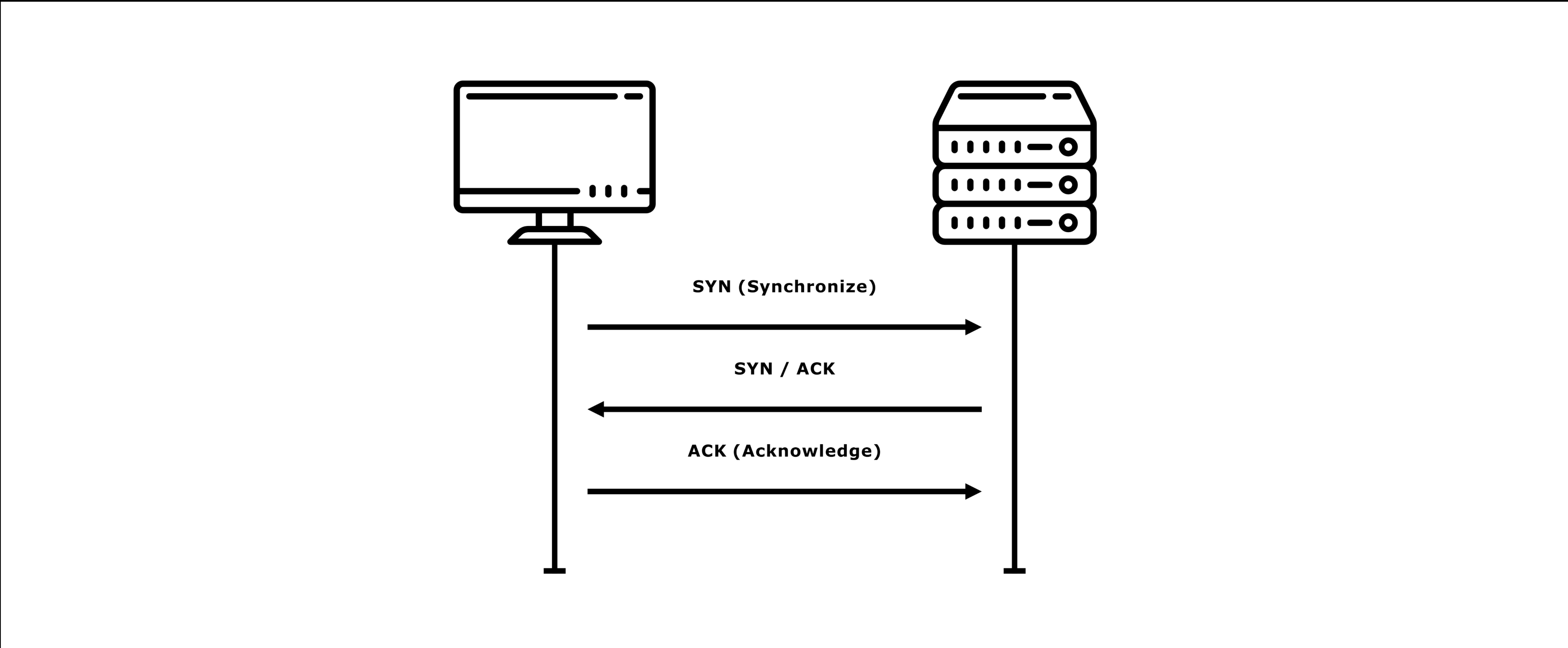
Classes	Left-most Bit	Starting IP Address	Last IP Address
A	0xxx	0.0.0.0	127.255.255.255
B	10xx	128.0.0.0	191.255.255.255
C	110x	192.0.0.0	223.255.255.255
D	1110	224.0.0.0	239.255.255.255
E	1111	240.0.0.0	255.255.255.255

Classes	Byte 1	Byte 2	Byte 3	Byte 4
A	Network ID	Host ID		
B	Network ID		Host ID	
C	Network ID			Host ID
D	Multicast Traffic			
E	Reserved			

PRIVATE IP ADDRESSES

Classes	Starting Private IP Address	Last Private IP Address
A	10.0.0.0	10.255.255.255
B	172.16.0.0	172.31.255.255
C	192.168.0.0	192.168.255.255

TCP 3 WAY HANDSHAKE



DHCP OVERVIEW

