

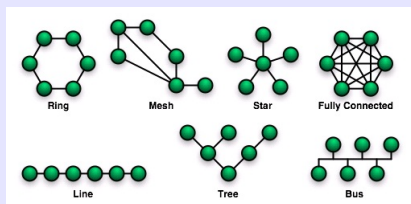
Net/Host ID by Class

A	0nnnnnnn.HHHHHHHH.HHHHHHHH.HHH HHHHH
B	10nnnnnn.nnnnnnnn.HHHHHHHH.HHH HHHHH
C	110nnnnn.nnnnnnnn.nnnnnnnn.HHH HHHHH
D	1110XXXX.XXXXXXXXXX.XXXXXXXXXX.XXX XXXXX
E	1111XXXX.XXXXXXXXXX.XXXXXXXXXX.XXX XXXXX

Subnetting

	Binary form	Dot-decimal notation
IP address	11000000.10101000.000 00101.1000010	192.168.5 .130
Subnet mask	11111111.11111111.111 11111.11000000	255.255.2 55.192
Network prefix	11000000.10101000.000 00101.10000000	192.168.5 .128
Host part	00000000.00000000.000 00000.0000010	0.0.0.2

Network Topology



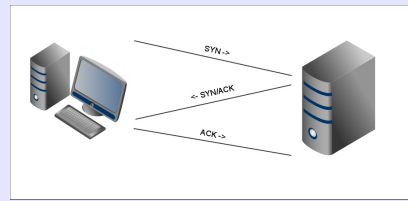
Examples of different network topologies.

Cheatographer



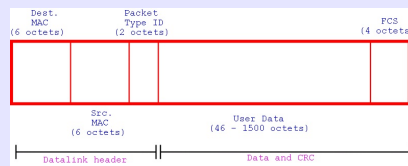
Hubert (monsieur_h)
cheatography.com/monsieur-h/

Three way handshake



Illustrates the three way handshake used for TCP connections.

IP Frame



TCP/IP - Class ranges

Class	Range	Private
Class A	0.0.0-127.255.255	10.0.0/8 5.255
Class B	128.0.0-191.255.255	172.16.0. 0/12
Class C	192.0.0-223.255.255	192.168.0. .0/16
Class D (multicast)	224.0.0-239.255.255	nope
Class E (reserved)	240.0.0-255.255.255	nope

Cheat Sheet

This cheat sheet was published on 5th December, 2011 and was last updated on 5th December, 2011.

IEEE 802

802.3 - Ethernet
802.11 a/b/g/n - Wifi
802.8 - Fiber Optic
802.15.1 - Bluetooth
802.16 - WiMAX

OSI - Protocol - Device

Layer	Protocol	Device
7 Application	FTP,HTTP,DNS,SSH,DHCP...	
6 Presentation	SMB,ASCII,AFP	Router
5 Session	TCP,UDP	Switch
4 Transport	ARP,IP,ICMP	Hub
3 Network	HDLC,PPP	
2 Link	ARP,Ethernet,Token Ring, IrDA	
1 Physical	ADSL, LDSL, USB	

DHCP

Client Server

DHCP Discover -->

<-- DHCP Offer

DHCP Request -->

<-- DHCP Acknowledgement

Sponsor

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