תקשורת

מטלה 1

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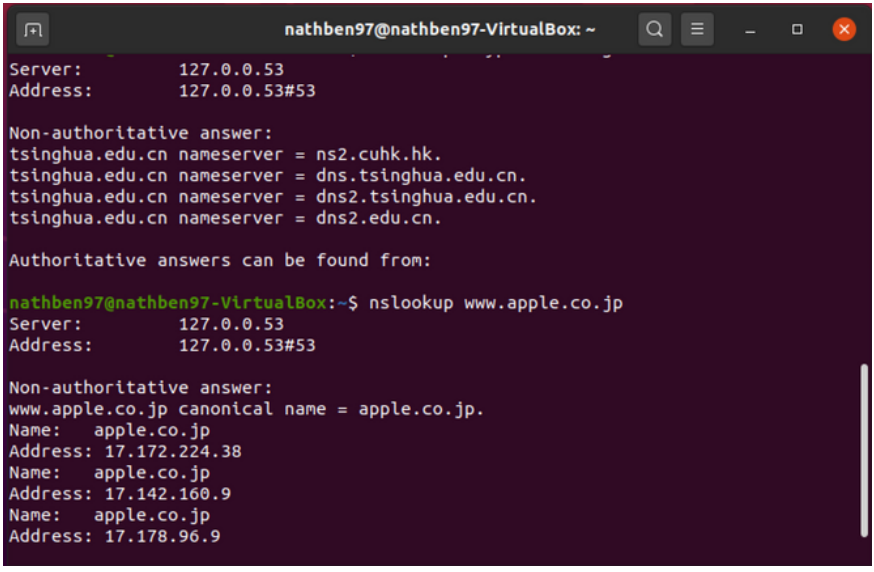
WIRESHARK
DNS

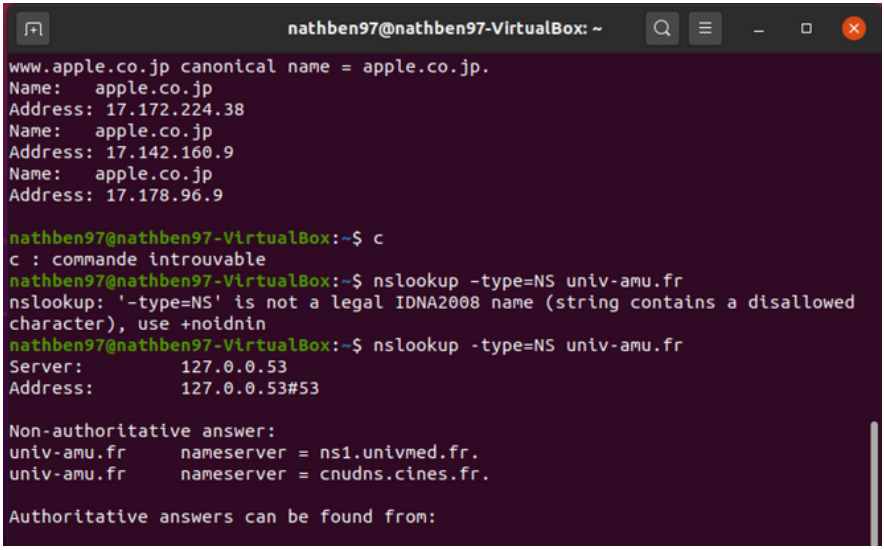
1. Run nslookup to obtain the IP address of a Web server in Asia. What is the IP address of that server?



Adresses :

- 17.172.224.38
- 17.142.160.9
- 17.178.96.9

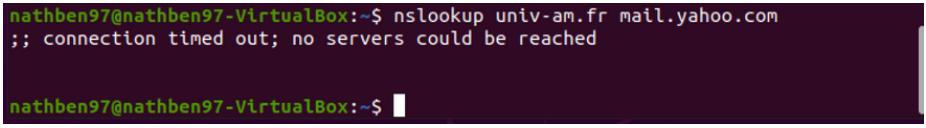
2. Run nslookup to determine the authoritative DNS servers for a university in Europe.



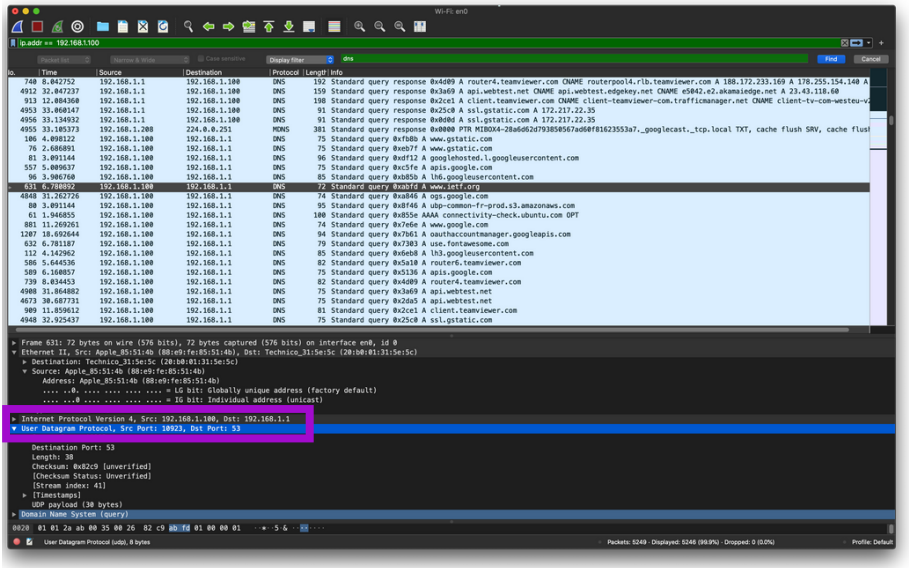
Servers :

- ns1.univmed.fr
- cnudns.cines.fr

3.Run nslookup so that one of the DNS servers obtained in Question 2 is queried for the mail servers for Yahoo! mail. What is its IP address?



Connection timed out no servers could be reached



4.Locate the DNS query and response messages. Are then sent over UDP or TCP?

UDP

5.What is the destination port for the DNS query message? What is the source port of DNS response message?

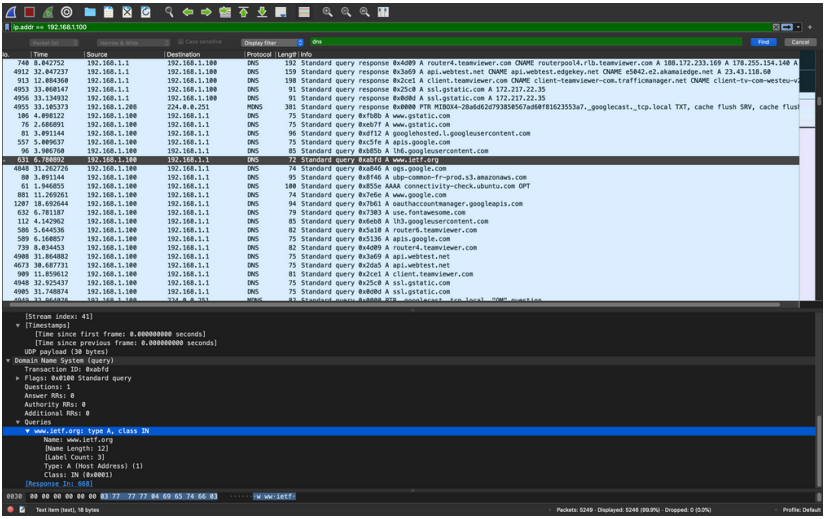
- Source port :10923
- Destination port :53

6 .To what IP address is the DNS query message sent? Use ipconfig to determine the
IP address of your local DNS server. Are these two IP addresses the same?

- Source :192.168.1.100
- Destination :192.168.1.1

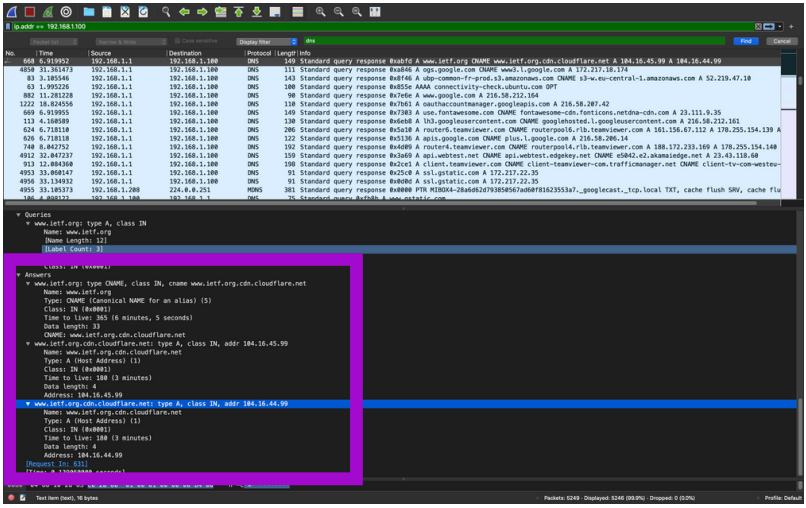
The MacOs (ipconfig /all) is "ifconfig" the inet show us that the. destination feet with our DNS answer 192.168.100

7.Examine the DNS query message. What “Type” of DNS query is it? Does the query message contain any “answers”?



Standard Query ;
Type of DNS Query : A;
no answer.

8. Examine the DNS response message. How many “answers” are provided? What do each of these answers contain?



Answers :

3 answers contains :

(name, type, class, time to live, data ,length ,adress)

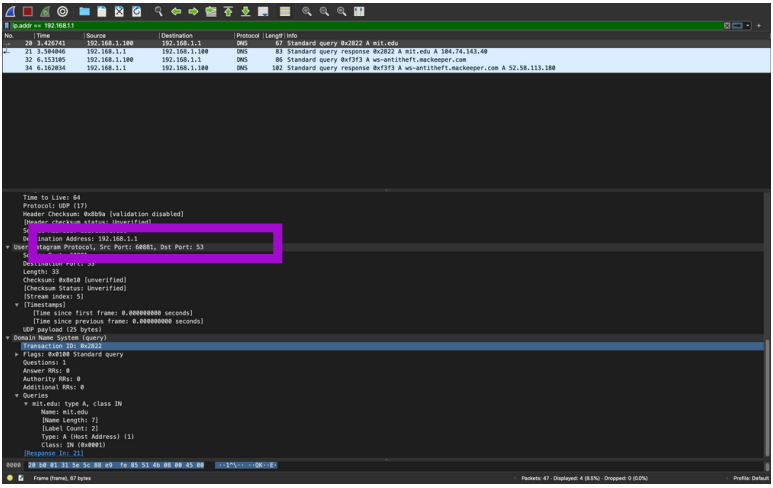
9. Consider the subsequent TCP SYN packet sent by your host. Does the destination IP address of the SYN packet correspond to any of the IP addresses provided in the DNS response message?

Answer : adresse of provided by the DNS server of ietf.org is 104.16.44.99 as seen in the last screenshot

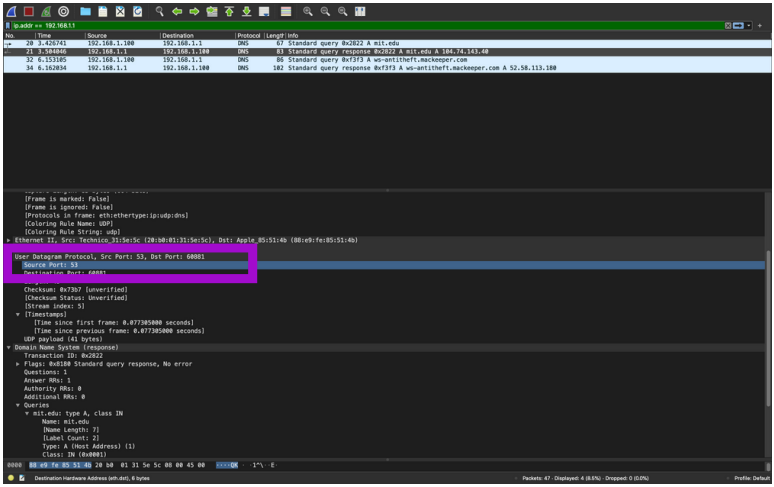
10. This web page contains images. Before retrieving each image, does your host issue new DNS queries?

All the images coming from ietf.org so no need to use a new DNS queries

11. What is the destination port for the DNS query message? What is the source port of DNS response message?

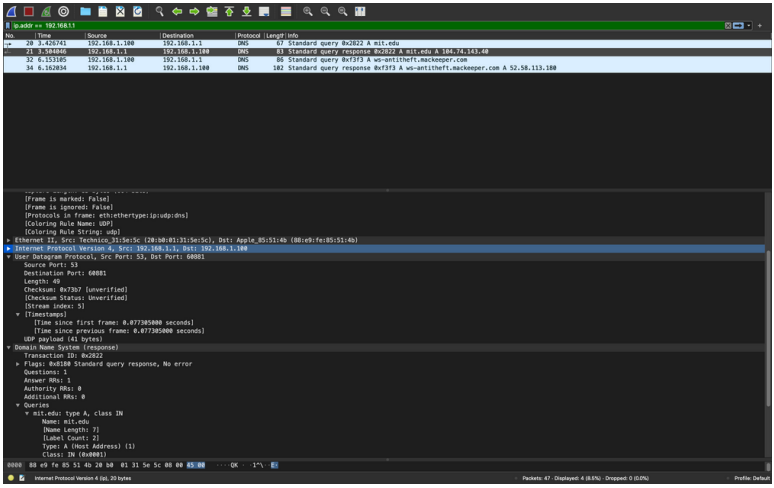


Request port 53

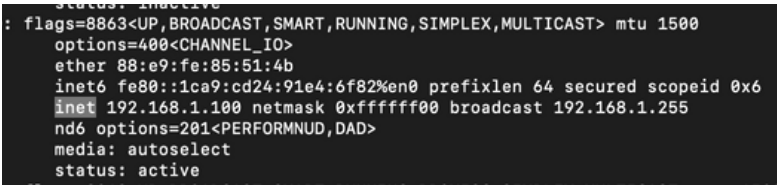


Answer port 53

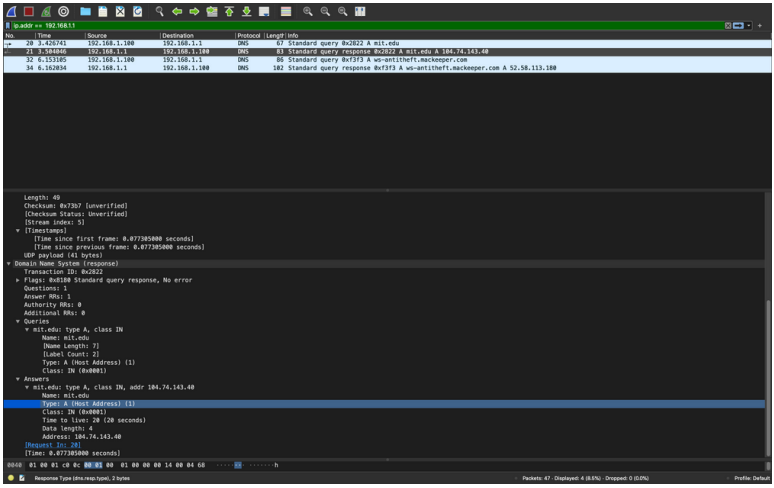
12. To what IP address is the DNS query message sent? Is this the IP address of your default local DNS server?



Destination is 192.168.1.100 its my Dns default ip as seen in the ifconfig screenshot



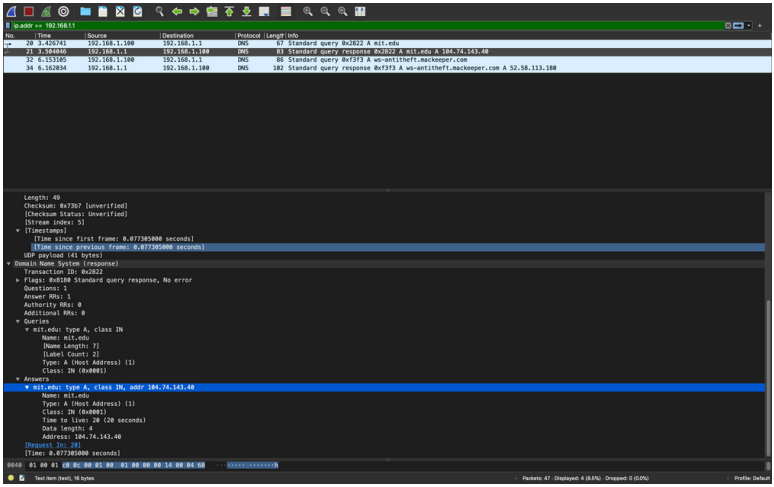
13. Examine the DNS query message. What “Type” of DNS query is it? Does the query message contain any “answers”?



No answer /DNS type :A

14. Examine the DNS response message. How many “answers” are provided? What do each of these answers contain?

15.ScreenShot

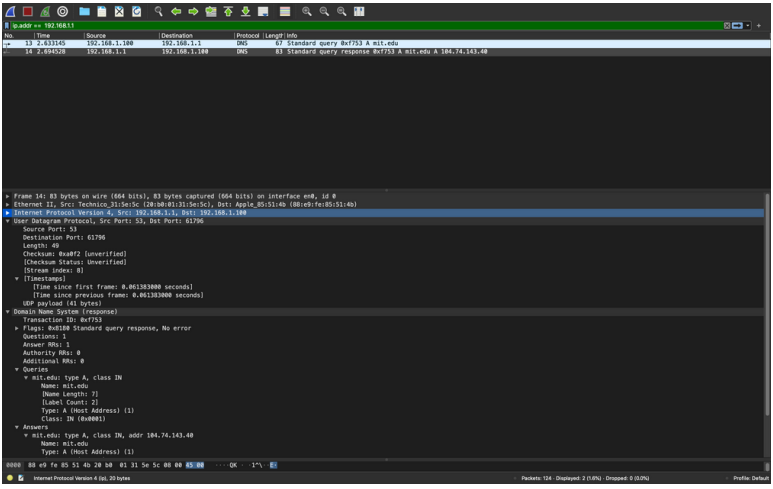


Answers :

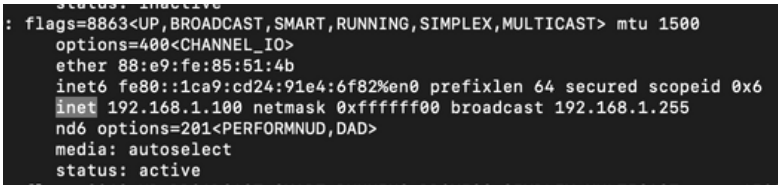
1 answers contains :

(name, type, class, time to live, data ,length ,adress)

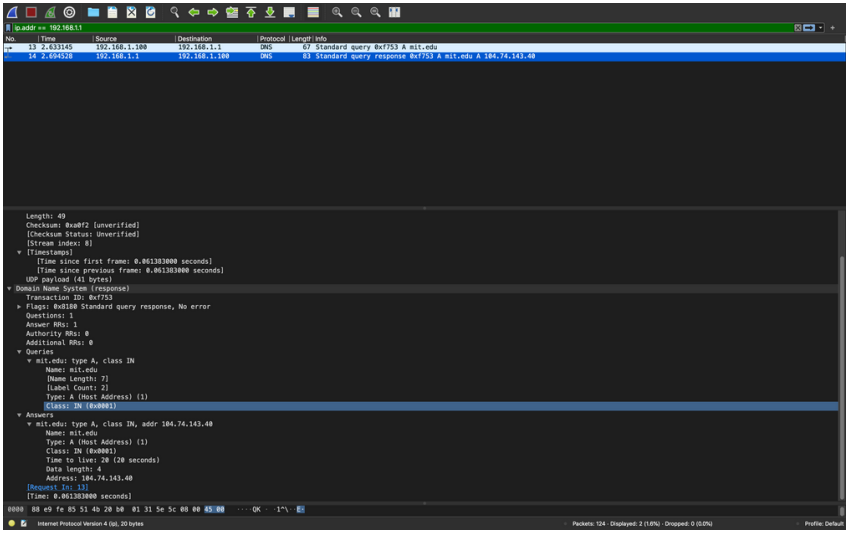
16.To what IP address is the DNS query message sent? Is this the IP address of your default local DNS server?



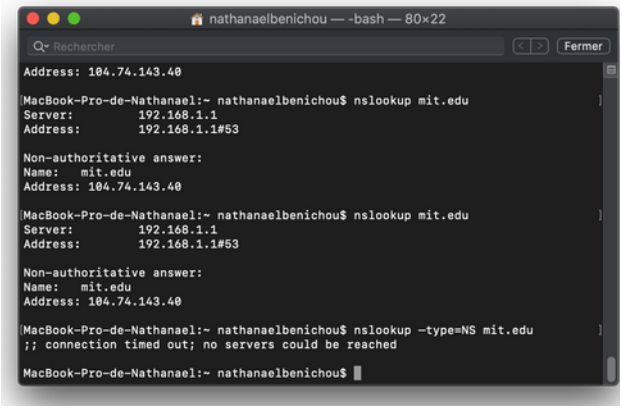
Destination is 192.168.1.100 its my Dns default ip as seen in the ifconfig screenshot



17. Examine the DNS query message. What “Type” of DNS query is it? Does the query message contain any “answers”?

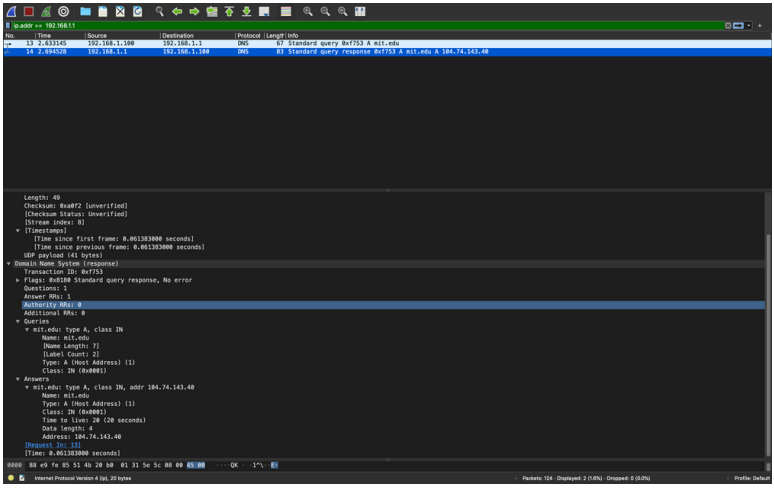


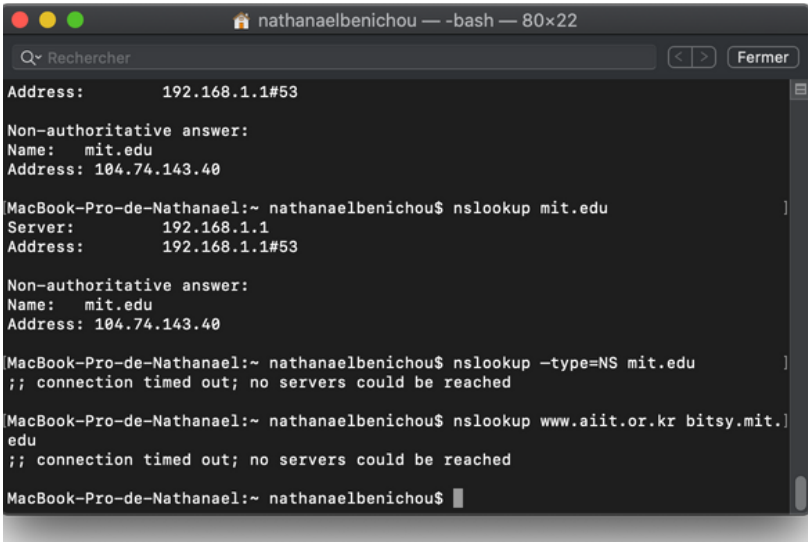
Answer: Type A query, and no answer



18. Examine the DNS response message. What MIT nameservers does the response message provide? Does this response message also provide the IP addresses of the MIT namesers?

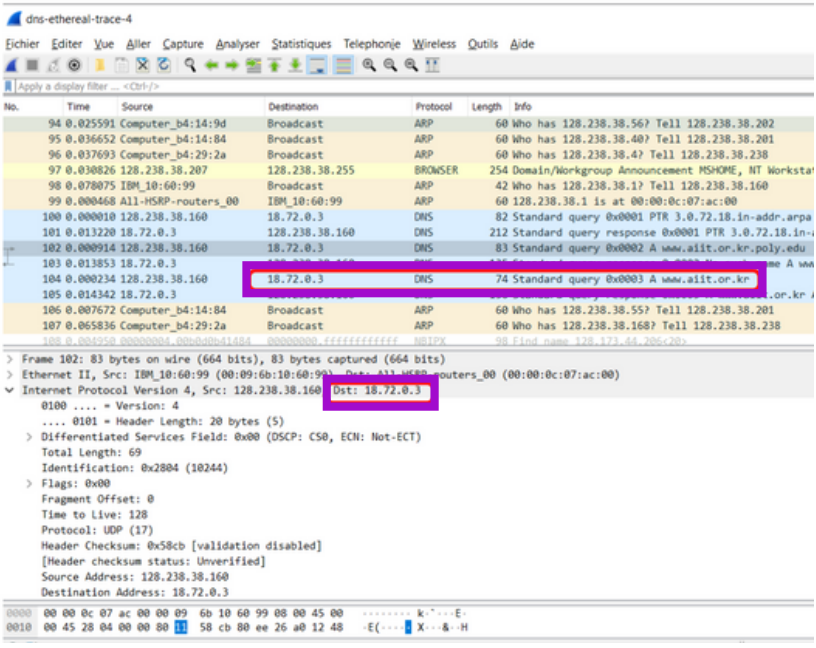
19. Provide a screenshot.





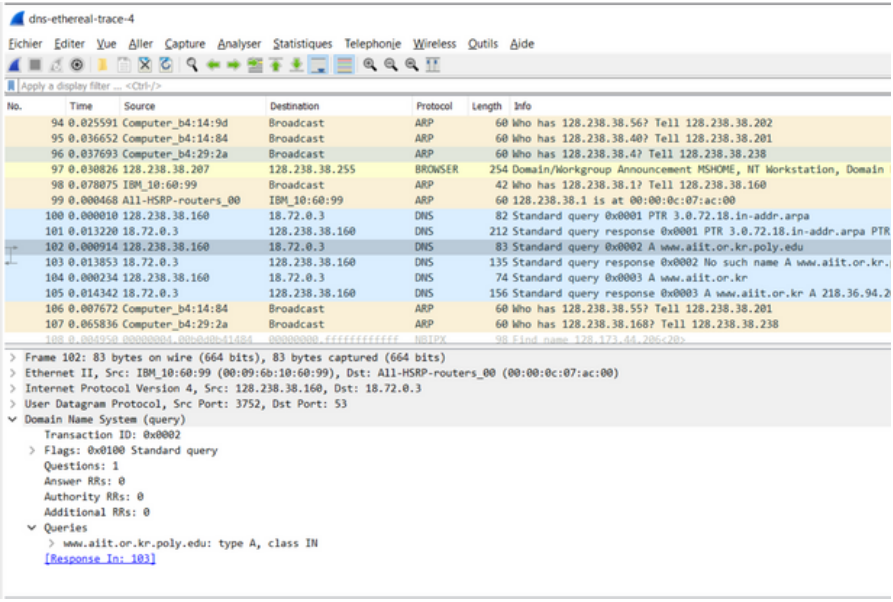
Doesn't work so i used the given pdf in this case

20. To what IP address is the DNS query message sent? Is this the IP address of your default local DNS server? If not, what does the IP address correspond to?



Answer: DNS send to 18.72.0.3
the IP address of the wait response sender.

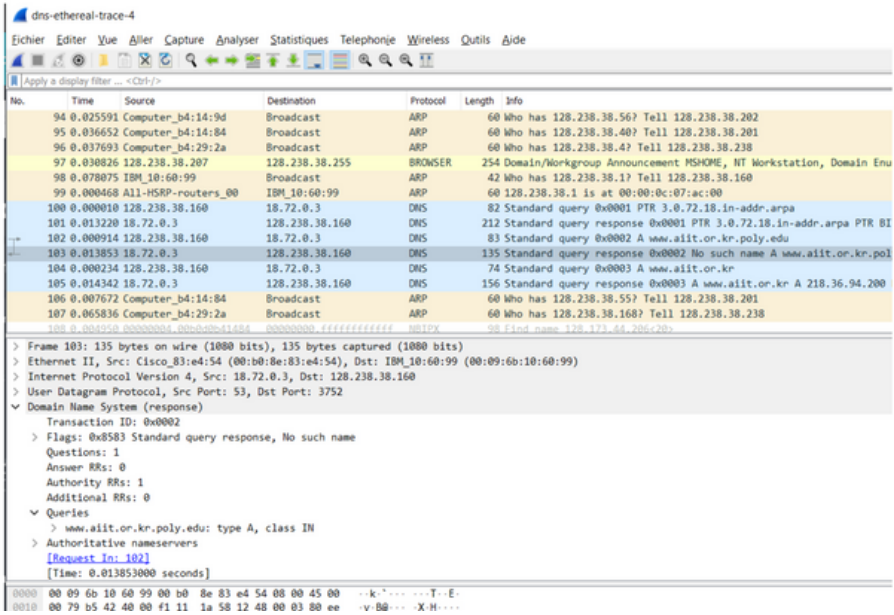
21. Examine the DNS query message. What “Type” of DNS query is it? Does the query message contain any “answers”?



Answer: Type of DNS : A
Standard query
no answer

22. Examine the DNS response message. How many "answers" are provided? What does each of these answers contain?

23.Provide a Screenshot:



Answer: Type of DNS : A

Standard query

no answer