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HW1

1/29/20

NOTE: In advance, I apologize if screenshotting the print pages is not allowed, I believed it would the best way to combine all the information.

Part 1

- 1. Three Protocols:
 - a. SSDP
 - b. HTTP
 - c. DNS
- Time for HTTP GET: 2.81154

No.	Time	Source	Destination	Protocol	Length	Info
-	230 2.841154	128.61.78.183	128.119.245.12	HTTP	520	GET /wireshark-labs/INTRO-wireshark-t
4	234 2.891030	128.119.245.12	128.61.78.183	HTTP	492	HTTP/1.1 200 OK (text/html)

3. Internet Address

a. gaia.cs.umass.edu: 128.119.245.12b. My Computer: 128.61.78.183

4. Printed HTTP

a. GET:

```
No. Time Source Destination Protocol Length Info
230 2.841154 128.61.78.183 128.119.245.12 HTTP 520 GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1
Frame 230: 520 bytes on wire (4160 bits), 520 bytes captured (4160 bits) on interface \Device\MPF_{21790D17-9FE4-479E-8E54-C1B31A7A48BB}, id
0
Ethernet II, Src: 9e:b6:38:14:84:5c (9e:b6:38:14:84:5c), Dst: Cisco_ed:c0:c0 (00:1b:0d:ed:c0:c0)
Internet Protocol Version 4, Src: 128.61.78.183, Dst: 128.119.245.12
Transmission Control Protocol, Src Port: 54416, Dst Port: 80, Seq: 1, Ack: 1, Len: 466
Hypertext Transfer Protocol
GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1\r\n
[Expert Info (Chat/Sequence): GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1\r\n
Request Wethod: GET
Request Wethod: GET
Request Version: HTTP/1.1
Host: gaia.cs.umass.edu/r\n
Connection: keep-alive\r\n
Uyerade-Insecure-Requests: 1\r\n
Uyerade-Insecure-Requests: 1\r\n
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/79.0.3945.130 Safari/537.36\r\n
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=0.3y=0.9\r\n
Accept-Encoding: gzip, deflate\r\n
Accept-Encoding: gzip, deflate\r\n
Accept-Language: en-US_en;q=0.9\r\n
[HTTP request URI: http://gaia.cs.umass.edu/wireshark-labs/INTRO-wireshark-file1.html]
[HTTP request URI: http://gaia.cs.umass.edu/wireshark-labs/INTRO-wireshark-file1.html]
[Response in frame: 234]
```

b. OK:

```
No. Time Source Destination Protocol Length Info
234 2.891030 128.119.245.12 128.61.78.183 HTTP 492 HTTP/1.1 200 OK (text/html)
Frame 234: 492 bytes on wire (3936 bits), 492 bytes captured (3936 bits) on interface \Device\NPF_{21790D17-9FE4-479E-8E54-C1B31A7A48BB},
id 0
Ethernet II, Src: Cisco_ed:c0:c0 (00:1b:0d:ed:c0:c0), Dst: 9e:b6:38:14:84:5c (9e:b6:38:14:84:5c)
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 128.61.78.183
Transmission Control Protocol, Src Port: 80, Dst Port: 54416, Seq: 1, Ack: 467, Len: 438
Hypertext Transfer Protocol
     HTTP/1.1 200 OK\r\n

[Expert Info (Chat/Sequence): HTTP/1.1 200 OK\r\n]
            Response Version: HTTP/1.1
            Status Code: 200
[Status Code Description: OK]
            Response Phrase: OK
     Date: Fri, 31 Jan 2020 01:59:11 GMT\r\n Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/5.4.16 mod_perl/2.0.11 Perl/v5.16.3\r\n
     Server: Apacne/2.4.6 (Lentus) OpenSSL/1.0.2K-TIPS
Last-Modified: Thu, 30 Jan 2020 06:59:04 GMT\r\n
ETag: "51-59d55fe144eee"\r\n
Accept-Ranges: bytes\r\n
Content-Length: 81\r\n
Keep-Alive: timeout=5, max=100\r\n
Connection: Keep-Alive\r\n
     Content-Type: text/html; charset=UTF-8\r\n
\r\n
[HTTP response 1/1]
      [Time since request: 0.049876000 seconds]
[Request in frame: 230]
      [Request URI: http://gaia.cs.umass.edu/wireshark-labs/INTRO-wireshark-file1.html]
 ine-based text data: text/html (3 lines)
      <html>\n
     Congratulations! You've downloaded the first Wireshark lab file!\n
      </html>\n
```

PT 2:

1. HTTP Version:

a. Browser: HTTP 1.1b. Server: HTTP 1.1

N	0.		Time	Source	Destination	Protocol	Length	Info
+	-	137	2.199081	128.61.78.183	128.119.245.12	HTTP	519	GET /wireshark-labs/HTTP-wireshark-file1.html HTTP/1.1
4	-	139	2.235883	128.119.245.12	128.61.78.183	HTTP	540	HTTP/1.1 200 OK (text/html)

2. Language: en-US;en;q=0.9

```
> Frame 137: 519 bytes on wire (4152 bits), 519 bytes captured (4152 bits) on interface \Device\NPF_{21790D17-9FE4
> Ethernet II, Src: 9e:b6:38:14:84:5c (9e:b6:38:14:84:5c), Dst: Cisco_ed:c0:c0 (00:1b:0d:ed:c0:c0)
> Internet Protocol Version 4, Src: 128.61.78.183, Dst: 128.119.245.12
  Transmission Control Protocol, Src Port: 54580, Dst Port: 80, Seq: 1, Ack: 1, Len: 465
  Hypertext Transfer Protocol
  ✓ GET /wireshark-labs/HTTP-wireshark-file1.html HTTP/1.1\r\n
     > [Expert Info (Chat/Sequence): GET /wireshark-labs/HTTP-wireshark-file1.html HTTP/1.1\r\n]
        Request Method: GET
        Request URI: /wireshark-labs/HTTP-wireshark-file1.html
        Request Version: HTTP/1.1
     Host: gaia.cs.umass.edu\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/79.0.3945.
     Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8,application/sigr
     Accept-Encoding: gzip, deflate\r\n
     Accept-Language: en-US,en;q=0.9\r\n
     \r\n
     [Full request URI: http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file1.html]
     [HTTP request 1/1]
     [Response in frame: 139]
```

3. IP Address:

a. Computer: 128.61.78.183b. Server: 128.119.245.12

4. Status Code: 200 OK

5. Last Modified: Thu, 30 Jan 2020 06:59:04 GMT

Hypertext Transfer Protocol V HTTP/1.1 200 OK\r\n > [Expert Info (Chat/Sequence): HTTP/1.1 200 OK\r\n] Response Version: HTTP/1.1 Status Code: 200 [Status Code Description: OK] Response Phrase: OK Date: Fri, 31 Jan 2020 02:03:43 GMT\r\n Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/5.4.16 mod_perl/2.0.11 Perl/v5.16.3\r\n Last-Modified: Thu, 30 Jan 2020 06:59:04 GMT\r\n

6. Content Length: 128 bytes

```
File Data: 128 bytes

Line-based text data: text/html (4 lines)

<html>\n
Congratulations. You've downloaded the file \n
http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file1.html!\n
</html>\n
```

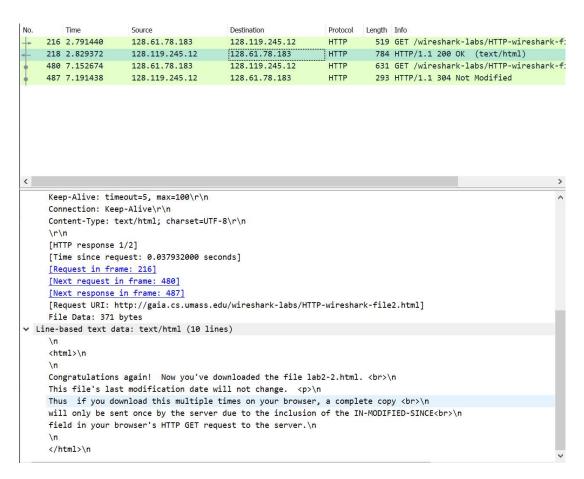
- 7. No I do not see any other headers not displayed.
- 8. No IF-MODIFIED-SINCE.

```
Time
                                       Destination
                                                          Protocol Length Info
                    Source
    216 2.791440
                                       128.119.245.12
                    128.61.78.183
                                                          HTTP 519 GET /wireshark-labs/HTTP-wireshark-file2.html HTTP/1.1
    218 2.829372
                    128.119.245.12
                                       128.61.78.183
                                                                   784 HTTP/1.1 200 OK (text/html)
                                                          HTTP
    480 7.152674
                                                                   631 GET /wireshark-labs/HTTP-wireshark-file2.html HTTP/1.1
                    128.61.78.183
                                       128.119.245.12
                                                          HTTP
    487 7.191438
                    128.119.245.12
                                       128.61.78.183
                                                          HTTP
                                                                  293 HTTP/1.1 304 Not Modified
> Frame 216: 519 bytes on wire (4152 bits), 519 bytes captured (4152 bits) on interface \Device\NPF_{21790D17-9FE4-479E-8E54-C1B31A7A48BB}, id 0
> Ethernet II, Src: 9e:b6:38:14:84:5c (9e:b6:38:14:84:5c), Dst: Cisco_ed:c0:c0 (00:1b:0d:ed:c0:c0)
> Internet Protocol Version 4, Src: 128.61.78.183, Dst: 128.119.245.12
 Transmission Control Protocol, Src Port: 54709, Dst Port: 80, Seq: 1, Ack: 1, Len: 465

→ Hypertext Transfer Protocol

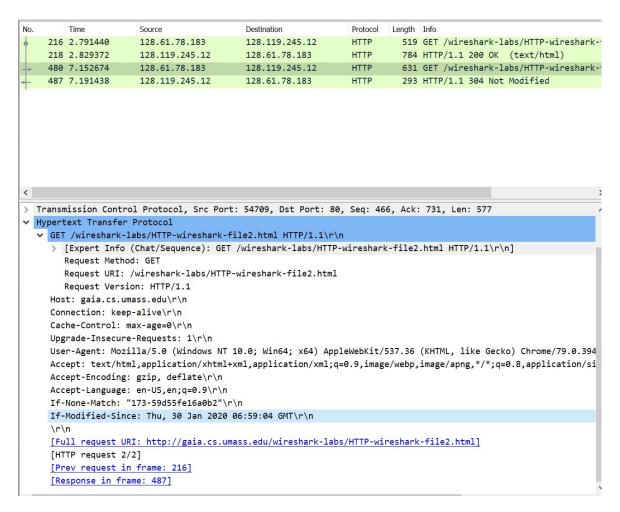
  ✓ GET /wireshark-labs/HTTP-wireshark-file2.html HTTP/1.1\r\n
    > [Expert Info (Chat/Sequence): GET /wireshark-labs/HTTP-wireshark-file2.html HTTP/1.1\r\n]
       Request Method: GET
       Request URI: /wireshark-labs/HTTP-wireshark-file2.html
       Request Version: HTTP/1.1
    Host: gaia.cs.umass.edu\r\n
    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/79.0.3945.130 Safari/537.36\r\n
    Accept-Encoding: gzip, deflate\r\
    Accept-Language: en-US,en;q=0.9\r\n
    [Full request URI: http://gaia.cs.umass.edu/wireshark-labs/HTTP-wireshark-file2.html]
    [HTTP request 1/1]
    [Response in frame: 218]
```

9. The server did return the contents of the file. You can tell by expanding the Line-based text data in Packet Contents of the response, which shows the file contents.



10. Yes, IF-MODIFIED-SINCE is present.

a. If-Modified-Since: Thu, 30 Jan 2020 06:59:04 GMT\r\n



- 11. HTTP Status Code: 304 Not Modified
 - a. We did not receive the full file contents as Line-based text data is not present
- 12. # of Packet with HTTP GET Requests: 1
 - a. Packet # = 338
- 13. # of Packet with Status Code and Phrase: 343

No.	Time	Source	Destination	Protocol	Length	Info
-	338 4.815710	128.61.78.183	128.119.245.12	HTTP	519	GET /wireshark-labs/HTTP-wireshark-
4	343 4.851359	128.119.245.12	128.61.78.183	HTTP	535	HTTP/1.1 200 OK (text/html)

- 14. Status Code and Phrase: 200 OK
- 15. # of data-containing TCP segments: 4 TCP Segments and then they were reassembled.

16. # of HTTP GET: 3.

a. First Request: The first page: 128.119.245.12b. Second Request: Pearson Logo: 128.119.245.12

c. Third Request: Cover of the Pearson Textbook: 128.119.245.12

No.	Time	Source	Destination	Protocol	Length In	fo
-	142 2.616467	128.61.78.183	128.119.245.12	HTTP	519 G	ET /wireshark-labs/HTTP-wireshark-f
-	144 2.647510	128.119.245.12	128.61.78.183	HTTP	1127 H	TTP/1.1 200 OK (text/html)
•	153 2.684650	128.61.78.183	128.119.245.12	HTTP	451 G	ET /pearson.png HTTP/1.1
	157 2.716263	128.119.245.12	128.61.78.183	HTTP	745 H	TTP/1.1 200 OK (PNG)
	163 2.749659	128.61.78.183	128.119.245.12	HTTP	465 GE	ET /~kurose/cover_5th_ed.jpg HTTP/1

- 17. The browser downloaded the images serially as the request for the logo was sent and received before the request for the book cover was sent.
- 18. Status Code and Phrase: 401 Unauthorized

No.	Time	Source	Destination	Protocol	Length Info
	79 2.443545	128.61.78.183	128.119.245.12	HTTP	535 GET /wireshark-labs/protected_pages/
	81 2.474422	128.119.245.12	128.61.78.183	HTTP	771 HTTP/1.1 401 Unauthorized (text/htm.
-	526 15.263034	128.61.78.183	128.119.245.12	HTTP	620 GET /wireshark-labs/protected_pages/
-	534 15.316305	128.119.245.12	128.61.78.183	HTTP	544 HTTP/1.1 200 OK (text/html)

19. New Field: Authorization Field in HTTP Protocol

79 2.443545 128.61.78.183 128.119.245.12 HTTP 535 GET /wireshark-labs/protected_pages/8														
81 2.474422 128.119.245.12 128.61.78.183 HTTP 771 HTTP/1.1 401 Unauthorized (text/htm.) 526 15.263034 128.61.78.183 128.119.245.12 HTTP 620 GET /wireshark-labs/protected_pages/t 534 15.316305 128.119.245.12 128.61.78.183 HTTP 544 HTTP/1.1 200 OK (text/html) 534 15.316305 128.119.245.12 128.61.78.183 HTTP 544 HTTP/1.1 200 OK (text/html) 534 15.316305 128.119.245.12 128.61.78.183 OK (text/html)	No.		Time	Source	Destination	Protocol	Length	Info						
526 15.263034 128.61.78.183 128.119.245.12 HTTP 620 GET /wireshark-labs/protected_pages/t 534 15.316305 128.119.245.12 128.61.78.183 HTTP 544 HTTP/1.1 200 OK (text/html) Frame 526: 620 bytes on wire (4960 bits), 620 bytes captured (4960 bits) on interface \Device\NPF_{21790D17-9FE4-}		79	2.443545	128.61.78.183	128.119.245.12	HTTP	535	GET	/wire	shark	-lab	os/protec	cted_pag	ges/H
534 15.316305 128.119.245.12 128.61.78.183 HTTP 544 HTTP/1.1 200 OK (text/html) > Frame 526: 620 bytes on wire (4960 bits), 620 bytes captured (4960 bits) on interface \Device\NPF_{21790D17-9FE4-		81	2.474422	128.119.245.12	128.61.78.183	HTTP	771	HTTF	7/1.1	401 L	Inaut	thorized	(text/	htm.
> Frame 526: 620 bytes on wire (4960 bits), 620 bytes captured (4960 bits) on interface \Device\NPF_{21790D17-9FE4-	-	526	15.263034	128.61.78.183	128.119.245.12	HTTP	620	GET	/wire	shark	-lab	os/protec	cted_pag	ges/H
Frame 526: 620 bytes on wire (4960 bits), 620 bytes captured (4960 bits) on interface \Device\NPF_{21790D17-9FE4-	-	534	15.316305	128.119.245.12	128.61.78.183	HTTP	544	HTTF	7/1.1	200 0	K ((text/htm	ml)	
	> F		Record and the second of the second										790D17-9	
							-							
Internet Protocol Version 4, Src: 128.61.78.183, Dst: 128.119.245.12					t: 55645, Dst Port: 8	0, Seq: 1,	Ack: 1	l, Le	n: 566	5				
Transmission Control Protocol, Src Port: 55645, Dst Port: 80, Seq: 1, Ack: 1, Len: 566	1000	A 25 (255) (2												
> Transmission Control Protocol, Src Port: 55645, Dst Port: 80, Seq: 1, Ack: 1, Len: 566 Hypertext Transfer Protocol)		• /		/HITP-Wiresnark-file5	.ntml HilP,	/1.1\r\	n						
> Transmission Control Protocol, Src Port: 55645, Dst Port: 80, Seq: 1, Ack: 1, Len: 566 Hypertext Transfer Protocol > GET /wireshark-labs/protected_pages/HTTP-wireshark-file5.html HTTP/1.1\r\n				BOOKER STOREST STORES										
> Transmission Control Protocol, Src Port: 55645, Dst Port: 80, Seq: 1, Ack: 1, Len: 566 Hypertext Transfer Protocol > GET /wireshark-labs/protected_pages/HTTP-wireshark-file5.html HTTP/1.1\r\n Host: gaia.cs.umass.edu\r\n														
> Transmission Control Protocol, Src Port: 55645, Dst Port: 80, Seq: 1, Ack: 1, Len: 566 Hypertext Transfer Protocol > GET /wireshark-labs/protected_pages/HTTP-wireshark-file5.html HTTP/1.1\r\n Host: gaia.cs.umass.edu\r\n Connection: keep-alive\r\n	,				NAdwal baazone I dudyono	-\n\n								
> Transmission Control Protocol, Src Port: 55645, Dst Port: 80, Seq: 1, Ack: 1, Len: 566 Hypertext Transfer Protocol > GET /wireshark-labs/protected_pages/HTTP-wireshark-file5.html HTTP/1.1\r\n Host: gaia.cs.umass.edu\r\n Connection: keep-alive\r\n Cache-Control: max-age=0\r\n	-				NOUWRIDINZOMBIUTUVCMS	- /1 /11								
> Transmission Control Protocol, Src Port: 55645, Dst Port: 80, Seq: 1, Ack: 1, Len: 566 Hypertext Transfer Protocol > GET /wireshark-labs/protected_pages/HTTP-wireshark-file5.html HTTP/1.1\r\n Host: gaia.cs.umass.edu\r\n Connection: keep-alive\r\n Cache-Control: max-age=0\r\n > Authorization: Basic d2lyZXNoYXJrLXN0dWRlbnRzOm51dHdvcms=\r\n					10 0: Win64: v64) An	nleWehKi+/	537 36	(KHTI	wı 1;	ka G	acko) Chrome	/79 A 30	945
Transmission Control Protocol, Src Port: 55645, Dst Port: 80, Seq: 1, Ack: 1, Len: 566 Hypertext Transfer Protocol GET /wireshark-labs/protected_pages/HTTP-wireshark-file5.html HTTP/1.1\r\n Host: gaia.cs.umass.edu\r\n Connection: keep-alive\r\n Cache-Control: max-age=0\r\n Authorization: Basic d2lyZXNoYXJrLXN0dWRlbnRzOm5ldHdvcms=\r\n Upgrade-Insecure-Requests: 1\r\n									-					
> Transmission Control Protocol, Src Port: 55645, Dst Port: 80, Seq: 1, Ack: 1, Len: 566 Hypertext Transfer Protocol > GET /wireshark-labs/protected_pages/HTTP-wireshark-file5.html HTTP/1.1\r\n Host: gaia.cs.umass.edu\r\n Connection: keep-alive\r\n Cache-Control: max-age=0\r\n > Authorization: Basic d2lyZXNoYXJrLXN0dWRlbnRzOm5ldHdvcms=\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/79.0.3945.			and a series of figures.		TAME, application/ AME,	q=0.5, illiagi	e/webp,	Tillagi	e/ aprile	5, /	, 4-0	.o,appii	cacion,	3 I gii
> Transmission Control Protocol, Src Port: 55645, Dst Port: 80, Seq: 1, Ack: 1, Len: 566 Hypertext Transfer Protocol > GET /wireshark-labs/protected_pages/HTTP-wireshark-file5.html HTTP/1.1\r\n Host: gaia.cs.umass.edu\r\n Connection: keep-alive\r\n Cache-Control: max-age=0\r\n > Authorization: Basic d21yZXNoYXJrLXN0dWRlbnRzOm51dHdvcms=\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/79.0.3945. Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8,application/sign														
> Transmission Control Protocol, Src Port: 55645, Dst Port: 80, Seq: 1, Ack: 1, Len: 566 Hypertext Transfer Protocol > GET /wireshark-labs/protected_pages/HTTP-wireshark-file5.html HTTP/1.1\r\n Host: gaia.cs.umass.edu\r\n Connection: keep-alive\r\n Cache-Control: max-age=0\r\n > Authorization: Basic d21yZXNoYXJrLXN0dWRlbnRzOm51dHdvcms=\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/79.0.3945. Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8,application/sign Accept-Encoding: gzip, deflate\r\n				e. en 03,en,q=0.5 (1 (11										
Transmission Control Protocol, Src Port: 55645, Dst Port: 80, Seq: 1, Ack: 1, Len: 566 Hypertext Transfer Protocol GET /wireshark-labs/protected_pages/HTTP-wireshark-file5.html HTTP/1.1\r\n Host: gaia.cs.umass.edu\r\n Connection: keep-alive\r\n Cache-Control: max-age=0\r\n Authorization: Basic d2lyZXNoYXJrLXN0dWRlbnRzOm5ldHdvcms=\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/79.0.3945. Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8,application/sign Accept-Encoding: gzip, deflate\r\n Accept-Language: en-US,en;q=0.9\r\n				JRI: http://gaia.cs.u	mass.edu/wireshark-la	bs/protect	ed page	s/HT	TP-wir	esha	rk-f	ile5.htm	11	
<pre>Transmission Control Protocol, Src Port: 55645, Dst Port: 80, Seq: 1, Ack: 1, Len: 566 Hypertext Transfer Protocol > GET /wireshark-labs/protected_pages/HTTP-wireshark-file5.html HTTP/1.1\r\n Host: gaia.cs.umass.edu\r\n Connection: keep-alive\r\n Cache-Control: max-age=0\r\n > Authorization: Basic d2lyZXNOYXJrLXN0dWRlbnRzOm5ldHdvcms=\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/79.0.3945. Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8,application/sign Accept-Encoding: gzip, deflate\r\n Accept-Language: en-US,en;q=0.9\r\n \r\n</pre>		150												
<pre>Transmission Control Protocol, Src Port: 55645, Dst Port: 80, Seq: 1, Ack: 1, Len: 566 Hypertext Transfer Protocol GET /wireshark-labs/protected_pages/HTTP-wireshark-file5.html HTTP/1.1\r\n Host: gaia.cs.umass.edu\r\n Connection: keep-alive\r\n Cache-Control: max-age=0\r\n Authorization: Basic d2lyZXNOYXJrLXN0dWRlbnRzOm5ldHdvcms=\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/79.0.3945. Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8,application/sign Accept-Encoding: gzip, deflate\r\n Accept-Language: en-US,en;q=0.9\r\n</pre>				The second secon										- 1

[Response in frame: 534]

Jord Raida 31 N / LI (1) L2 R2 END Time = Size of proket Time = (5+2+161) + (RA7L2)+(R27L3) 10,000 bits = 109 bits $= \left(2 \times \left(\frac{10^4}{20 \text{Mbg}}\right) + \left(\frac{10^4}{100 \text{MJg}}\right)\right) = \left(2 \times \frac{11}{20 \times 10^2} + \frac{1}{10^4}\right)$ $= \left(\frac{2}{20 \times 10^{2}} + \frac{1}{10^{4}}\right) = \left(\frac{1}{40^{4}} + \frac{1}{10^{3}}\right) = \left(\frac{11}{10^{4}}\right) = \left(\frac{1}{10^{4}}\right) = \left(\frac{1}{10^{$ PA L2 R2 END

PA L2 Pockets

1 your in green Time = (5/2+711) + 3 (R1-712) + 4 (R2-713) $= \left(\frac{1046.43}{20406}\right) + 3\left(\frac{104}{100406}\right) + 4\left(\frac{104}{20406}\right)$ = $5\left(\frac{10^4}{20\times10^6}\right) + 3\left(\frac{10^4}{190\times10^6}\right)$ $= \frac{5}{20\times10^2} + \frac{3}{10^2} \left[\frac{28}{100} \right] = \frac{28}{10^4}$

