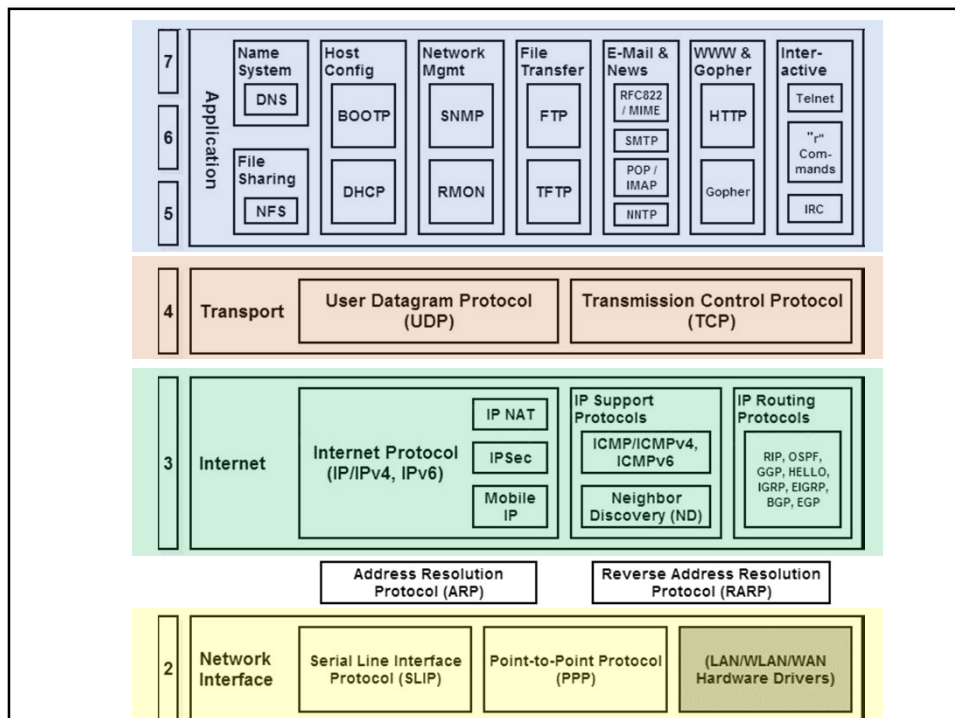
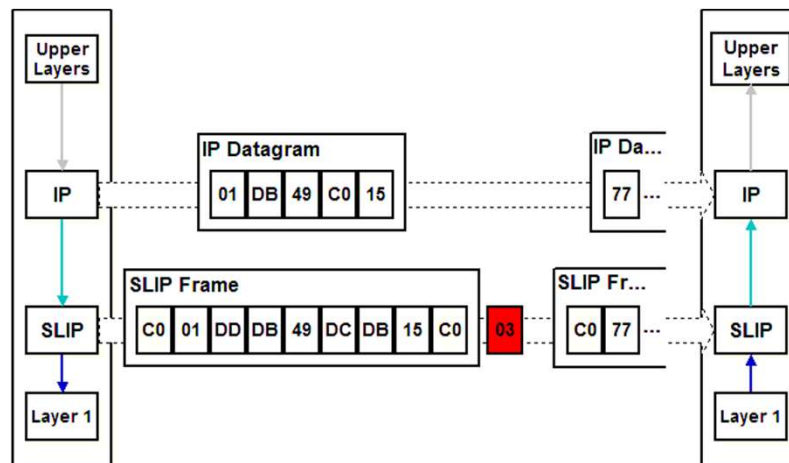


Service & Protocol

Aj.Drusawin Vongpramate
Information Technology
Science, BRU

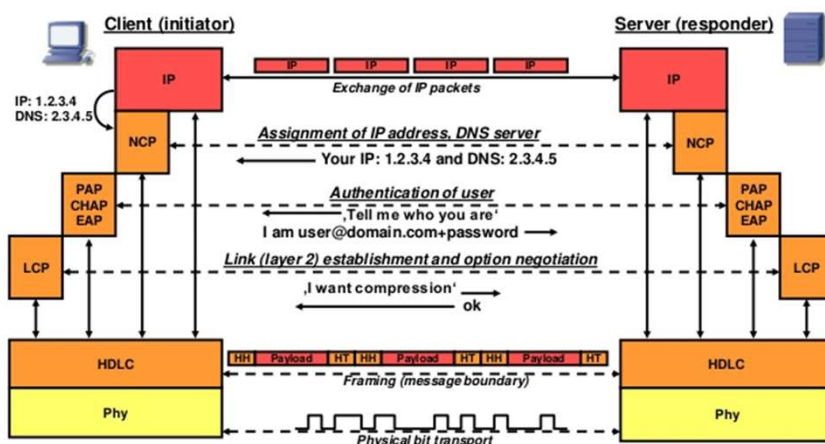


Layer 2 : Network Interface



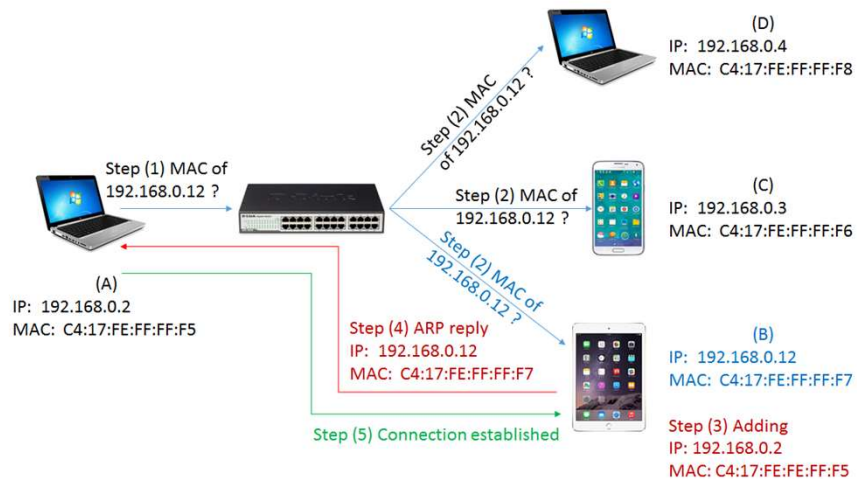
SLIP : Serial Line Internet Protocol

Layer 2 : Network Interface

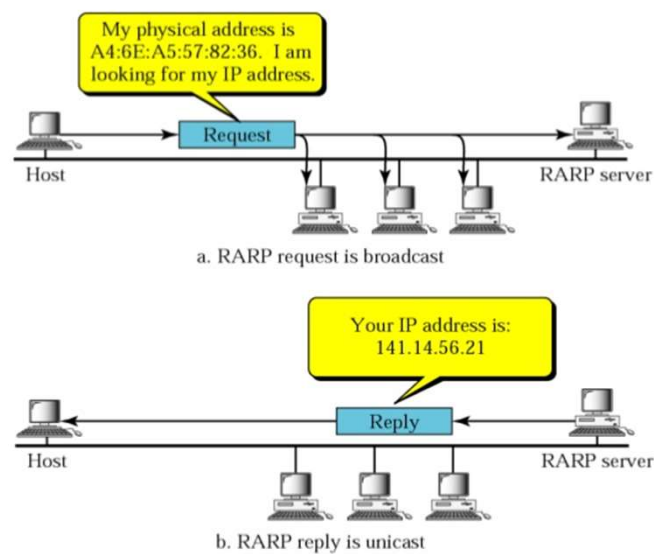


PPP : Point to Point Protocol

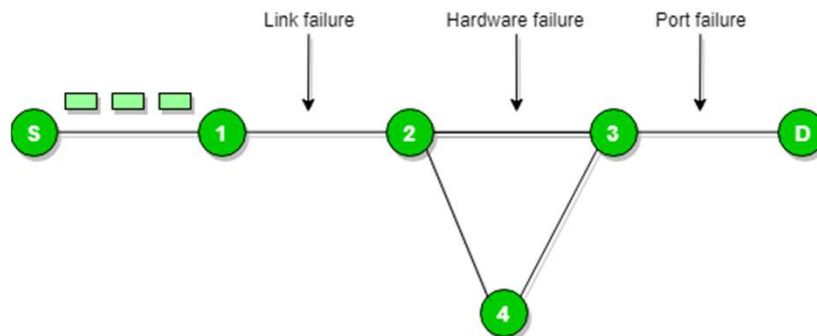
Address Resolution Protocol (ARP)



R (Reverse) ARP

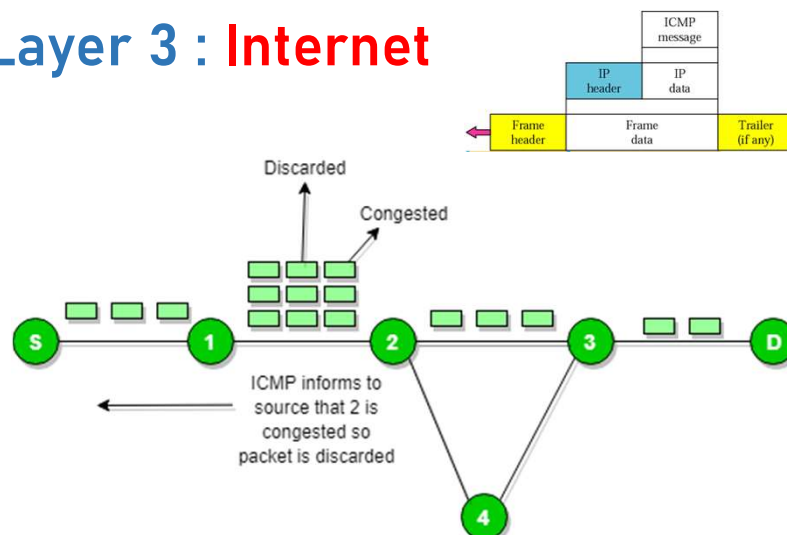


Layer 3 : Internet



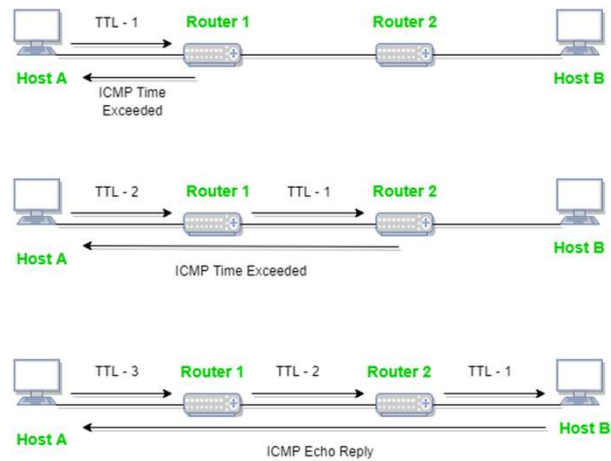
ICMP : Internet Control Message Protocol

Layer 3 : Internet



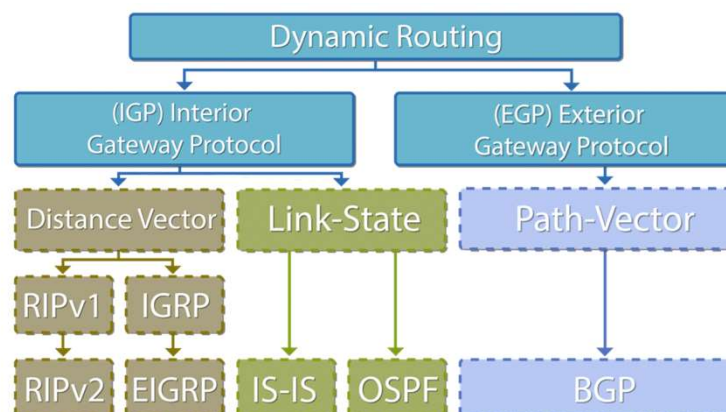
ICMP : Internet Control Message Protocol

Layer 3 : Internet



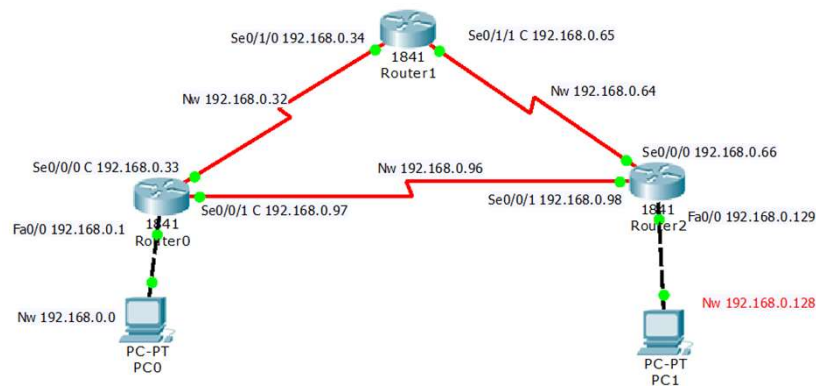
ICMP : Internet Control Message Protocol

Layer 3 : Internet



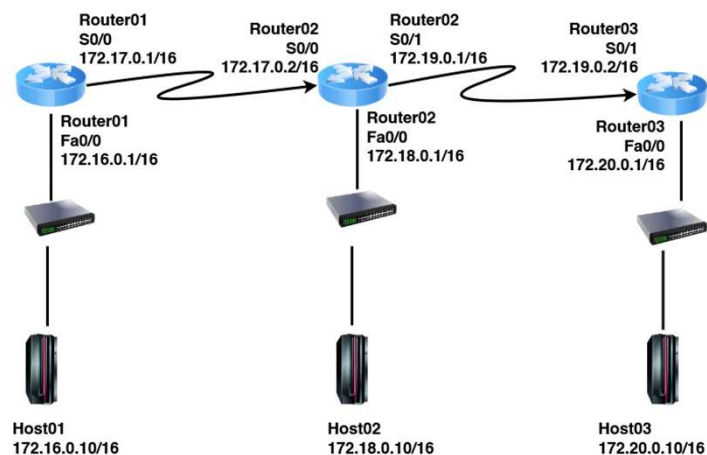
Types of Routing Protocols

Layer 3 : Internet



RIPv2 : Routing Information Protocol

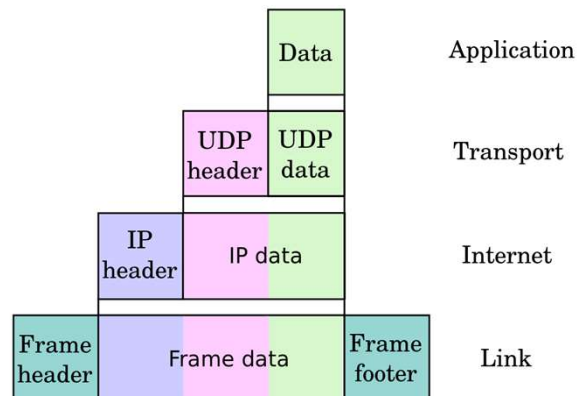
Layer 3 : Internet



IGRP : Interior Gateway Routing Protocol

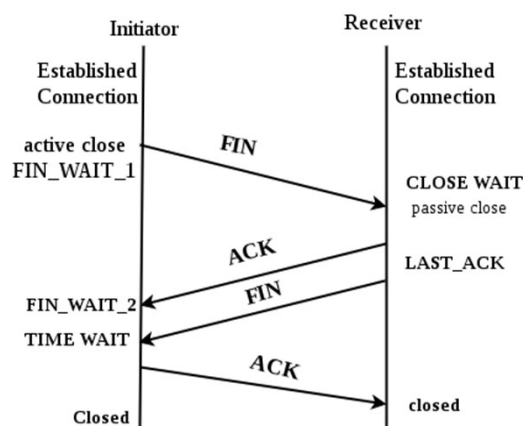
Layer 4 : Transport

- User Datagram Protocol : **UDP**

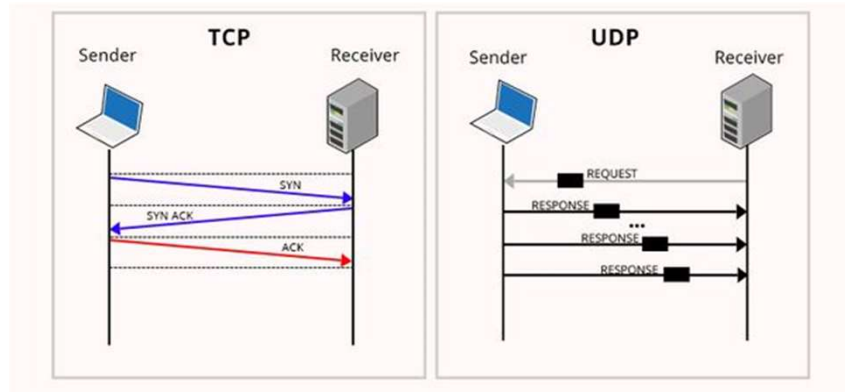


Layer 4 : Transport

- Transmission Control Protocol : **TCP**



TCP vs UDP



TCP vs UDP

TCP Segment Header Format									
Bit #	0	7	8	15	16	23	24	31	
0	Source Port				Destination Port				
32	Sequence Number								
64	Acknowledgment Number								
96	Data Offset	Res	Flags			Window Size			
128	Header and Data Checksum				Urgent Pointer				
160...	Options								

UDP Datagram Header Format									
Bit #	0	7	8	15	16	23	24	31	
0	Source Port				Destination Port				
32	Length				Header and Data Checksum				

Q & A