Universidade Federal de Goiás

Escola de Engenharia Elétrica, Mecânica e Computação

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Introdução ao uso do Wireshark

1) Baixando o Wireshark:

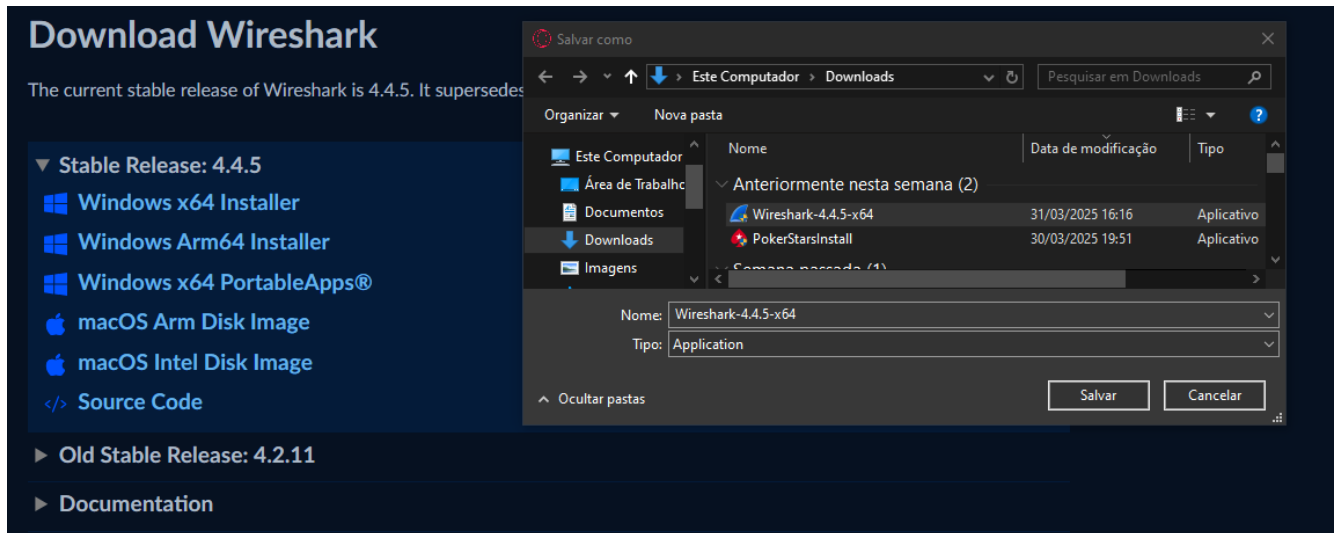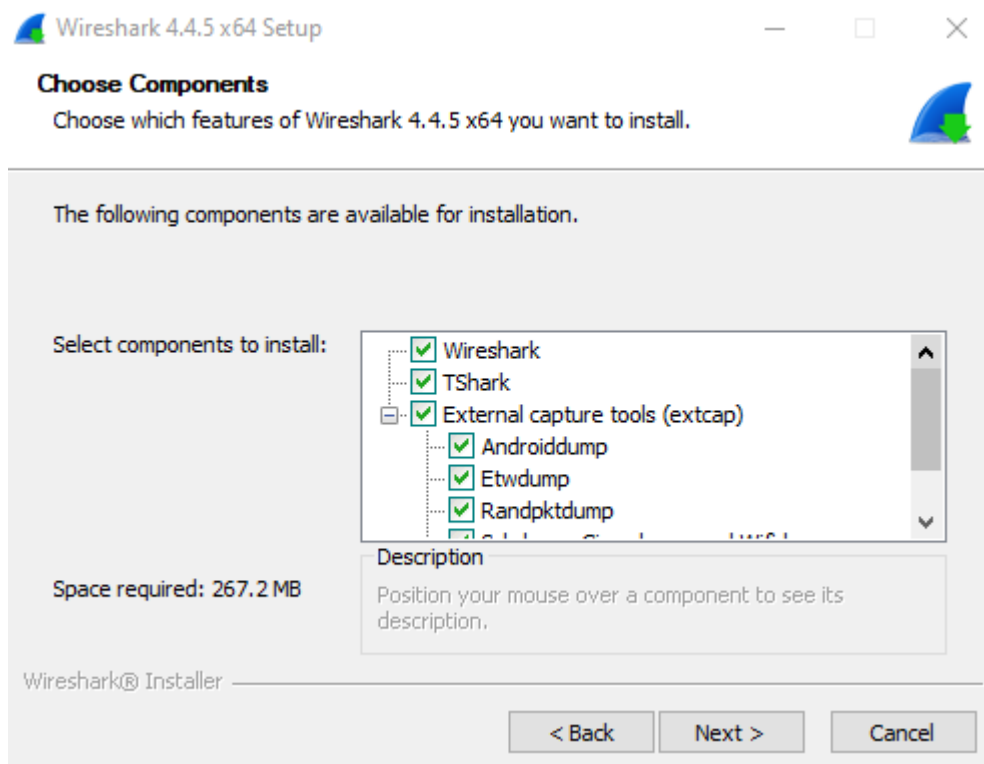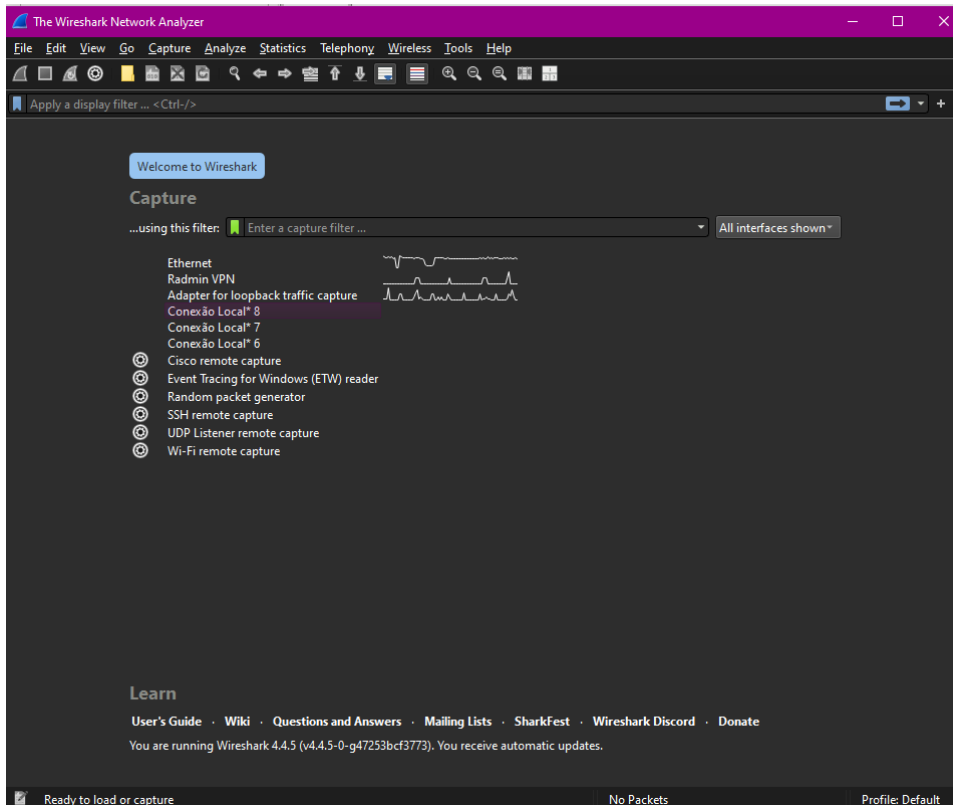Figura 1 – Baixando wireshark pelo navegador

Figura 2 – Baixando componentes do Wireshark

2) Executando o Wireshark:

Figura 3 – Tela apresentação da interface do Wireshark

3) Usando o Wireshark:

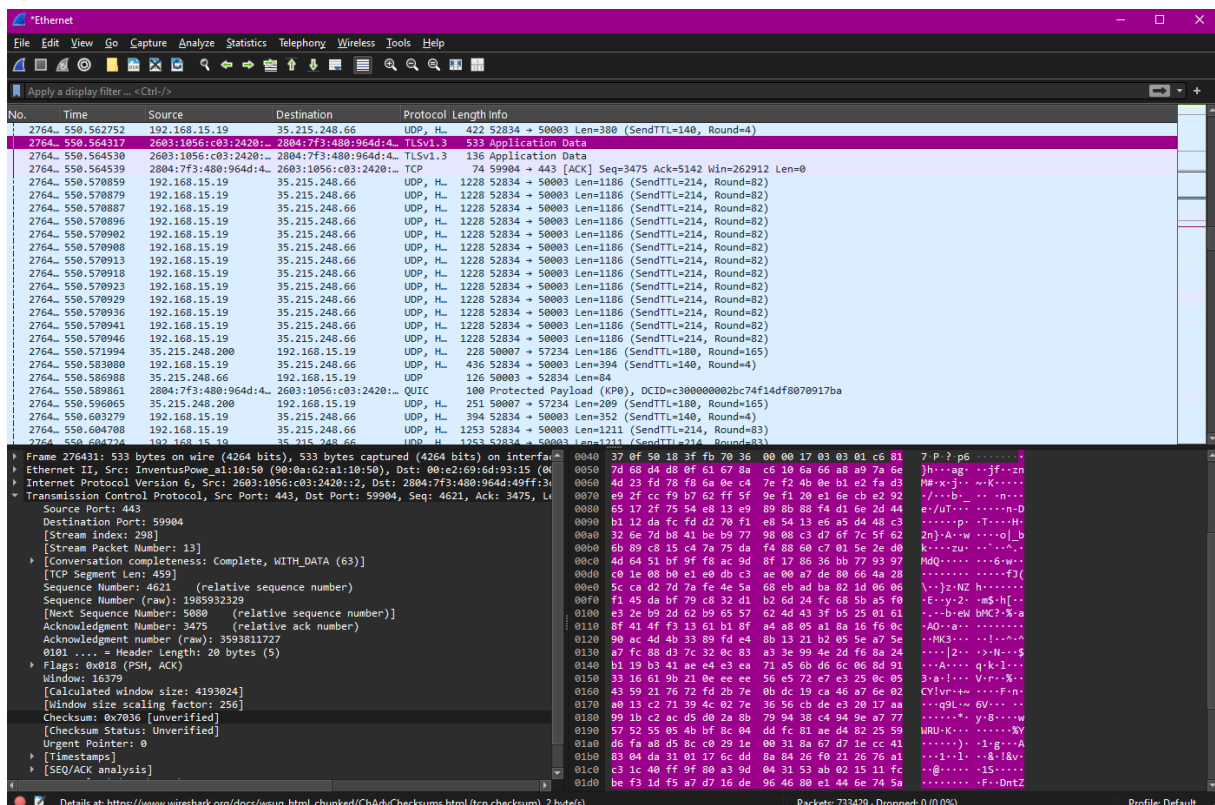Figura 4 – Tela de interface durante recebimento de pacotes

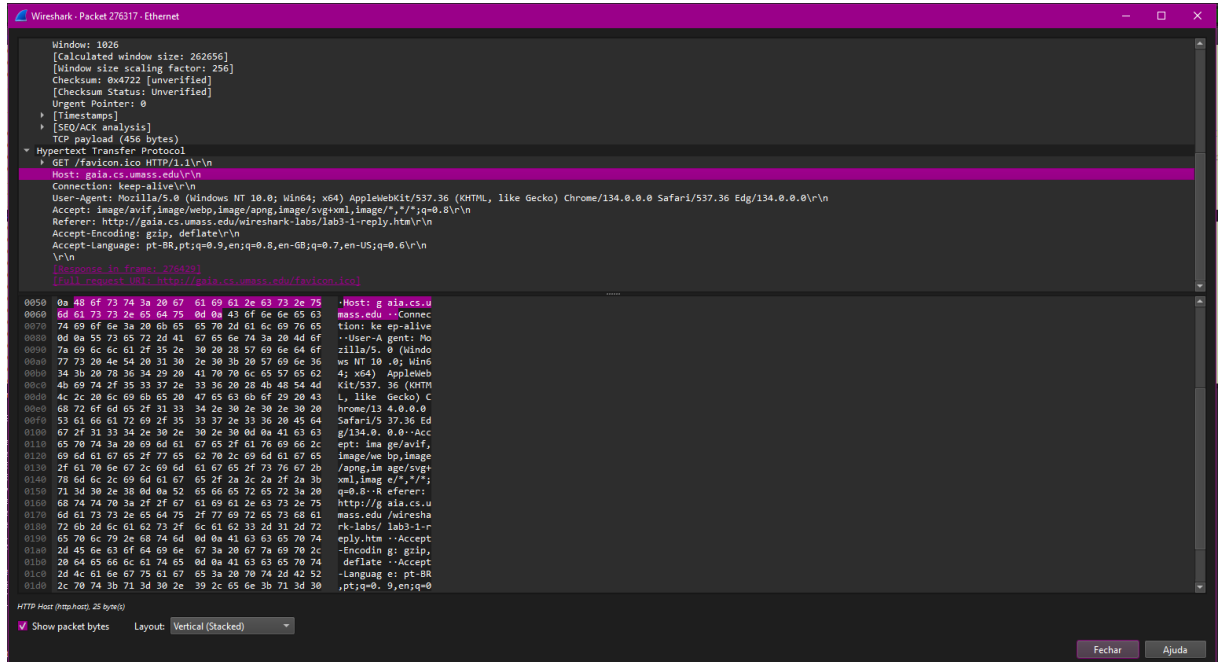Figura 5 – Entrando em contato com servidor HTTP Gaia.cs.Umas

Figura 6 – Mostrando informações das mensagens

4) Objetivo Lab do Wireshark:
1. Os protocolos que recebi que foram: HTTP, QUIC, TCP, UDP, entre outros.
2. O tempo de resposta do GET até o OK foram 159,543 milissegundos
3. O endereço de internet do site **"gaia.cs.umass.edu"** é **128.119.245.12** e o endereço de internet do meu computador é **"192.168.15.19"**
4. HTTP (GET e OK)

Figura 7– Impressão da mensagem HTTP GET E HTTP OK

```
No.     Time                    Source              Destination         Protocol Length Info
 19944 2025-04-04 01:26:25,474810   192.168.15.19       128.119.245.12      HTTP     542    GET /kurose_ross/index.php HTTP/
1.1
Frame 19944: 542 bytes on wire (4336 bits), 542 bytes captured (4336 bits) on interface \Device\NPF_{F1FBD162-0D3B-4367-AC0D-
F7BFC543527D}, id 0
Ethernet II, Src: 00:e2:69:6d:93:15 (00:e2:69:6d:93:15), Dst: InventusPowe_a1:10:50 (90:0a:62:a1:10:50)
Internet Protocol Version 4, Src: 192.168.15.19, Dst: 128.119.245.12
Transmission Control Protocol, Src Port: 61262, Dst Port: 80, Seq: 480, Ack: 597, Len: 488
    Source Port: 61262
    Destination Port: 80
    [Stream index: 152]
    [Stream Packet Number: 7]
    [Conversation completeness: Complete, WITH_DATA (31)]
    [TCP Segment Len: 488]
    Sequence Number: 480     (relative sequence number)
    Sequence Number (raw): 2267241744
    [Next Sequence Number: 968     (relative sequence number)]
    Acknowledgment Number: 597     (relative ack number)
    Acknowledgment number (raw): 124789091
    0101 .... = Header Length: 20 bytes (5)
    Flags: 0x018 (PSH, ACK)
    Window: 1027
    [Calculated window size: 262912]
    [Window size scaling factor: 256]
    Checksum: 0x4742 [unverified]
    [Checksum Status: Unverified]
    Urgent Pointer: 0
    [Timestamps]
    [SEQ/ACK analysis]
    TCP payload (488 bytes)
Hypertext Transfer Protocol
No.     Time                    Source              Destination         Protocol Length Info
 19955 2025-04-04 01:26:25,634353   128.119.245.12      192.168.15.19       HTTP     222    HTTP/1.1 200 OK  (text/html)
Frame 19955: 222 bytes on wire (1776 bits), 222 bytes captured (1776 bits) on interface \Device\NPF_{F1FBD162-0D3B-4367-AC0D-
F7BFC543527D}, id 0
Ethernet II, Src: InventusPowe_a1:10:50 (90:0a:62:a1:10:50), Dst: 00:e2:69:6d:93:15 (00:e2:69:6d:93:15)
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.15.19
Transmission Control Protocol, Src Port: 80, Dst Port: 61262, Seq: 7797, Ack: 968, Len: 168
    Source Port: 80
    Destination Port: 61262
    [Stream index: 152]
    [Stream Packet Number: 15]
    [Conversation completeness: Complete, WITH_DATA (31)]
    [TCP Segment Len: 168]
    Sequence Number: 7797     (relative sequence number)
    Sequence Number (raw): 124796291
    [Next Sequence Number: 7965     (relative sequence number)]
    Acknowledgment Number: 968     (relative ack number)
    Acknowledgment number (raw): 2267242232
    0101 .... = Header Length: 20 bytes (5)
    Flags: 0x018 (PSH, ACK)
    Window: 245
    [Calculated window size: 31360]
    [Window size scaling factor: 128]
    Checksum: 0xf6a2 [unverified]
    [Checksum Status: Unverified]
    Urgent Pointer: 0
    [Timestamps]
    [SEQ/ACK analysis]
    TCP payload (168 bytes)
    TCP segment data (168 bytes)
[6 Reassembled TCP Segments (7368 bytes): #19948(1440), #19949(1440), #19950(1440), #19952(1440), #19954(1440), #19955(168)]
Hypertext Transfer Protocol
Line-based text data: text/html (124 lines)
```