

NETWORKED GAME

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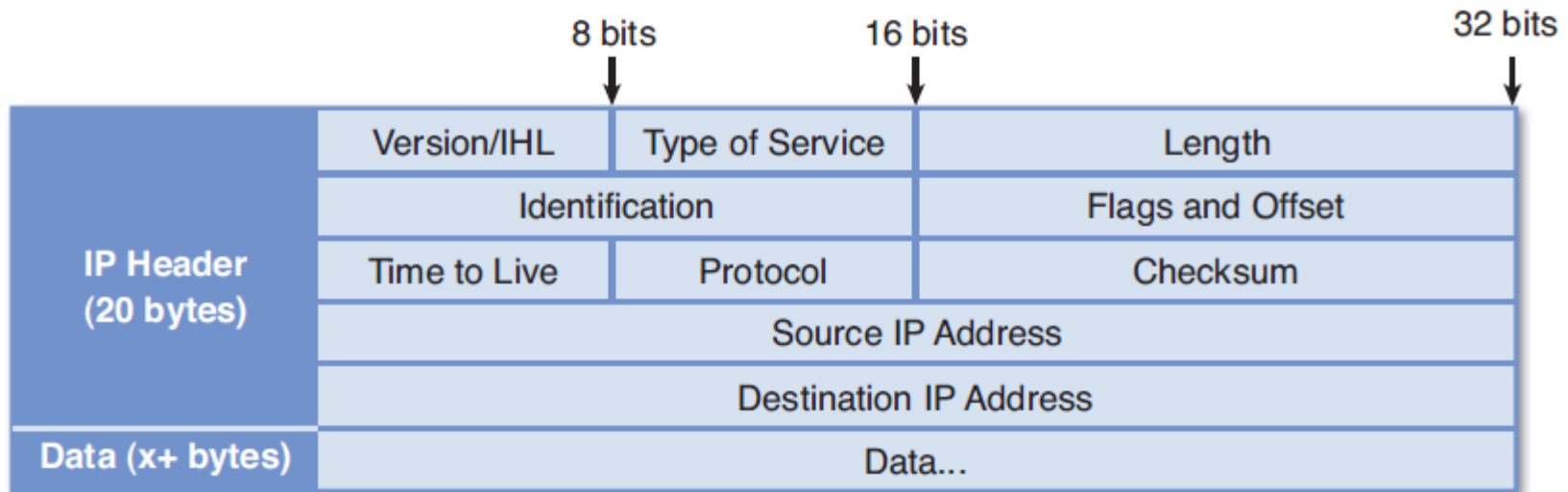
Outline

- Protocols
- Topology
- Cheating

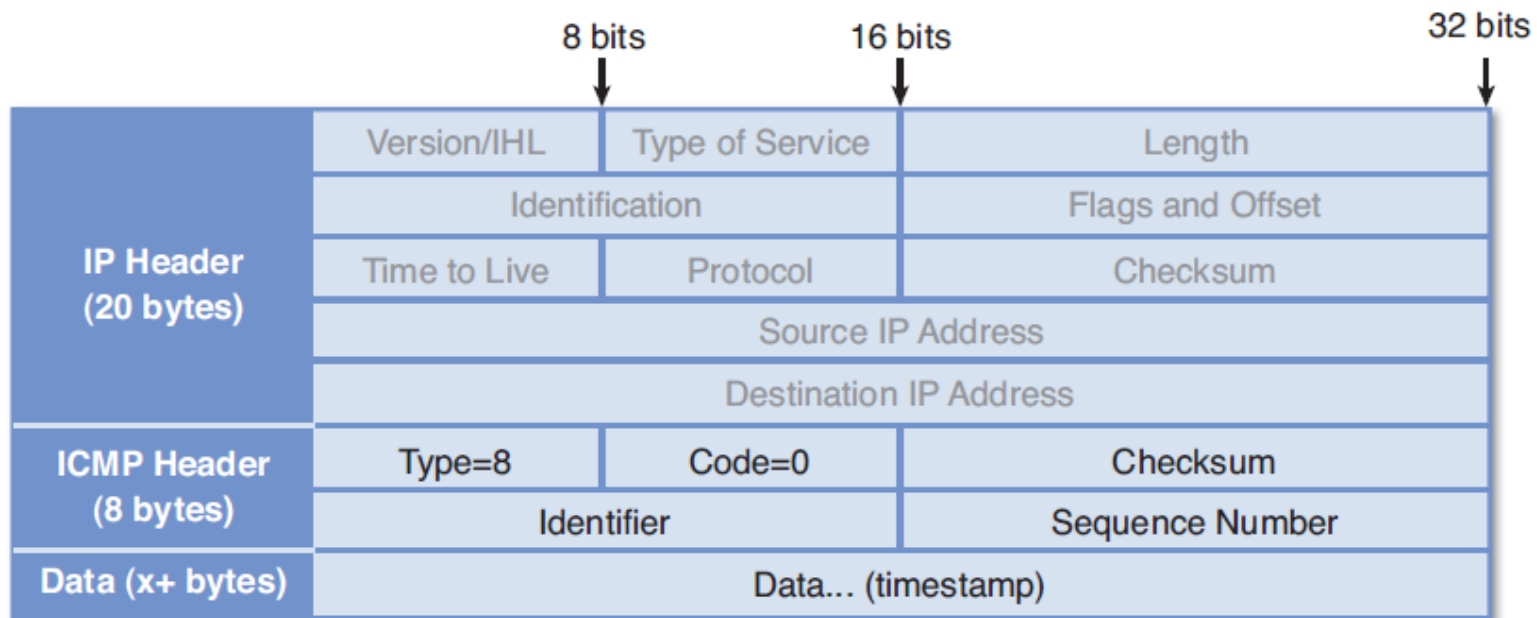
Protocol

- IP
- ICMP
- TCP
- UDP

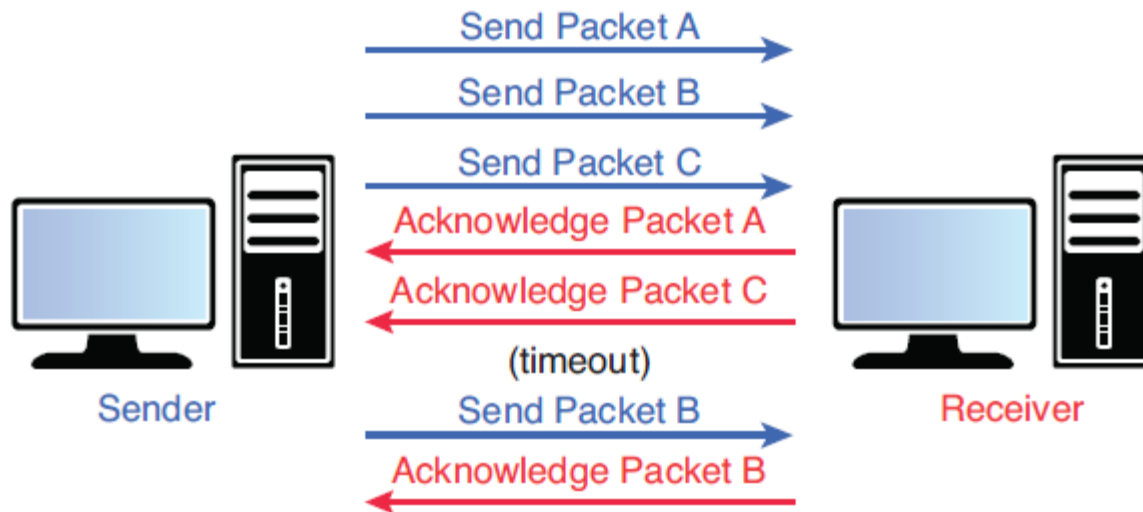
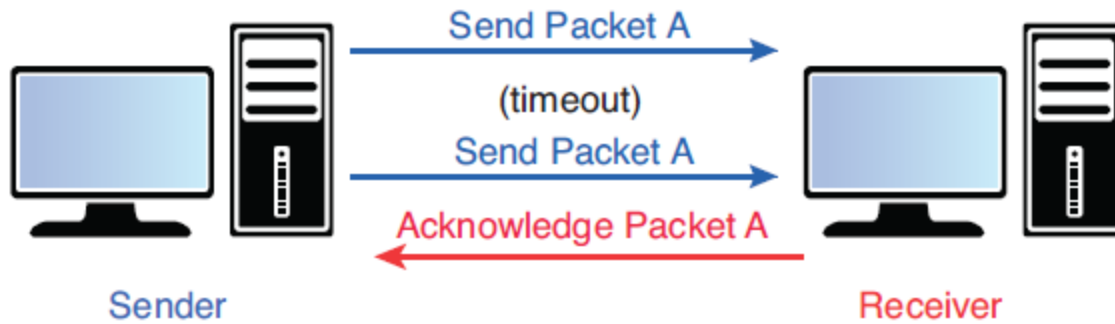
IP



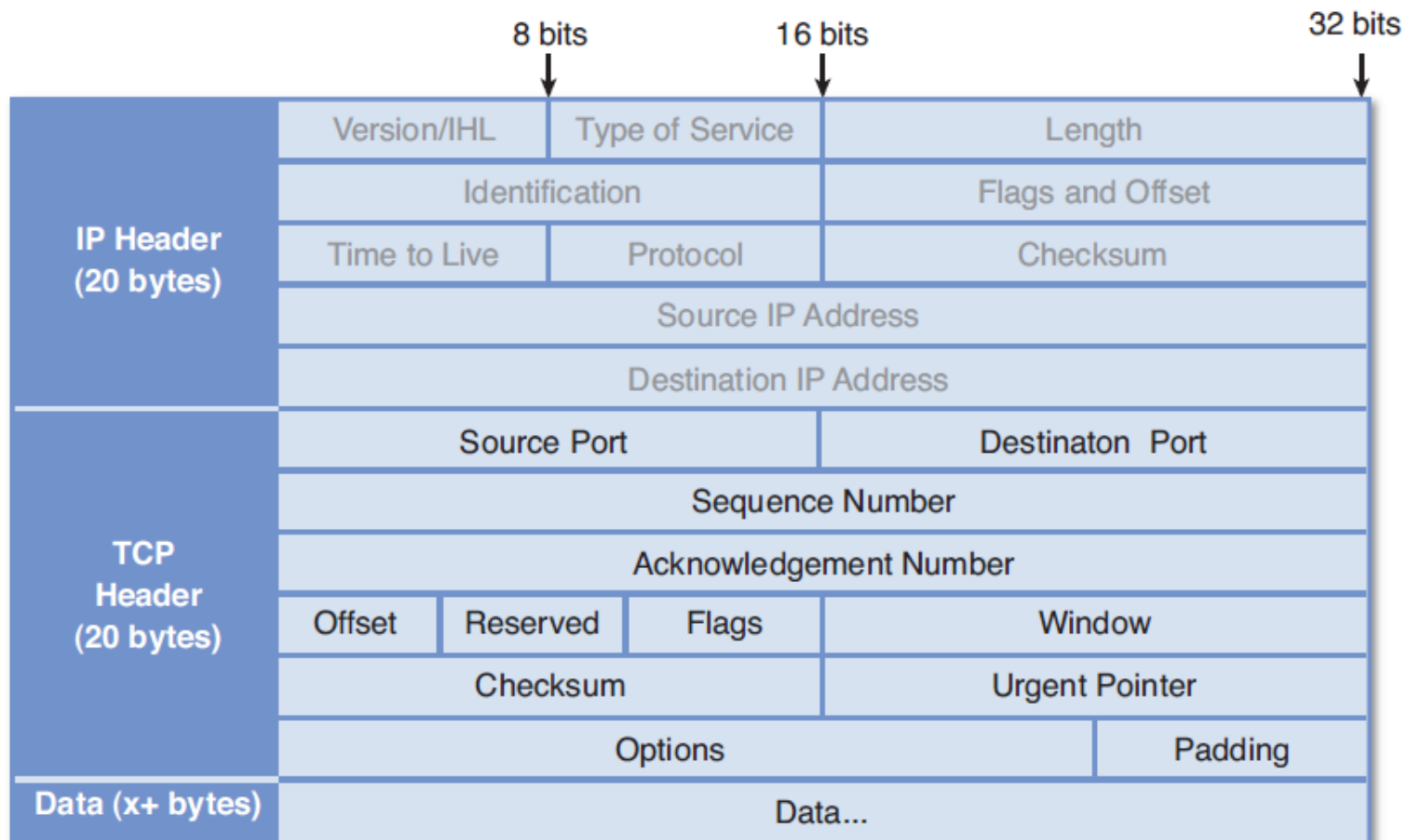
ICMP



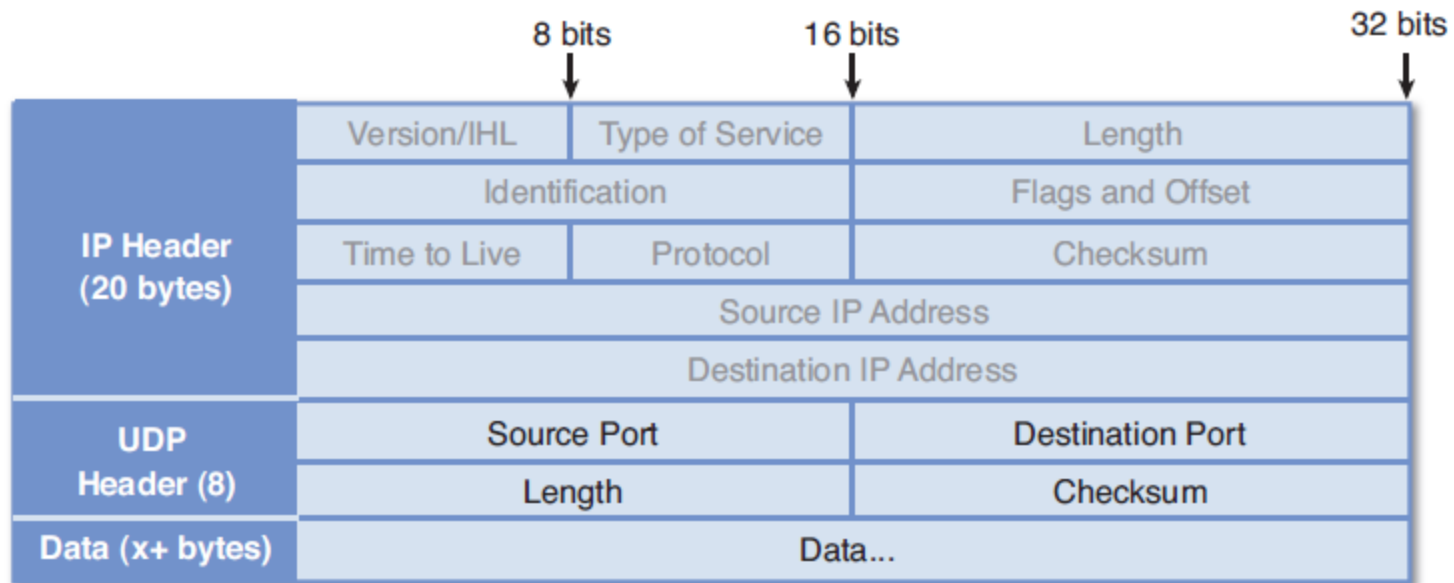
TCP



TCP (header)



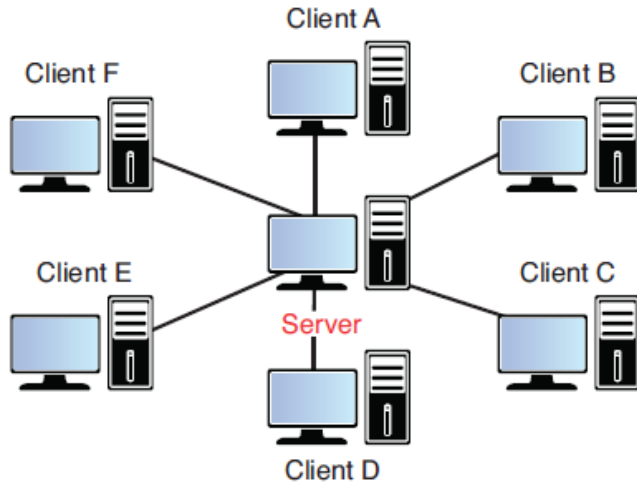
UDP



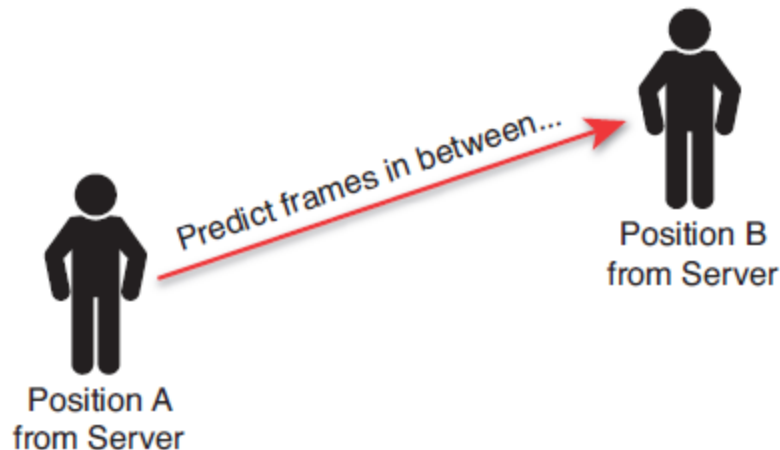
Network Topology

- Server/Client
- Peer to peer

Server/Client

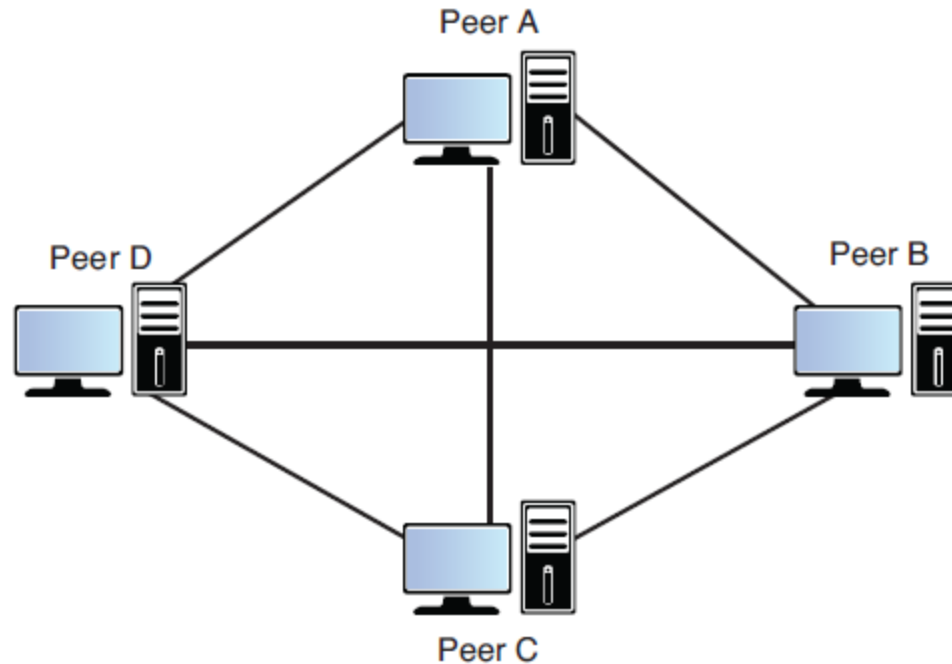


- Bandwidth
- Processing power
- Client Prediction
- Host advantage
 - Gears of war



Peer-to-Peer

- RTS
 - lockstep
- Halo



Cheating

- Information Cheat
 - Example: spy character, map
- Game State Cheat
- Man-in-the-middle attack

More References

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