

Net-Fall 21 -- Assignment 00

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Task 1 - Explore HTTP

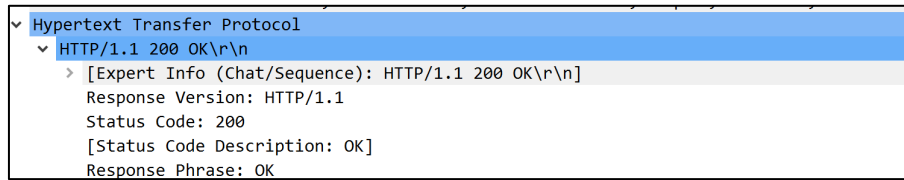
1. What is the IP address of your computer? Of the gaia.cs.umass.edu server?

IP address of my computer: **192.168.1.66**

IP address of gaia.cs.umass.edu: **128.119.245.12**

2. What is the status code and phrase returned from the server to your browser?

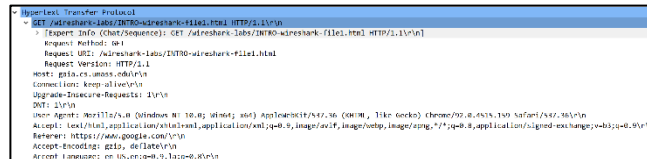
Status code and phrase returned were **200 OK**.



Congratulations! You've downloaded the first Wireshark lab file!

3. What languages does your browser indicate to the server that it can accept? Which header line is used to indicate this information?

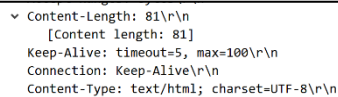
Languages indicated were **en-US** and **en;q=0.9**. "**Accept - Language**" is the header line used to indicate the information.



4. How many bytes of content (size of file) are returned to your browser? Which header line is used to indicate this information?

Size of File: **81 bytes of Content**

Header Line: **Content-Length**



5. 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.)

Time taken: **0.042760000 seconds**

[HTTP response 1/2]
[Time since request: 0.042760000 seconds]

Task 2 - Capture a traceroute

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C:\Windows\System32>tracert yahoo.com
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Tracing route to yahoo.com [2001:4998:124:1507::f000]

over a maximum of 30 hops:

1	*	*	*	Request timed out.
2	8 ms	5 ms	5 ms	2001:506:6000:130:71:156:220:132
3	10 ms	8 ms	8 ms	2001:506:6000:31:69:235:117:16
4	13 ms	9 ms	8 ms	2001:1890:ff:e066:12:83:79:1
5	15 ms	14 ms	14 ms	cgcil402igs.ipv6.att.net [2001:1890:ff:ffff:12:122:132:197]
6	13 ms	15 ms	13 ms	10gigabitethernet11-3.core1.chi1.he.net [2001:470:0:1ea::1]
7	*	*	*	Request timed out.
8	39 ms	37 ms	33 ms	ae-10.pat1.bfy.yahoo.com [2001:4998:f00d:204::1]
9	37 ms	36 ms	55 ms	et-19-0-0.pat2.bfz.yahoo.com [2001:4998:f01b:203::1]
10	34 ms	33 ms	33 ms	2001:4998:f01c:213::1
11	37 ms	36 ms	37 ms	2001:4998:124:fe02::1
12	38 ms	36 ms	37 ms	2001:4998:124:fa08::1
13	36 ms	36 ms	36 ms	et31.usw2-1-lbb.bf2.yahoo.com [2001:4998:124:ce07::1]
14	34 ms	32 ms	36 ms	media-router-fp73.prod.media.vip.bf1.yahoo.com [2001:4998:124:1507::f000]

Trace complete.

[icmpv6]						
No.	Time	Source	Destination	Protocol	Length	Info
204	16:24:27.913380	2600:1700:1658:4070::1	2001:4998:124:1507::1	ICMPv6	126	Echo (ping) request id=0x0001, seq=750, hop limit=4 (no response found!)
205	16:24:27.926267	2001:1890:ff:e066:1::1	2600:1700:1658:4070::1	ICMPv6	174	Time Exceeded (hop limit exceeded in transit)
206	16:24:27.929188	2600:1700:1658:4070::1	2001:4998:124:1507::1	ICMPv6	126	Echo (ping) request id=0x0001, seq=751, hop limit=4 (no response found!)
207	16:24:27.938260	2001:1890:ff:e066:1::1	2600:1700:1658:4070::1	ICMPv6	174	Time Exceeded (hop limit exceeded in transit)
208	16:24:27.941934	2600:1700:1658:4070::1	2001:4998:124:1507::1	ICMPv6	126	Echo (ping) request id=0x0001, seq=752, hop limit=4 (no response found!)
209	16:24:27.950342	2001:1890:ff:e066:1::1	2600:1700:1658:4070::1	ICMPv6	174	Time Exceeded (hop limit exceeded in transit)
231	16:24:28.979427	2600:1700:1658:4070::1	2001:4998:124:1507::1	ICMPv6	126	Echo (ping) request id=0x0001, seq=753, hop limit=5 (no response found!)
232	16:24:28.995054	2001:1890:ff:ffff:1::1	2600:1700:1658:4070::1	ICMPv6	174	Time Exceeded (hop limit exceeded in transit)
233	16:24:28.996640	2600:1700:1658:4070::1	2001:4998:124:1507::1	ICMPv6	126	Echo (ping) request id=0x0001, seq=754, hop limit=5 (no response found!)
234	16:24:29.011067	2001:1890:ff:ffff:1::1	2600:1700:1658:4070::1	ICMPv6	174	Time Exceeded (hop limit exceeded in transit)
235	16:24:29.012305	2600:1700:1658:4070::1	2001:4998:124:1507::1	ICMPv6	126	Echo (ping) request id=0x0001, seq=755, hop limit=5 (no response found!)
236	16:24:29.027066	2001:1890:ff:ffff:1::1	2600:1700:1658:4070::1	ICMPv6	174	Time Exceeded (hop limit exceeded in transit)
334	16:24:30.031978	2600:1700:1658:4070::1	2001:4998:124:1507::1	ICMPv6	126	Echo (ping) request id=0x0001, seq=756, hop limit=6 (no response found!)
335	16:24:30.045051	2001:470:0:1ea::1	2600:1700:1658:4070::1	ICMPv6	174	Time Exceeded (hop limit exceeded in transit)
337	16:24:30.048467	2600:1700:1658:4070::1	2001:4998:124:1507::1	ICMPv6	126	Echo (ping) request id=0x0001, seq=757, hop limit=6 (no response found!)
338	16:24:30.063306	2001:470:0:1ea::1	2600:1700:1658:4070::1	ICMPv6	174	Time Exceeded (hop limit exceeded in transit)
339	16:24:30.067381	2600:1700:1658:4070::1	2001:4998:124:1507::1	ICMPv6	126	Echo (ping) request id=0x0001, seq=758, hop limit=6 (no response found!)
340	16:24:30.080079	2001:470:0:1ea::1	2600:1700:1658:4070::1	ICMPv6	174	Time Exceeded (hop limit exceeded in transit)
360	16:24:31.101447	2600:1700:1658:4070::1	2001:4998:124:1507::1	ICMPv6	126	Echo (ping) request id=0x0001, seq=759, hop limit=7 (no response found!)
389	16:24:34.277939	2600:1700:1658:4070::1	2600:1700:1658:4070::1	ICMPv6	86	Neighbor Solicitation for 2600:1700:1658:4070::1 from a4:bl:c1:bb:2d:d5
391	16:24:34.285195	2600:1700:1658:4070::1	2600:1700:1658:4070::1	ICMPv6	78	Neighbor Advertisement 2600:1700:1658:4070::1 (rtr, sol)
396	16:24:34.784650	2600:1700:1658:4070::1	2001:4998:124:1507::1	ICMPv6	126	Echo (ping) request id=0x0001, seq=760, hop limit=7 (no response found!)
458	16:24:38.793847	2600:1700:1658:4070::1	2001:4998:124:1507::1	ICMPv6	126	Echo (ping) request id=0x0001, seq=761, hop limit=7 (no response found!)
504	16:24:42.800462	2600:1700:1658:4070::1	2001:4998:124:1507::1	ICMPv6	126	Echo (ping) request id=0x0001, seq=762, hop limit=8 (no response found!)
505	16:24:42.839133	2001:4998:f00d:9::1	2600:1700:1658:4070::1	ICMPv6	206	Time Exceeded (hop limit exceeded in transit)
506	16:24:42.843294	2600:1700:1658:4070::1	2001:4998:124:1507::1	ICMPv6	126	Echo (ping) request id=0x0001, seq=763, hop limit=8 (no response found!)
507	16:24:42.880773	2001:4998:f00d:9::1	2600:1700:1658:4070::1	ICMPv6	206	Time Exceeded (hop limit exceeded in transit)
508	16:24:42.884847	2600:1700:1658:4070::1	2001:4998:124:1507::1	ICMPv6	126	Echo (ping) request id=0x0001, seq=764, hop limit=8 (no response found!)
> Frame 10: 86 bytes on wire (688 bits), 86 bytes captured (688 bits) on interface \Device\NPF_{77C53E62-9B0E-4C82-B108-0C2A06D156D2}, id 0						
> Ethernet II, Src: IntelCor_bb:2d:d5 (a4:bl:c1:bb:2d:d5), Dst: ARRISGro_d1:2b:e0 (84:bb:69:d1:2b:e0)						
> Internet Protocol Version 6, Src: 2600:1700:1658:4070:7d10:81b:2f6b:8982, Dst: 2600:1700:1658:4070::1						
> Internet Control Message Protocol v6						