CS & IT ENGINEERING





Lecture No-2

By- Ankit Doyla Sir



TOPICS TO BE COVERED

IPv4 Header

IPv4 Header



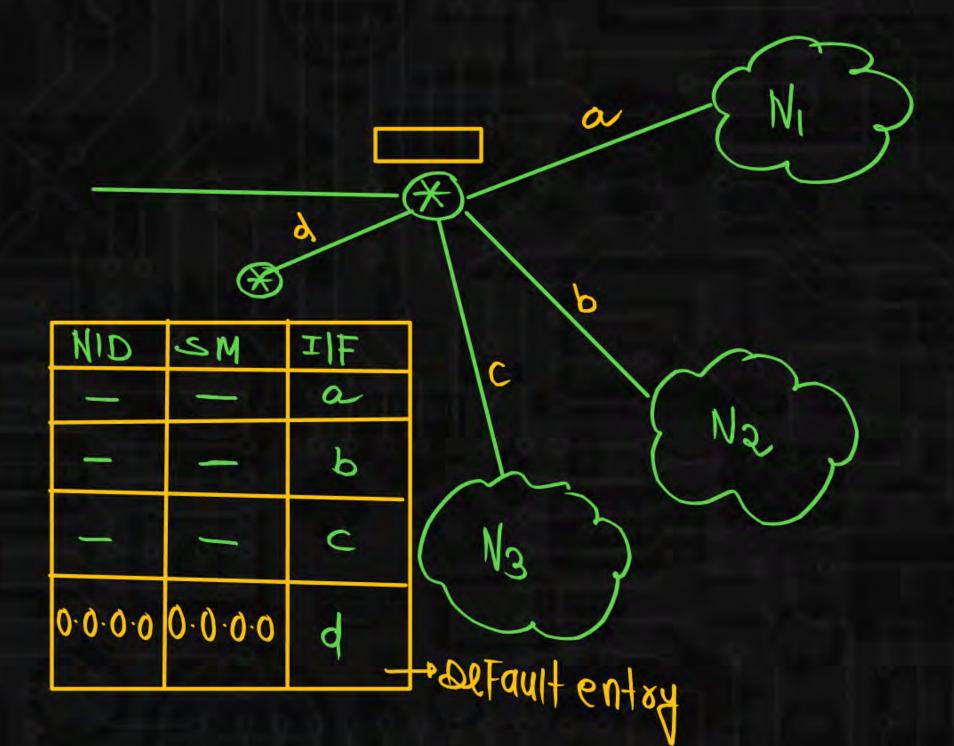
VER ✓	HL✓	Services	Total Length 🗸
Identification No.		Flags	Fragment offset V
Time to Live		Protocol	Header checksum
		Source IP Ac	ddress (3abt)
	De	stination IP	Address (३१५६)
		Option	1

TTL:=8bit Range o to 28-1 +oto 255



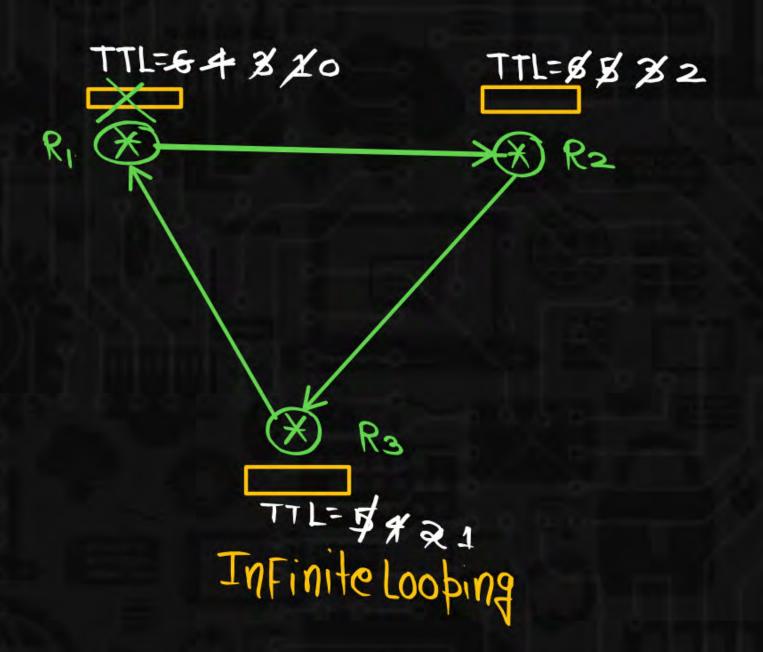
- 1. TTL is used to avoid infinite looping
- TTL field is used to control the maximum no. of hops visited by datagram.
- 3. When a source host sends a datagram, it stores a number in this field. Each router that process the datagram decrements this number by one. If TTL field reaches zero before the datagram arrives at its destination, then the datagram is discarded and an ICMP message is sent back to sender.

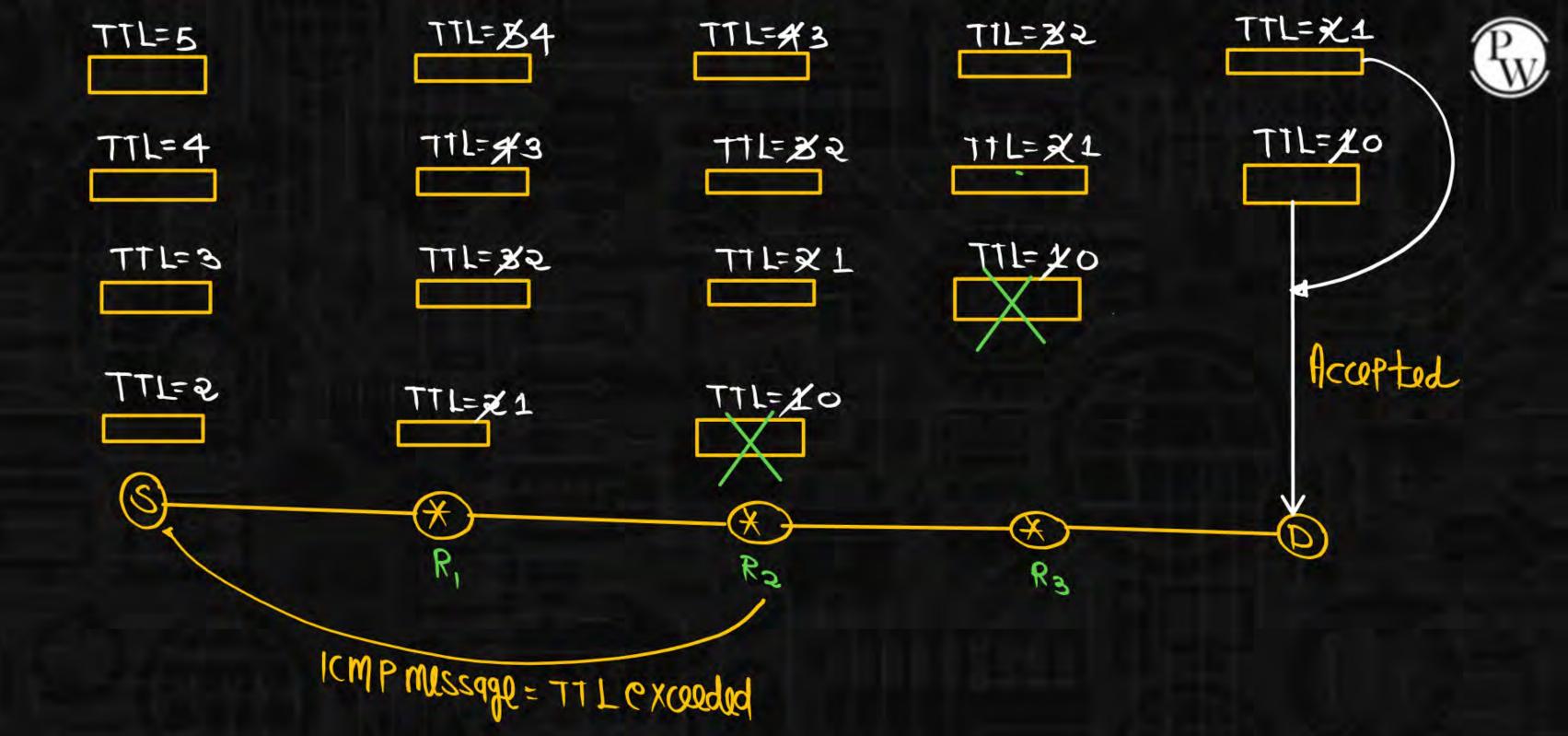




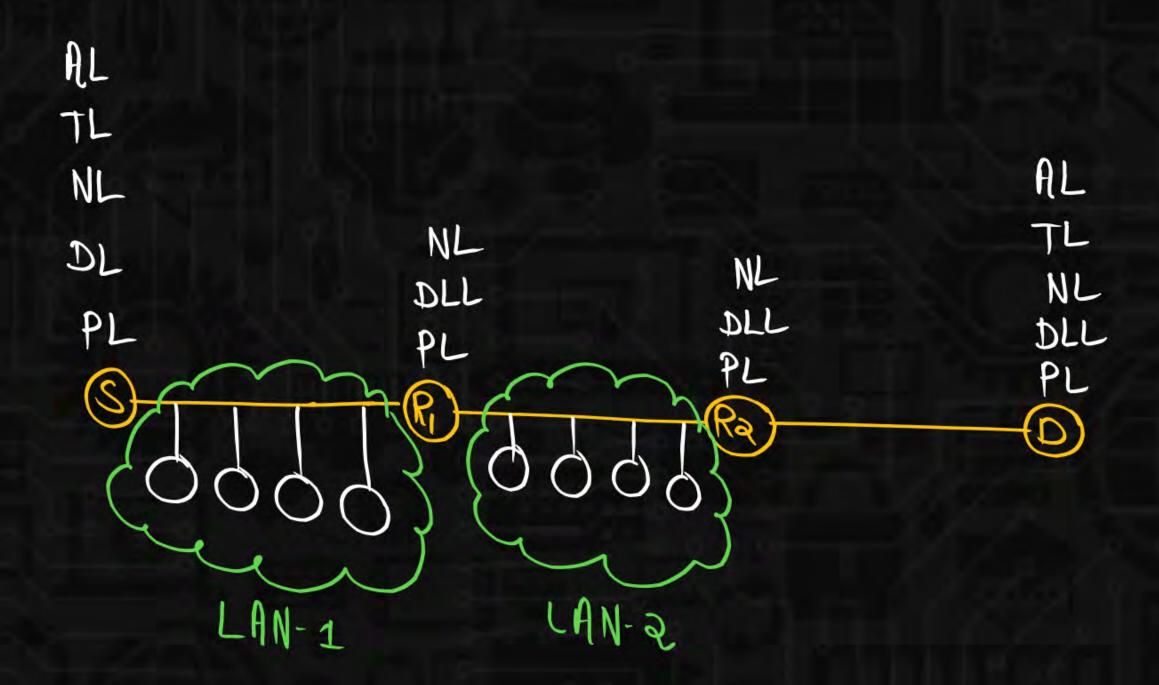
TPAdd AND 0.0.0.0











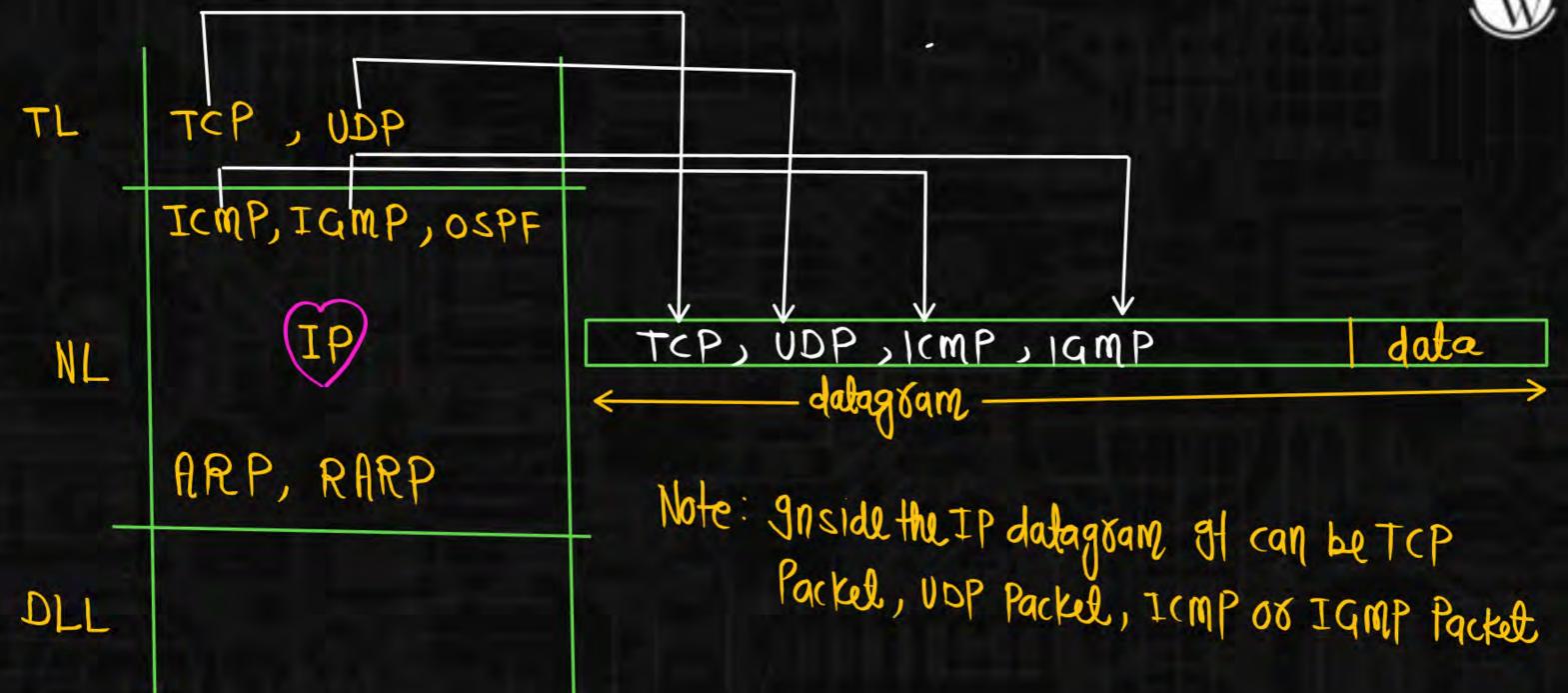
Protocol: (8bit)



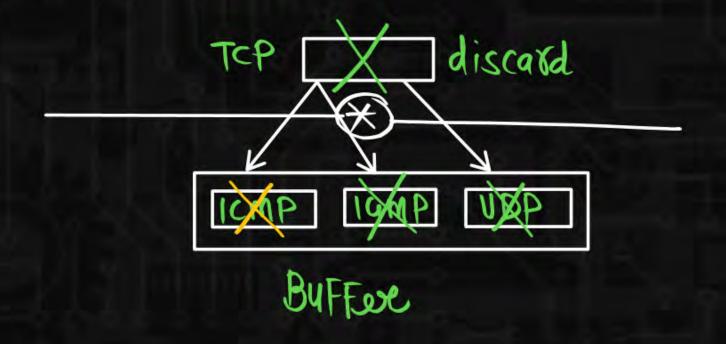
- This 8 bit field tell us which protocol is encapsulated in the IP packet.
- At the time of traffic, some packets must be discarded. In this case it will be advantageous to know which protocol data it contains.
- 3. The order in which router eliminate the datagram from buffer is-

ICMP>IGMP>UDP>TCP









OSPF →(89)



