

Progetto D'esame W4 D4

Come possiamo notare grazie a questo progetto, abbiamo capito quale differenza c'è tra un HTTP e un HTTPS.

A primo impatto grazie anche all'applicazione Wireshark possiamo notare che Avviando la ricerca in HTTPS ci sono meno informazioni al pacchetto perchè è criptato.

Cosa contraria quando si effettua una ricerca in HTTP perchè come si può notare anche in foto in allegato ci sono scritte tutte le informazioni che io sto visualizzando nella pagina web in quel momento e anche che tipo di browser si sta utilizzando.

Mac Address (Kali): 08:00:27:56:6c:1a

Mac Address (Windows): 08:00:27:5d:36:be

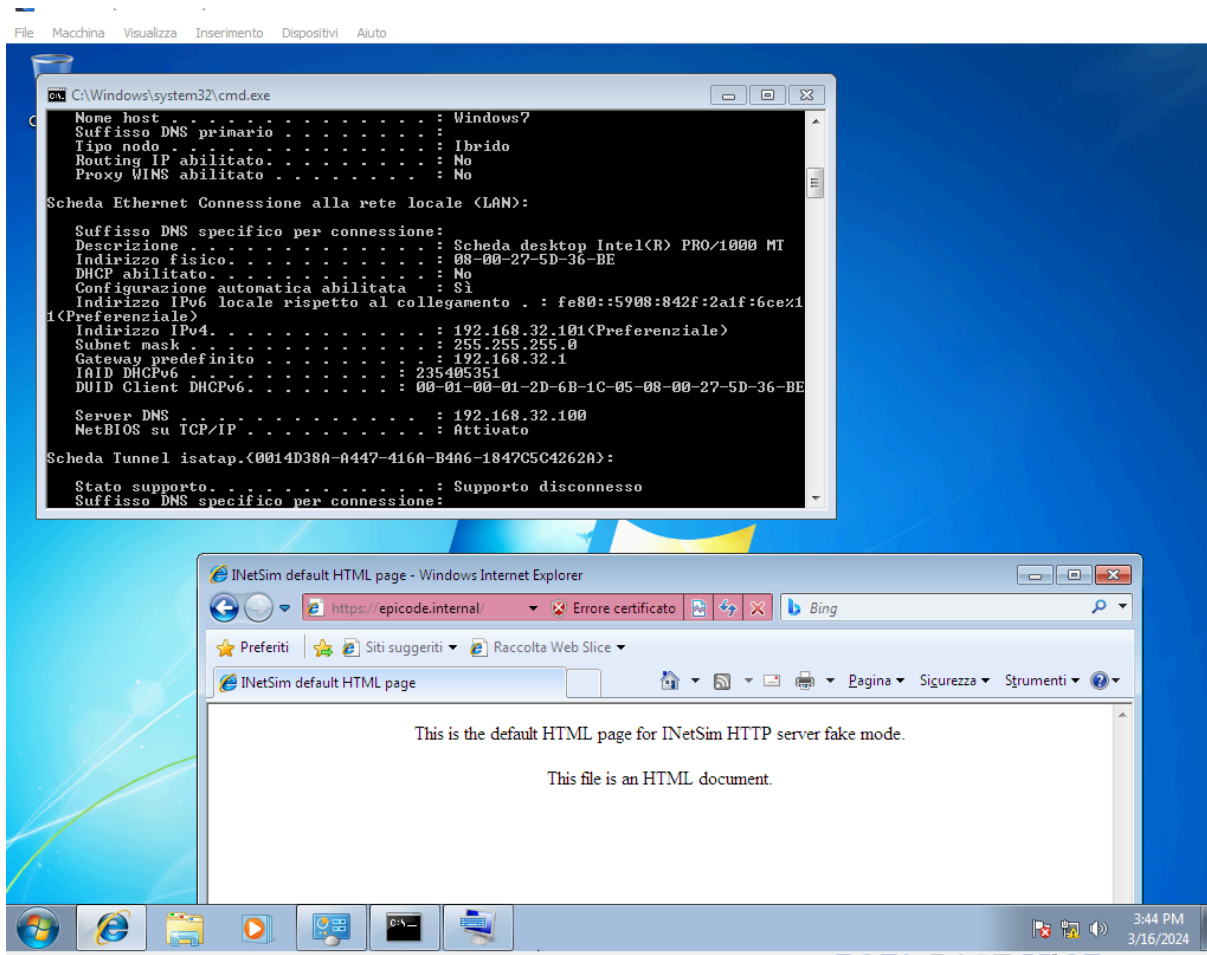
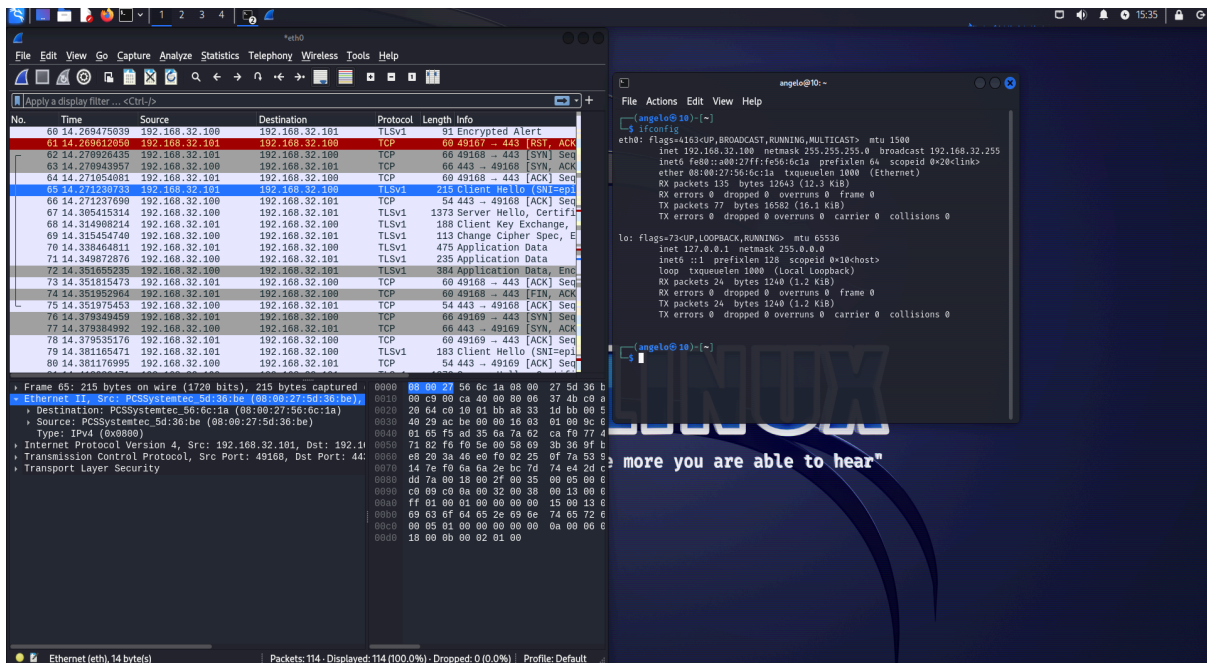
IP (Kali): 192.168.32.100

IP (Windows): 192.168.32.101

Allegato 1: Pacchetti wireshark in HTTPS + Mac address linux

Allegato 2: Mac address Windows + Motore di ricerca epicode.interal

Allegato 3: Pacchetti wireshark in HTTP + Mac address linux



Wireshark interface showing network traffic analysis. The main pane displays a list of captured packets with columns for No., Time, Source, Destination, Protocol, and Length. The selected packet (No. 7) is expanded in the packet details pane, showing Ethernet II, Internet Protocol Version 4, and Hypertext Transfer Protocol layers. The packet bytes pane displays the raw data in hexadecimal and ASCII. The status bar at the bottom indicates 14 bytes of Ethernet (eth) data and 408 bytes of reassembled TCP data.

| No. | Time | Source | Destination | Protocol | Length | Info |
|-----|-------------|----------------|----------------|----------|--------|--|
| 1 | 0.000000000 | 192.168.32.101 | 192.168.32.100 | TCP | 66 | 49174 → 80 [SYN] Seq=0 Win=8192 Len=0 MSS=1460 WS=4 |
| 2 | 0.000038421 | 192.168.32.100 | 192.168.32.101 | TCP | 66 | 80 → 49174 [SYN, ACK] Seq=0 Ack=1 Win=64240 Len=0 MSS=1460 |
| 3 | 0.000175493 | 192.168.32.101 | 192.168.32.100 | TCP | 66 | 49174 → 80 [ACK] Seq=1 Ack=1 Win=65760 Len=0 |
| 4 | 0.000328050 | 192.168.32.101 | 192.168.32.100 | HTTP | 333 | GET / HTTP/1.1 |
| 5 | 0.000329076 | 192.168.32.100 | 192.168.32.101 | TCP | 54 | 80 → 49174 [ACK] Seq=1 Ack=280 Win=64128 Len=0 |
| 6 | 0.015012788 | 192.168.32.100 | 192.168.32.101 | TCP | 204 | 80 → 49174 [PSH, ACK] Seq=1 Ack=280 Win=64128 Len=15 |
| 7 | 0.016757798 | 192.168.32.100 | 192.168.32.101 | HTTP | 312 | HTTP/1.1 200 OK (text/html) |
| 8 | 0.016919191 | 192.168.32.101 | 192.168.32.100 | TCP | 60 | 49174 → 80 [ACK] Seq=280 Ack=410 Win=65292 Len=0 |
| 9 | 0.016947983 | 192.168.32.101 | 192.168.32.100 | TCP | 60 | 49174 → 80 [FIN, ACK] Seq=280 Ack=410 Win=65292 Len=0 |
| 10 | 0.016959757 | 192.168.32.100 | 192.168.32.101 | TCP | 54 | 80 → 49174 [ACK] Seq=410 Ack=281 Win=64128 Len=0 |

Frame 7: 312 bytes on wire (2496 bits), 312 bytes captured (2496 bits) on interface eth0, id 0

Ethernet II, Src: PCSysintec_5d:6c:1a (08:00:27:5d:6c:1a), Dst: PCSysintec_5d:30:be (08:00:27:5d:30:be)

Destination: PCSysintec_5d:30:be (08:00:27:5d:30:be)

Source: PCSysintec_5d:6c:1a (08:00:27:5d:6c:1a)

Type: IPv4 (0x0800)

Internet Protocol Version 4, Src: 192.168.32.100, Dst: 192.168.32.101

Transmission Control Protocol, Src Port: 80, Dst Port: 49174, Seq: 151, Ack: 280, Len: 258

[2 Reassembled TCP Segments (408 bytes): #6(150), #7(258)]

Hypertext Transfer Protocol

Line-based text data: text/html (10 lines)

Frame (312 bytes) | Reassembled TCP (408 bytes)

Packets: 10 - Displayed: 10 (100.0%) - Dropped: 0 (0.0%)

Profile: Default