

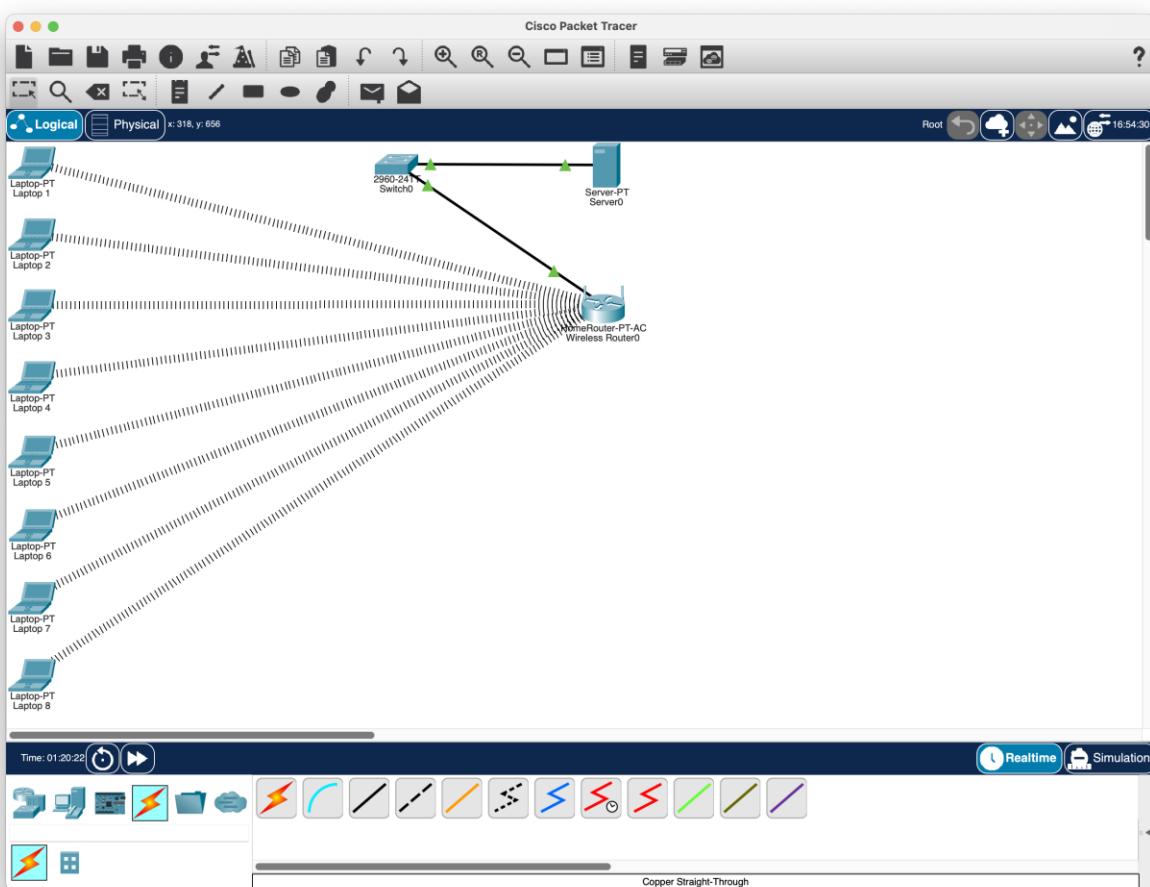
Assignment 1

1. Mobile network operators need to constantly maintain a subscriber's approximate location using procedures such as registration, where the phone periodically informs the network of its location area, and paging, where the network broadcasts to find a device for an incoming call or data. This is bad for users because it leads to privacy concerns and issues. For instance, if the operator's records demonstrate that a user is frequently registering near a hospital or clinic, this information could be leaked or misused to expose sensitive personal details, which can enable profiling or surveillance without the user's consent. Nevertheless, this same location tracking can also be beneficial for users because it enables important services. For instance, during a 911 emergency call, the system can use the phone's location information to guide first responders to the caller, even if the caller is not able to provide their location. This enables faster response times and can drastically save lives.
2. To set up a small computer lab for 8 SMU students, the LAN would need to entail several key components.
 - a. **Devices:** Each student would use a laptop connected to the network. These laptops could connect in two ways: (1) directly to a central Ethernet switch using Cat6 cables for maximum stability, or (2) wirelessly through a wireless access point (WAP) connected to the same switch. A router would then link the lab to the wider campus backbone or Internet, handling DHCP for IP addressing and NAT if required. To support collaboration, the lab could also include a shared printer or a file server accessible to all students.
 - b. **Connections:** The LAN would use a star topology, where each laptop connects either by Ethernet or Wi-Fi to the central switch and wireless access point. The switch uplinks to the router, which serves as the default gateway (192.168.10.1). The router's DHCP service automatically assigns addresses in the 192.168.10.0/24 subnet, ensuring consistency and reducing manual configuration. This setup allows each laptop to communicate with the gateway and access external resources.
 - c. **Use cases:** Students would use the LAN for accessing SMU's online course materials, submitting assignments, collaborating on shared projects, and printing documents via a shared network printer. The network would also support secure file sharing and software updates. Wireless access provides mobility for students moving between seats or using mobile devices, while wired connections ensure reliability for bandwidth-intensive tasks. Overall, this laptop-based LAN balances flexibility, simplicity, and scalability, making it well-suited for a small classroom or computer lab setting.

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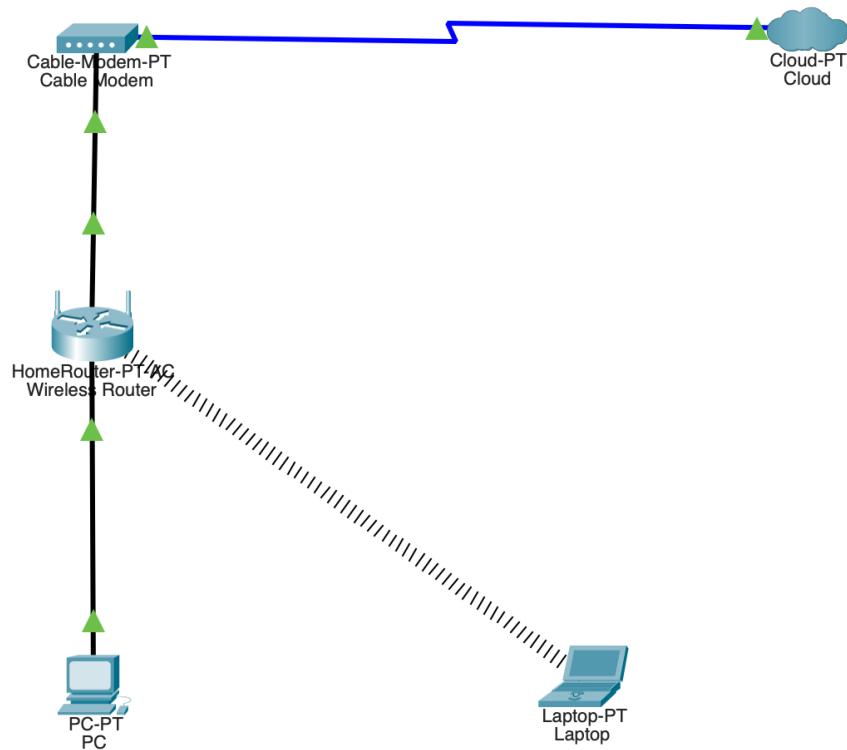
Assignment 1

3.



Assignment 1

4.



Assignment 1

The screenshot shows two windows side-by-side, both titled with their respective device names: "PC0" and "Laptop". Each window has a top bar with five tabs: Physical, Config, Desktop, Programming, and Attributes. The "Desktop" tab is selected in both windows. Below the tabs is a blue header bar labeled "Command Prompt" with a close button ("X") on the right.

PC0 Command Prompt Output:

```
Cisco Packet Tracer PC Command Line 1.0
C:>ipconfig/all
Invalid Command.

C:>ipconfig/all
Invalid Command.

C:>ipconfig /all

FastEthernet0 Connection:(default port)

Connection-specific DNS Suffix...:
Physical Address.....: 0060.7019.84AB
Link-local IPv6 Address....: FE80::260:70FF:FE19:84AB
IPv6 Address.....:::
IPv4 Address.....: 192.168.0.101
Subnet Mask.....: 255.255.255.0
Default Gateway.....:::
192.168.0.1
DHCP Servers.....: 192.168.0.1
DHCPv6 IAID.....:
DHCPv6 Client DUID.....: 00-01-00-01-E6-BC-7D-74-00-60-70-19-84-AB
DNS Servers.....:::
0.0.0.0

Bluetooth Connection:

Connection-specific DNS Suffix...:
Physical Address.....: 0060.5CE2.6D3A
Link-local IPv6 Address....: ::
```

Laptop Command Prompt Output:

```
Wireless0 Connection:

Connection-specific DNS Suffix...:
Physical Address.....: 0060.473A.04A5
Link-local IPv6 Address....: FE80::260:47FF:FE3A:4A5
--More--
ipconfig /all
IPv6 Address.....:::
IPv4 Address.....: 192.168.0.102
Subnet Mask.....: 255.255.255.0
Default Gateway.....:::
192.168.0.1
DHCP Servers.....: 192.168.0.1
DHCPv6 IAID.....: 165599346
DHCPv6 Client DUID.....: 00-01-00-01-B3-D9-D6-AD-00-60-47-3A-04-A5
DNS Servers.....:::
0.0.0.0

Bluetooth Connection:(default port)

Connection-specific DNS Suffix...:
Physical Address.....: 0001.9684.98E6
Link-local IPv6 Address....: ::
```

5. Answer the following questions, based on your Wireshark experimentation:

1. List 3 different protocols that appear in the protocol column in the unfiltered packet-listing window in step 7 above.

- a. ARP

Assignment 1

- b. TCP
- c. QUIC

No.	Time	Source	Destination	Protocol	Length	Info
5675	390.146153	10.0.0.2	142.250.114.95	QUIC	71	Protected Payload (KPO), DCID=fda5803ecb38951f
5676	390.166955	142.250.114.95	10.0.0.2	QUIC	68	Protected Payload (KPO)
5677	390.292614	Samsunglect_86:e6:..	Broadcast	ARP	60	Who has 10.0.0.1? Tell 10.0.0.220
5678	390.368914	10.0.0.2	142.250.114.95	QUIC	71	Protected Payload (KPO), DCID=fda5803ecb38951f
5679	390.396085	142.250.114.95	10.0.0.2	QUIC	68	Protected Payload (KPO)
5680	390.608077	10.0.0.2	142.250.114.95	QUIC	71	Protected Payload (KPO), DCID=fda5803ecb38951f
5681	390.628647	142.250.114.95	10.0.0.2	QUIC	68	Protected Payload (KPO)
5682	390.831104	10.0.0.2	142.250.114.95	QUIC	71	Protected Payload (KPO), DCID=fda5803ecb38951f
5683	390.857670	142.250.114.95	10.0.0.2	QUIC	68	Protected Payload (KPO)
5684	391.180304	10.0.0.2	75.75.77.117	TCP	55	[TCP Keep-Alive] 52882 → 443 [ACK] Seq=5847 Ack=5949 Win=253 Len=1
5685	391.195530	75.75.77.117	10.0.0.2	TCP	60	[TCP Keep-Alive ACK] 443 → 52882 [ACK] Seq=5949 Ack=5848 Win=51100 Len=0
5686	391.259761	10.0.0.2	142.250.114.95	QUIC	71	Protected Payload (KPO), DCID=fda5803ecb38951f
5687	391.283868	142.250.114.95	10.0.0.2	QUIC	68	Protected Payload (KPO)
5688	391.563588	10.0.0.2	104.208.203.90	TLSv1.2	155	Application Data
5689	391.625108	104.208.203.90	10.0.0.2	TLSv1.2	225	Application Data
5690	391.671968	10.0.0.2	104.208.203.90	TCP	54	49428 → 443 [ACK] Seq=203 Ack=343 Win=251 Len=0
5691	391.911917	10.0.0.2	75.75.77.118	TLSv1.2	250	Application Data

2. How long did it take from when the HTTP GET message was sent until the HTTP OK reply was received? (By default, the value of the Time column in the packet listing window is the amount of time, in seconds, since Wireshark tracing began. To display the Time field in time-of-day format, select the Wireshark View pull down menu, then select Time Display Format, then select Time-of-day.)

- a. It took from 23:34:29.054 to 23:34:29.127 = 73 Milliseconds

No.	Time	Source	Destination	Protocol	Length	Info
101	23:34:29.054	10.0.0.2	128.119.245.12	HTTP	527	GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1
103	23:34:29.127	128.119.245.12	10.0.0.2	HTTP	492	HTTP/1.1 200 OK (text/html)
1059	23:34:29.182	10.0.0.2	128.119.245.12	HTTP	473	GET /favicon.ico HTTP/1.1
1077	23:34:29.257	128.119.245.12	10.0.0.2	HTTP	538	HTTP/1.1 404 Not Found (text/html)
1524	23:35:03.431	151.101.182.172	10.0.0.2	HTTP	341	GET /msdownload/update/v3/static/trustedr/en/disallowedcertst1.cab?c6ce7cf24fd6f5d3 HTTP/1.1
1534	23:35:03.445	151.101.182.172	10.0.0.2	HTTP	256	HTTP/1.1 304 Not Modified
1534	23:35:03.461	151.101.182.172	10.0.0.2	HTTP	336	GET /msdownload/update/v3/static/trustedr/en/authrootst1.cab?999963bb247c8d24 HTTP/1.1
1534	23:35:03.477	151.101.182.172	10.0.0.2	HTTP	257	HTTP/1.1 304 Not Modified
2305	23:35:40.646	10.0.0.2	151.101.182.172	HTTP	341	GET /msdownload/update/v3/static/trustedr/en/disallowedcertst1.cab?a1fb52110afa305 HTTP/1.1
2307	23:35:40.664	151.101.182.172	10.0.0.2	HTTP	256	HTTP/1.1 304 Not Modified
2308	23:35:40.681	10.0.0.2	151.101.182.172	HTTP	336	GET /msdownload/update/v3/static/trustedr/en/authrootst1.cab?3bee1def0038ab2d HTTP/1.1
2310	23:35:40.697	151.101.182.172	10.0.0.2	HTTP	257	HTTP/1.1 304 Not Modified

3. What is the Internet address of the gaia.cs.umass.edu (also known as www.net.cs.umass.edu)?

- a. 128.119.245.12

What is the Internet address of your computer?

- b. 10.0.0.2

Assignment 1

No.	Time	Source	Destination	Protocol	Length	Info	Address:	Name:	OK	Cancel
1014	23:34:29.054	10.0.0.2	128.119.245.12	HTTP	527	GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1				
1034	23:34:29.127	128.119.245.12	10.0.0.2	HTTP	492	HTTP/1.1 200 OK (text/html)				
1059	23:34:29.182	10.0.0.2	128.119.245.12	HTTP	473	GET /favicon.ico HTTP/1.1				
1078	23:34:29.257	128.119.245.12	10.0.0.2	HTTP	538	HTTP/1.1 404 Not Found (text/html)				
1528	23:35:03.431	10.0.0.2	151.101.182.172	HTTP	341	GET /msdownload/update/v3/static/trustedr/en/disallowedcertstl.cab?c6ce7cf24fd6f5d3 HTTP/1.1				
1530	23:35:03.445	151.101.182.172	10.0.0.2	HTTP	256	HTTP/1.1 304 Not Modified				
1534	23:35:03.461	10.0.0.2	151.101.182.172	HTTP	336	GET /msdownload/update/v3/static/trustedr/en/authrootstl.cab?999063bb247c8d24 HTTP/1.1				
1536	23:35:03.477	151.101.182.172	10.0.0.2	HTTP	257	HTTP/1.1 304 Not Modified				
2305	23:35:40.646	10.0.0.2	151.101.182.172	HTTP	341	GET /msdownload/update/v3/static/trustedr/en/disallowedcertstl.cab?a14fb52110afa305 HTTP/1.1				
2307	23:35:40.664	151.101.182.172	10.0.0.2	HTTP	256	HTTP/1.1 304 Not Modified				
2308	23:35:40.681	10.0.0.2	151.101.182.172	HTTP	336	GET /msdownload/update/v3/static/trustedr/en/authrootstl.cab?3bee1def0038ab2d HTTP/1.1				
2310	23:35:40.697	151.101.182.172	10.0.0.2	HTTP	257	HTTP/1.1 304 Not Modified				

> Frame 1014: 527 bytes on wire (4216 bits), 527 bytes captured (4216 bits) on interface \Device\NPF_{B... > Ethernet II, Src: 3e:43:f3:3e:12:4a (3e:43:f3:3e:12:4a), Dst: VantivaConne_ea:7c:4f (3c:2d:9e:ea:7c:4f) > Internet Protocol Version 4, Src: 10.0.0.2, Dst: 128.119.245.12 > Transmission Control Protocol, Src Port: 61847, Dst Port: 80, Seq: 1, Ack: 1, Len: 473 ✓ Hypertext Transfer Protocol ✓ GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1\r\n Request Method: GET Request URI: /wireshark-labs/INTRO-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/139.0.0.0 Safari/537.36 KHTML, like Gecko\r	0060	68 74 6d 6c 20 48 54 54 50 2f 31 2e 31 0d 0a 46	html HTTP P/1.1.\r\nost: gai.acs.uma... ss.edu\r\nConnecti... on: keep-alive Upgrade: Insecure-Request : 1-Use er-Agent : Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/139.0.0.0 Safari/537.36 KHTML, like Gecko\r
	0070	6f 73 74 3a 20 67 61 69 61 2e 63 73 2e 75 6d 63	ost: gai.acs.uma... ss.edu\r\nConnecti... on: keep-alive Upgrade: Insecure-Request : 1-Use er-Agent : Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/139.0.0.0 Safari/537.36 KHTML, like Gecko\r
	0080	73 73 2e 65 64 75 0d 0a	ost: gai.acs.uma... ss.edu\r\nConnecti... on: keep-alive Upgrade: Insecure-Request : 1-Use er-Agent : Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/139.0.0.0 Safari/537.36 KHTML, like Gecko\r
	0090	43 6f 6e 65 63 74 69 61 2e 63 73 2e 75 6d 63	ost: gai.acs.uma... ss.edu\r\nConnecti... on: keep-alive Upgrade: Insecure-Request : 1-Use er-Agent : Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/139.0.0.0 Safari/537.36 KHTML, like Gecko\r
	00a0	55 78 63 72 61 64 65 2d 64 2e 63 73 65 63 75 72 65	ost: gai.acs.uma... ss.edu\r\nConnecti... on: keep-alive Upgrade: Insecure-Request : 1-Use er-Agent : Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/139.0.0.0 Safari/537.36 KHTML, like Gecko\r
	00b0	2d 52 65 71 75 73 74 73 3a 20 31 0d 0a 55 73	ost: gai.acs.uma... ss.edu\r\nConnecti... on: keep-alive Upgrade: Insecure-Request : 1-Use er-Agent : Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/139.0.0.0 Safari/537.36 KHTML, like Gecko\r
	00c0	65 72 2d 41 67 65 6e 74 3a 20 4d 6f 7a 69 6c 6c	ost: gai.acs.uma... ss.edu\r\nConnecti... on: keep-alive Upgrade: Insecure-Request : 1-Use er-Agent : Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/139.0.0.0 Safari/537.36 KHTML, like Gecko\r
	00d0	61 2f 35 2e 30 28 57 69 64 6f 77 73 20 4e	ost: gai.acs.uma... ss.edu\r\nConnecti... on: keep-alive Upgrade: Insecure-Request : 1-Use er-Agent : Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/139.0.0.0 Safari/537.36 KHTML, like Gecko\r
	00e0	54 20 31 30 2e 30 2b 57 69 6e 36 34 3b 20 78	ost: gai.acs.uma... ss.edu\r\nConnecti... on: keep-alive Upgrade: Insecure-Request : 1-Use er-Agent : Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/139.0.0.0 Safari/537.36 KHTML, like Gecko\r
	00f0	36 34 29 20 41 70 70 6b 65 57 65 62 4b 69 74 2f	ost: gai.acs.uma... ss.edu\r\nConnecti... on: keep-alive Upgrade: Insecure-Request : 1-Use er-Agent : Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/139.0.0.0 Safari/537.36 KHTML, like Gecko\r
	0100	53 33 32 20 30 36 20 28 4b 48 58 64 4c 2c 2b 61	ost: gai.acs.uma... ss.edu\r\nConnecti... on: keep-alive Upgrade: Insecure-Request : 1-Use er-Agent : Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/139.0.0.0 Safari/537.36 KHTML, like Gecko\r
	0110	69 63 62 20 47 39 39 29 43 52 52 52 52 52 6d	ost: gai.acs.uma... ss.edu\r\nConnecti... on: keep-alive Upgrade: Insecure-Request : 1-Use er-Agent : Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/139.0.0.0 Safari/537.36 KHTML, like Gecko\r
	0120	65 2d 34 33 39 2e 30 2e 30 2e 30 20 53 61 66 61	ost: gai.acs.uma... ss.edu\r\nConnecti... on: keep-alive Upgrade: Insecure-Request : 1-Use er-Agent : Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/139.0.0.0 Safari/537.36 KHTML, like Gecko\r
	0130	72 69 2d 2f 35 33 37 2e 33 36 0d 0a 41 63 63 65 70	ost: gai.acs.uma... ss.edu\r\nConnecti... on: keep-alive Upgrade: Insecure-Request : 1-Use er-Agent : Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/139.0.0.0 Safari/537.36 KHTML, like Gecko\r
	0140	74 3a 20 74 65 78 74 2f 68 74 6d 6c 2c 61 70 70	ost: gai.acs.uma... ss.edu\r\nConnecti... on: keep-alive Upgrade: Insecure-Request : 1-Use er-Agent : Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/139.0.0.0 Safari/537.36 KHTML, like Gecko\r
	0150	6c 69 63 61 74 69 6f 66 2f 78 68 74 6d 6c 2c 78	ost: gai.acs.uma... ss.edu\r\nConnecti... on: keep-alive Upgrade: Insecure-Request : 1-Use er-Agent : Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/139.0.0.0 Safari/537.36 KHTML, like Gecko\r
	0160	6d 6c 2c 61 70 70 6c 69 63 71 74 69 6f 6e 2f 78	ost: gai.acs.uma... ss.edu\r\nConnecti... on: keep-alive Upgrade: Insecure-Request : 1-Use er-Agent : Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/139.0.0.0 Safari/537.36 KHTML, like Gecko\r
	0170	6d 6c 3b 71 3d 30 2e 39 2c 69 6d 61 67 65 2f 61	ost: gai.acs.uma... ss.edu\r\nConnecti... on: keep-alive Upgrade: Insecure-Request : 1-Use er-Agent : Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/139.0.0.0 Safari/537.36 KHTML, like Gecko\r
	0180	69 63 62 20 47 39 39 29 43 52 52 52 52 6d	ost: gai.acs.uma... ss.edu\r\nConnecti... on: keep-alive Upgrade: Insecure-Request : 1-Use er-Agent : Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/139.0.0.0 Safari/537.36 KHTML, like Gecko\r
	0190	30 2e 38 6e 61 70 70 6c 69 63 61 74 69 6f 6e 2f	ost: gai.acs.uma... ss.edu\r\nConnecti... on: keep-alive Upgrade: Insecure-Request : 1-Use er-Agent : Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/139.0.0.0 Safari/537.36 KHTML, like Gecko\r
	01a0	73 69 67 6e 65 64 2d 65 78 63 68 61 6e 67 65 3b	ost: gai.acs.uma... ss.edu\r\nConnecti... on: keep-alive Upgrade: Insecure-Request : 1-Use er-Agent : Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/139.0.0.0 Safari/537.36 KHTML, like Gecko\r
	01b0		signed-e xchange;

4. Print the two HTTP messages (GET and OK) referred to in question 2 above. To do so, select Print from the Wireshark File command menu, and select the “Selected Packet Only” and “Print as displayed” radial buttons, and then click OK.

[GET] HTTP Message										
No.	Time	Source	Destination	Protocol	Length	Info				
1014	23:34:29.054	10.0.0.2	128.119.245.12	HTTP	527	GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1				
Frame 1014: 527 bytes on wire (4216 bits), 527 bytes captured (4216 bits) on interface \Device\NPF_{BC2399D8-F85C-44A7-97CB-11D16FD39997}, id 0										
Ethernet II, Src: 3e:43:f3:3e:12:4a (3e:43:f3:3e:12:4a), Dst: VantivaConne_ea:7c:4f (3c:2d:9e:ea:7c:4f)										
Internet Protocol Version 4, Src: 10.0.0.2, Dst: 128.119.245.12										
Transmission Control Protocol, Src Port: 61847, Dst Port: 80, Seq: 1, Ack: 1, Len: 473										
✓ Hypertext Transfer Protocol										
✓ GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1\r\n										
Request Method: GET										
Request URI: /wireshark-labs/INTRO-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/139.0.0.0 Safari/537.36 KHTML, like Gecko\r										
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7\r\n										
Accept-Encoding: gzip, deflate\r\n										
Accept-Language: en-US,en;q=0.9\r\n										
\r\n										
[Response in frame: 1034]										
[Full request URI: http://gaia.cs.umass.edu/wireshark-labs/INTRO-wireshark-file1.html]										
No.										
1034	23:34:29.127	128.119.245.12	10.0.0.2	HTTP	492	HTTP/1.1 200 OK (text/html)				
Frame 1034: 492 bytes on wire (3936 bits), 492 bytes captured (3936 bits) on interface \Device\NPF_{BC2399D8-F85C-44A7-97CB-11D16FD39997}, id 0										

[OK] HTTP Message

Assignment 1

```
Ethernet II, Src: VantivaConne_ea:7c:4f (3c:2d:9e:ea:7c:4f), Dst: 3e:43:f3:3e:12:4a (3e:43:f3:3e:12:4a)
Internet Protocol Version 4, Src: 128.119.245.12, Dst: 10.0.0.2
Transmission Control Protocol, Src Port: 80, Dst Port: 61847, Seq: 1, Ack: 474, Len: 438
Hypertext Transfer Protocol
    HTTP/1.1 200 OK\r\n
        Response Version: HTTP/1.1
        Status Code: 200
            [Status Code Description: OK]
        Response Phrase: OK
        Date: Fri, 05 Sep 2025 04:34:28 GMT\r\n
        Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/7.4.33 mod_perl/2.0.11 Perl/v5.16.3\r\n
        Last-Modified: Thu, 04 Sep 2025 05:59:02 GMT\r\n
        ETag: "51-63df36b075b5a"\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
[Request in frame: 1014]
[Time since request: 0.072711000 seconds]
[Request URI: /wireshark-labs/INTRO-wireshark-file1.html]
[Full request URI: http://gaia.cs.umass.edu/wireshark-labs/INTRO-wireshark-file1.html]
File Data: 81 bytes
Line-based text data: text/html (3 lines)
```

