Glossary

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ISP	Internet Service Provider	
IXP	Internet Exchange Point	
RFC	Request for Comments	
FTP	File Transfer Protocol	
HTTP	HyperText Transfer Protocol	
SMTP	Simple Mail Transfer Protocol	
TCP	Transmission Control Protocol	
UDP	User Datagram Protocol	
RTT	Round-Trip Time	
TLD	Top-Level Domain	.com, .edu, .sg,
TTL	Time-To-Live	1. Number of hops an IP datagram can go2. The time to expiry in DNS cache
RDT	Reliable Data Transfer (Protocol)	
UDT	Unreliable Data Transfer	
ACK	Acknowledgement	
NAK	Negative Acknowledgement	
FSM	Finite State Machine	
MSS	Maximum Segment Size	MTU - (minus) Header Length
MTU	Maximum Transfer Unit	Link-level capacity MTU for an ethernet frame is the maximum size of the data field.
MSL	Maximum Segment Lifetime	The time a transport layer segment can be in the network
SDN	Software-Defined Networking	SDN attempts to centralize network intelligence in one network component by disassociating the forwarding process of network packets (data plane) from the routing process (control plane).
CIDR	Classless InterDomain Routing	CIDR allows subnet masks of variable length.
ICANN	Internet Corporation for Assigned Names and Numbers	Organisation that distributes IP addresses to ISPs.
DHCP	Dynamic Host Configuration Protocol	Automatically assigns IP addresses and other communication parameters to devices connected to the network using a client–server architecture.
GBN	Go-Back N	
SR	Selective Repeat	
RIR	Regional Internet Registries	Nonprofit corporations that

		administer and issue Internet Protocol (IP) address space and Autonomous System (AS) numbers within a defined region.
sp	Space	
cr	Carriage Return	
If	Line Feed	
URI	Uniform Resource Identifier	E.g., ISBN, passport number
URL	Uniform Resource Locator	The path to a resource
AF	Address Family	
rwnd	receive_window	
AS	Autonomous Systems	An Autonomous System (AS) is a set of Internet routable IP prefixes belonging to a network or a collection of networks that are all managed, controlled and supervised by a single entity or organization.
WAN	Wide Area Network	
LAN	Local Area Network	
NAT	Network Address Translation	
BGP	Border Gate Protocol	
RIP	Routing Information Protocol	
OSPF	Open Shortest Path First	
IS-IS	Intermediate System - Intermediate System	The IS-IS protocol is one of a family of IP Routing protocols, and is an Interior Gateway Protocol (IGP) for the Internet, used to distribute IP routing information throughout a single Autonomous System (AS) in an IP network.
ICMP	Internet Control Message Protocol	
NIC	Network Interface Card Network Interface Controller	
EDC	Error Detection and Correction	
CRC	Cyclic Redundancy Check	
PPP	Point-to-Point Protocol	
SLIP	Serial Line Internet Protocol	
TDMA	Time Division Multiple Access	
FDMA	Frequency Division Multiple Access	
CSMA	Carrier-Sense Multiple Access	
CSMA/ CD	Carrier-Sense Multiple Access/Collision Detection	
MAC	Media Access Control Message Authentication Code	
ROM	Read-Only Memory	
ARP	Address Resolution Protocol	

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PnP	Plug-and-Play	In computing, a plug and play (PnP) device or computer bus is one with a specification that facilitates the recognition of a hardware component in a system without the need for physical device configuration or user intervention in resolving resource conflicts.
RSA	Rivest-Shamir-Adleman	
CA	Certification Authority	
DoS	Denial of Service	
DDoS	Distributed Denial of Service	
ACL	Access Control List	
OTT	Over-The-Top	
AWS	Amazon Web Services	
CDN	Content Distribution Network	
CBR	Constant Bit Rate	
VBR	Variable Bit Rate	
ADC	Analog-to-Digital Converter	
DAC	Digital-to-Analog Converter	
RTP	Realtime Transport Protocol	
RTSP	Realtime Transport Streaming Protocol	
VoIP	Voice over IP	
EWMA	Exponentially Weighed Moving Average	
FEC	Forward Error Correction	
PCM	Pulse-Code Modularization	
GSM	Global System for Mobile Communication	
DASH	Dynamic Adaptive Streaming over HTTP	
VoD	Video on Demand	
ABR	Adaptive BitRate Algorithm	
MPD	Media Presentation Description	

Application layer: Message

Transport layer: TCP segment, UDP datagram

Network layer: IP datagram Data link layer: frame

Physical layer: Has no packets, bits and Bytes.