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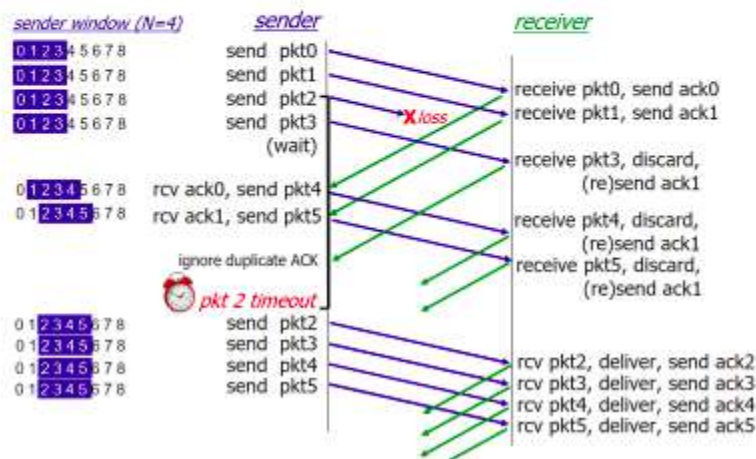
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# Transport concept

TCP Exchange msg.

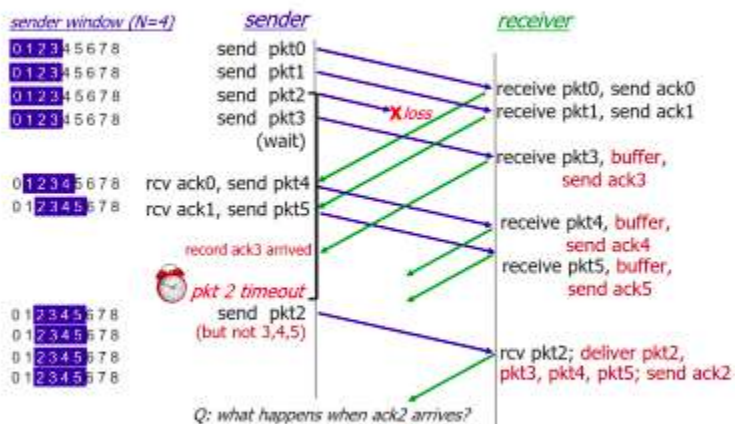
->Go-back-N

## Go-Back-N in action



-> Selective Repeat

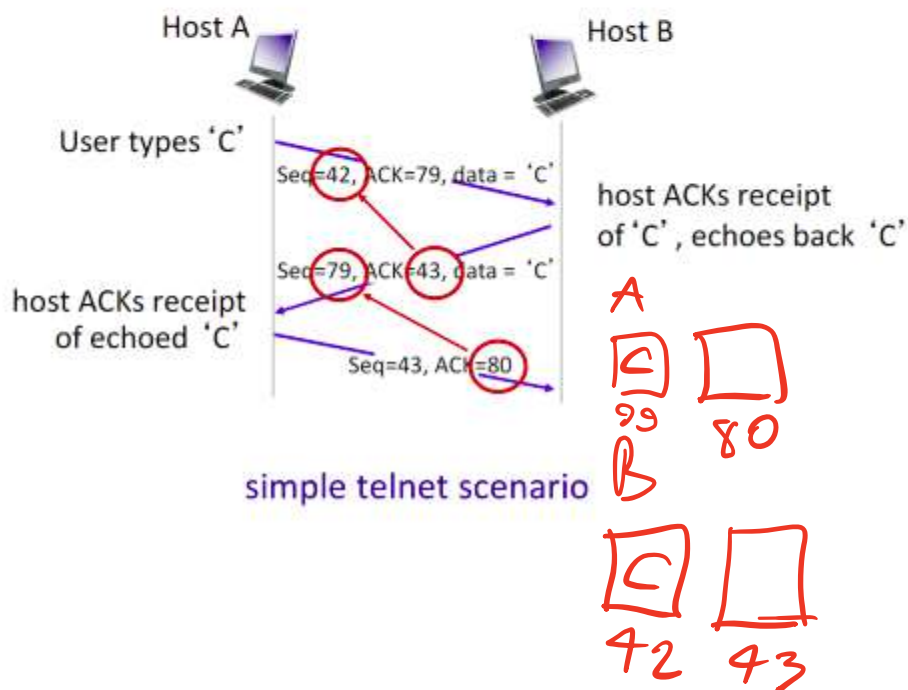
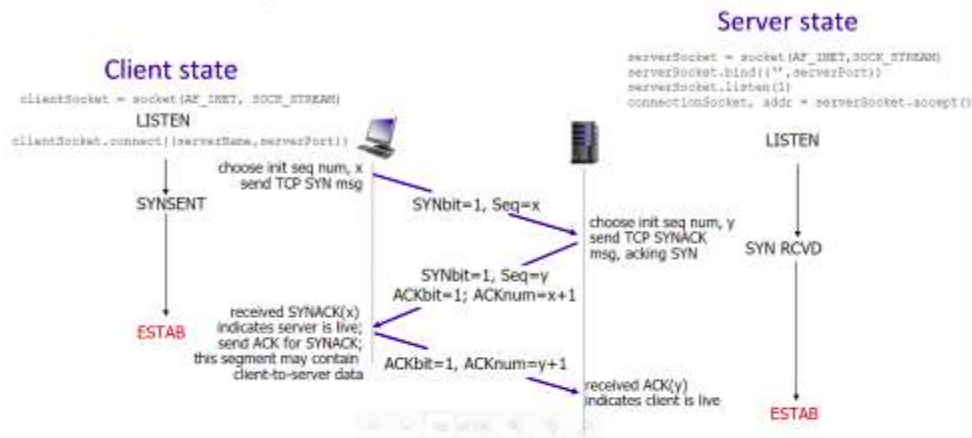
## Selective Repeat in action

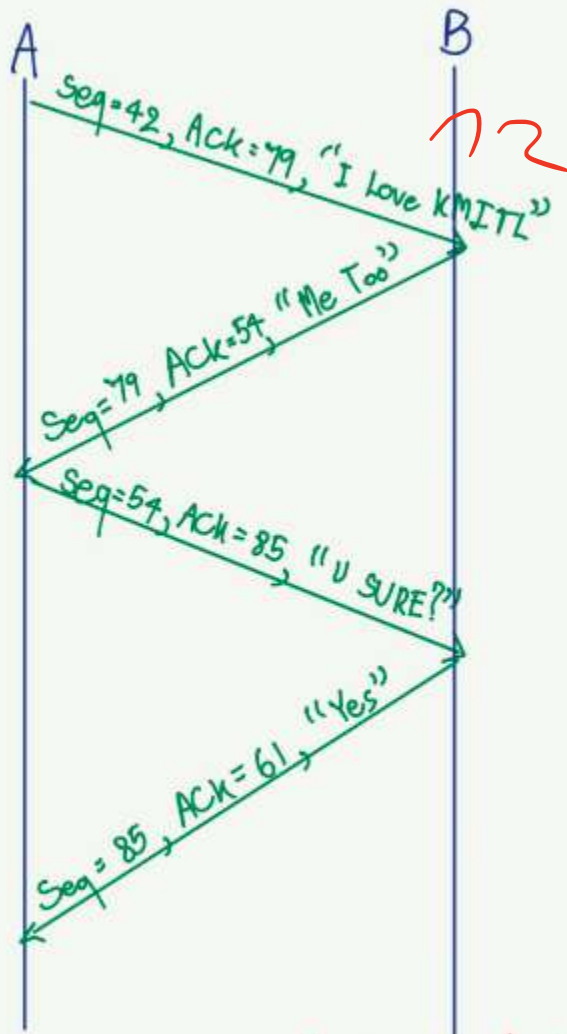


# A human 3-way handshake protocol



# TCP 3-way handshake





What is next Seq and Ack?  
67 88

# Coffee shop to facebook

Facebook → OSI Model

App + Presentation + Session : https (วงกลม), TLS (เส้น), DNS, DHCP

Transport : TCP

Network : IP

Data Link : Wi-Fi or Ethernet

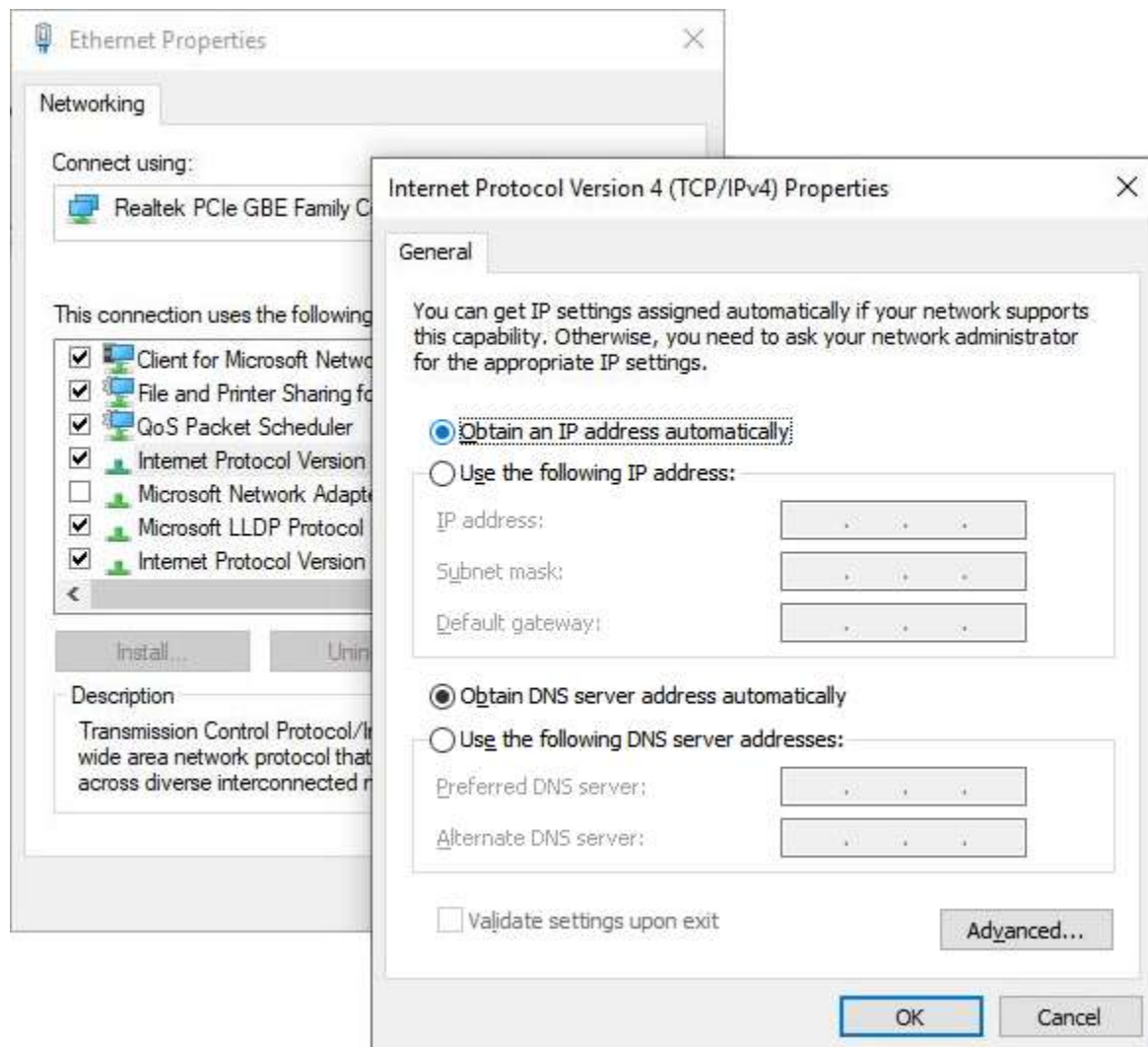
Physical : Hardware (LAN, Wireless)

# Network config when DHCP down on windows 10

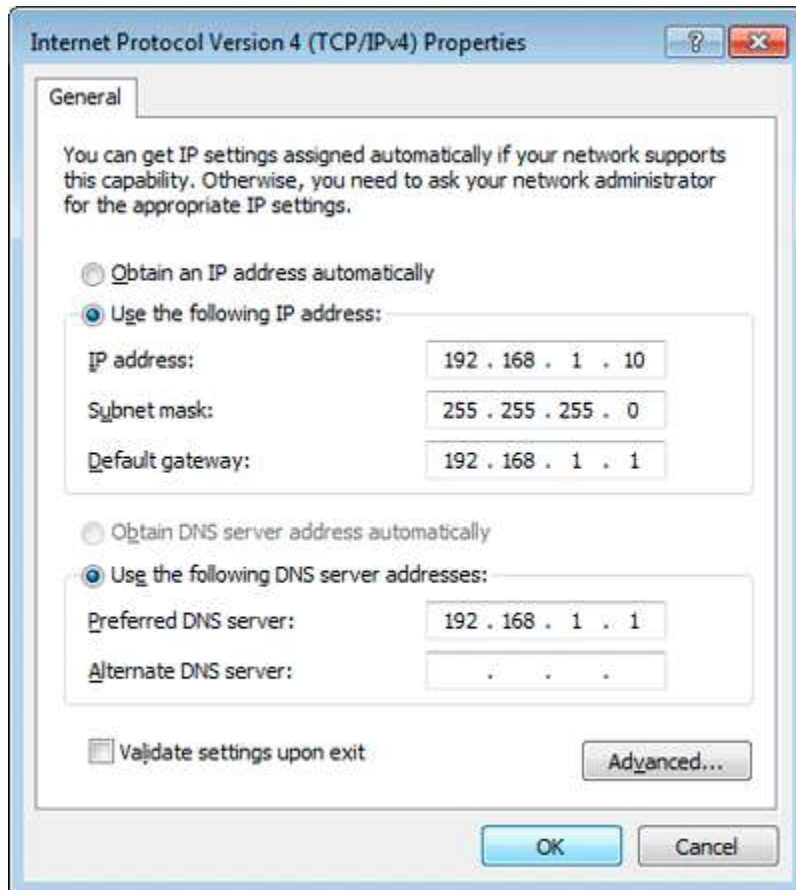
## Config IP

สิ่งที่ต้องรู้

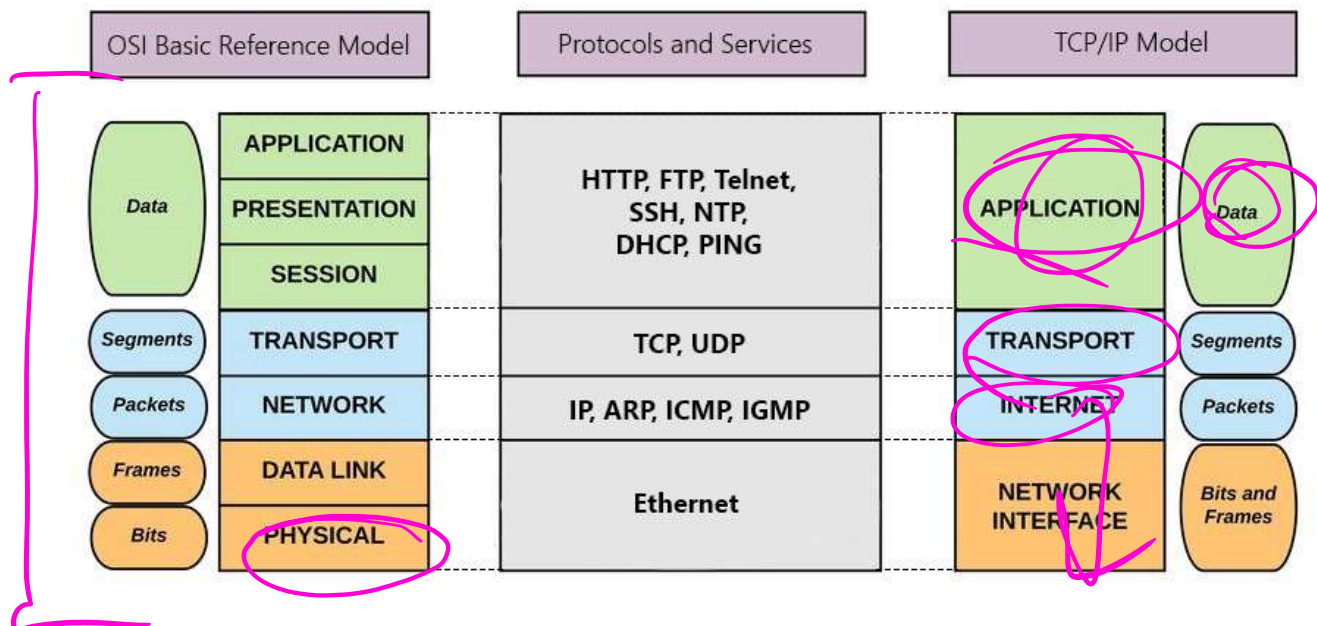
- 1.) IP Address
- 2.) Subnetmask
- 3.) Default Gateway
- 4.) Local DNS Server







## osi vs tcp/ip model



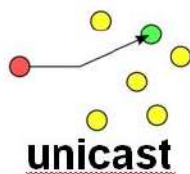


# TCP VS UDP

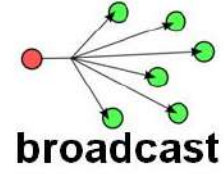
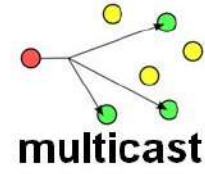
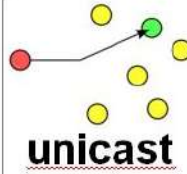
Usen Datagram P



- **Slower but reliable transfers**
- **Typical applications:**
  - Email
  - Web browsing



- **Fast but non-guaranteed transfers ("best effort")**
- **Typical applications:**
  - VoIP
  - Music streaming



# **TCP**

**Secure**

**Connection-Oriented**

**Slow**

**Guaranteed Transmission**

**Used by Critical Applications**

**Packet Reorder Mechanism**

**Flow Control**

**Advanced Error Checking**

**20 Bytes Header**

**Acknowledgement Mechanism**

**Three-Way Handshake**

**DNS, HTTPS, FTP, SMTP etc.**

# **UDP**

**Unsecure**

**Connectionless**

**Fast**

**No Guarantee**

**Used by Real-Time Applications**

**No Reorder Mechanism**

**No Flow Control**

**Basic Error Checking (Checksum)**

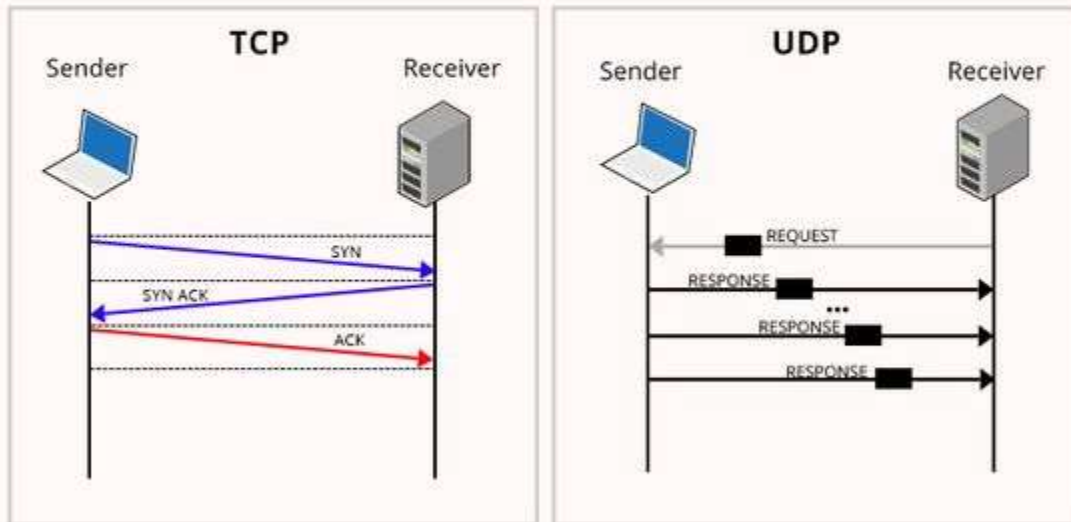
**8 Bytes Header**

**No Acknowledgement**

**No Handshake Mechanism**

**DNS, DHCP, TFTP, SNMP etc.**

# TCP Vs UDP Communication



Easy network to understand101

ref : [TEW\\_DATACOM\\_Midterm\\_Network101\\_Part1\\_Network-อย่างง่าย](#)