



컴퓨터네트워크 설계보고서

9팀 안윤빈 양현용 채윤원 한승훈



RAW SOCKET 을 활용해 OS에 의해
자동 가공되는 캡슐화 된 패킷의 정보 출력

1

TCP UDP IP 헤더 출력하고 Application 계층의
HTTP, DNS, email, traceroute 데이터 확인

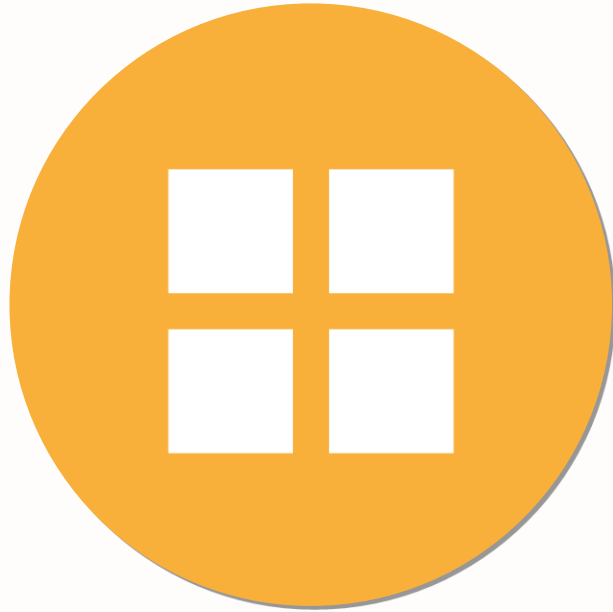
2

TCP 패킷의 TCP Flag를 출력하여
3-way Handshaking (연결)
4-way Handshaking (연결해제) 확인

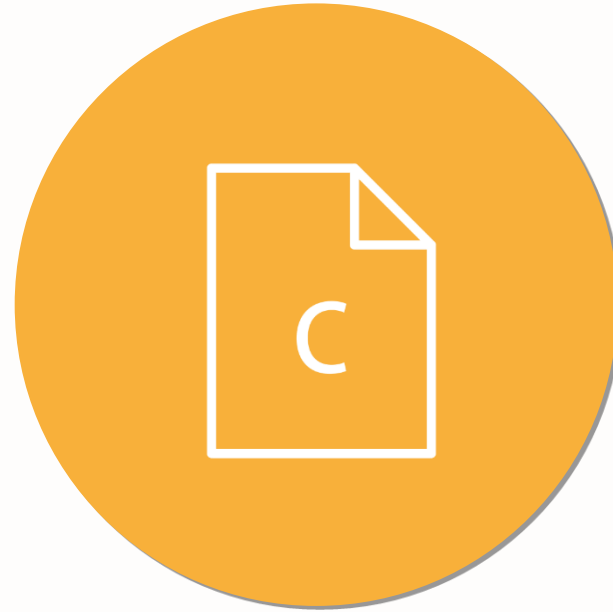
3

올바른 결과를 확인하기 위해
Wireshark 프로그램과 비교함으로써
패킷 스니퍼의 동작원리 이해

4



Windows



C language



IP HEADER

Version	Header Length	Type of Service	Total Length	
Identification			Flags	Fragment Offset
Time to Live(TTL)	Protocol Type	Header Checksum		
Source Address				
Destination Address				
Option				
Data				

99% ↑
우리는 9조 99조

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.



TCP HEADER

Source port			Destination port		
Sequence Number					
Acknowledgment Number					
Offset	Reserved	Flags	Window size		
Checksum			Urgent Pointer		
Option					

99% ↑
우리는 9조 99조

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UDP HEADER

Source port	Destination port
Length	Checksum
Acknowledgment Number	

99% ↑
우리는 9조 99조

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03

설계 내용 및 결과

HTTP

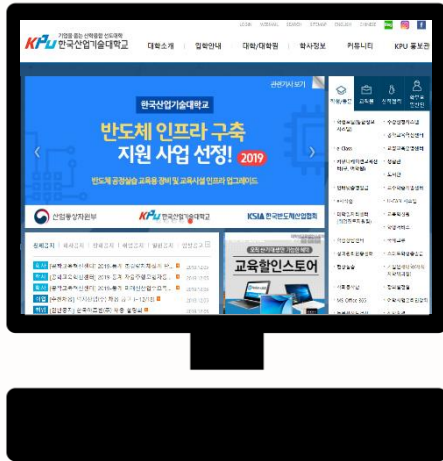


eclass.kpu.ac.kr

210.93.48.154



DNS

www.kpu.ac.kr

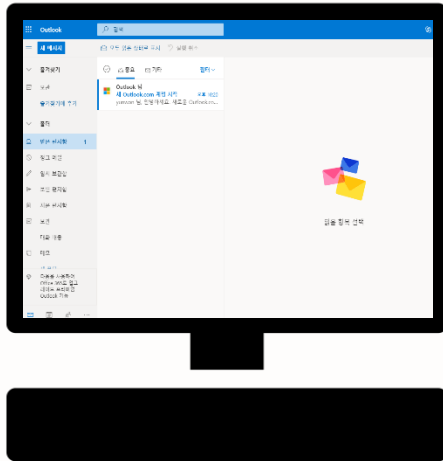
210.93.48.51



03

설계 내용 및 결과

EMAIL



Outlook.com

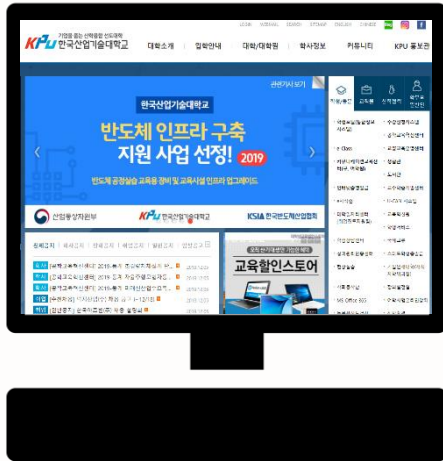
40.97.148.226



03

설계 내용 및 결과

Traceroute



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210.93.48.51



03

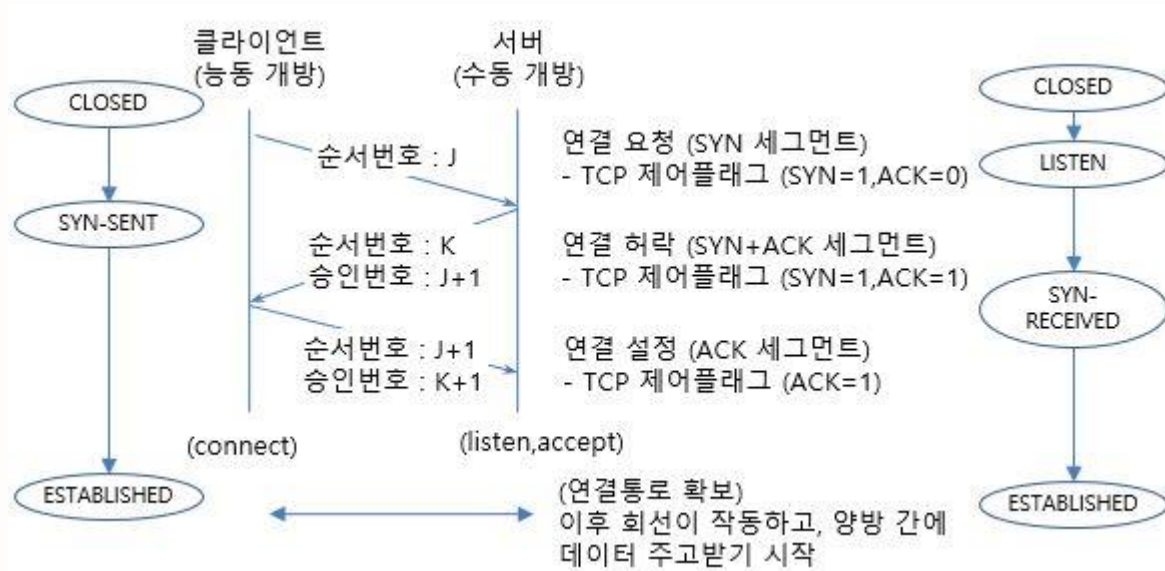
설계 내용 및 결과

3 WAY

4 WAY



3 WAY



4 WAY

