	Domanda	***N. frame***	***Risposta***
1	Indica l'indirizzo IP www.cnr.it		
2	Indica la Window Size lato sorgente dell'inizio della connessione HTTP		
3	Indica il Max Segment Size del collegamento iniziale della connessione web lato destinatario		
4	Indica l'indirizzo IP di barbara_re_Amministrazione.Unicam		
5	Indirizzo MAC di 90.147.42.76		
6	Indica il Max Segment Size del collegamento iniziale della connessione web lato sorgente		
7	Indica la porta sorgente della chiusura della connessione		
8	Indica i bits on wire della response HTTP		
9	Indica quali sono i flag della GET HTTP/1.1 200 OK		
10	Indica l'RTT della GET HTTP/1.1 200 OK		
11	Indica l'indirizzo MAC di AsustekC_40:F0:E5		
12	Indica la frame length della response HTTP		
13	Indica la porta destinazione della query DNS a ogs.google.com		
14	Indica la Window Size del collegamento con source port 60307		
15	Indica l'indirizzo IP di plus.l.google.com		
16	Indica SOA amministrazione Unicam		
17	Indica il SeqNumber della reset TCP		
18	Indica data bytes della request ICMP		
19	Indica i flags della reset		
20	Indica il frame length della [RST,ACK] in bits		
21	Indica il Type della request ping		
22	Indica le Options dell'apertura del collegamento web		
23	Indica il ttl della reply ICMP con destinazione 90.147.42.76		

```
No.     Time           Source                Destination           Protocol Length Info
      2 0.137851       AsustekC_40:f0:e5     RealtekS_68:08:10     ARP      60     Who has 90.147.42.76? Tell
90.147.42.74

Frame 2: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0
Ethernet II, Src: AsustekC_40:f0:e5 (0c:9d:92:40:f0:e5), Dst: RealtekS_68:08:10 (00:e0:4c:68:08:10)
Address Resolution Protocol (request)

No.     Time           Source                Destination           Protocol Length Info
      3 0.137889       RealtekS_68:08:10     AsustekC_40:f0:e5     ARP      42     90.147.42.76 is at 00:e0:4c:68:08:10

Frame 3: 42 bytes on wire (336 bits), 42 bytes captured (336 bits) on interface 0
Ethernet II, Src: RealtekS_68:08:10 (00:e0:4c:68:08:10), Dst: AsustekC_40:f0:e5 (0c:9d:92:40:f0:e5)
Address Resolution Protocol (reply)

No.     Time           Source                Destination           Protocol Length Info
      9 1.037201       90.147.42.76          193.204.8.33          DNS      74     Standard query 0x6f11 A
ogs.google.com

Frame 9: 74 bytes on wire (592 bits), 74 bytes captured (592 bits) on interface 0
Ethernet II, Src: RealtekS_68:08:10 (00:e0:4c:68:08:10), Dst: 10:b3:d5:e2:b4:5f (10:b3:d5:e2:b4:5f)
Internet Protocol Version 4, Src: 90.147.42.76, Dst: 193.204.8.33
User Datagram Protocol, Src Port: 55093, Dst Port: 53
Domain Name System (query)


No.     Time           Source                Destination           Protocol Length Info
     10 1.037898       193.204.8.33          90.147.42.76          DNS      111    Standard query response 0x6f11 A
ogs.google.com CNAME www3.l.google.com A 216.58.208.174

Frame 10: 111 bytes on wire (888 bits), 111 bytes captured (888 bits) on interface 0
    Interface id: 0 (\Device\NPF_{207109C1-BF63-403F-A650-81E15042CBEC})
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan 14, 2020 10:54:29.813813000 ora solare Europa occidentale
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1578995669.813813000 seconds
    [Time delta from previous captured frame: 0.000697000 seconds]
    [Time delta from previous displayed frame: 0.000697000 seconds]
    [Time since reference or first frame: 1.037898000 seconds]
    Frame Number: 10
    Frame Length: 111 bytes (888 bits)
    Capture Length: 111 bytes (888 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:dns]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: 10:b3:d5:e2:b4:5f (10:b3:d5:e2:b4:5f), Dst: RealtekS_68:08:10 (00:e0:4c:68:08:10)
Internet Protocol Version 4, Src: 193.204.8.33, Dst: 90.147.42.76
User Datagram Protocol, Src Port: 53, Dst Port: 55093
Domain Name System (response)

No.     Time           Source                Destination           Protocol Length Info
     11 1.234122       90.147.42.76          216.58.206.67         TCP      66     60321 → 443 [SYN] Seq=0 Win=64240
Len=0 MSS=1460 WS=256 SACK_PERM=1

Frame 11: 66 bytes on wire (528 bits), 66 bytes captured (528 bits) on interface 0
    Interface id: 0 (\Device\NPF_{207109C1-BF63-403F-A650-81E15042CBEC})
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan 14, 2020 10:54:30.010037000 ora solare Europa occidentale
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1578995670.010037000 seconds
    [Time delta from previous captured frame: 0.196224000 seconds]
    [Time delta from previous displayed frame: 0.196224000 seconds]
    [Time since reference or first frame: 1.234122000 seconds]
    Frame Number: 11
    Frame Length: 66 bytes (528 bits)
    Capture Length: 66 bytes (528 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:tcp]
    [Coloring Rule Name: TCP SYN/FIN]
    [Coloring Rule String: tcp.flags & 0x02 || tcp.flags.fin == 1]
Ethernet II, Src: RealtekS_68:08:10 (00:e0:4c:68:08:10), Dst: 10:b3:d5:e2:b4:5f (10:b3:d5:e2:b4:5f)
```

```
Internet Protocol Version 4, Src: 90.147.42.76, Dst: 216.58.206.67
Transmission Control Protocol, Src Port: 60321, Dst Port: 443, Seq: 0, Len: 0
    Source Port: 60321
    Destination Port: 443
    [Stream index: 0]
    [TCP Segment Len: 0]
    Sequence number: 0    (relative sequence number)
    [Next sequence number: 0    (relative sequence number)]
    Acknowledgment number: 0
    1000 .... = Header Length: 32 bytes (8)
    Flags: 0x002 (SYN)
        000. .... .... = Reserved: Not set
        ...0 .... .... = Nonce: Not set
        .... 0... .... = Congestion Window Reduced (CWR): Not set
        .... .0.. .... = ECN-Echo: Not set
        .... ..0. .... = Urgent: Not set
        .... ...0 .... = Acknowledgment: Not set
        .... .... 0... = Push: Not set
        .... .... .0.. = Reset: Not set
        .... .... ..1. = Syn: Set
        .... .... ...0 = Fin: Not set
        [TCP Flags: ··········S·]
    Window size value: 64240
    [Calculated window size: 64240]
    Checksum: 0x2b84 [unverified]
    [Checksum Status: Unverified]
    Urgent pointer: 0
    Options: (12 bytes), Maximum segment size, No-Operation (NOP), Window scale, No-Operation (NOP), No-Operation
(NOP), SACK permitted
        TCP Option - Maximum segment size: 1460 bytes
        TCP Option - No-Operation (NOP)
        TCP Option - Window scale: 8 (multiply by 256)
        TCP Option - No-Operation (NOP)
        TCP Option - No-Operation (NOP)
        TCP Option - SACK permitted
    [Timestamps]
        [Time since first frame in this TCP stream: 0.000000000 seconds]
        [Time since previous frame in this TCP stream: 0.000000000 seconds]

No.     Time           Source                Destination           Protocol Length Info
     12 1.234484       90.147.42.76          193.204.8.33          DNS      75     Standard query 0x8a9c A
apis.google.com

Frame 12: 75 bytes on wire (600 bits), 75 bytes captured (600 bits) on interface 0
    Interface id: 0 (\Device\NPF_{207109C1-BF63-403F-A650-81E15042CBEC})
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan 14, 2020 10:54:30.010399000 ora solare Europa occidentale
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1578995670.010399000 seconds
    [Time delta from previous captured frame: 0.000362000 seconds]
    [Time delta from previous displayed frame: 0.000362000 seconds]
    [Time since reference or first frame: 1.234484000 seconds]
    Frame Number: 12
    Frame Length: 75 bytes (600 bits)
    Capture Length: 75 bytes (600 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:dns]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: RealtekS_68:08:10 (00:e0:4c:68:08:10), Dst: 10:b3:d5:e2:b4:5f (10:b3:d5:e2:b4:5f)
Internet Protocol Version 4, Src: 90.147.42.76, Dst: 193.204.8.33
User Datagram Protocol, Src Port: 61456, Dst Port: 53
Domain Name System (query)

No.     Time           Source                Destination           Protocol Length Info
     14 1.235172       193.204.8.33          90.147.42.76          DNS      112    Standard query response 0x8a9c A
apis.google.com CNAME plus.l.google.com A 172.217.21.78

Frame 14: 112 bytes on wire (896 bits), 112 bytes captured (896 bits) on interface 0
    Interface id: 0 (\Device\NPF_{207109C1-BF63-403F-A650-81E15042CBEC})
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan 14, 2020 10:54:30.011087000 ora solare Europa occidentale
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1578995670.011087000 seconds
```

```
    [Time delta from previous captured frame: 0.000353000 seconds]
    [Time delta from previous displayed frame: 0.000353000 seconds]
    [Time since reference or first frame: 1.235172000 seconds]
    Frame Number: 14
    Frame Length: 112 bytes (896 bits)
    Capture Length: 112 bytes (896 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:dns]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: 10:b3:d5:e2:b4:5f (10:b3:d5:e2:b4:5f), Dst: RealtekS_68:08:10 (00:e0:4c:68:08:10)
Internet Protocol Version 4, Src: 193.204.8.33, Dst: 90.147.42.76
User Datagram Protocol, Src Port: 53, Dst Port: 61456
Domain Name System (response)

No.     Time           Source                Destination           Protocol Length Info
     16 1.252435       216.58.206.67         90.147.42.76          TCP      66     443 → 60321 [SYN, ACK] Seq=0 Ack=1
Win=60720 Len=0 MSS=1380 SACK_PERM=1 WS=256

Frame 16: 66 bytes on wire (528 bits), 66 bytes captured (528 bits) on interface 0
    Interface id: 0 (\Device\NPF_{207109C1-BF63-403F-A650-81E15042CBEC})
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan 14, 2020 10:54:30.028350000 ora solare Europa occidentale
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1578995670.028350000 seconds
    [Time delta from previous captured frame: 0.006640000 seconds]
    [Time delta from previous displayed frame: 0.006640000 seconds]
    [Time since reference or first frame: 1.252435000 seconds]
    Frame Number: 16
    Frame Length: 66 bytes (528 bits)
    Capture Length: 66 bytes (528 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:tcp]
    [Coloring Rule Name: TCP SYN/FIN]
    [Coloring Rule String: tcp.flags & 0x02 || tcp.flags.fin == 1]
Ethernet II, Src: 10:b3:d5:e2:b4:5f (10:b3:d5:e2:b4:5f), Dst: RealtekS_68:08:10 (00:e0:4c:68:08:10)
Internet Protocol Version 4, Src: 216.58.206.67, Dst: 90.147.42.76
Transmission Control Protocol, Src Port: 443, Dst Port: 60321, Seq: 0, Ack: 1, Len: 0
    Source Port: 443
    Destination Port: 60321
    [Stream index: 0]
    [TCP Segment Len: 0]
    Sequence number: 0    (relative sequence number)
    [Next sequence number: 0    (relative sequence number)]
    Acknowledgment number: 1    (relative ack number)
    1000 .... = Header Length: 32 bytes (8)
    Flags: 0x012 (SYN, ACK)
        000. .... .... = Reserved: Not set
        ...0 .... .... = Nonce: Not set
        .... 0... .... = Congestion Window Reduced (CWR): Not set
        .... .0.. .... = ECN-Echo: Not set
        .... ..0. .... = Urgent: Not set
        .... ...1 .... = Acknowledgment: Set
        .... .... 0... = Push: Not set
        .... .... .0.. = Reset: Not set
        .... .... ..1. = Syn: Set
        .... .... ...0 = Fin: Not set
        [TCP Flags: ·····A··S·]
    Window size value: 60720
    [Calculated window size: 60720]
    Checksum: 0x409a [unverified]
    [Checksum Status: Unverified]
    Urgent pointer: 0
    Options: (12 bytes), Maximum segment size, No-Operation (NOP), No-Operation (NOP), SACK permitted, No-Operation
(NOP), Window scale
        TCP Option - Maximum segment size: 1380 bytes
        TCP Option - No-Operation (NOP)
        TCP Option - No-Operation (NOP)
        TCP Option - SACK permitted
        TCP Option - No-Operation (NOP)
        TCP Option - Window scale: 8 (multiply by 256)
    [SEQ/ACK analysis]
        [This is an ACK to the segment in frame: 11]
```

```
        [The RTT to ACK the segment was: 0.018313000 seconds]
        [iRTT: 0.018696000 seconds]
    [Timestamps]
        [Time since first frame in this TCP stream: 0.018313000 seconds]
        [Time since previous frame in this TCP stream: 0.018313000 seconds]

No.     Time           Source                Destination           Protocol Length Info
     67 2.017592       Cisco_88:5c:8d        Spanning-tree-(for-bridges)_00 STP      119    MST. Root =
0/0/10:b3:d5:e2:b3:c0  Cost = 0  Port = 0x800d

Frame 67: 119 bytes on wire (952 bits), 119 bytes captured (952 bits) on interface 0
    Interface id: 0 (\Device\NPF_{207109C1-BF63-403F-A650-81E15042CBEC})
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan 14, 2020 10:54:30.793507000 ora solare Europa occidentale
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1578995670.793507000 seconds
    [Time delta from previous captured frame: 0.320089000 seconds]
    [Time delta from previous displayed frame: 0.320089000 seconds]
    [Time since reference or first frame: 2.017592000 seconds]
    Frame Number: 67
    Frame Length: 119 bytes (952 bits)
    Capture Length: 119 bytes (952 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:llc:stp]
    [Coloring Rule Name: Broadcast]
    [Coloring Rule String: eth[0] & 1]
IEEE 802.3 Ethernet
Logical-Link Control
    DSAP: Spanning Tree BPDU (0x42)
    SSAP: Spanning Tree BPDU (0x42)
    Control field: U, func=UI (0x03)
Spanning Tree Protocol
    Protocol Identifier: Spanning Tree Protocol (0x0000)
    Protocol Version Identifier: Multiple Spanning Tree (3)
    BPDU Type: Rapid/Multiple Spanning Tree (0x02)
    BPDU flags: 0x3c, Forwarding, Learning, Port Role: Designated
        0... .... = Topology Change Acknowledgment: No
        .0.. .... = Agreement: No
        ..1. .... = Forwarding: Yes
        ...1 .... = Learning: Yes
        .... 11.. = Port Role: Designated (3)
        .... ..0. = Proposal: No
        .... ...0 = Topology Change: No
    Root Identifier: 0 / 0 / 10:b3:d5:e2:b3:c0
    Root Path Cost: 0
    Bridge Identifier: 0 / 0 / 10:b3:d5:e2:b3:c0
        Bridge Priority: 0
        Bridge System ID Extension: 0
        Bridge System ID: 10:b3:d5:e2:b3:c0 (10:b3:d5:e2:b3:c0)
    Port identifier: 0x800d
    Message Age: 0
    Max Age: 20
    Hello Time: 2
    Forward Delay: 15
    Version 1 Length: 0
    Version 3 Length: 64
    MST Extension
        MST Config ID format selector: 0
        MST Config name: CAMPUS
        MST Config revision: 1
        MST Config digest: 1e47a0de751df97c35aece44000dfc40
        CIST Internal Root Path Cost: 40000
        CIST Bridge Identifier: 32768 / 0 / e8:ed:f3:88:5c:80
        CIST Remaining hops: 18

No.     Time           Source                Destination           Protocol Length Info
    244 5.083023       193.204.8.33          90.147.42.76          DNS      161    Standard query response 0x54f2 No
such name A wpad.Amministrazione.Unicam SOA galadriel.amministrazione.unicam

Frame 244: 161 bytes on wire (1288 bits), 161 bytes captured (1288 bits) on interface 0
    Interface id: 0 (\Device\NPF_{207109C1-BF63-403F-A650-81E15042CBEC})
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan 14, 2020 10:54:33.858938000 ora solare Europa occidentale
    [Time shift for this packet: 0.000000000 seconds]
```

```
    Epoch Time: 1578995673.858938000 seconds
    [Time delta from previous captured frame: 0.000430000 seconds]
    [Time delta from previous displayed frame: 0.000430000 seconds]
    [Time since reference or first frame: 5.083023000 seconds]
    Frame Number: 244
    Frame Length: 161 bytes (1288 bits)
    Capture Length: 161 bytes (1288 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:dns]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: 10:b3:d5:e2:b4:5f (10:b3:d5:e2:b4:5f), Dst: RealtekS_68:08:10 (00:e0:4c:68:08:10)
Internet Protocol Version 4, Src: 193.204.8.33, Dst: 90.147.42.76
User Datagram Protocol, Src Port: 53, Dst Port: 52186
Domain Name System (response)

No.     Time           Source                Destination           Protocol Length Info
    648 8.255020       90.147.42.76          216.58.206.67         TCP      54     60307 → 443 [FIN, ACK] Seq=1 Ack=1
Win=512 Len=0

Frame 648: 54 bytes on wire (432 bits), 54 bytes captured (432 bits) on interface 0
    Interface id: 0 (\Device\NPF_{207109C1-BF63-403F-A650-81E15042CBEC})
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan 14, 2020 10:54:37.030935000 ora solare Europa occidentale
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1578995677.030935000 seconds
    [Time delta from previous captured frame: 0.110288000 seconds]
    [Time delta from previous displayed frame: 0.110288000 seconds]
    [Time since reference or first frame: 8.255020000 seconds]
    Frame Number: 648
    Frame Length: 54 bytes (432 bits)
    Capture Length: 54 bytes (432 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:tcp]
    [Coloring Rule Name: TCP SYN/FIN]
    [Coloring Rule String: tcp.flags & 0x02 || tcp.flags.fin == 1]
Ethernet II, Src: RealtekS_68:08:10 (00:e0:4c:68:08:10), Dst: 10:b3:d5:e2:b4:5f (10:b3:d5:e2:b4:5f)
Internet Protocol Version 4, Src: 90.147.42.76, Dst: 216.58.206.67
Transmission Control Protocol, Src Port: 60307, Dst Port: 443, Seq: 1, Ack: 1, Len: 0
    Source Port: 60307
    Destination Port: 443
    [Stream index: 15]
    [TCP Segment Len: 0]
    Sequence number: 1    (relative sequence number)
    [Next sequence number: 1    (relative sequence number)]
    Acknowledgment number: 1    (relative ack number)
    0101 .... = Header Length: 20 bytes (5)
    Flags: 0x011 (FIN, ACK)
        000. .... .... = Reserved: Not set
        ...0 .... .... = Nonce: Not set
        .... 0... .... = Congestion Window Reduced (CWR): Not set
        .... .0.. .... = ECN-Echo: Not set
        .... ..0. .... = Urgent: Not set
        .... ...1 .... = Acknowledgment: Set
        .... .... 0... = Push: Not set
        .... .... .0.. = Reset: Not set
        .... .... ..0. = Syn: Not set
        .... .... ...1 = Fin: Set
        [TCP Flags: ·····A···F]
    Window size value: 512
    [Calculated window size: 512]
    [Window size scaling factor: -1 (unknown)]
    Checksum: 0x2b78 [unverified]
    [Checksum Status: Unverified]
    Urgent pointer: 0
    [Timestamps]
        [Time since first frame in this TCP stream: 0.000000000 seconds]
        [Time since previous frame in this TCP stream: 0.000000000 seconds]

No.     Time           Source                Destination           Protocol Length Info
    649 8.274646       216.58.206.67         90.147.42.76          TCP      60     443 → 60307 [FIN, ACK] Seq=1 Ack=2
Win=242 Len=0
```

```
Frame 649: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0
    Interface id: 0 (\Device\NPF_{207109C1-BF63-403F-A650-81E15042CBEC})
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan 14, 2020 10:54:37.050561000 ora solare Europa occidentale
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1578995677.050561000 seconds
    [Time delta from previous captured frame: 0.019626000 seconds]
    [Time delta from previous displayed frame: 0.019626000 seconds]
    [Time since reference or first frame: 8.274646000 seconds]
    Frame Number: 649
    Frame Length: 60 bytes (480 bits)
    Capture Length: 60 bytes (480 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:tcp]
    [Coloring Rule Name: TCP SYN/FIN]
    [Coloring Rule String: tcp.flags & 0x02 || tcp.flags.fin == 1]
Ethernet II, Src: 10:b3:d5:e2:b4:5f (10:b3:d5:e2:b4:5f), Dst: RealtekS_68:08:10 (00:e0:4c:68:08:10)
Internet Protocol Version 4, Src: 216.58.206.67, Dst: 90.147.42.76
Transmission Control Protocol, Src Port: 443, Dst Port: 60307, Seq: 1, Ack: 2, Len: 0
    Source Port: 443
    Destination Port: 60307
    [Stream index: 15]
    [TCP Segment Len: 0]
    Sequence number: 1    (relative sequence number)
    [Next sequence number: 1    (relative sequence number)]
    Acknowledgment number: 2    (relative ack number)
    0101 .... = Header Length: 20 bytes (5)
    Flags: 0x011 (FIN, ACK)
        000. .... .... = Reserved: Not set
        ...0 .... .... = Nonce: Not set
        .... 0... .... = Congestion Window Reduced (CWR): Not set
        .... .0.. .... = ECN-Echo: Not set
        .... ..0. .... = Urgent: Not set
        .... ...1 .... = Acknowledgment: Set
        .... .... 0... = Push: Not set
        .... .... .0.. = Reset: Not set
        .... .... ..0. = Syn: Not set
        .... .... ...1 = Fin: Set
        [TCP Flags: ·····A···F]
    Window size value: 242
    [Calculated window size: 242]
    [Window size scaling factor: -1 (unknown)]
    Checksum: 0x9bf8 [unverified]
    [Checksum Status: Unverified]
    Urgent pointer: 0
    [SEQ/ACK analysis]
        [This is an ACK to the segment in frame: 648]
        [The RTT to ACK the segment was: 0.019626000 seconds]
    [Timestamps]
        [Time since first frame in this TCP stream: 0.019626000 seconds]
        [Time since previous frame in this TCP stream: 0.019626000 seconds]

No.     Time           Source                Destination           Protocol Length Info
    650 8.274747       90.147.42.76          216.58.206.67         TCP      54     60307 → 443 [ACK] Seq=2 Ack=2
Win=512 Len=0

Frame 650: 54 bytes on wire (432 bits), 54 bytes captured (432 bits) on interface 0
Ethernet II, Src: RealtekS_68:08:10 (00:e0:4c:68:08:10), Dst: 10:b3:d5:e2:b4:5f (10:b3:d5:e2:b4:5f)
Internet Protocol Version 4, Src: 90.147.42.76, Dst: 216.58.206.67
Transmission Control Protocol, Src Port: 60307, Dst Port: 443, Seq: 2, Ack: 2, Len: 0

No.     Time           Source                Destination           Protocol Length Info
    656 8.528517       90.147.42.76          13.107.3.128          TCP      54     60346 → 443 [RST, ACK] Seq=980
Ack=7333 Win=0 Len=0

Frame 656: 54 bytes on wire (432 bits), 54 bytes captured (432 bits) on interface 0
    Interface id: 0 (\Device\NPF_{207109C1-BF63-403F-A650-81E15042CBEC})
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan 14, 2020 10:54:37.304432000 ora solare Europa occidentale
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1578995677.304432000 seconds
    [Time delta from previous captured frame: 0.100821000 seconds]
    [Time delta from previous displayed frame: 0.100821000 seconds]
    [Time since reference or first frame: 8.528517000 seconds]
```

```
    Frame Number: 656
    Frame Length: 54 bytes (432 bits)
    Capture Length: 54 bytes (432 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:tcp]
    [Coloring Rule Name: TCP RST]
    [Coloring Rule String: tcp.flags.reset eq 1]
Ethernet II, Src: RealtekS_68:08:10 (00:e0:4c:68:08:10), Dst: 10:b3:d5:e2:b4:5f (10:b3:d5:e2:b4:5f)
Internet Protocol Version 4, Src: 90.147.42.76, Dst: 13.107.3.128
Transmission Control Protocol, Src Port: 60346, Dst Port: 443, Seq: 980, Ack: 7333, Len: 0
    Source Port: 60346
    Destination Port: 443
    [Stream index: 14]
    [TCP Segment Len: 0]
    Sequence number: 980    (relative sequence number)
    [Next sequence number: 980    (relative sequence number)]
    Acknowledgment number: 7333    (relative ack number)
    0101 .... = Header Length: 20 bytes (5)
    Flags: 0x014 (RST, ACK)
        000. .... .... = Reserved: Not set
        ...0 .... .... = Nonce: Not set
        .... 0... .... = Congestion Window Reduced (CWR): Not set
        .... .0.. .... = ECN-Echo: Not set
        .... ..0. .... = Urgent: Not set
        .... ...1 .... = Acknowledgment: Set
        .... .... 0... = Push: Not set
        .... .... .1.. = Reset: Set
        .... .... ..0. = Syn: Not set
        .... .... ...0 = Fin: Not set
        [TCP Flags: ·····A·R··]
    Window size value: 0
    [Calculated window size: 0]
    [Window size scaling factor: 256]
    Checksum: 0x95e4 [unverified]
    [Checksum Status: Unverified]
    Urgent pointer: 0
    [Timestamps]
        [Time since first frame in this TCP stream: 1.006794000 seconds]
        [Time since previous frame in this TCP stream: 0.774064000 seconds]

No.     Time           Source                Destination           Protocol Length Info
    657 8.592023       90.147.42.76          193.204.8.33          DNS      94     Standard query 0xb707 A
barbara_re_.Amministrazione.Unicam

Frame 657: 94 bytes on wire (752 bits), 94 bytes captured (752 bits) on interface 0
    Interface id: 0 (\Device\NPF_{207109C1-BF63-403F-A650-81E15042CBEC})
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan 14, 2020 10:54:37.367938000 ora solare Europa occidentale
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1578995677.367938000 seconds
    [Time delta from previous captured frame: 0.063506000 seconds]
    [Time delta from previous displayed frame: 0.063506000 seconds]
    [Time since reference or first frame: 8.592023000 seconds]
    Frame Number: 657
    Frame Length: 94 bytes (752 bits)
    Capture Length: 94 bytes (752 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:dns]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: RealtekS_68:08:10 (00:e0:4c:68:08:10), Dst: 10:b3:d5:e2:b4:5f (10:b3:d5:e2:b4:5f)
Internet Protocol Version 4, Src: 90.147.42.76, Dst: 193.204.8.33
User Datagram Protocol, Src Port: 51592, Dst Port: 53
Domain Name System (query)

No.     Time           Source                Destination           Protocol Length Info
    658 8.592442       193.204.8.33          90.147.42.76          DNS      168    Standard query response 0xb707 No
such name A barbara_re_.Amministrazione.Unicam SOA galadriel.amministrazione.unicam

Frame 658: 168 bytes on wire (1344 bits), 168 bytes captured (1344 bits) on interface 0
    Interface id: 0 (\Device\NPF_{207109C1-BF63-403F-A650-81E15042CBEC})
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan 14, 2020 10:54:37.368357000 ora solare Europa occidentale
```

```
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1578995677.368357000 seconds
    [Time delta from previous captured frame: 0.000419000 seconds]
    [Time delta from previous displayed frame: 0.000419000 seconds]
    [Time since reference or first frame: 8.592442000 seconds]
    Frame Number: 658
    Frame Length: 168 bytes (1344 bits)
    Capture Length: 168 bytes (1344 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:dns]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: 10:b3:d5:e2:b4:5f (10:b3:d5:e2:b4:5f), Dst: RealtekS_68:08:10 (00:e0:4c:68:08:10)
Internet Protocol Version 4, Src: 193.204.8.33, Dst: 90.147.42.76
User Datagram Protocol, Src Port: 53, Dst Port: 51592
Domain Name System (response)

No.     Time           Source                Destination           Protocol Length Info
    890 11.245312      90.147.42.76          193.204.8.33          ICMP     74     Echo (ping) request  id=0x00dd,
seq=41457/61857, ttl=128 (reply in 891)

Frame 890: 74 bytes on wire (592 bits), 74 bytes captured (592 bits) on interface 0
    Interface id: 0 (\Device\NPF_{207109C1-BF63-403F-A650-81E15042CBEC})
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan 14, 2020 10:54:40.021227000 ora solare Europa occidentale
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1578995680.021227000 seconds
    [Time delta from previous captured frame: 0.237687000 seconds]
    [Time delta from previous displayed frame: 0.237687000 seconds]
    [Time since reference or first frame: 11.245312000 seconds]
    Frame Number: 890
    Frame Length: 74 bytes (592 bits)
    Capture Length: 74 bytes (592 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:icmp:data]
    [Coloring Rule Name: ICMP]
    [Coloring Rule String: icmp || icmpv6]
Ethernet II, Src: RealtekS_68:08:10 (00:e0:4c:68:08:10), Dst: 10:b3:d5:e2:b4:5f (10:b3:d5:e2:b4:5f)
Internet Protocol Version 4, Src: 90.147.42.76, Dst: 193.204.8.33
Internet Control Message Protocol
    Type: 8 (Echo (ping) request)
    Code: 0
    Checksum: 0x20ed [correct]
    [Checksum Status: Good]
    Identifier (BE): 221 (0x00dd)
    Identifier (LE): 56576 (0xdd00)
    Sequence number (BE): 41457 (0xa1f1)
    Sequence number (LE): 61857 (0xf1a1)
    [Response frame: 891]
    Data (32 bytes)

0000  50 00 49 00 4e 00 47 00 20 00 62 00 79 00 20 00   P.I.N.G. .b.y. .
0010  50 00 52 00 54 00 47 00 20 00 4e 00 20 20 20 20   P.R.T.G. .N.
        Data: 500049004e00470020006200790020005000520054004700…
        [Length: 32]

No.     Time           Source                Destination           Protocol Length Info
    891 11.245832      193.204.8.33          90.147.42.76          ICMP     74     Echo (ping) reply    id=0x00dd,
seq=41457/61857, ttl=127 (request in 890)

Frame 891: 74 bytes on wire (592 bits), 74 bytes captured (592 bits) on interface 0
    Interface id: 0 (\Device\NPF_{207109C1-BF63-403F-A650-81E15042CBEC})
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan 14, 2020 10:54:40.021747000 ora solare Europa occidentale
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1578995680.021747000 seconds
    [Time delta from previous captured frame: 0.000520000 seconds]
    [Time delta from previous displayed frame: 0.000520000 seconds]
    [Time since reference or first frame: 11.245832000 seconds]
    Frame Number: 891
    Frame Length: 74 bytes (592 bits)
    Capture Length: 74 bytes (592 bits)
    [Frame is marked: False]
```

```
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:icmp:data]
    [Coloring Rule Name: ICMP]
    [Coloring Rule String: icmp || icmpv6]
Ethernet II, Src: 10:b3:d5:e2:b4:5f (10:b3:d5:e2:b4:5f), Dst: RealtekS_68:08:10 (00:e0:4c:68:08:10)
Internet Protocol Version 4, Src: 193.204.8.33, Dst: 90.147.42.76
Internet Control Message Protocol
    Type: 0 (Echo (ping) reply)
    Code: 0
    Checksum: 0x28ed [correct]
    [Checksum Status: Good]
    Identifier (BE): 221 (0x00dd)
    Identifier (LE): 56576 (0xdd00)
    Sequence number (BE): 41457 (0xa1f1)
    Sequence number (LE): 61857 (0xf1a1)
    [Request frame: 890]
    [Response time: 0.520 ms]
    Data (32 bytes)

0000  50 00 49 00 4e 00 47 00 20 00 62 00 79 00 20 00   P.I.N.G. .b.y. .
0010  50 00 52 00 54 00 47 00 20 00 4e 00 20 20 20 20   P.R.T.G. .N.
        Data: 500049004e00470020006200790020005000520054004700…
        [Length: 32]

No.     Time           Source                Destination           Protocol Length Info
   3020 25.269044      90.147.42.76          193.204.8.33          DNS      70     Standard query 0x9ffd A www.cnr.it

Frame 3020: 70 bytes on wire (560 bits), 70 bytes captured (560 bits) on interface 0
    Interface id: 0 (\Device\NPF_{207109C1-BF63-403F-A650-81E15042CBEC})
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan 14, 2020 10:54:54.044959000 ora solare Europa occidentale
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1578995694.044959000 seconds
    [Time delta from previous captured frame: 0.078432000 seconds]
    [Time delta from previous displayed frame: 0.078432000 seconds]
    [Time since reference or first frame: 25.269044000 seconds]
    Frame Number: 3020
    Frame Length: 70 bytes (560 bits)
    Capture Length: 70 bytes (560 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:udp:dns]
    [Coloring Rule Name: UDP]
    [Coloring Rule String: udp]
Ethernet II, Src: RealtekS_68:08:10 (00:e0:4c:68:08:10), Dst: 10:b3:d5:e2:b4:5f (10:b3:d5:e2:b4:5f)
Internet Protocol Version 4, Src: 90.147.42.76, Dst: 193.204.8.33
User Datagram Protocol, Src Port: 61926, Dst Port: 53
Domain Name System (query)
No.     Time           Source                Destination           Protocol Length Info
   3021 25.269412      90.147.42.76          193.204.8.33          DNS      79     Standard query 0xbad9 A
www.fmt.isti.cnr.it

Frame 3021: 79 bytes on wire (632 bits), 79 bytes captured (632 bits) on interface 0
Ethernet II, Src: RealtekS_68:08:10 (00:e0:4c:68:08:10), Dst: 10:b3:d5:e2:b4:5f (10:b3:d5:e2:b4:5f)
Internet Protocol Version 4, Src: 90.147.42.76, Dst: 193.204.8.33
User Datagram Protocol, Src Port: 54383, Dst Port: 53
Domain Name System (query)

No.     Time           Source                Destination           Protocol Length Info
   3022 25.269499      90.147.42.76          193.204.8.33          DNS      75     Standard query 0x5415 A
www.isti.cnr.it

Frame 3022: 75 bytes on wire (600 bits), 75 bytes captured (600 bits) on interface 0
Ethernet II, Src: RealtekS_68:08:10 (00:e0:4c:68:08:10), Dst: 10:b3:d5:e2:b4:5f (10:b3:d5:e2:b4:5f)
Internet Protocol Version 4, Src: 90.147.42.76, Dst: 193.204.8.33
User Datagram Protocol, Src Port: 54739, Dst Port: 53
Domain Name System (query)
No.     Time           Source                Destination           Protocol Length Info
   3023 25.269524      193.204.8.33          90.147.42.76          DNS      86     Standard query response 0x9ffd A
www.cnr.it A 150.146.205.11

Frame 3023: 86 bytes on wire (688 bits), 86 bytes captured (688 bits) on interface 0
Ethernet II, Src: 10:b3:d5:e2:b4:5f (10:b3:d5:e2:b4:5f), Dst: RealtekS_68:08:10 (00:e0:4c:68:08:10)
Internet Protocol Version 4, Src: 193.204.8.33, Dst: 90.147.42.76
User Datagram Protocol, Src Port: 53, Dst Port: 61926
```

Domain Name System (response)

```
No.     Time           Source                Destination           Protocol Length Info
   3090 30.434646      90.147.42.76          146.48.84.178         HTTP     575    GET / HTTP/1.1

Frame 3090: 575 bytes on wire (4600 bits), 575 bytes captured (4600 bits) on interface 0
    Interface id: 0 (\Device\NPF_{207109C1-BF63-403F-A650-81E15042CBEC})
    Encapsulation type: Ethernet (1)
    Arrival Time: Jan 14, 2020 10:54:59.210561000 ora solare Europa occidentale
    [Time shift for this packet: 0.000000000 seconds]
    Epoch Time: 1578995699.210561000 seconds
    [Time delta from previous captured frame: 0.000143000 seconds]
    [Time delta from previous displayed frame: 0.000143000 seconds]
    [Time since reference or first frame: 30.434646000 seconds]
    Frame Number: 3090
    Frame Length: 575 bytes (4600 bits)
    Capture Length: 575 bytes (4600 bits)
    [Frame is marked: False]
    [Frame is ignored: False]
    [Protocols in frame: eth:ethertype:ip:tcp:http]
    [Coloring Rule Name: HTTP]
    [Coloring Rule String: http || tcp.port == 80 || http2]
Ethernet II, Src: RealtekS_68:08:10 (00:e0:4c:68:08:10), Dst: 10:b3:d5:e2:b4:5f (10:b3:d5:e2:b4:5f)
Internet Protocol Version 4, Src: 90.147.42.76, Dst: 146.48.84.178
Transmission Control Protocol, Src Port: 60360, Dst Port: 80, Seq: 1, Ack: 1, Len: 521
    Source Port: 60360
    Destination Port: 80
    [Stream index: 30]
    [TCP Segment Len: 521]
    Sequence number: 1    (relative sequence number)
    [Next sequence number: 522    (relative sequence number)]
    Acknowledgment number: 1    (relative ack number)
    0101 .... = Header Length: 20 bytes (5)
    Flags: 0x018 (PSH, ACK)
        000. .... .... = Reserved: Not set
        ...0 .... .... = Nonce: Not set
        .... 0... .... = Congestion Window Reduced (CWR): Not set
        .... .0.. .... = ECN-Echo: Not set
        .... ..0. .... = Urgent: Not set
        .... ...1 .... = Acknowledgment: Set
        .... .... 1... = Push: Set
        .... .... .0.. = Reset: Not set
        .... .... ..0. = Syn: Not set
        .... .... ...0 = Fin: Not set
        [TCP Flags: ·····AP···]
    Window size value: 512
    [Calculated window size: 131072]
    [Window size scaling factor: 256]
    Checksum: 0x6de5 [unverified]
    [Checksum Status: Unverified]
    Urgent pointer: 0
    [SEQ/ACK analysis]
        [iRTT: 0.013026000 seconds]
        [Bytes in flight: 521]
        [Bytes sent since last PSH flag: 521]
    [Timestamps]
        [Time since first frame in this TCP stream: 0.013227000 seconds]
        [Time since previous frame in this TCP stream: 0.000201000 seconds]
    TCP payload (521 bytes)
Hypertext Transfer Protocol
    GET / HTTP/1.1\r\n
    Host: www.learnpad.eu\r\n
    Connection: keep-alive\r\n
    Upgrade-Insecure-Requests: 1\r\n
    User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/79.0.3945.117
Safari/537.36\r\n
    Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8,application/signed-
exchange;v=b3;q=0.9\r\n
    Referer: http://pros.unicam.it:8080/BEBoP-WebUserInterfaces/contentform.jsf\r\n
    Accept-Encoding: gzip, deflate\r\n
    Accept-Language: it-IT,it;q=0.9,en-US;q=0.8,en;q=0.7\r\n
    \r\n
    [Full request URI: http://www.learnpad.eu/]
    [HTTP request 1/15]
```

```
    [Response in frame: 3103]
    [Next request in frame: 3105]


No.     Time           Source                Destination           Protocol Length Info
   3103 30.744576      146.48.84.178         90.147.42.76          HTTP     937    HTTP/1.1 200 OK  (text/html)

Frame 3103: 937 bytes on wire (7496 bits), 937 bytes captured (7496 bits) on interface 0
Ethernet II, Src: 10:b3:d5:e2:b4:5f (10:b3:d5:e2:b4:5f), Dst: RealtekS_68:08:10 (00:e0:4c:68:08:10)
Internet Protocol Version 4, Src: 146.48.84.178, Dst: 90.147.42.76
Transmission Control Protocol, Src Port: 80, Dst Port: 60360, Seq: 5521, Ack: 522, Len: 883
[5 Reassembled TCP Segments (6403 bytes): #3098(1380), #3099(1380), #3101(1380), #3102(1380), #3103(883)]
Hypertext Transfer Protocol
Line-based text data: text/html (652 lines)
```