CS408 HW1 Bartu Sisman 00028038

1-)

This is the response packet that comes from the website

└ 298 14.561384 10.2.1.88 159.20.91.209 DNS 239 Standard query response 0xeb1b A bsu.edu.az A 85.132.96.212

When we go into details of this packet we see:

```
Answers

bsu.edu.az: type A, class IN, addr 85.132.96.212
```

This is the ip address of the domain bsu.edu.az, 85.132.96.212

2-)

This is the GET request package that we are interested in

```
• 387 14.596881 159.20.91.209 85.132.96.212 HTTP 741 GET /en/ HTTP/1.1
```

And in the details, we see:

```
▼ Transmission Control Protocol, Src Port: 51997, Dst Port: 80, Seq: 1, Ack: 1, Len: 687
Source Port: 51997
Destination Port: 80
```

Source port is 51997 and Destination port is 80

3-)

These are the request and reply packages when we used the command

'ping unsam.edu.ar ' we only need one pair to determine the ip address so:

```
109... 41.176740 159.20.91.209 172.67.75.100 ICMP 74 Echo (ping) request id=0x0001, seq=41/10496, ttl=128 (reply in 10950) 109... 41.222197 172.67.75.100 159.20.91.209 ICMP 74 Echo (ping) reply id=0x0001, seq=41/10496, ttl=55 (request in 10949)
```

As we can see request has been made by pc which has an ip adress of 159.20.91.209

And reply was made by the website which has the ip address of <u>172.67.15.100</u> So this the ip adress of the domain

4-)

For the Echo request:

```
▼ Internet Control Message Protocol
Type: 8 (Echo (ping) request)
Code: 0
```

Type number is 8

For the Echo reply

```
▼ Internet Control Message Protocol
Type: 0 (Echo (ping) reply)
Code: 0
```

Type number is 0

5-)

When we open the details of this package:

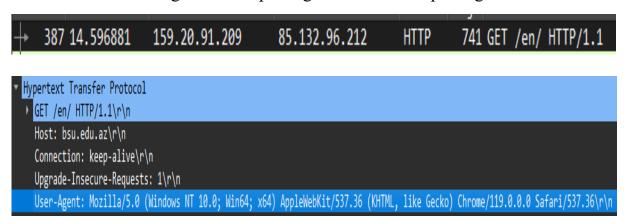
```
← 109…41.222197 172.67.75.100 159.20.91.209 ICMP 74 Echo (ping) reply id=0x0001, seq=41/10496, ttl=55 (request in 10949)
```

```
▼ Internet Control Message Protocol
    Type: 0 (Echo (ping) reply)
    Code: 0
    Checksum: 0x5532 [correct]
    [Checksum Status: Good]
    Identifier (BE): 1 (0x0001)
    Identifier (LE): 256 (0x0100)
    Sequence Number (BE): 41 (0x0029)
    Sequence Number (LE): 10496 (0x2900)
    [Request frame: 10949]
    [Response time: 45.457 ms]
    Data (32 bytes)
```

We cans see that the data length is 32 bytes

6-)

We can see when we get into the package details of this package:



The user agent header's value is this string which identifies the versions of the browser and my operating system.

7-)

When we go into the details of this package:

```
→ 9412 26.901267 159.20.91.209 85.132.96.212 HTTP 853 GET /en/newsarchive HTTP/1.1
```

We see:

```
    Hypertext Transfer Protocol
    GET /en/newsarchive HTTP/1.1\r\n
    Host: bsu.edu.az\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/119.0.0.0 Safari/53.
    Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/siguals.
    Accept-Encoding: gzip, deflate\r\n
```

The accept encoding part is show and its "gzip"

8-)

When we inspect the get package that was sent to the website:

```
Hypertext Transfer Protocol

GET /en/newsarchive HTTP/1.1\r\n
Host: bsu.edu.az\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/119.0.0.0 Safari/5
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/s
Accept-Encoding: gzip, deflate\r\n
Accept-Language: en-US,en;q=0.9,tr-TR;q=0.8,tr;q=0.7\r\n

[truncated]Cookie: __utmz=118507930.1700179795.1.1.utmcsr=(direct)|utmccn=(direct)|utmcmd=(none); _ga=GA1.3.142100975
\r\n
[Full request URI: http://bsu.edu.az/en/newsarchive]
[HTTP request 1/1]
[Response in frame: 9529]
```

at the bottom line we see that Response in frame: 9529 which is the number of the message that was sent from the server which is this:

response package:

```
→ 9529 28.214317 85.132.96.212 159.20.91.209 HTTP 188 HTTP/1.1 200 OK (text/html)
```

And we can see that http status code is 200 OK

9-)These are ARP requests and replies:

ı					
	45 3.220401	MicroStarINT_78:	Broadcast	ARP	42 Who has 159.20.91.1? Tell 159.20.91.209
	46 3.221418	Cisco_01:e9:fa	MicroStarINT_78:	ARP	60 159.20.91.1 is at 70:01:b5:01:e9:fa
	130 6.436723	RealtekSemic_68:	Broadcast	ARP	60 Who has 169.254.187.211? (ARP Probe)
	133 7.430977	RealtekSemic_68:	Broadcast	ARP	60 Who has 169.254.187.211? (ARP Probe)
	142 8.424814	RealtekSemic_68:	Broadcast	ARP	60 Who has 169.254.187.211? (ARP Probe)
	153 9.433055	RealtekSemic_68:	Broadcast	ARP	60 ARP Announcement for 169.254.187.211
	195 11.429283	RealtekSemic_68:	Broadcast	ARP	60 ARP Announcement for 169.254.187.211
	9441 27.898582	RealtekSemic_68:	Broadcast	ARP	60 Who has 159.20.91.1? Tell 159.20.91.26
	9504 28.174552	RealtekSemic_68:	Broadcast	ARP	60 Who has 159.20.91.1? Tell 159.20.91.26
	9536 28.235523	RealtekSemic_68:	Broadcast	ARP	60 Who has 159.20.91.26? (ARP Probe)
	9600 29.242893	RealtekSemic_68:	Broadcast	ARP	60 Who has 159.20.91.26? (ARP Probe)
	9618 30.238664	RealtekSemic_68:	Broadcast	ARP	60 Who has 159.20.91.26? (ARP Probe)
	9722 31.237344	RealtekSemic_68:	Broadcast	ARP	60 ARP Announcement for 159.20.91.26
	9929 33.238345	RealtekSemic_68:	Broadcast	ARP	60 ARP Announcement for 159.20.91.26
	109 40.933339	RealtekSemic_68:	Broadcast	ARP	60 Who has 169.254.187.211? (ARP Probe)
	109 41.928393	RealtekSemic_68:	Broadcast	ARP	60 Who has 169.254.187.211? (ARP Probe)
	109 42.937744	RealtekSemic_68:	Broadcast	ARP	60 Who has 169.254.187.211? (ARP Probe)
	118 43.936328	RealtekSemic_68:	Broadcast	ARP	60 ARP Announcement for 169.254.187.211
	119 45.936872	RealtekSemic 68:	Broadcast	ARP	60 ARP Announcement for 169.254.187.211

This is one of the ARP requests:

And these are its s Sender, Target MAC addresses and Sender, Target IP addresses.

```
Address Resolution Protocol (ARP Probe)
Hardware type: Ethernet (1)
Protocol type: IPv4 (0x0800)
Hardware size: 6
Protocol size: 4
Opcode: request (1)
[Is probe: True]
Sender MAC address: RealtekSemic_68:37:ac (00:e0:4c:68:37:ac)
Sender IP address: 0.0.0.0
Target MAC address: Xerox_00:00:00 (00:00:00:00:00:00)
Target IP address: 159.20.91.26
```

This is a ARP reply:

And these are its s Sender, Target MAC addresses and Sender, Target IP addresses.

```
Address Resolution Protocol (reply)

Hardware type: Ethernet (1)

Protocol type: IPv4 (0x0800)

Hardware size: 6

Protocol size: 4

Opcode: reply (2)

Sender MAC address: Cisco_01:e9:fa (70:01:b5:01:e9:fa)

Sender IP address: 159.20.91.1

Target MAC address: MicroStarINT_78:b0:f0 (2c:f0:5d:78:b0:f0)

Target IP address: 159.20.91.209
```

ip.src == 192.105.59.24 && tcp.dstport == 1334

