

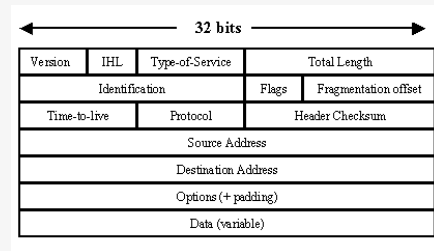
Layers of the OSI Model

- Physical Layer (Layer 1)
- Data Link Layer (Layer 2)
- Network Layer (Layer 3)**
- Transport Layer (Layer 4)
- Session Layer (Layer 5)
- Presentation Layer (Layer 6)
- Application Layer (Layer 7)

Network Layer Functionality

Internetworking	Establishes logical connections between nodes in the same or different networks
Fragmentation	Breaks down packets into the smallest individual data units that transit across various networks
Packetizing	Encapsulates the packets received from upper layer protocol and makes new packets
Routing	Moves data from one device to another device
Traffic management	Manages traffic problems such as switching, routing, and controls the congestion of data packets

Anatomy of a Data Packet



In Network Layer, the Protocol Data Unit (PDU) is a Packet.

Network Layer Protocols

IP	Internet Protocol
ICMP	Internet Control Message Protocol
ARP	Address Resolution Protocol
DDP	Datagram Delivery Protocol
IGMP	Internet Group Management Protocol

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