

# Task 5: Capture and Analyze Network Traffic Using Wireshark.

Objective: Capture live network packets and identify basic protocols and traffic types.

Tools Used: Wireshark (packet analyzer)

Protocol	Purpose
dns	Resolving website domains
ICMP	Network diagnostics (ping)
tls	used in HTTPS encryption

## Filters Used

icmp  
dns  
icmpv6  
igmp  
Arp

## Observations

DNS traffic shows a domain lookup for hackthebox.  
ICMP and ICMPv6 indicate active ping operations.  
TCP is common for most traffic

## Learnings

Gained hands-on experience with network protocols.  
Learned how to use filters to isolate packet types.  
Observed both IPv4 and IPv6 traffic in a real environment.