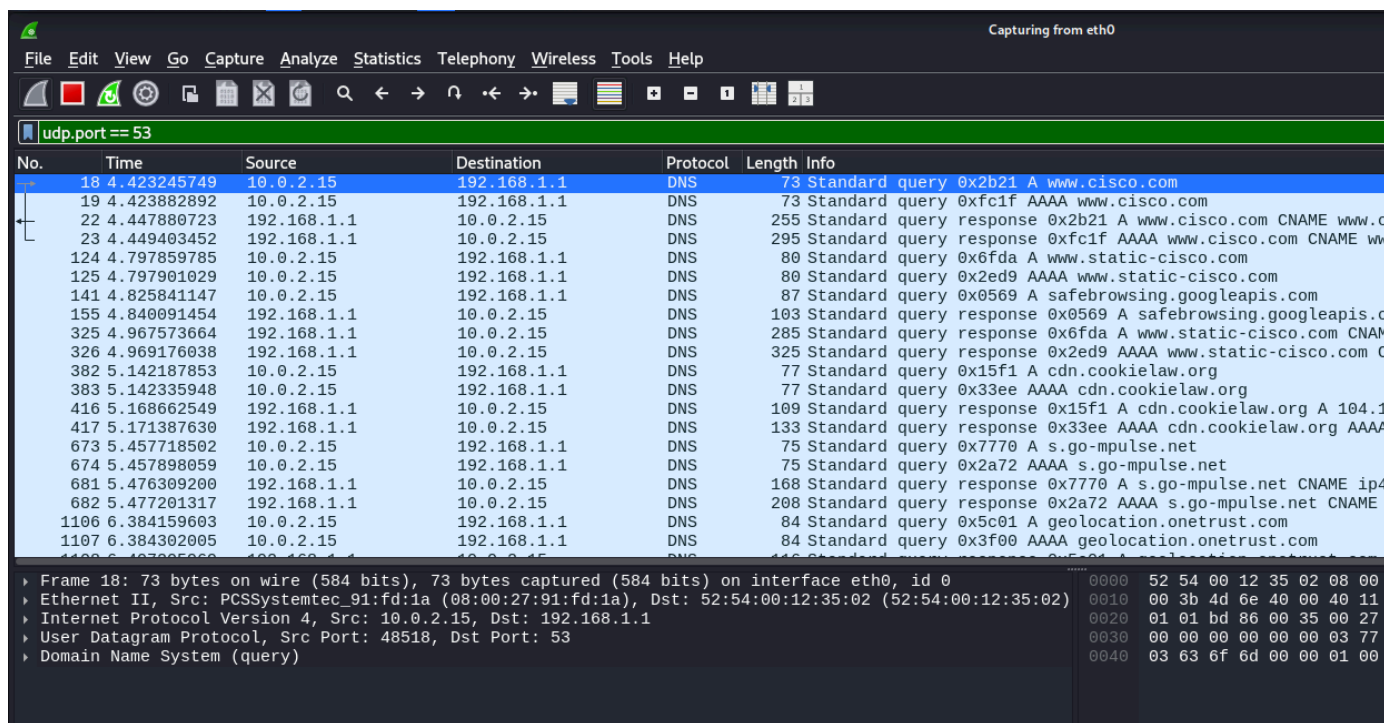
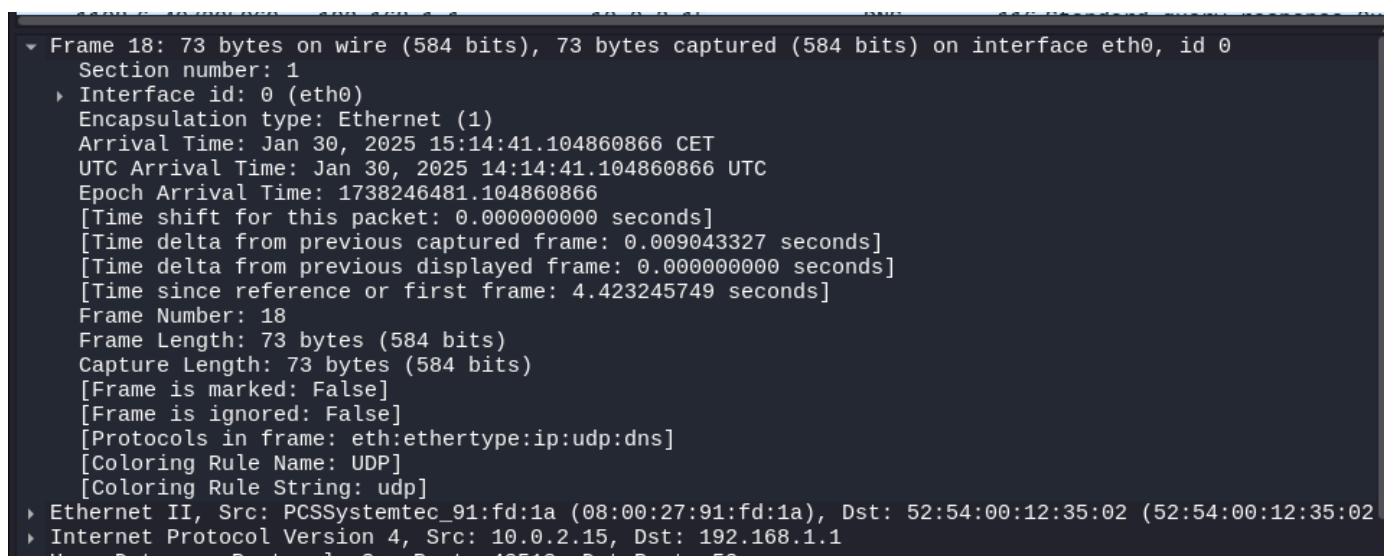


# DNS con Wire Shark

Per prima cosa ho deciso di analizzare le richieste DNS connettendomi al sito di CISCO, una volta deciso ho attivato la cattura di Wire Shark applicando il filtro `udp.port == 53` per visualizzare solo i pacchetti DNS.



Subito dopo ho selezionato appunto la richiesta di connettermi al sito della CISCO e in basso a sinistra ho esplorato i vari menu' a tendina per avere le info di cui avevo bisogno, in questo caso vedrò il menu' dei frame.



Poi la tendina Ethernet II

```

▶ Frame 18: 73 bytes on wire (584 bits), 73 bytes captured (584 bits) on interface eth0, id 0
▼ Ethernet II, Src: PCSSystemtec_91:fd:1a (08:00:27:91:fd:1a), Dst: 52:54:00:12:35:02 (52:54:00:12:35:02)
  ▶ Destination: 52:54:00:12:35:02 (52:54:00:12:35:02)
  ▶ Source: PCSSystemtec_91:fd:1a (08:00:27:91:fd:1a)
  Type: IPv4 (0x0800)
  [Stream index: 0]
▶ Internet Protocol Version 4, Src: 10.0.2.15, Dst: 192.168.1.1
▶ User Datagram Protocol, Src Port: 48518, Dst Port: 53
▶ Domain Name System (query)


```

Poi la tendina IPV4 che ci rivela anche la sorgente e la destinazione del pacchetto.

```

▶ Frame 18: 73 bytes on wire (584 bits), 73 bytes captured (584 bits) on interface eth0, id 0
▼ Ethernet II, Src: PCSSystemtec_91:fd:1a (08:00:27:91:fd:1a), Dst: 52:54:00:12:35:02 (52:54:00:12:35:02)
▼ Internet Protocol Version 4, Src: 10.0.2.15, Dst: 192.168.1.1
  0100 .... = Version: 4
  .... 0101 = Header Length: 20 bytes (5)
  ▶ Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
  Total Length: 59
  Identification: 0x4d6e (19822)
  ▶ 010. .... = Flags: 0x2, Don't fragment
  ...0 0000 0000 0000 = Fragment Offset: 0
  Time to Live: 64
  Protocol: UDP (17)
  Header Checksum: 0x1f8c [validation disabled]
  [Header checksum status: Unverified]
  Source Address: 10.0.2.15
  Destination Address: 192.168.1.1
  [Stream index: 4]
▶ User Datagram Protocol, Src Port: 48518, Dst Port: 53
▶ Domain Name System (query)

```

●  eth0: <live capture in progress>

E per ultima la tendina della QUERY.

```

▼ Domain Name System (query)
  Transaction ID: 0x2b21
  ▶ Flags: 0x0100 Standard query
  Questions: 1
  Answer RRs: 0
  Authority RRs: 0
  Additional RRs: 0
  ▼ Queries
    ▶ www.cisco.com: type A, class IN
    \[Response In: 22\]

```