Tema 1

Cerinte

Vi se da o captura de pachete **network.pcap** care poate fi deschisa folosind

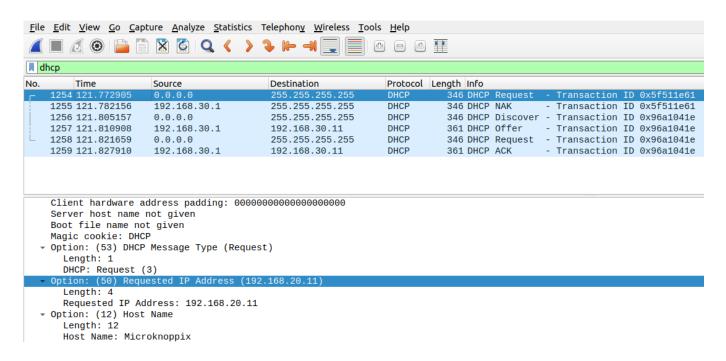
Wireshark (analizator de protocoale de retea). Aveți următoarele cerințe:

- 1. Care este adresa de IP ceruta de clientul DHCP?
- 2. Care este adrea de IPv6 a serverului de NTP?
- 3. Care este numele serverului autoritar (authoritative name server) pentru domeniul cautat?
- 4. Care este portul pentru protocolul CDP al host-ului CCNP-LAB-S2?
- 5. Ce versiune de IOS ruleaza pe host-ul CCNP-LAB-S2?
- 6. Cand a fost config-ul de NVRAM actualizat ultima data?

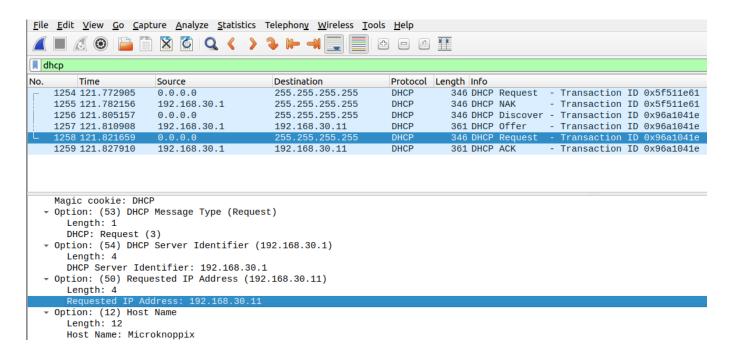
Rezolvare 1.

R: 192.168.20.11

Filtram dupa DHCP



Clientul a solicitat IP-ul 192.168.20.11 (Request 1254), fiind refuzat (NAK 1255).

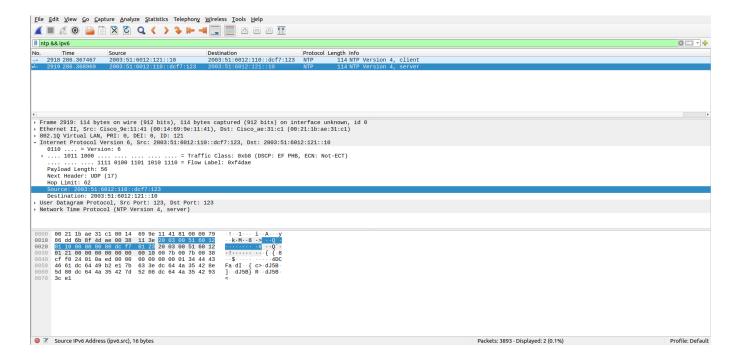


Clientul a trimis un mesaj de discover (Discover 1256), serverul i-a oferit IP-ul 192.168.30.1 (Offer 1257), clientul a solicitat IP-ul oferit (Request 1258), iar serverul a confirmat (ACK 1259).

Rezolvare 2.

R: 2003:51:6012:110::dcf7:123

Filtram traficul NTP prin IPv6

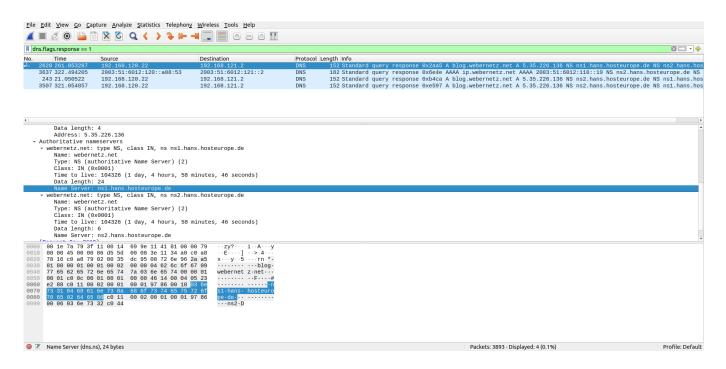


Putem observa din a doua interactiune client - server faptul ca adresa IPv6 a serverului este 2003:51:6012:110::dcf7:123, transferul avand flag "NTP Version 4, server".

Rezolvare 3.

R: ns1.hans.hosteurope.de

Filtram dupa DNS Response



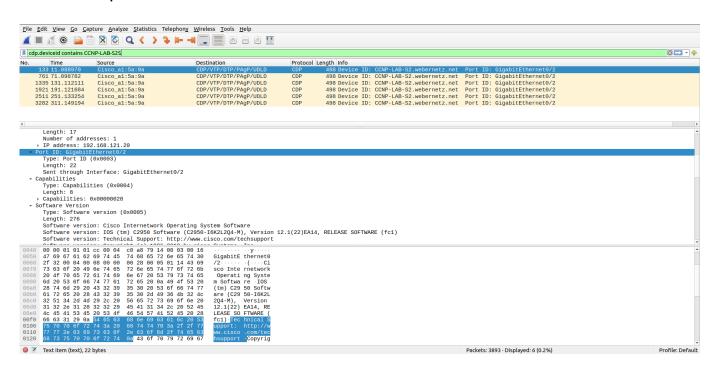
Campul "Authoritative nameservers" contine numele serverelor autoritare:

- webernetz.net: type NS, class IN, ns ns2.hans.hosteurope.de,
- webernetz.net: type NS, class IN, ns ns1.hans.hosteurope.de.

Rezolvare 4.

R: GigabitEthernet0/2

Filtram dupa CDP



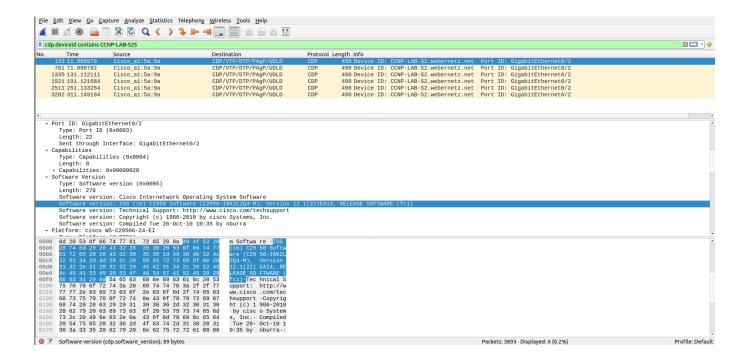
Gasim informatiile despre port in campul "Port ID":

- Sent through Interface: **GigabitEthernet0/2**.

Rezolvare 5.

R: 12.1(22)EA14

Filtram dupa CDP



Gasim informatiile despre versiunea IOS in campul "Software Version":

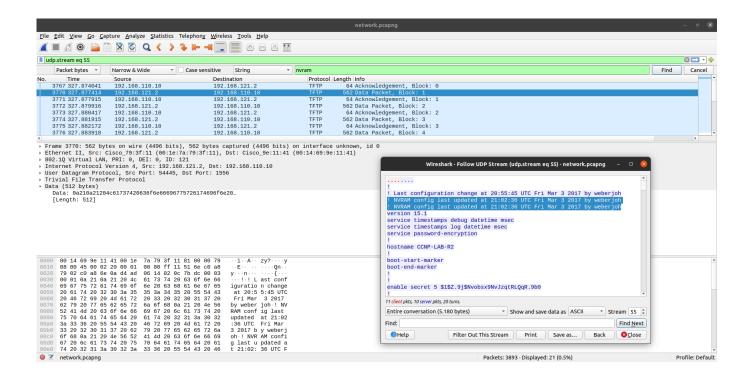
- Software version: IOS (tm) C2950 Software (C2950-I6K2L2Q4-M), **Version 12.1(22)EA14**, RELEASE SOFTWARE (fc1).

Rezolvare 6.

R: 21:02:36 03/03/2017

Filtram packet bytes dupa NVRAM

(nu stiam prin ce protocoale se transmit date despre NVRAM config, asa ca am ales metoda aceasta, banuind ca voi gasi informatia in *packet bytes* am vazut ca e de forma unui timestamp de <u>aici</u>)



! NVRAM config last updated at 21:02:36 UTC Fri Mar 3 2017 by weberjoh.