

# Network 기본

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# Cisco Icons and Symbols



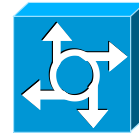
Bridge



Switch



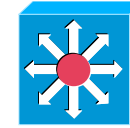
Router



Access  
server



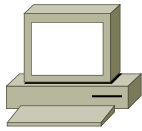
ISDN  
switch



Multi-layer  
switch



Network  
switch



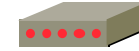
Personal  
computer



File Server



Data Service Unit/  
Channel Service Unit



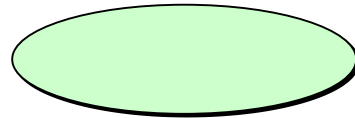
Modem



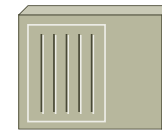
Web Server



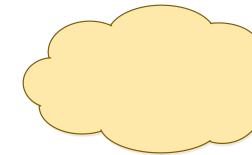
WAN "cloud"



VLAN  
(Color May Vary)



Hub



Network Cloud or  
Broadcast Domain



Ethernet



Fast Ethernet

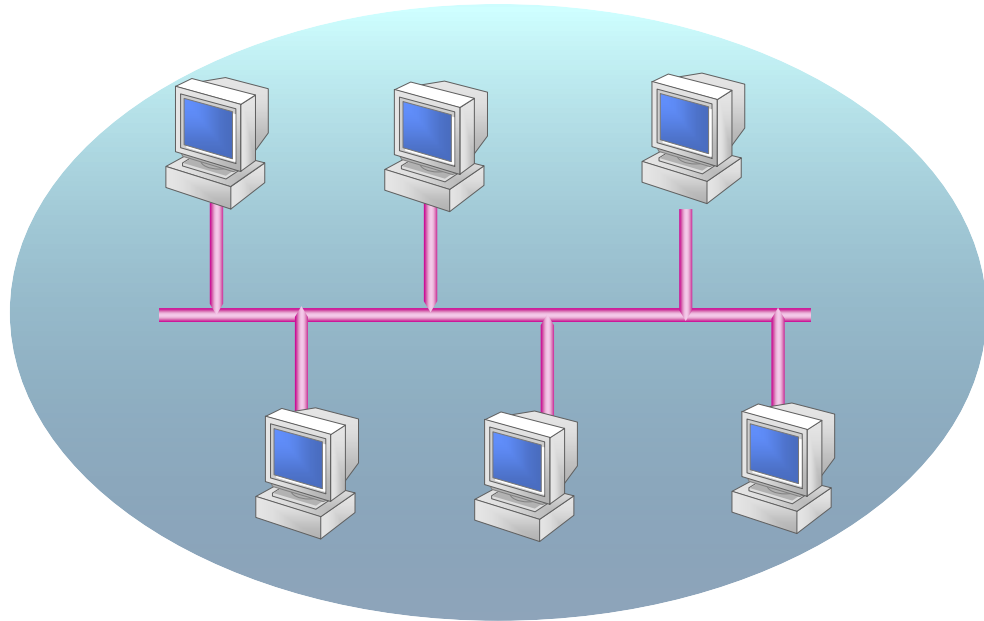


Serial Line



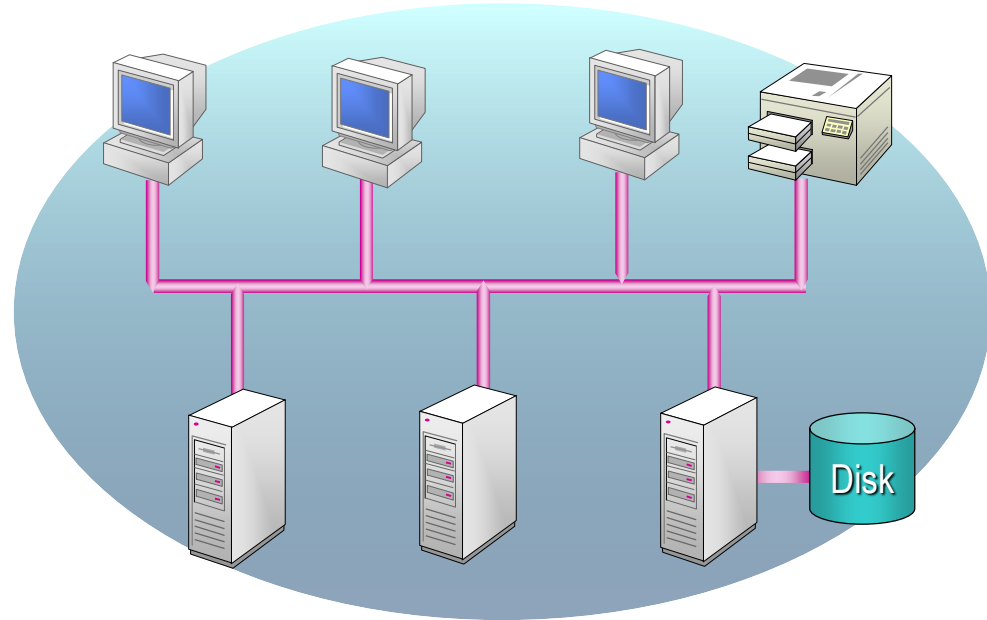
Circuit Switched  
Line

# What is Network?



Peer to Peer

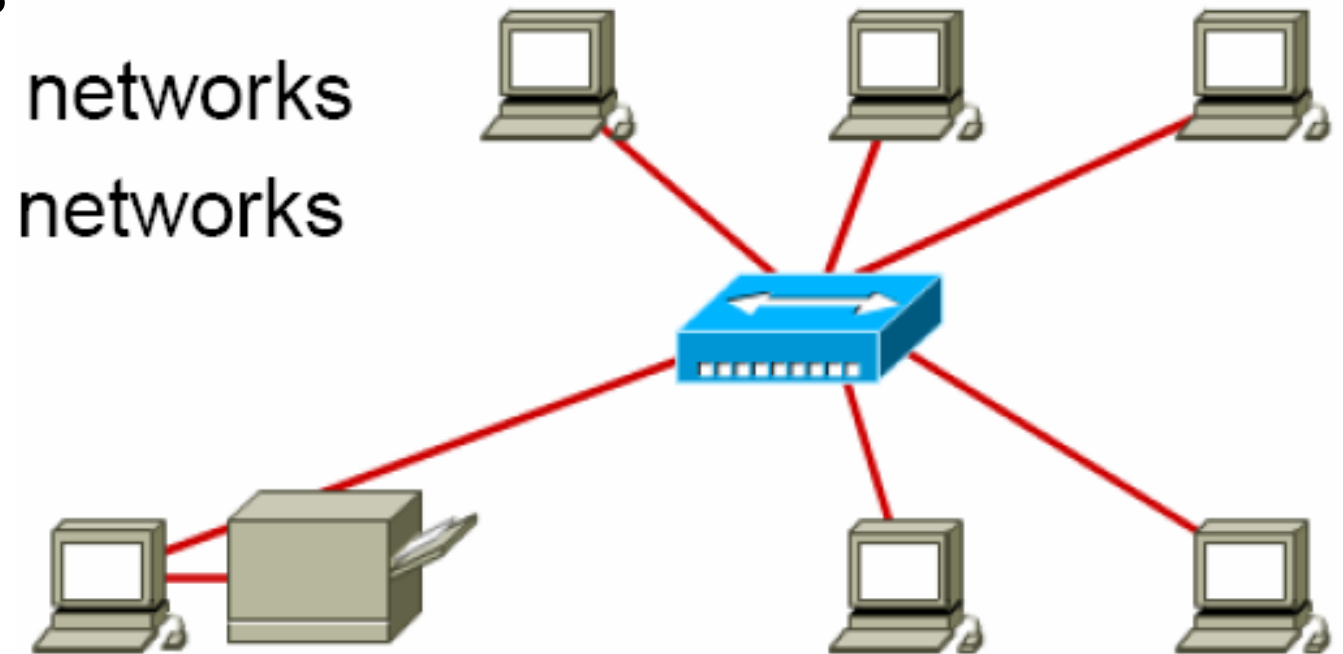
- 하드웨어 공유
- 컴퓨터간에 파일 및 디렉터리 공유
- 전자 메일 등 커뮤니케이션 지원
- 전자 뉴스나 WWW 에 의한 정보의 공유
- 그룹웨어를 이용한 사내 협업 작업
- 원격지에서 비디오 화상회의 시스템의 사용



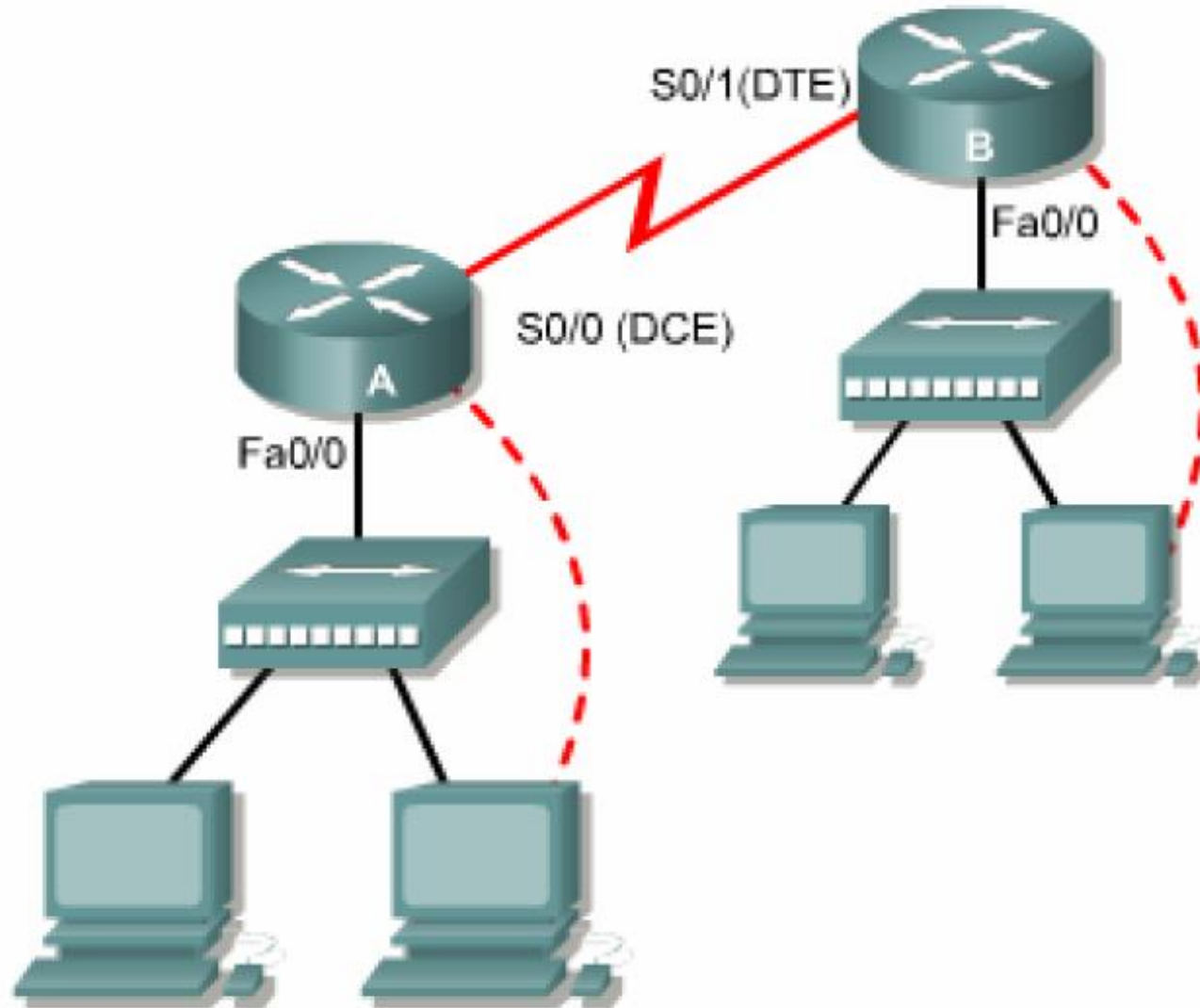
Client/Server

# Network and Networking

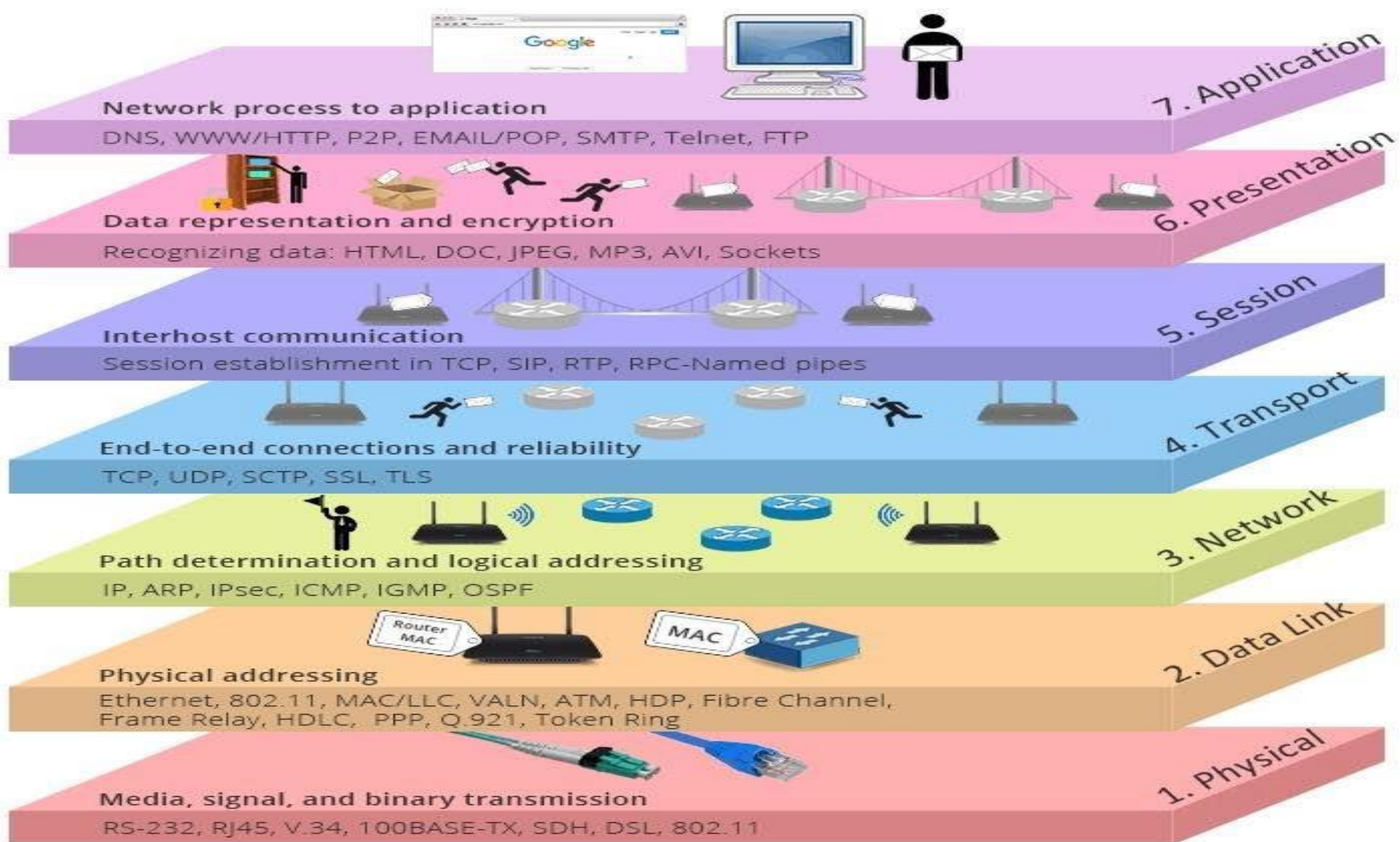
- Data Networking Solutions
  - Local-area networks
  - Wide-area networks



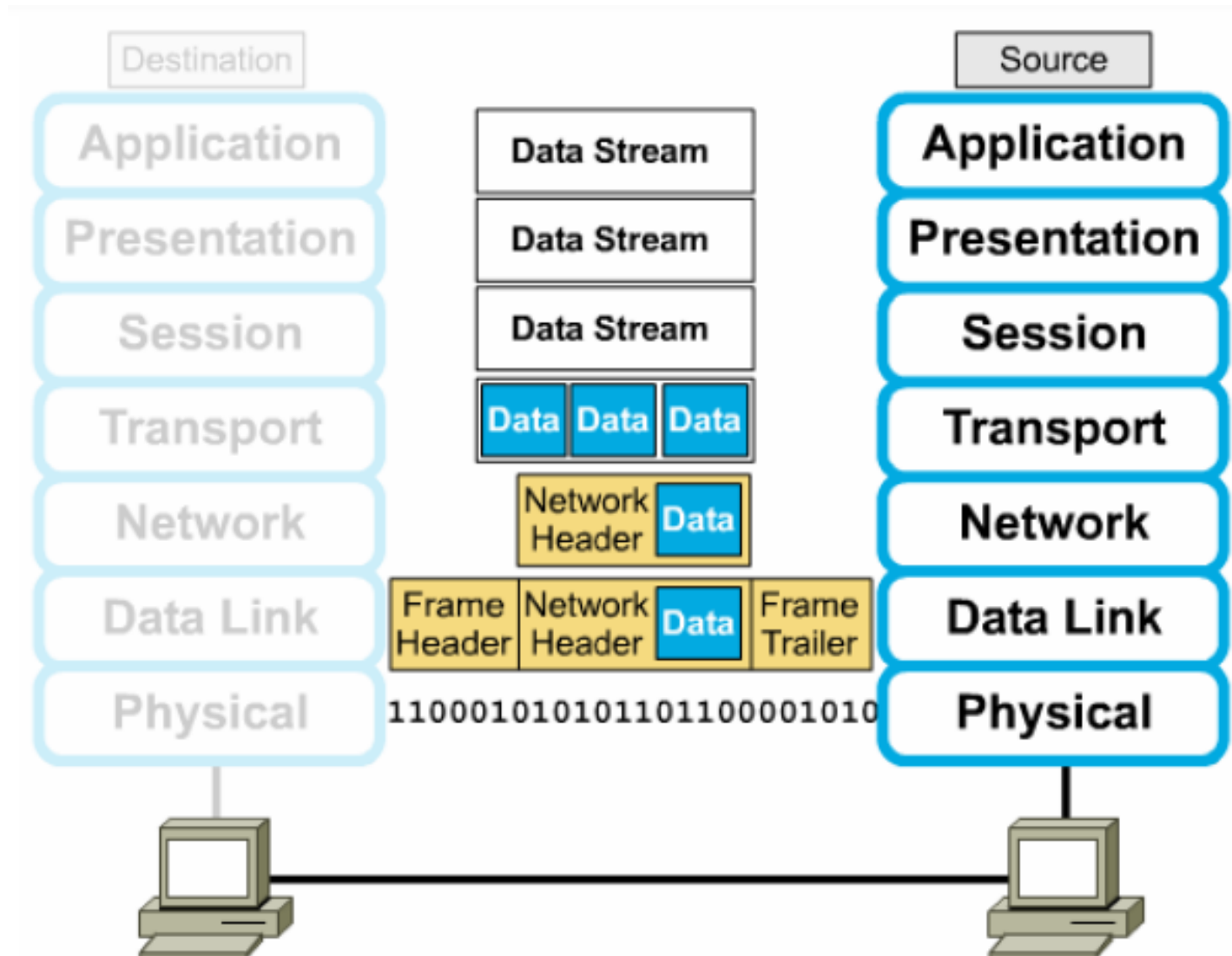
# Router and Serial Connections



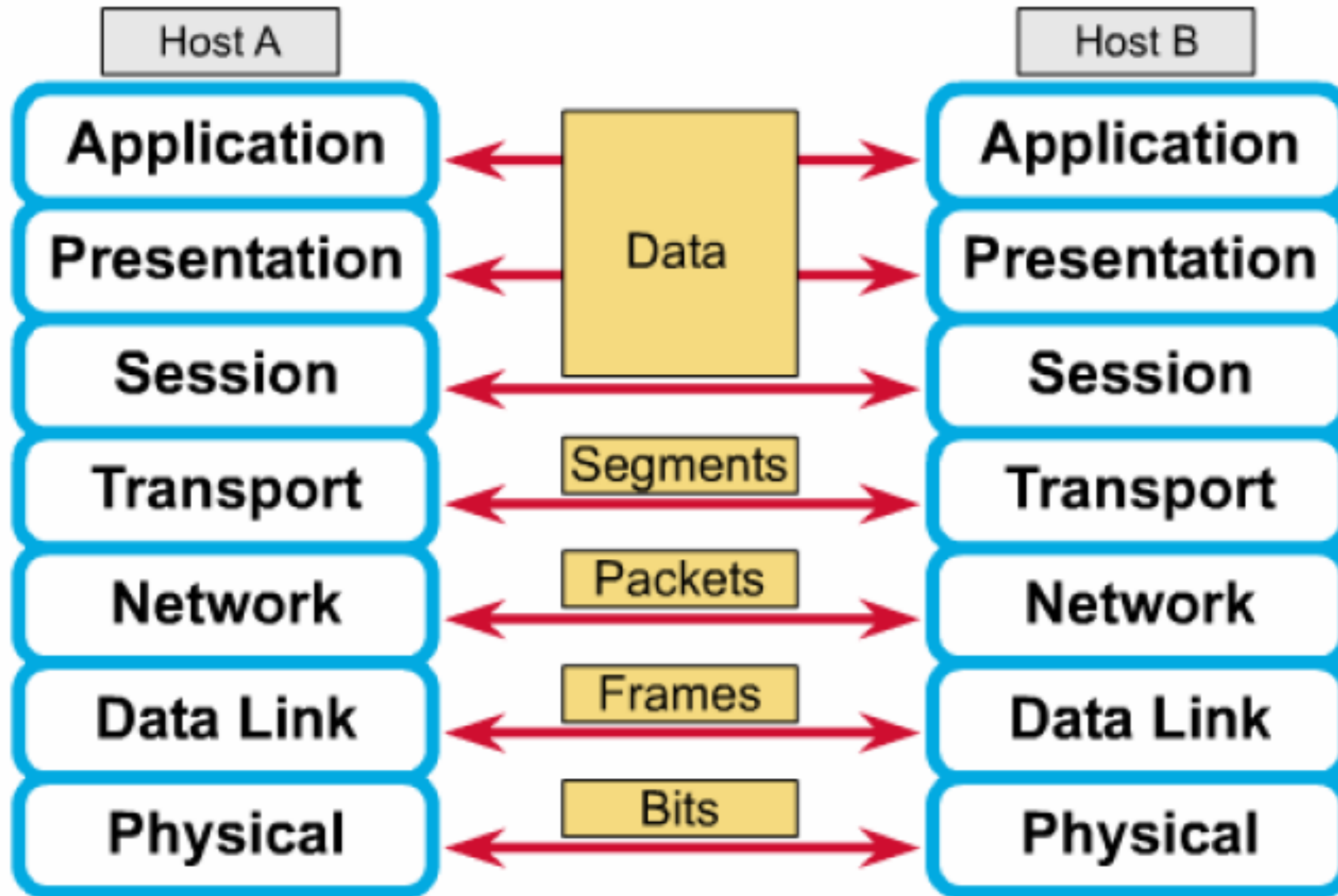
# OSI 7 Layer



# Encapsulation / De-Encapsulation

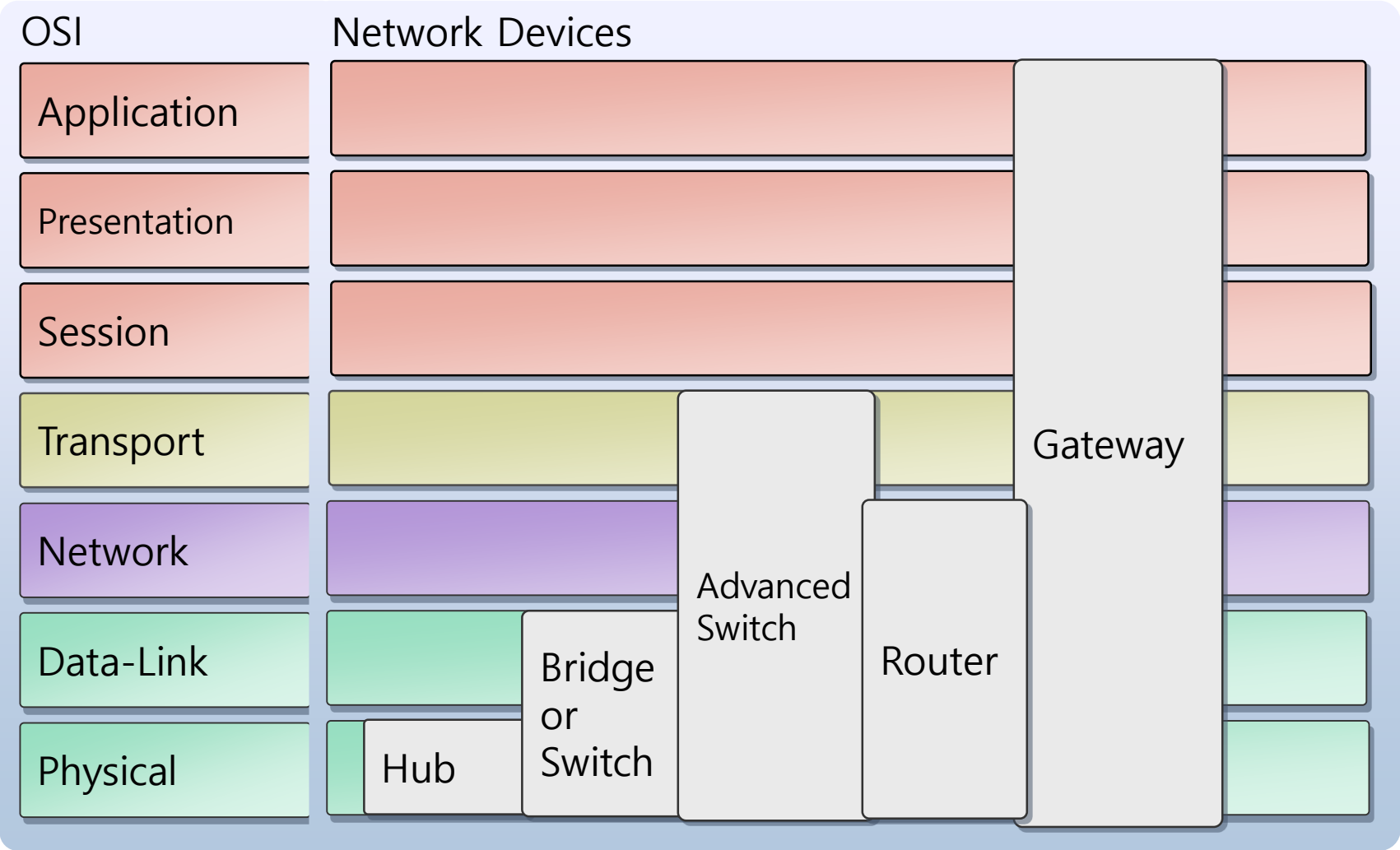


# Names for Data at Each Layer



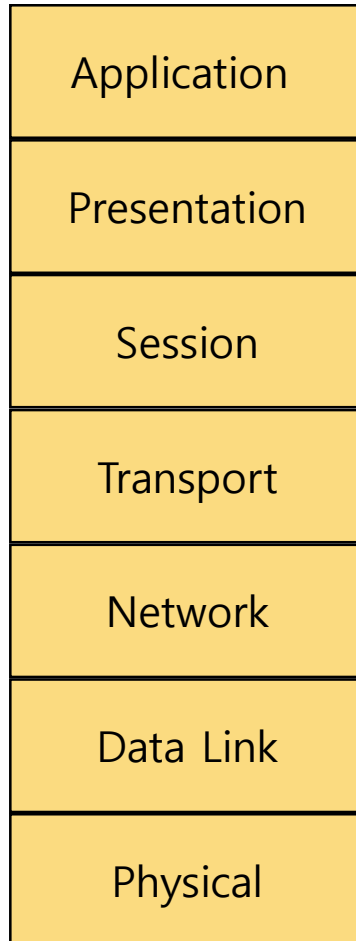


# The OSI Model and Network Devices

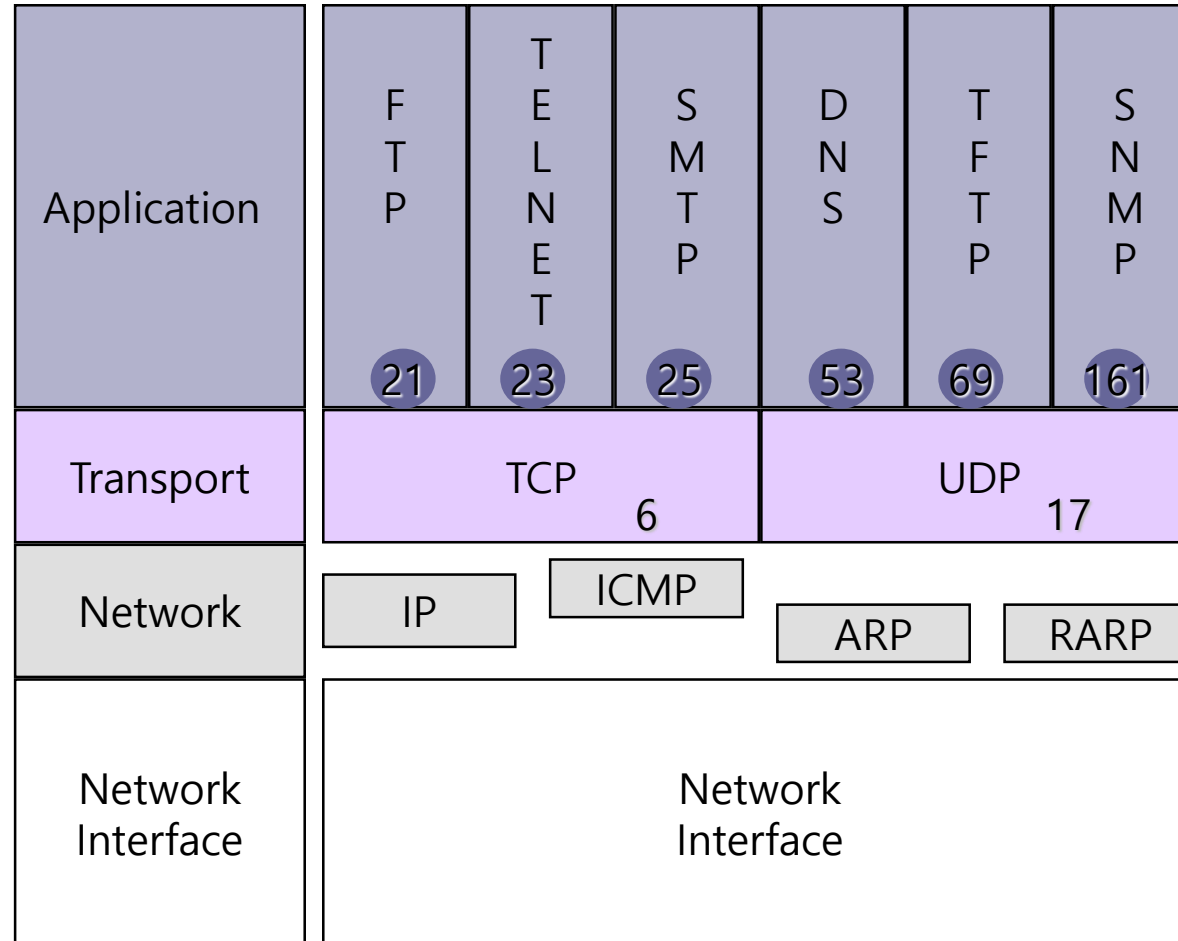


# TCP/IP Protocol Stack

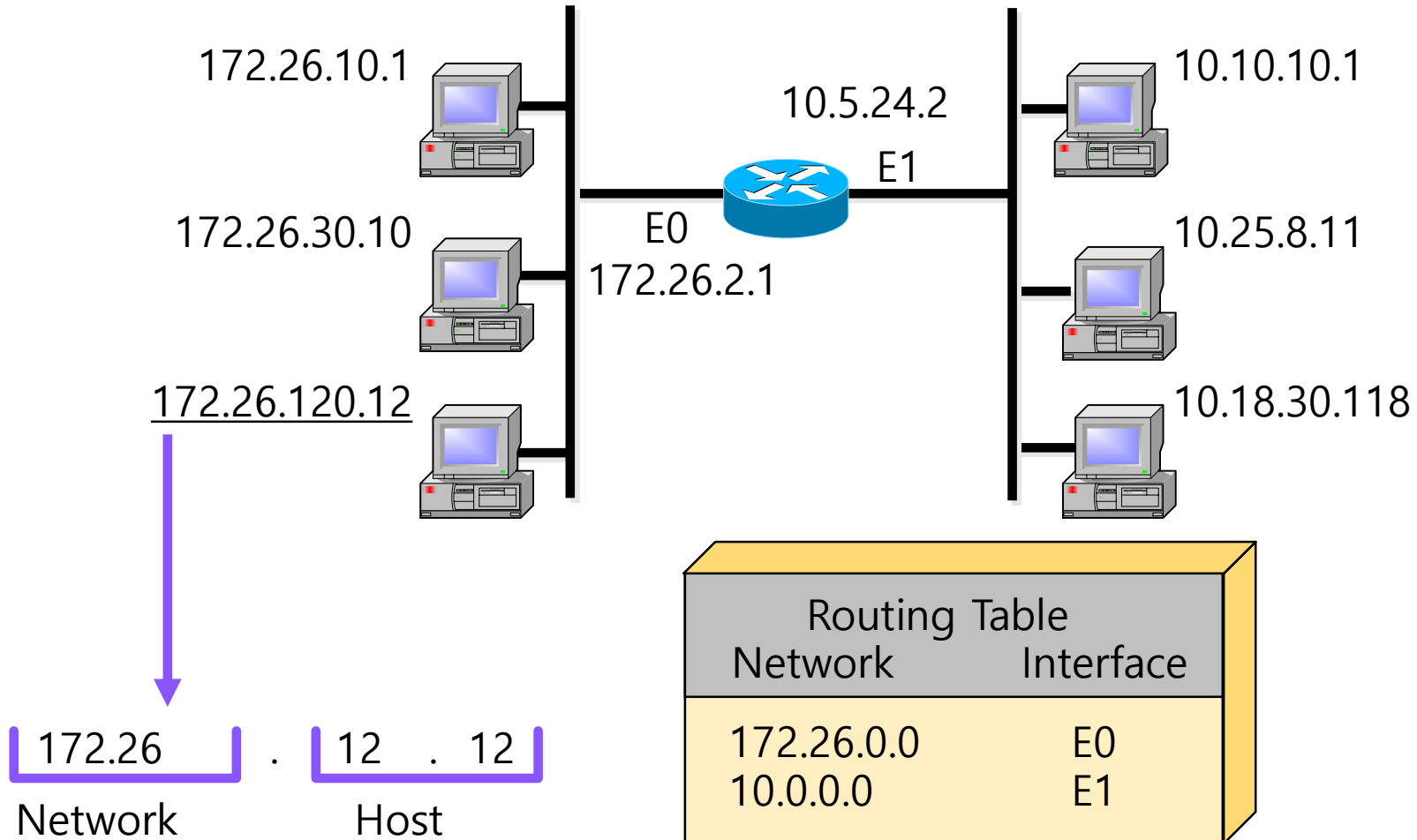
OSI 7 Layer Model



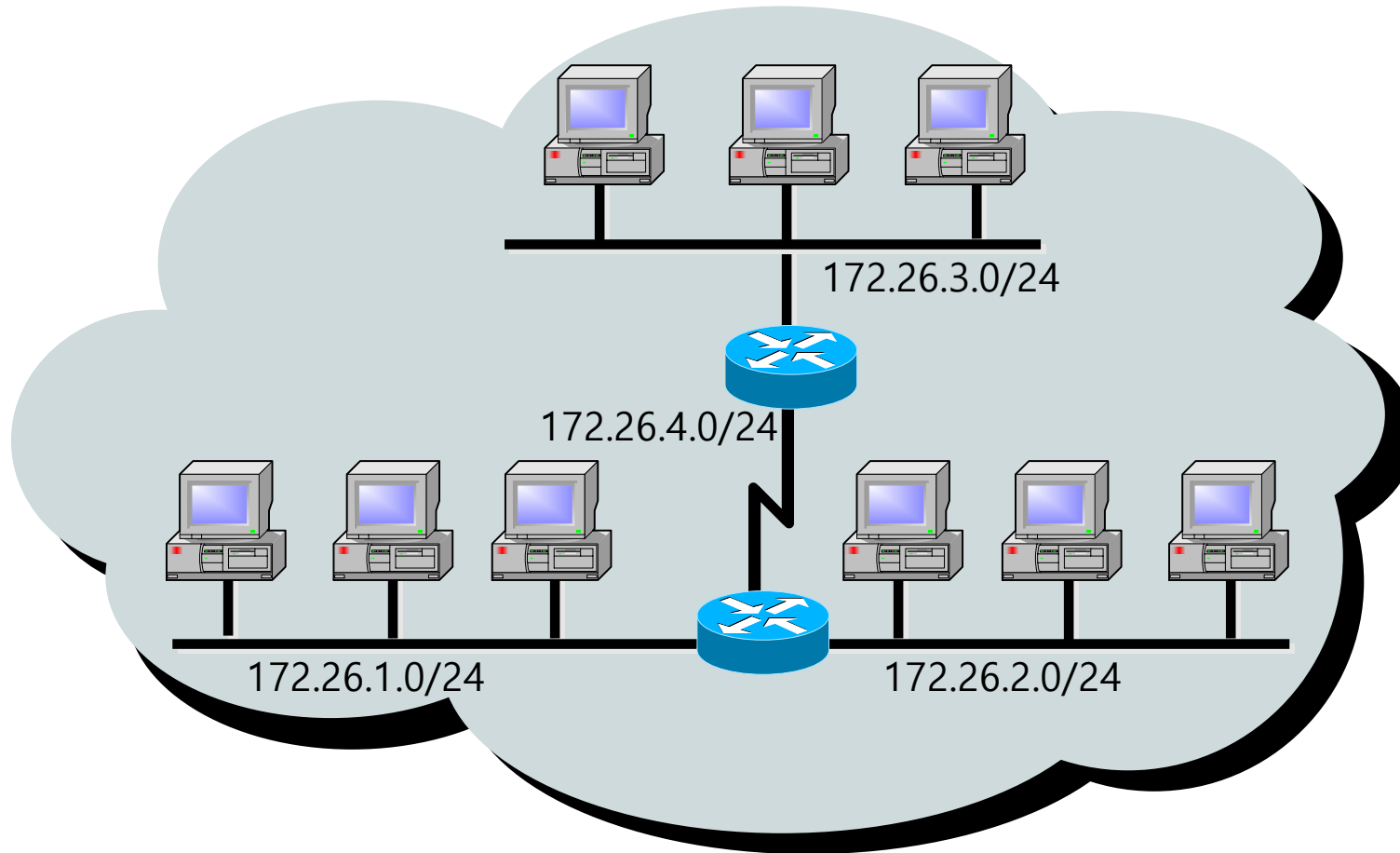
TCP/IP Protocol



# Network주소와 Host주소

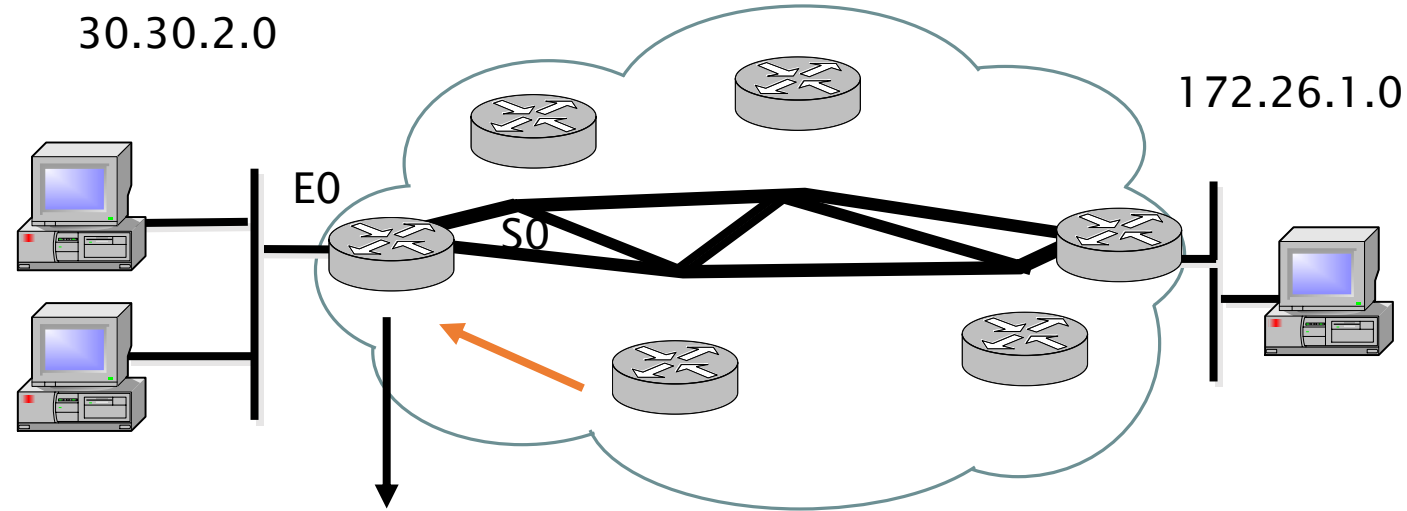


# Addressing With Subnets



Network  $172.26.0.0/16$

# Routing Overview

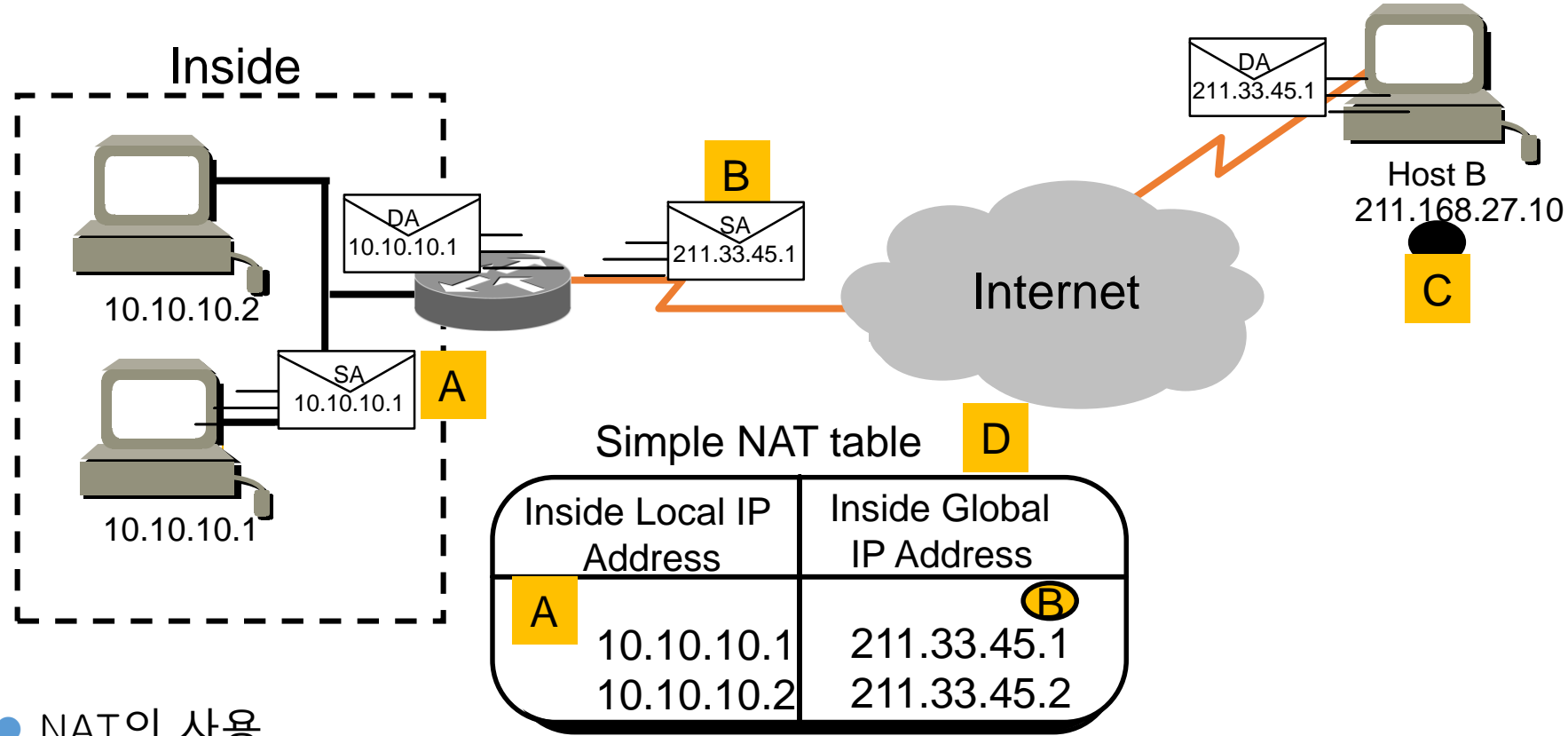


Network Protocol	Destination Network	Exit Interface
Connected Learned	30.30.2.0 172.26.1.0	E0 S0

Routed Protocol: IP

라우터는 직접 연결되어 있지 않은 Network에 대해서는 스스로 알 수는 없으며, 어떤 방법 (라우팅 프로토콜 혹은 관리자)을 통해서 알아야 한다.

# NAT Overview



- NAT의 사용

- 내부에 Private Address를 사용하는 경우 Internet으로 나가기 위해서 NAT를 한다.

감사합니다.

끝