

Part 1: DNS

1. Analyzing the answer for the "nslookup" command:

```
C:\Users\lenovo>ipconfig /flushdns

Windows IP Configuration

Successfully flushed the DNS Resolver Cache.

C:\Users\lenovo>nslookup www.time.ir
Server: UnKnown
Address: 192.168.60.189

Non-authoritative answer:
Name: www.time.ir
Address: 185.13.228.162
```

The nslookup command provides information about the DNS (Domain Name System) records for a given website. It returns the IP address associated with the website, along with other details such as the DNS server that provided the response.

No.	Time	Source	Destination	Protocol	Length	Info
427	11.464857	192.168.60.62	192.168.60.189	DNS	87	Standard query 0x0001 PTR 189.60.168.192.in-addr.arpa
428	11.468188	192.168.60.189	192.168.60.62	DNS	87	Standard query response 0x0001 No such name PTR 189.60.168.192.in-addr.arpa
429	11.469290	192.168.60.62	192.168.60.189	DNS	71	Standard query 0x0002 A www.time.ir
436	11.521422	192.168.60.189	192.168.60.62	DNS	87	Standard query response 0x0002 A www.time.ir A 185.13.228.162
437	11.524460	192.168.60.62	192.168.60.189	DNS	71	Standard query 0x0003 AAAA www.time.ir
440	11.552717	192.168.60.189	192.168.60.62	DNS	130	Standard query response 0x0003 AAAA www.time.ir SOA ns2.parsihost.com

2. Analyzing the answer for the "nslookup -type=NS" command:

```
C:\Users\lenovo>ipconfig /flushdns

Windows IP Configuration

Successfully flushed the DNS Resolver Cache.

C:\Users\lenovo>nslookup -type=NS www.time.ir
Server: UnKnown
Address: 192.168.60.189

time.ir
    primary name server = ns2.parsihost.com
    responsible mail addr = admin.time.ir
    serial = 1678790598
    refresh = 3600 (1 hour)
    retry = 3600 (1 hour)
    expire = 604800 (7 days)
    default TTL = 10800 (3 hours)
```

The nslookup command with the "-type=NS" parameter is used to specifically query the DNS server for the authoritative name servers (NS records) of a domain. This command returns the list of name servers responsible for the queried domain.

43	6.666809	192.168.60.62	192.168.60.189	DNS	87 Standard query 0x0001 PTR 189.60.168.192.in-addr.arpa
44	6.670189	192.168.60.189	192.168.60.62	DNS	87 Standard query response 0x0001 No such name PTR 189.60.168.192.in-addr.arpa
45	6.671376	192.168.60.62	192.168.60.189	DNS	71 Standard query 0x0002 NS www.time.ir
54	6.834705	192.168.60.189	192.168.60.62	DNS	130 Standard query response 0x0002 NS www.time.ir SOA ns2.parsihost.com

By filtering UDP connections with port number 53 (`udp.dstport==53 || udp.srcport==53`), we can identify DNS-related traffic in Wireshark. The DNS sequences refer to the series of DNS queries and responses captured in the packet capture. They represent the communication between the DNS client and the DNS server

```

> Frame 427: 87 bytes on wire (696 bits), 87 bytes captured (696 bits) on interface \Device\NPF_{D7AC33A...
> Ethernet II, Src: IntelCor_5b:ed:f7 (4c:1d:96:5b:ed:f7), Dst: 52:c5:cb:c8:e9:9d (52:c5:cb:c8:e9:9d)
> Internet Protocol Version 4, Src: 192.168.60.62, Dst: 192.168.60.189
v User Datagram Protocol, Src Port: 54548, Dst Port: 53
    Source Port: 54548
    Destination Port: 53
    Length: 53
    Checksum: 0xfa92 [unverified]
    [Checksum Status: Unverified]
    [Stream index: 1]
    > [Timestamps]
    UDP payload (45 bytes)
> Domain Name System (query)

```

> Frame 428: 87 bytes on wire (696 bits), 87 bytes captured (696 bits) on interface \Device\NPF_{D7AC33A}	0000	4c 1d 96 5b ed f7 52 c5	cb c8 e9 9d 08 00 45 00	L...R.....E..
> Ethernet II, Src: 52:c5:cb:c8:e9:9d (52:c5:cb:c8:e9:9d), Dst: IntelCor_5b:ed:f7 (4c:1d:96:5b:ed:f7)	0010	00 49 a1 d0 40 00 40 11	9e 87 c0 a8 3c bd c0 a8	.I...@...<...
> Internet Protocol Version 4, Src: 192.168.60.189, Dst: 192.168.60.62	0020	3c 3e 00 35 d5 14 00 35	28 3f 00 01 81 83 00 01	<>.5...5 (?.....
> User Datagram Protocol, Src Port: 53, Dst Port: 54548	0030	00 00 00 00 00 03 31	38 39 02 36 30 03 31 361 89-60-16
Source Port: 53	0040	38 03 31 39 32 07 69 6e	2d 61 64 64 72 04 61 72	8-192-in -addr-ar
Destination Port: 54548	0050	70 61 00 00 0c 00 01		pa.....
Length: 53				
Checksum: 0x283f [unverified]				
[Checksum Status: Unverified]				
[Stream index: 1]				
> [Timestamps]				
UDP payload (45 bytes)				
> Domain Name System (response)				

No.	Time	Source	Destination	Protocol	Length	Info
427	11.464857	192.168.60.62	192.168.60.189	DNS	87	Standard query 0x0001 PTR 189.60.168.192.in-addr.arpa
428	11.468188	192.168.60.189	192.168.60.62	DNS	87	Standard query response 0x0001 No such name PTR 189.60.168.192.in-addr.arpa
429	11.469290	192.168.60.62	192.168.60.189	DNS	71	Standard query 0x0002 A www.time.ir
436	11.521422	192.168.60.189	192.168.60.62	DNS	87	Standard query response 0x0002 A www.time.ir A 185.13.228.162
437	11.524460	192.168.60.62	192.168.60.189	DNS	71	Standard query 0x0003 AAAA www.time.ir
440	11.552717	192.168.60.189	192.168.60.62	DNS	130	Standard query response 0x0003 AAAA www.time.ir SOA ns2.parsihost.com

<

> Frame 429: 71 bytes on wire (568 bits), 71 bytes captured (568 bits) on interface \Device\NPF_{D7AC33A} 0000 52 c5 cb c8 e9 9d 4c 1d 96 5b ed f7 08 00 45 00 R....L. .[....E.
 > Ethernet II, Src: IntelCor_5b:ed:f7 (4c:1d:96:5b:ed:f7), Dst: 52:c5:cb:c8:e9:9d (52:c5:cb:c8:e9:9d) 0010 00 39 a2 67 00 00 40 11 00 00 c0 a8 3c 3e c0 a8 -9-g..@:<>..
 > Internet Protocol Version 4, Src: 192.168.60.62, Dst: 192.168.60.189 0020 3c bd d5 15 00 35 00 25 fa 82 00 02 01 00 00 01 <..5.%
 > User Datagram Protocol, Src Port: 54549, Dst Port: 53 0030 00 00 00 00 00 03 77 77 77 04 74 69 6d 65 02w ww-time-
 Source Port: 54549 0040 69 72 00 00 01 00 01ir.....
 Destination Port: 53
 Length: 37
 Checksum: 0xfa82 [unverified]
 [Checksum Status: Unverified]
 [Stream index: 2]
 > [Timestamps]
 UDP payload (29 bytes)
 > Domain Name System (query)

No.	Time	Source	Destination	Protocol	Length	Info
427	11.464857	192.168.60.62	192.168.60.189	DNS	87	Standard query 0x0001 PTR 189.60.168.192.in-addr.arpa
428	11.468188	192.168.60.189	192.168.60.62	DNS	87	Standard query response 0x0001 No such name PTR 189.60.168.192.in-addr.arpa
429	11.469290	192.168.60.62	192.168.60.189	DNS	71	Standard query 0x0002 A www.time.ir
436	11.521422	192.168.60.189	192.168.60.62	DNS	87	Standard query response 0x0002 A www.time.ir A 185.13.228.162
437	11.524460	192.168.60.62	192.168.60.189	DNS	71	Standard query 0x0003 AAAA www.time.ir
440	11.552717	192.168.60.189	192.168.60.62	DNS	130	Standard query response 0x0003 AAAA www.time.ir SOA ns2.parsihost.com

<

> Frame 436: 87 bytes on wire (696 bits), 87 bytes captured (696 bits) on interface \Device\NPF_{D7AC33A} 0000 4c 1d 96 5b ed f7 52 c5 cb c8 e9 9d 08 00 45 00 L..[..R:E.
 > Ethernet II, Src: 52:c5:cb:c8:e9:9d (52:c5:cb:c8:e9:9d), Dst: IntelCor_5b:ed:f7 (4c:1d:96:5b:ed:f7) 0010 00 49 a1 d2 40 00 40 11 9e 85 c0 a8 3c bd c0 a8 -I:..@:@:<>..
 > Internet Protocol Version 4, Src: 192.168.60.189, Dst: 192.168.60.62 0020 3c 3e 00 35 d5 15 00 35 07 c0 00 02 81 80 00 01 <>..5..5
 > User Datagram Protocol, Src Port: 53, Dst Port: 54549 0030 00 01 00 00 00 00 03 77 77 77 04 74 69 6d 65 02w ww-time-
 Source Port: 53 0040 69 72 00 00 01 00 01 c0 0c 00 01 00 01 00 00 06ir.....
 Destination Port: 54549 0050 2a 00 04 b9 0d e4 a2*.....
 Length: 53
 Checksum: 0x07c0 [unverified]
 [Checksum Status: Unverified]
 [Stream index: 2]
 > [Timestamps]
 UDP payload (45 bytes)
 > Domain Name System (response)

No.	Time	Source	Destination	Protocol	Length	Info
427	11.464857	192.168.60.62	192.168.60.189	DNS	87	Standard query 0x0001 PTR 189.60.168.192.in-addr.arpa
428	11.468188	192.168.60.189	192.168.60.62	DNS	87	Standard query response 0x0001 No such name PTR 189.60.168.192.in-addr.arpa
429	11.469290	192.168.60.62	192.168.60.189	DNS	71	Standard query 0x0002 A www.time.ir
436	11.521422	192.168.60.189	192.168.60.62	DNS	87	Standard query response 0x0002 A www.time.ir A 185.13.228.162
437	11.524460	192.168.60.62	192.168.60.189	DNS	71	Standard query 0x0003 AAAA www.time.ir
440	11.552717	192.168.60.189	192.168.60.62	DNS	130	Standard query response 0x0003 AAAA www.time.ir SOA ns2.parsihost.com

> Frame 437: 71 bytes on wire (568 bits), 71 bytes captured (568 bits) on interface \Device\NPF_{D7AC33A}	0000	52 c5 cb c8 e9 9d 4c 1d 96 5b ed f7 08 00 45 00	R.....L..-.....E..
> Ethernet II, Src: IntelCor_5b:ed:f7 (4c:1d:96:5b:ed:f7), Dst: 52:c5:cb:c8:e9:9d (52:c5:cb:c8:e9:9d)	0010	00 39 a2 68 00 00 40 11 00 00 c0 a8 3c 3e c0 a8	-9-h...@...-...<...-
> Internet Protocol Version 4, Src: 192.168.60.62, Dst: 192.168.60.189	0020	3c bd d5 16 00 35 00 25 fa 82 00 03 01 00 00 01	<...5.%-.....
> User Datagram Protocol, Src Port: 54550, Dst Port: 53	0030	00 00 00 00 00 00 03 77 77 77 04 74 69 6d 65 02w ww-time-
Source Port: 54550	0040	69 72 00 00 1c 00 01	ir.....
Destination Port: 53			
Length: 37			
Checksum: 0xfa82 [unverified]			
[Checksum Status: Unverified]			
[Stream index: 3]			
> [Timestamps]			
UDP payload (29 bytes)			
> Domain Name System (query)			

No.	Time	Source	Destination	Protocol	Length	Info
427	11.464857	192.168.60.62	192.168.60.189	DNS	87	Standard query 0x0001 PTR 189.60.168.192.in-addr.arpa
428	11.468188	192.168.60.189	192.168.60.62	DNS	87	Standard query response 0x0001 No such name PTR 189.60.168.192.in-addr.arpa
429	11.469290	192.168.60.62	192.168.60.189	DNS	71	Standard query 0x0002 A www.time.ir
436	11.521422	192.168.60.189	192.168.60.62	DNS	87	Standard query response 0x0002 A www.time.ir A 185.13.228.162
437	11.524460	192.168.60.62	192.168.60.189	DNS	71	Standard query 0x0003 AAAA www.time.ir
440	11.552717	192.168.60.189	192.168.60.62	DNS	130	Standard query response 0x0003 AAAA www.time.ir SOA ns2.parsihost.com

> Frame 440: 130 bytes on wire (1040 bits), 130 bytes captured (1040 bits) on interface \Device\NPF_{D7A}	0000	4c 1d 96 5b ed f7 52 c5 cb c8 e9 9d 08 00 45 00	L..[...R-E-
> Ethernet II, Src: 52:c5:cb:c8:e9:9d (52:c5:cb:c8:e9:9d), Dst: IntelCor_5b:ed:f7 (4c:1d:96:5b:ed:f7)	0010	00 74 a1 d5 40 00 40 11 9e 57 c0 a8 3c bd c0 a8	-t..@..@..W-<...-
> Internet Protocol Version 4, Src: 192.168.60.189, Dst: 192.168.60.62	0020	3c 3e 00 35 d5 16 00 60 7a 5e 00 03 81 80 00 01	<->5..z^.....
> User Datagram Protocol, Src Port: 53, Dst Port: 54550	0030	00 00 00 01 00 00 03 77 77 77 04 74 69 6d 65 02w ww-time-
Source Port: 53	0040	69 72 00 00 1c 00 01 c0 10 00 06 00 01 00 00 0b	ir.....
Destination Port: 54550	0050	b0 00 2f 03 6e 73 32 09 70 61 72 73 69 68 6f 73	../.ns2. parsihos
Length: 96	0060	74 03 63 6f 6d 00 05 61 64 6d 69 6e c0 10 64 10	t-com-a dmin--d-
Checksum: 0x7a5e [unverified]	0070	4f c6 00 00 0e 10 00 00 0e 10 00 09 3a 80 00 00	0.....:--
[Checksum Status: Unverified]	0080	2a 30	*0
[Stream index: 3]			
> [Timestamps]			
UDP payload (88 bytes)			
> Domain Name System (response)			

4. The contents of the request, which include the source and destination IP addresses, DNS query types, and the domain names being queried:

No.	Time	Source	Destination	Protocol	Length	Info
427	11.464857	192.168.60.62	192.168.60.189	DNS	87	Standard query 0x0001 PTR 189.60.168.192.in-addr.arpa
428	11.468188	192.168.60.189	192.168.60.62	DNS	87	Standard query response 0x0001 No such name PTR 189.60.168.192.in-addr.arpa
429	11.469290	192.168.60.62	192.168.60.189	DNS	71	Standard query 0x0002 A www.time.ir
436	11.521422	192.168.60.189	192.168.60.62	DNS	87	Standard query response 0x0002 A www.time.ir A 185.13.228.162
437	11.524460	192.168.60.62	192.168.60.189	DNS	71	Standard query 0x0003 AAAA www.time.ir
440	11.552717	192.168.60.189	192.168.60.62	DNS	130	Standard query response 0x0003 AAAA www.time.ir SOA ns2.parsihost.com

> Frame 437: 71 bytes on wire (568 bits), 71 bytes captured (568 bits) on interface \Device\NPF_{D7AC33A}	0000	52 c5 cb c8 e9 9d 4c 1d 96 5b ed f7 08 00 45 00	R.....L. .[....E.
> Ethernet II, Src: IntelCor_5b:ed:f7 (4c:1d:96:5b:ed:f7), Dst: 52:c5:cb:c8:e9:9d (52:c5:cb:c8:e9:9d)	0010	00 39 a2 68 00 00 40 11 00 00 c0 a8 3c 3e c0 a8	.9.h..@.<>..
> Internet Protocol Version 4, Src: 192.168.60.62, Dst: 192.168.60.189	0020	3c bd d5 16 00 35 00 25 fa 82 00 03 01 00 00 01	<...5.%
> User Datagram Protocol, Src Port: 54550, Dst Port: 53	0030	00 00 00 00 00 00 03 77 77 77 04 74 69 6d 65 02w ww-time-
> Domain Name System (query)	0040	69 72 00 00 1c 00 01	ir.....

Transaction ID: 0x0003

Flags: 0x0100 Standard query

Questions: 1

Answer RRs: 0

Authority RRs: 0

Additional RRs: 0

Queries

www.time.ir: type AAAA, class IN

Name: www.time.ir

[Name Length: 11]

[Label Count: 3]

Type: AAAA (IPv6 Address) (28)

Class: IN (0x0001)

[Response In: 440]

5. Describing flags and the answer in the responses of the DNS queries:

The flags in the DNS response packets indicate various aspects of the response, such as the type of response (e.g., authoritative, non-authoritative), whether it is an answer or a query, and if any errors occurred.

No.	Time	Source	Destination	Protocol	Length	Info
427	11.464857	192.168.60.62	192.168.60.189	DNS	87	Standard query 0x0001 PTR 189.60.168.192.in-addr.arpa
428	11.468188	192.168.60.189	192.168.60.62	DNS	87	Standard query response 0x0001 No such name PTR 189.60.168.192.in-addr.arpa
429	11.469290	192.168.60.62	192.168.60.189	DNS	71	Standard query 0x0002 A www.time.ir
436	11.521422	192.168.60.189	192.168.60.62	DNS	87	Standard query response 0x0002 A www.time.ir A 185.13.228.162
437	11.524460	192.168.60.62	192.168.60.189	DNS	71	Standard query 0x0003 AAAA www.time.ir
440	11.552717	192.168.60.189	192.168.60.62	DNS	130	Standard query response 0x0003 AAAA www.time.ir SOA ns2.parsihost.com

> Frame 436: 87 bytes on wire (696 bits), 87 bytes captured (696 bits) on interface \Device\NPF_{D7AC33A...}

> Ethernet II, Src: 52:c5:cb:c8:e9:9d (52:c5:cb:c8:e9:9d), Dst: IntelCor_5b:ed:f7 (4c:1d:96:5b:ed:f7)

> Internet Protocol Version 4, Src: 192.168.60.189, Dst: 192.168.60.62

> User Datagram Protocol, Src Port: 53, Dst Port: 54549

▼ Domain Name System (response)

Transaction ID: 0x0002

> Flags: 0x8180 Standard query response, No error

Questions: 1

Answer RRs: 1

Authority RRs: 0

Additional RRs: 0

> Queries

▼ Answers

www.time.ir: type A, class IN, addr 185.13.228.162

Name: www.time.ir

Type: A (Host Address) (1)

Class: IN (0x0001)

Time to live: 1578 (26 minutes, 18 seconds)

Data length: 4

Address: 185.13.228.162

[\[Request In: 429\]](#)

[Time: 0.052132000 seconds]

```

0000  4c 1d 96 5b ed f7 52 c5  cb c8 e9 9d 08 00 45 00  L...R.....E.
0010  00 49 a1 d2 40 00 40 11  9e 85 c0 a8 3c bd c0 a8  -I..@. ....<...
0020  3c 3e 00 35 d5 15 00 35  07 c0 00 02 81 80 00 01  <> .5...5 .....
0030  00 01 00 00 00 00 03 77  77 77 04 74 69 6d 65 02  .....ww.time.
0040  69 72 00 00 01 00 01  c0 0c 00 01 00 01 00 00  ir.....
0050  2a 00 04 b9 0d e4 a2          *.....

```

No.	Time	Source	Destination	Protocol	Length	Info
45	6.671376	192.168.60.62	192.168.60.189	DNS	71	Standard query 0x0002 NS www.time.ir
54	6.834705	192.168.60.189	192.168.60.62	DNS	130	Standard query response 0x0002 NS www.time.ir SOA ns2.parsihost.com

Domain Name System (response)
Transaction ID: 0x0002
Flags: 0x8180 Standard query response, No error
1... .. = Response: Message is a response
.000 0... .. = Opcode: Standard query (0)
....0... .. = Authoritative: Server is not an authority for domain
....0... .. = Truncated: Message is not truncated
....1... .. = Recursion desired: Do query recursively
....1... .. = Recursion available: Server can do recursive queries
....0... .. = Z: reserved (0)
....0... .. = Answer authenticated: Answer/authority portion was not authenticated by the server
....0... .. = Non-authenticated data: Unacceptable
....0000 = Reply code: No error (0)
Questions: 1
Answer RRs: 0
Authority RRs: 1
Additional RRs: 0
Queries
www.time.ir: type NS, class IN
Name: www.time.ir
[Name Length: 11]
[Label Count: 3]
Type: NS (authoritative Name Server) (2)
Class: IN (0x0001)
Authoritative nameservers
time.ir: type SOA, class IN, mname ns2.parsihost.com
Name: time.ir
Type: SOA (Start Of a zone of Authority) (6)
Class: IN (0x0001)
Time to live: 10800 (3 hours)
Data length: 47
Primary name server: ns2.parsihost.com
Responsible authority's mailbox: admin.time.ir
Serial Number: 1678790598
Refresh Interval: 3600 (1 hour)
Retry Interval: 3600 (1 hour)
Expire limit: 604800 (7 days)
Minimum TTL: 10800 (3 hours)
[Request In: 45]
[Time: 0.163329000 seconds]

0000 4c 1d 96 5b ed f7 52 c5 cb c8 e9 9d 08 00 45 00 L...[...R...
0010 00 74 af 81 40 00 40 11 90 ab c0 a8 3c bd c0 a8 .t...@...
0020 3c 3e 00 35 c5 7c 00 60 23 db 00 02 81 80 00 01 <...5...|...`#
0030 00 00 00 01 00 00 03 77 77 77 04 74 69 6d 65 02w w
0040 69 72 00 00 02 00 01 c0 10 00 06 00 01 00 00 2a ir.....
0050 30 00 2f 03 6e 73 32 09 70 61 72 73 69 68 6f 73 0.../..ns2...pa
0060 74 03 63 6f 6d 00 05 61 64 6d 69 6e c0 10 64 10 t...com...a dr
0070 4f c6 00 00 0e 10 00 00 0e 10 00 09 3a 80 00 00 0.....
0080 2a 30 *0

6. Explaining Time to Live (TTL) in DNS protocol:

Time to Live (TTL) is a value specified in DNS records that determines the duration for which a DNS response can be cached by other DNS servers or clients. It indicates how long the information remains valid before it needs to be refreshed. The TTL value can be found in the DNS response packets captured in Wireshark.

No.	Time	Source	Destination	Protocol	Length	Info
45	6.671376	192.168.60.62	192.168.60.189	DNS	71	Standard query 0x0002 NS www.time.ir
54	6.834705	192.168.60.189	192.168.60.62	DNS	130	Standard query response 0x0002 NS www.time.ir SOA ns2.parsihost.com

Authoritative nameservers
 time.ir: type SOA, class IN, mname ns2.parsihost.com
 Name: time.ir
 Type: SOA (Start Of a zone of Authority) (6)
 Class: IN (0x0001)
 Time to live: 10800 (3 hours)
 Data length: 47
 Primary name server: ns2.parsihost.com
 Responsible authority's mailbox: admin.time.ir
 Serial Number: 1678790598
 Refresh Interval: 3600 (1 hour)
 Retry Interval: 3600 (1 hour)
 Expire limit: 604800 (7 days)
 Minimum TTL: 10800 (3 hours)

[\[Request In: 45\]](#)
 [Time: 0.163329000 seconds]

0000 4c 1d 96 5b ed f7 52 c5 cb c8 e9 9d 08 00 45 00 L...[...R...
 0010 00 74 af 81 40 00 40 11 90 ab c0 a8 3c bd c0 a8 .t...@...
 0020 3c 3e 00 35 c5 7c 00 60 23 db 00 02 81 80 00 01 <-5-|...#
 0030 00 00 00 01 00 00 03 77 77 77 04 74 69 6d 65 02w w
 0040 69 72 00 00 02 00 01 c0 10 00 06 00 01 00 00 2a ir.....
 0050 00 00 2f 03 6e 73 32 09 70 61 72 73 69 68 6f 73 ./ns2- p
 0060 74 03 63 6f 6d 00 05 61 64 6d 69 6e c0 10 64 10 t.com..a di
 0070 4f c6 00 00 0e 10 00 00 0e 10 00 09 3a 80 00 00 0.....
 0080 2a 30 *0

Part 1: HTTP

1. The content of the HTTP GET request messages:

No.	Time	Source	Destination	Protocol	Length	Info
583	2.606581	192.168.60.62	128.119.245.12	HTTP	445	GET /wireshark-labs/HTTP-wireshark-file4.html HTTP/1.1
618	2.848051	128.119.245.12	192.168.60.62	HTTP	1355	HTTP/1.1 200 OK (text/html)
627	2.976882	192.168.60.62	128.119.245.12	HTTP	402	GET /pearson.png HTTP/1.1
654	3.166607	192.168.60.62	128.119.245.12	HTTP	402	GET /favicon.ico HTTP/1.1
719	3.412041	2a01:5ec0:1800:8b12::...	2a00:1450:400f:802::...	HTTP	382	GET /css?family=Lato HTTP/1.1
744	3.486581	128.119.245.12	192.168.60.62	HTTP	926	HTTP/1.1 200 OK (PNG)
752	3.517845	128.119.245.12	192.168.60.62	HTTP	538	HTTP/1.1 404 Not Found (text/html)
771	3.564687	2a00:1450:400f:802::...	2a01:5ec0:1800:8b12::...	HTTP	971	HTTP/1.1 200 OK (text/css)
831	3.878999	2a01:5ec0:1800:8b12::...	2a00:1450:400f:804::...	HTTP	479	GET /s/lato/v24/S6uyw4BMUTPHjx4wXg.woff2 HTTP/1.1
941	4.167695	2a00:1450:400f:804::...	2a01:5ec0:1800:8b12::...	HTTP	1104	HTTP/1.1 200 OK (font/woff2)
997	4.372306	192.168.60.62	178.79.137.164	HTTP	369	GET /8E_cover_small.jpg HTTP/1.1
1056	4.617119	178.79.137.164	192.168.60.62	HTTP	225	HTTP/1.1 301 Moved Permanently
1239	5.263544	2a01:5ec0:1800:8b12::...	2600:1417:3::5f64:a...	OCSP	499	Request
1318	5.513480	2600:1417:3::5f64:a...	2a01:5ec0:1800:8b12::...	OCSP	963	Response

2. The content of GET responses:

Wireshark packet capture showing HTTP traffic. The selected packet is a GET request for a file.

No.	Time	Source	Destination	Protocol	Length	Info
583	2.606581	192.168.60.62	128.119.245.12	HTTP	445	GET /wireshark-labs/HTTP-wireshark-file4.html HTTP/1.1
618	2.848051	128.119.245.12	192.168.60.62	HTTP	1355	HTTP/1.1 200 OK (text/html) ←
627	2.976882	192.168.60.62	128.119.245.12	HTTP	402	GET /pearson.png HTTP/1.1

Frame 618: 1355 bytes on wire (10840 bits), 1355 bytes captured (10840 bits) on interface \Device\NPF... Ethernet II, Src: 52:c5:cb:c8:e9:9d (52:c5:cb:c8:e9:9d), Dst: IntelCor_5b:ed:f7 (4c:1d:96:5b:ed:f7) Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.60.62 Transmission Control Protocol, Src Port: 80, Dst Port: 2637, Seq: 1, Ack: 392, Len: 1301 Hypertext Transfer Protocol

Line-based text data: text/html (23 lines) ←

```

<html>\n
<head>\n
<title>Lab2-4 file: Embedded URLs</title>\n
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1">\n
</head>\n
<body bgcolor="#FFFFFF" text="#000000">\n
<p>\n
 </p>\n
<p>This little HTML file is being served by gaia.cs.umass.edu. \n
It contains two embedded images. The image above, also served from the \n
gaia.cs.umass.edu web site, is the logo of our publisher, Pearson. \n
The image of our 8th edition book cover below is stored at, and served from,\n
a WWW server kurose.cslash.net in France:</p>\n
<p align="left"></p>\n
And while we have your attention, you might want to take time to check out the\n
\t\t available open resources for this book at\n
\t\t <a href="http://gaia.cs.umass.edu/kurose_ross"> http://gaia.cs.umass.edu/kurose_ross</a>\n
</body>\n
</html>\n

```

Hex dump and ASCII view of the selected packet data:

```

0190 73 65 74 3d 55 54 46 2d 38 0d 0a 0d 0a 3c 68 74 set=UTF-8...<ht
01a0 6d 6c 3e 0a 3c 68 65 61 64 3e 0a 3c 74 69 74 6c ml>.<head>.<titl
01b0 65 3e 4c 61 62 32 2d 34 20 66 69 6c 65 3a 20 45 e>Lab2-4 file: E
01c0 6d 62 65 64 64 65 64 20 55 52 4c 73 3c 2f 74 69 mbedded URLs</ti
01d0 74 6c 65 3e 0a 3c 6d 65 74 61 20 68 74 74 70 2d tle>.<me ta http-
01e0 65 71 75 69 76 3d 22 43 6f 6e 74 65 6e 74 2d 54 equiv="C ontent-T
01f0 79 70 65 22 20 63 6f 6e 74 65 6e 74 3d 22 74 65 ype" con tent="te
0200 78 74 2f 68 74 6d 6c 3b 20 63 68 61 72 73 65 74 xt/html; charset
0210 3d 69 73 6f 2d 38 38 35 39 2d 31 22 3e 0a 3c 2f =iso-885 9-1">.</
0220 68 65 61 64 3e 0a 0a 3c 62 6f 64 79 20 62 67 63 head>.< body bgc
0230 6f 6c 6f 72 3d 22 23 46 46 46 46 46 22 20 74 olor="#F FFFFF" t
0240 65 78 74 3d 22 23 30 30 30 30 30 22 3e 0a 0a ext="#00 0000">..
0250 3c 70 3e 0a 3c 69 6d 67 20 73 72 63 3d 22 68 74 <p>. </
02a0 70 3e 0a 3c 70 3e 54 68 69 73 20 6c 69 74 74 6c p>.<p>Th is littl
02b0 65 20 48 54 4d 4c 20 66 69 6c 65 20 69 73 20 62 e HTML f ile is b
02c0 65 69 6e 67 20 73 65 72 76 65 64 20 62 79 20 67 eing ser ved by g
02d0 61 69 61 2e 63 73 2e 75 6d 61 73 73 2e 65 64 75 aia.cs.u mass.edu
02e0 2e 20 0a 49 74 20 63 6f 6e 74 61 69 6e 73 20 74 . .It co ntains t
02f0 77 6f 20 65 6d 62 65 64 64 65 64 20 69 6d 61 67 wo embed ded imag
0300 65 73 2e 20 54 68 65 20 69 6d 61 67 65 20 61 62 es. The image ab
0310 6f 76 65 2c 20 61 6c 73 6f 20 73 65 72 76 65 64 ove, als o served
0320 20 66 72 6f 6d 20 74 68 65 20 0a 67 61 69 61 2e from th e gaia.
0330 63 73 2e 75 6d 61 73 73 2e 65 64 75 20 77 65 62 cs.umass .edu web
0340 20 73 69 74 65 2c 20 69 73 20 74 68 65 20 6c 6f site, i s the lo
0350 67 6f 20 6f 66 20 6f 75 72 20 70 75 62 6c 69 73 go of ou r publis
0360 68 65 72 2c 20 50 65 61 72 73 6f 6e 2e 20 0a 54 her, Pea rson. .T
0370 68 65 20 69 6d 61 67 65 20 6f 66 20 6f 75 72 20 he image of our
0380 38 74 68 20 65 64 69 74 69 6f 6e 20 62 6f 6f 6b 8th edit ion book

```

No.	Time	Source	Destination	Protocol	Length	Info
583	2.606581	192.168.60.62	128.119.245.12	HTTP	445	GET /wireshark-labs/HTTP-wireshark-file4.html HTTP/1.1
618	2.848051	128.119.245.12	192.168.60.62	HTTP	1355	HTTP/1.1 200 OK (text/html)
627	2.976882	192.168.60.62	128.119.245.12	HTTP	402	GET /pearson.png HTTP/1.1
654	3.166607	192.168.60.62	128.119.245.12	HTTP	402	GET /favicon.ico HTTP/1.1
719	3.412041	2a01:5ec0:1800:8b12...	2a00:1450:400f:802:...	HTTP	382	GET /css?family=Lato HTTP/1.1
744	3.486581	128.119.245.12	192.168.60.62	HTTP	926	HTTP/1.1 200 OK (PNG) ←
752	3.517845	128.119.245.12	192.168.60.62	HTTP	538	HTTP/1.1 404 Not Found (text/html)
771	3.564687	2a00:1450:400f:802:...	2a01:5ec0:1800:8b12...	HTTP	971	HTTP/1.1 200 OK (text/css)
831	3.878999	2a01:5ec0:1800:8b12...	2a00:1450:400f:804:...	HTTP	479	GET /s/lato/v24/S6uyw4BMUTPHjx4wXg.woff2 HTTP/1.1
941	4.167695	2a00:1450:400f:804:...	2a01:5ec0:1800:8b12...	HTTP	1104	HTTP/1.1 200 OK (font/woff2)
997	4.372306	192.168.60.62	178.79.137.164	HTTP	369	GET /8E_cover_small.jpg HTTP/1.1
1056	4.617119	178.79.137.164	192.168.60.62	HTTP	225	HTTP/1.1 301 Moved Permanently
1239	5.263544	2a01:5ec0:1800:8b12...	2600:1417:3::5f64:a...	OCSP	499	Request
1318	5.513480	2600:1417:3::5f64:a...	2a01:5ec0:1800:8b12...	OCSP	963	Response

<

> Frame 744: 926 bytes on wire (7408 bits), 926 bytes captured (7408 bits) on interface \Device\NPF_{...}

> Ethernet II, Src: 52:c5:cb:c8:e9:9d (52:c5:cb:c8:e9:9d), Dst: IntelCor_5b:ed:f7 (4c:1d:96:5b:ed:f7)

> Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.60.62

> Transmission Control Protocol, Src Port: 80, Dst Port: 2638, Seq: 2741, Ack: 349, Len: 872

> [3 Reassembled TCP Segments (3612 bytes): #740(1370), #742(1370), #744(872)]

> Hypertext Transfer Protocol

▼ Portable Network Graphics ←

PNG Signature: 89504e470d0a1a0a

- > Image Header (IHDR)
- > Palette (PLTE)
- > Image data chunk (IDAT)
- > Image Trailer (IEND)

0150	65 2f 70 6e 67 0d 0a 0d 0a 89 50 4e 47 0d 0a 1a	e/png...PNG...
0160	0a 00 00 00 0d 49 48 44 52 00 00 00 fd 00 00 00IHD R.....
0170	c7 08 03 00 00 00 e5 0a a5 05 00 00 00 bd 50 4cPL.....
0180	54 45 ff ff ff 00 7f a3 3c 39 35 00 7c a1 00 77	TE.....<95- ..w
0190	9e 33 2f 2b 00 79 9f 21 1c 15 00 73 9b 37 34 30	-3/+y.!...s-740
01a0	30 2d 28 2a 26 20 8c 8b 8a 2d 29 24 00 72 9b ab	0-(*& ..-)\$r...
01b0	aa a9 f8 f8 f8 9c 9b 99 cb ca ca b9 b8 b7 53 51SQ.....
01c0	4e 64 62 60 27 23 1d 44 42 3e b4 b4 b3 23 1e 18	Ndb' '#.D B>...#..
01d0	1e 19 11 00 00 00 d6 d6 d5 f4 f3 f3 7d 7b 79 6e{yn.....
01e0	6c 6a 8f 8e 8c 5b 59 56 e1 e1 e1 cb de e6 81 b0	lj...[YV.....
01f0	c5 7e 7c 7a ce ce cd b1 cc d9 9a 99 98 bb d3 de	.. z:.....
0200	10 07 00 ed ed ed 74 a9 c0 18 12 08 91 b9 cb 4at.....J
0210	48 44 42 92 b0 58 9c b7 dc e9 ef e8 e8 e7 d5 e3	HDB..X.....
0220	ea a1 c3 d2 6a 68 66 33 8d ac 67 a4 bc 55 99 b5	...jhF3 ..g.U...

http

No.	Time	Source	Destination	Protocol	Length	Info
719	3.412041	2a01:5ec0:1800:8b12...	2a00:1450:400f:802:...	HTTP	382	GET /css?family=Lato HTTP/1.1
744	3.486581	128.119.245.12	192.168.60.62	HTTP	926	HTTP/1.1 200 OK (PNG)
752	3.517845	128.119.245.12	192.168.60.62	HTTP	538	HTTP/1.1 404 Not Found (text/html)
771	3.564687	2a00:1450:400f:802:...	2a01:5ec0:1800:8b12...	HTTP	971	HTTP/1.1 200 OK (text/css)
831	3.878999	2a01:5ec0:1800:8b12...	2a00:1450:400f:804:...	HTTP	479	GET /s/lato/v24/S6uyw4BMUTPHjx4wXg.woff2 HTTP/1.1
941	4.167695	2a00:1450:400f:804:...	2a01:5ec0:1800:8b12...	HTTP	1104	HTTP/1.1 200 OK (font/woff2)
997	4.372306	192.168.60.62	178.79.137.164	HTTP	369	GET /8E_cover_small.jpg HTTP/1.1
1056	4.617119	178.79.137.164	192.168.60.62	HTTP	225	HTTP/1.1 301 Moved Permanently
1239	5.263544	2a01:5ec0:1800:8b12...	2600:1417:3::5f64:a...	OCSP	499	Request
1318	5.513480	2600:1417:3::5f64:a...	2a01:5ec0:1800:8b12...	OCSP	963	Response

> Frame 771: 971 bytes on wire (7768 bits), 971 bytes captured (7768 bits) on interface \Device\NPF_{...}

> Ethernet II, Src: 52:c5:cb:c8:e9:9d (52:c5:cb:c8:e9:9d), Dst: IntelCor_5b:ed:f7 (4c:1d:96:5b:ed:f7)

> Internet Protocol Version 6, Src: 2a00:1450:400f:802::200a, Dst: 2a01:5ec0:1800:8b12:c4cf:11e7:edee:

> Transmission Control Protocol, Src Port: 80, Dst Port: 2640, Seq: 1, Ack: 309, Len: 897

> Hypertext Transfer Protocol

> Line-based text data: text/css (16 lines)

```

/* latin-ext */\n
@font-face {\n
  font-family: 'Lato';\n
  font-style: normal;\n
  font-weight: 400;\n
  src: url(http://fonts.gstatic.com/s/lato/v24/S6uyw4BMUTPHjx4wXjeu.woff2) format('woff2');\n
  unicode-range: U+0100-02AF, U+0304, U+0308, U+0329, U+1E00-1E9F, U+1EF2-1EFF, U+2020, U+20A0-20AB,\n
}\n
/* latin */\n
@font-face {\n
  font-family: 'Lato';\n
  font-style: normal;\n
  font-weight: 400;\n
  src: url(http://fonts.gstatic.com/s/lato/v24/S6uyw4BMUTPHjx4wXg.woff2) format('woff2');\n
  unicode-range: U+0000-00FF, U+0131, U+0152-0153, U+02BB-02BC, U+02C6, U+02DA, U+02DC, U+0304, U+0308,\n
}\n

```

0000 2f 2a 20 6c 61 74 69 6e 2d 65 78 74 20 2a 2f 0a /* latin-ext */\n

0010 40 66 6f 6e 74 2d 66 61 63 65 20 7b 0a 20 20 66 @font-face {\n

0020 6f 6e 74 2d 66 61 6d 69 6c 79 3a 20 27 4c 61 74 ont-fa ce { . f

0030 6f 27 3b 0a 20 20 66 6f 6e 74 2d 73 74 79 6c 65 o'; . fo nt-style

0040 3a 20 6e 6f 72 6d 61 6c 3b 0a 20 20 66 6f 6e 74 : normal ; . font

0050 2d 77 65 69 67 68 74 3a 20 34 30 30 3b 0a 20 20 -weight: 400; .

0060 73 72 63 3a 20 75 72 6c 28 68 74 74 70 3a 2f 2f src: url (http://

0070 66 6f 6e 74 73 2e 67 73 74 61 74 69 63 2e 63 6f fonts.gs tatic.co

0080 6d 2f 73 2f 6c 61 74 6f 2f 76 32 34 2f 53 36 75 m/s/lato /v24/S6u

0090 79 77 34 42 4d 55 54 50 48 6a 78 41 77 58 6a 65 yw4BMUTP Hjx4wXje

00a0 75 2e 77 6f 66 66 32 29 20 66 6f 72 6d 61 74 28 u.woff2) format(

00b0 27 77 6f 66 66 32 27 29 3b 0a 20 20 75 6e 69 63 'woff2') ; . unic

00c0 6f 64 65 2d 72 61 6e 67 65 3a 20 55 2b 30 31 30 ode-rang e: U+010

00d0 30 2d 30 32 41 46 2c 20 55 2b 30 33 30 34 2c 20 0-02AF, U+0304,

00e0 55 2b 30 33 30 38 2c 20 55 2b 30 33 32 39 2c 20 U+0308, U+0329,

00f0 55 2b 31 45 30 30 2d 31 45 39 46 2c 20 55 2b 31 U+1E00-1 E9F, U+1

0100 45 46 32 2d 31 45 46 46 2c 20 55 2b 32 30 32 30 EF2-1EFF , U+2020

0110 2c 20 55 2b 32 30 41 30 2d 32 30 41 42 2c 20 55 , U+20A0 -20AB, U

0120 2b 32 30 41 44 2d 32 30 43 46 2c 20 55 2b 32 31 +20AD-20 CF, U+21

0130 31 33 2c 20 55 2b 32 43 36 30 2d 32 43 37 46 2c 13, U+2C 60-2C7F,

0140 20 55 2b 41 37 32 30 2d 41 37 46 46 3b 0a 7d 0a U+A720- A7FF; .}

0150 2f 2a 20 6c 61 74 69 6e 20 2a 2f 0a 40 66 6f 6e /* latin */ .@fon

0160 74 2d 66 61 63 65 20 7b 0a 20 20 66 6f 6e 74 2d t-face { . font-

0170 66 61 6d 69 6c 79 3a 20 27 4c 61 74 6f 27 3b 0a family: 'Lato'; .

0180 20 20 66 6f 6e 74 2d 73 74 79 6c 65 3a 20 6e 6f font-s tyle: no

http

No.	Time	Source	Destination	Protocol	Length	Info
719	3.412041	2a01:5ec0:1800:8b12...	2a00:1450:400f:802:...	HTTP	382	GET /css?family=Lato HTTP/1.1
744	3.486581	128.119.245.12	192.168.60.62	HTTP	926	HTTP/1.1 200 OK (PNG)
752	3.517845	128.119.245.12	192.168.60.62	HTTP	538	HTTP/1.1 404 Not Found (text/html)
771	3.564687	2a00:1450:400f:802:...	2a01:5ec0:1800:8b12...	HTTP	971	HTTP/1.1 200 OK (text/css)
831	3.878999	2a01:5ec0:1800:8b12...	2a00:1450:400f:804:...	HTTP	479	GET /s/lato/v24/S6uyw4BMUTPHjx4wXg.woff2 HTTP/1.1
941	4.167695	2a00:1450:400f:804:...	2a01:5ec0:1800:8b12...	HTTP	1104	HTTP/1.1 200 OK (font/woff2) ←
997	4.372306	192.168.60.62	178.79.137.164	HTTP	369	GET /8E_cover_small.jpg HTTP/1.1
1056	4.617119	178.79.137.164	192.168.60.62	HTTP	225	HTTP/1.1 301 Moved Permanently
1239	5.263544	2a01:5ec0:1800:8b12...	2600:1417:3::5f64:a...	OCSP	499	Request
1318	5.513480	2600:1417:3::5f64:a...	2a01:5ec0:1800:8b12...	OCSP	963	Response

< >

> Frame 941: 1104 bytes on wire (8832 bits), 1104 bytes captured (8832 bits) on interface \Device\NPF...
 > Ethernet II, Src: 52:c5:cb:c8:e9:9d (52:c5:cb:c8:e9:9d), Dst: IntelCor_5b:ed:f7 (4c:1d:96:5b:ed:f7)
 > Internet Protocol Version 6, Src: 2a00:1450:400f:804::2003, Dst: 2a01:5ec0:1800:8b12:c4cf:11e7:edee:
 > Transmission Control Protocol, Src Port: 80, Dst Port: 2642, Seq: 23311, Ack: 406, Len: 1030
 > [20 Reassembled TCP Segments (24340 bytes): #886(1350), #887(1350), #888(1350), #889(1350), #890(1350)
 > Hypertext Transfer Protocol
 Media Type ←
 Media type: font/woff2 (23580 bytes)

02f0 6f 66 66 32 0d 0a 0d 0a 77 4f 46 32 00 01 00 00 off2... wOF2...
 0300 00 00 5c 1c 00 10 00 00 00 00 ed 2c 00 00 5b be ..\.....,.[.
 0310 00 01 00 00 00 00 00 00 00 00 00 00 00 00 00z.p~
 0320 00 00 00 00 00 00 00 00 1b a4 7a 1c 70 06 60 00
 0330 81 44 08 2e 09 8d 65 11 0c 0a 83 8c 08 82 f0 5d -D...e.....]
 0340 0b 83 42 00 01 36 02 24 03 86 76 04 20 05 85 18 ..B..6-\$..v...
 0350 07 84 45 0c 4b 1b a1 dc 35 63 5b 52 c3 ee 56 05 ..E.K...5c[R.V.
 0360 56 72 21 ce d9 c8 d8 e3 24 19 a8 ea c8 40 6e 07 Vr!.....\$....@n.
 0370 91 50 ca 2e 98 fd ff 27 25 95 31 b6 0f db 7f 90 .P....'%.1....
 0380 83 45 0b 00 b8 03 00 20 45 54 11 2c 03 40 00 ..A..%..T..G..

http

No.	Time	Source	Destination	Protocol	Length	Info
719	3.412041	2a01:5ec0:1800:8b12...	2a00:1450:400f:802:...	HTTP	382	GET /css?family=Lato HTTP/1.1
744	3.486581	128.119.245.12	192.168.60.62	HTTP	926	HTTP/1.1 200 OK (PNG)
752	3.517845	128.119.245.12	192.168.60.62	HTTP	538	HTTP/1.1 404 Not Found (text/html)
771	3.564687	2a00:1450:400f:802:...	2a01:5ec0:1800:8b12...	HTTP	971	HTTP/1.1 200 OK (text/css)
831	3.878999	2a01:5ec0:1800:8b12...	2a00:1450:400f:804:...	HTTP	479	GET /s/lato/v24/S6uyw4BMUTPHjx4wXg.woff2 HTTP/1.1
941	4.167695	2a00:1450:400f:804:...	2a01:5ec0:1800:8b12...	HTTP	1104	HTTP/1.1 200 OK (font/woff2)
997	4.372306	192.168.60.62	178.79.137.164	HTTP	369	GET /8E_cover_small.jpg HTTP/1.1
1056	4.617119	178.79.137.164	192.168.60.62	HTTP	225	HTTP/1.1 301 Moved Permanently
1239	5.263544	2a01:5ec0:1800:8b12...	2600:1417:3::5f64:a...	OCSP	499	Request
1318	5.513480	2600:1417:3::5f64:a...	2a01:5ec0:1800:8b12...	OCSP	963	Response

> Frame 1056: 225 bytes on wire (1800 bits), 225 bytes captured (1800 bits) on interface \Device\NPF...
> Ethernet II, Src: 52:c5:cb:c8:e9:9d (52:c5:cb:c8:e9:9d), Dst: IntelCor_Sb:ed:f7 (4c:1d:96:5b:ed:f7)
> Internet Protocol Version 4, Src: 178.79.137.164, Dst: 192.168.60.62
> Transmission Control Protocol, Src Port: 80, Dst Port: 2641, Seq: 1, Ack: 316, Len: 171
< Hypertext Transfer Protocol
 < HTTP/1.1 301 Moved Permanently\r\n
 > [Expert Info (Chat/Sequence): HTTP/1.1 301 Moved Permanently\r\n]
 Response Version: HTTP/1.1
 Status Code: 301
 [Status Code Description: Moved Permanently]
 Response Phrase: Moved Permanently
 Location: https://kurose.cslash.net/8E_cover_small.jpg\r\n
 > Content-Length: 0\r\n
 Date: Tue, 13 Jun 2023 13:42:42 GMT\r\n
 Server: lighttpd/1.4.47\r\n
 \r\n
 [HTTP response 1/1]
 [Time since request: 0.244813000 seconds]
 [Request in frame: 997]
 [Request URI: http://kurose.cslash.net/8E_cover_small.jpg]

0000 4c 1d 96 5b ed f7 52 c5 cb c8 e9 9d 08 00 45 00 L...R...E..
0010 00 d3 ed a9 40 00 7c 06 d7 a0 b2 4f 89 a4 c0 a8 ...@|...0...
0020 3c 3e 00 50 0a 51 5b 4b ac de 33 f5 ed 8e 50 18 <>P.Q[K...3...P-
0030 02 e4 34 84 00 00 48 54 54 50 2f 31 2e 31 20 33 --4...HT TP/1.1 3
0040 30 31 20 4d 6f 76 65 64 20 50 65 72 6d 61 6e 65 01 Moved Permane
0050 6e 74 6c 79 0d 0a 4c 6f 63 61 74 69 6f 6e 3a 20 ntly...Lo cation:
0060 68 74 74 70 73 3a 2f 2f 6b 75 72 6f 73 65 2e 63 https:// kurose.c
0070 73 6c 61 73 68 2e 6e 65 74 2f 38 45 5f 63 6f 76 slash.ne t/8E_cov
0080 65 72 5f 73 6d 61 6c 6c 2e 6a 70 67 0d 0a 43 6f er_small .jpg...Co
0090 6e 74 65 6e 74 2d 4c 65 6e 67 74 68 3a 20 30 0d ntent-Le ngth: 0
00a0 0a 44 61 74 65 3a 20 54 75 65 2c 20 31 33 20 4a -Date: T ue, 13 J
00b0 75 6e 20 32 30 32 33 20 31 33 3a 34 32 3a 34 32 un 2023 13:42:42
00c0 20 47 4d 54 0d 0a 53 65 72 76 65 72 3a 20 6c 69 GMT...Se rver: li
00d0 67 68 74 74 70 64 2f 31 2e 34 2e 34 37 0d 0a 0d ghttpd/1 .4.47...
00e0 0a