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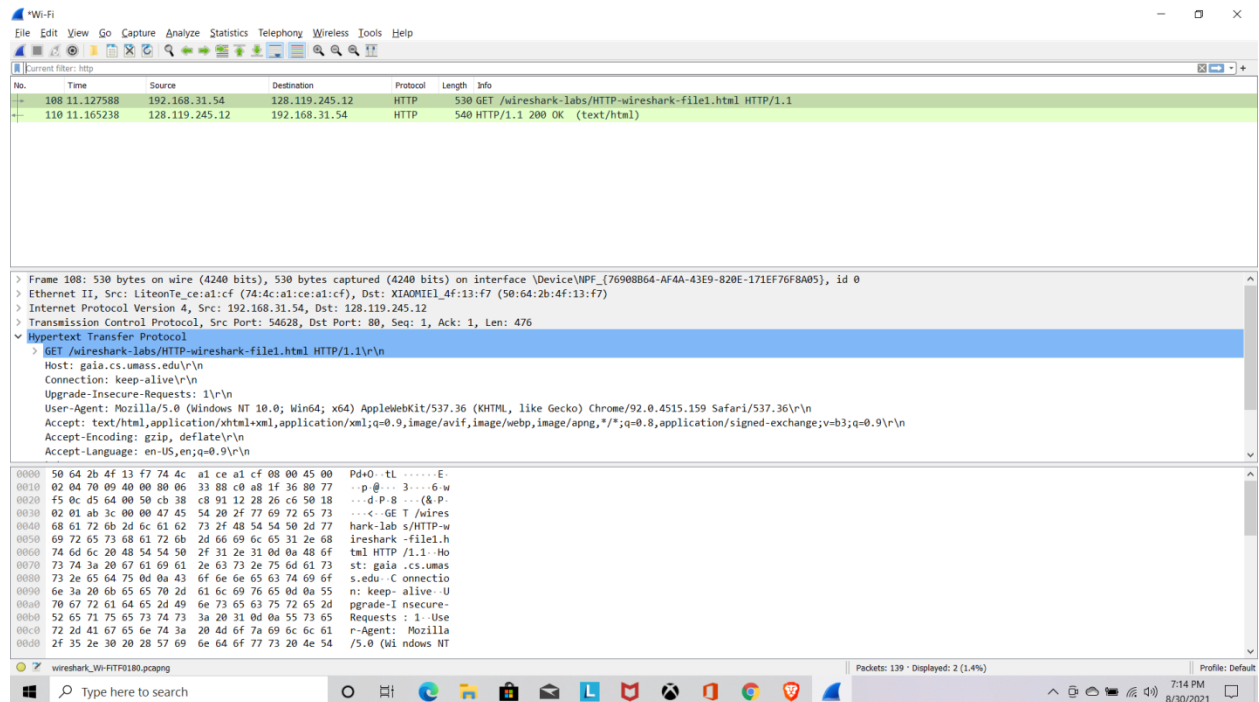
Computer Networks Lab1

Task 1:

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

Server address : 128.119.245.12

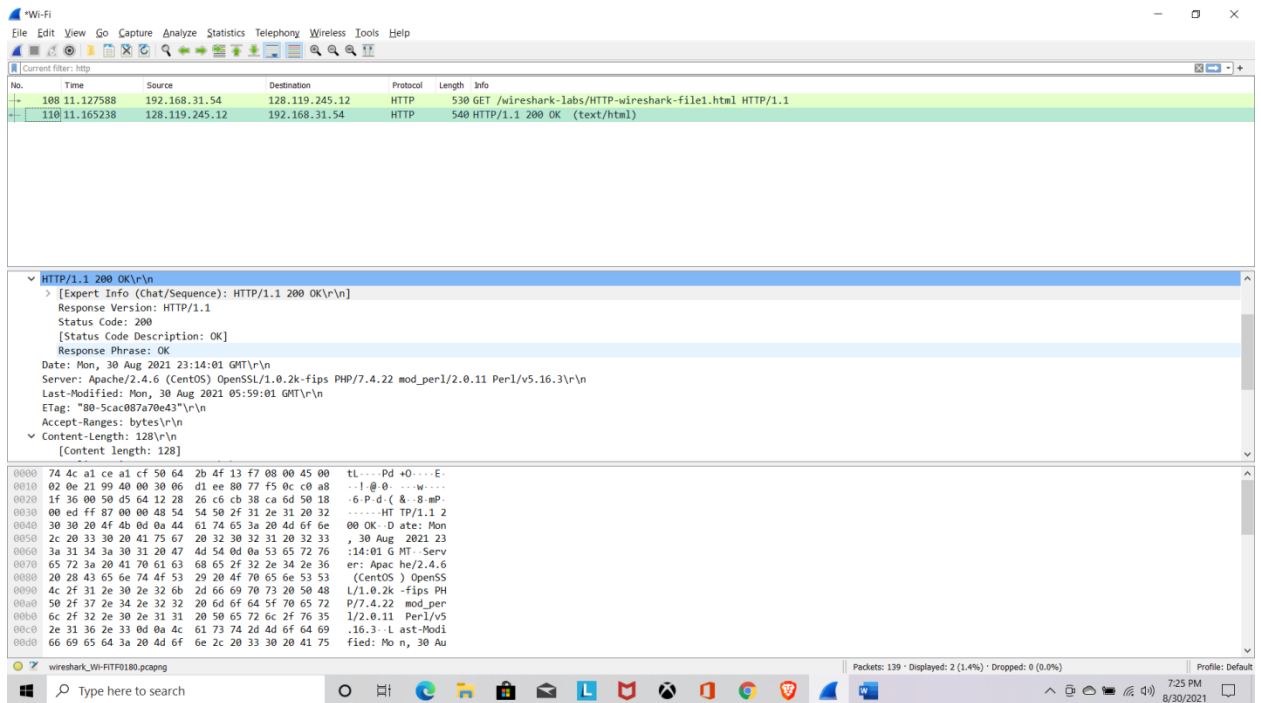
Computer address : 192.168.31.54



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

Status code : 200

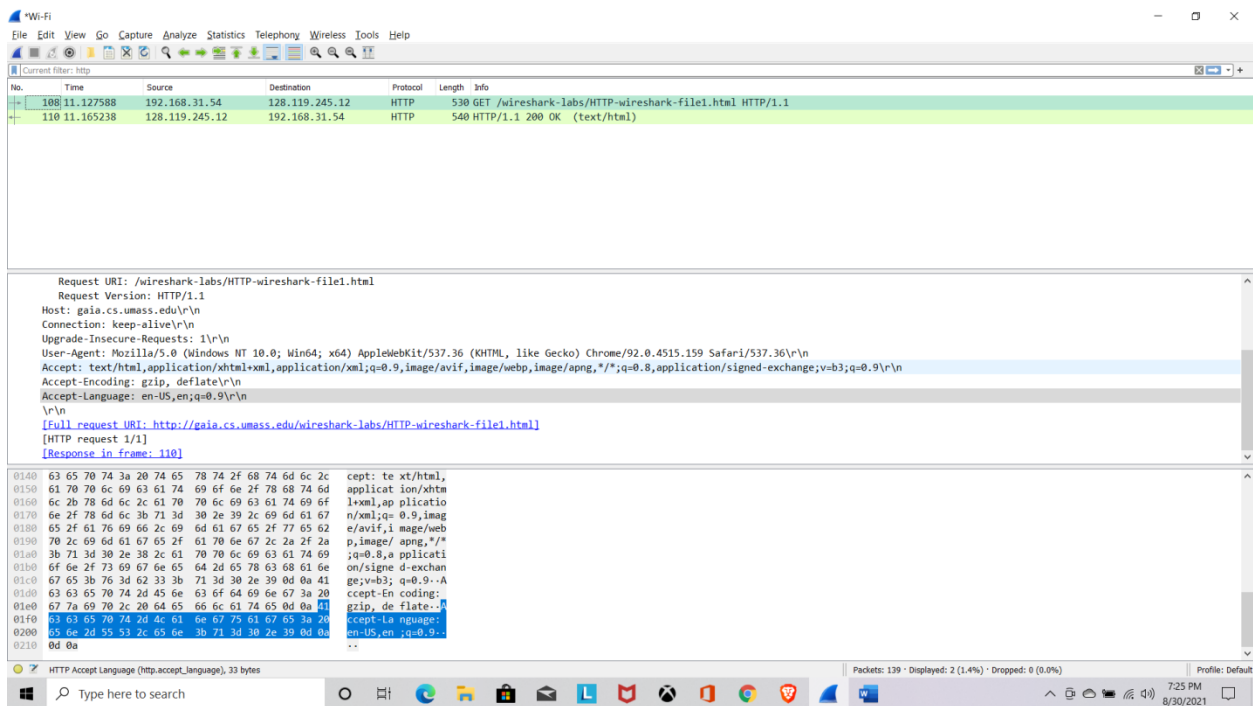
Phrase : OK



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

Language : en-us

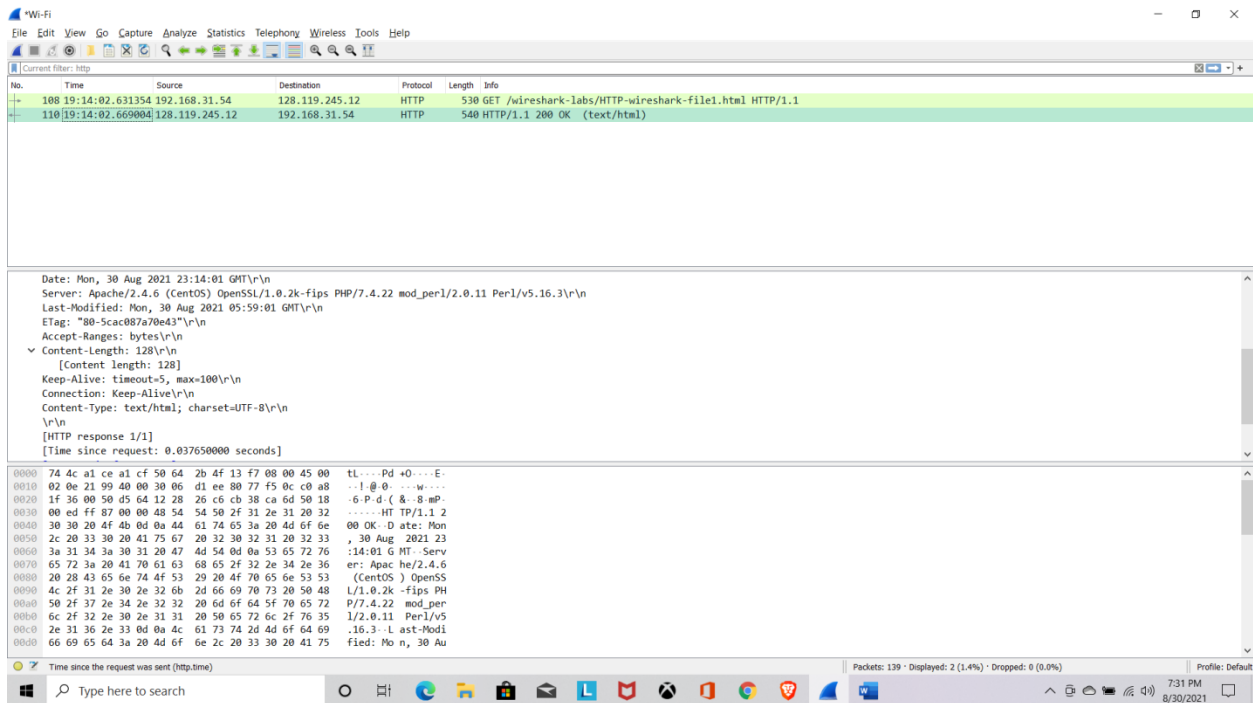
Header line : Accept-Language



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

Bytes = 128

Header line : Content-Length

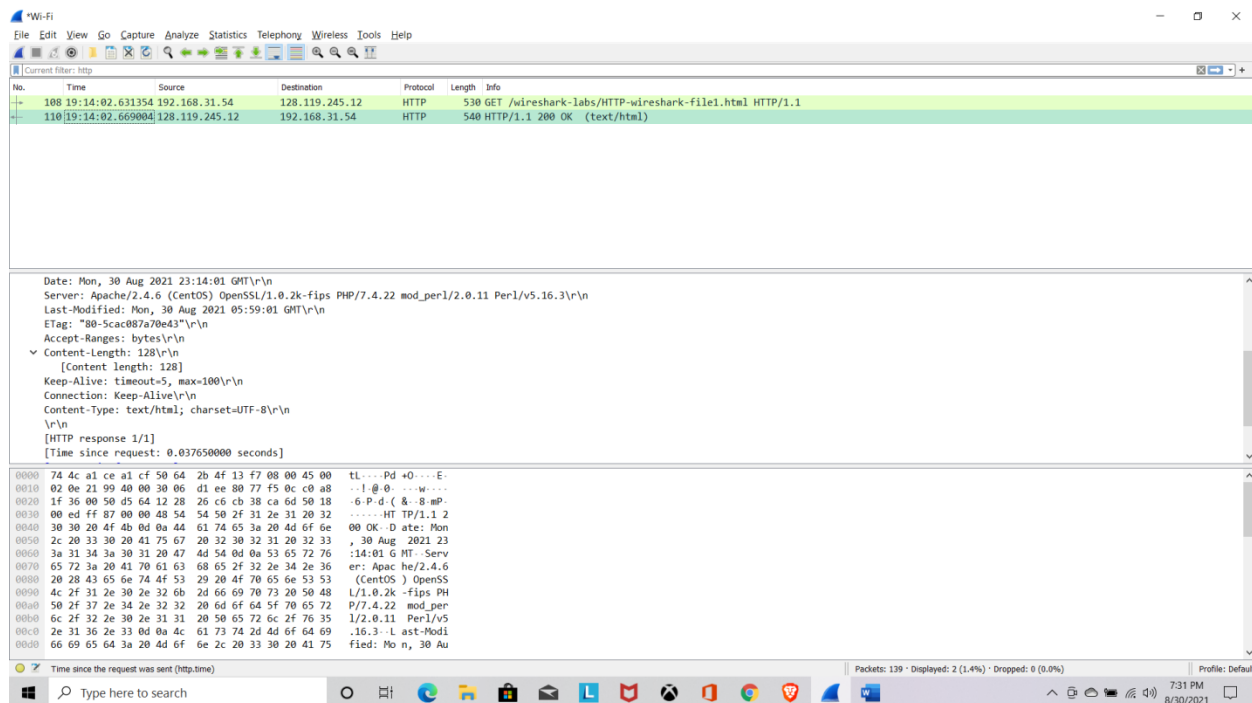


- How long did it take from when the HTTP GET message was sent until the HTTP OK reply was received? (By default, the value of the Time column in the packet listing window is the amount of time, in seconds, since Wireshark tracing began. To display the Time field in time-of-day format, select the Wireshark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

Time since request: 0.037650000 seconds

Time of request : 19:14:02.631354

Time of response : 19:14:02.669004



Task 2 :-

Trace Route: (windows)

C:\Users\nagat>tracert yahoo.com

Tracing route to yahoo.com [98.137.11.164]

over a maximum of 30 hops:

```

1  139 ms  *      108 ms  XiaoQiang [192.168.31.1]
2  2 ms    1 ms    1 ms    10.104.49.1
3  3 ms    2 ms    4 ms    sd-gw.jest.smithvilledigital.net [66.244.112.217]
4  16 ms   19 ms   10 ms   10.244.100.113
5  18 ms   18 ms   18 ms   10.244.100.114
6  22 ms   21 ms   18 ms   208.115.136.16
7  *       44 ms   50 ms   ae-8.pat2.dnx.yahoo.com [209.191.64.75]
8  69 ms   70 ms   185 ms  ae-8.pat1.gqb.yahoo.com [209.191.64.238]
9  68 ms   68 ms   65 ms   et-19-1-0.msr1.gq1.yahoo.com [66.196.67.99]
10 67 ms   66 ms   72 ms   unknown.yahoo.com [98.136.158.215]

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```
11  *      *    168 ms lo0.fab6-1-gdc.gq2.yahoo.com [98.136.159.242]
12  75 ms  66 ms 68 ms usw2-1-lbc.gq2.yahoo.com [98.136.158.193]
13  65 ms  66 ms 66 ms media-router-fp73.prod.media.vip.gq1.yahoo.com
[98.137.11.164]
Trace complete.
C:\Users\nagat>
```

Wireshark ICMP packet Screenshots:-

Wi-Fi

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icmp

No.	Time	Source	Destination	Protocol	Length	Info
1558	19:38:36.952895	66.244.112.217	192.168.31.54	ICMP	110	Time-to-live exceeded (Time to live exceeded in transit)
1559	19:38:36.953346	192.168.31.54	98.137.11.164	ICMP	106	Echo (ping) request id=0x0001, seq=7155/62235, ttl=8 (no response found)
1560	19:38:36.953797	192.168.31.54	98.137.11.164	ICMP	106	Echo (ping) request id=0x0001, seq=7156/62241, ttl=8 (no response found)
1564	19:38:38.029300	192.168.31.54	98.137.11.164	ICMP	106	Echo (ping) request id=0x0001, seq=7156/62491, ttl=8 (no response found)
1565	19:38:38.045384	10.244.100.113	192.168.31.54	ICMP	110	Time-to-live exceeded (Time to live exceeded in transit)
1566	19:38:38.045866	192.168.31.54	98.137.11.164	ICMP	106	Echo (ping) request id=0x0001, seq=7157/62747, ttl=4 (no response found)
1567	19:38:38.065335	10.244.100.113	192.168.31.54	ICMP	110	Time-to-live exceeded (Time to live exceeded in transit)
1568	19:38:38.065816	192.168.31.54	98.137.11.164	ICMP	106	Echo (ping) request id=0x0001, seq=7158/63003, ttl=4 (no response found)
1569	19:38:38.076024	10.244.100.113	192.168.31.54	ICMP	110	Time-to-live exceeded (Time to live exceeded in transit)
1589	19:38:43.611795	192.168.31.54	98.137.11.164	ICMP	106	Echo (ping) request id=0x0001, seq=7159/63259, ttl=5 (no response found)
1590	19:38:43.630373	10.244.100.114	192.168.31.54	ICMP	110	Time-to-live exceeded (Time to live exceeded in transit)
1591	19:38:43.631111	192.168.31.54	98.137.11.164	ICMP	106	Echo (ping) request id=0x0001, seq=7160/63515, ttl=5 (no response found)
1592	19:38:43.649414	192.168.31.54	98.137.11.164	ICMP	106	Echo (ping) request id=0x0001, seq=7161/63771, ttl=5 (no response found)
1593	19:38:43.649824	192.168.31.54	98.137.11.164	ICMP	106	Echo (ping) request id=0x0001, seq=7161/63771, ttl=5 (no response found)
1594	19:38:43.668597	10.244.100.114	192.168.31.54	ICMP	110	Time-to-live exceeded (Time to live exceeded in transit)
1597	19:38:44.608674	192.168.31.54	192.168.31.1	ICMP	74	Echo (ping) request id=0x0001, seq=7163/64283, ttl=128 (reply in 1598)
1598	19:38:44.609955	192.168.31.1	192.168.31.54	ICMP	74	Echo (ping) reply id=0x0001, seq=7163/64283, ttl=64 (request in 1597)
1599	19:38:44.617856	192.168.31.54	192.168.31.143	ICMP	74	Echo (ping) request id=0x0001, seq=7305/35100, ttl=128 (no response found)
1600	19:38:44.620834	192.168.31.54	192.168.31.189	ICMP	74	Echo (ping) request id=0x0001, seq=7351/46876, ttl=128 (reply in 1602)
1601	19:38:44.623151	192.168.31.54	192.168.31.226	ICMP	74	Echo (ping) request id=0x0001, seq=7388/56348, ttl=128 (reply in 1603)
1602	19:38:44.714868	192.168.31.189	192.168.31.54	ICMP	74	Echo (ping) reply id=0x0001, seq=7351/46876, ttl=64 (request in 1600)
1603	19:38:44.716065	192.168.31.226	192.168.31.54	ICMP	74	Echo (ping) reply id=0x0001, seq=7388/56348, ttl=64 (request in 1601)
2323	19:38:49.193547	192.168.31.54	98.137.11.164	ICMP	106	Echo (ping) request id=0x0001, seq=7417/63771, ttl=8 (no response found)
2324	19:38:49.216082	208.115.130.16	192.168.31.54	ICMP	70	Time-to-live exceeded (Time to live exceeded in transit)
2325	19:38:49.216089	192.168.31.54	98.137.11.164	ICMP	106	Echo (ping) request id=0x0001, seq=7418/64028, ttl=8 (no response found)
2326	19:38:49.238064	208.115.130.16	192.168.31.54	ICMP	70	Time-to-live exceeded (Time to live exceeded in transit)
2327	19:38:49.238625	192.168.31.54	98.137.11.164	ICMP	106	Echo (ping) request id=0x0001, seq=7419/64284, ttl=8 (no response found)
2328	19:38:49.257378	208.115.130.16	192.168.31.54	ICMP	70	Time-to-live exceeded (Time to live exceeded in transit)
2433	19:38:54.750784	192.168.31.54	192.168.31.1	ICMP	74	Echo (ping) request id=0x0001, seq=7421/64796, ttl=128 (no response found)
2434	19:38:54.758014	192.168.31.54	192.168.31.143	ICMP	74	Echo (ping) request id=0x0001, seq=7563/35613, ttl=128 (no response found)
2570	19:38:54.760334	192.168.31.54	192.168.31.189	ICMP	74	Echo (ping) request id=0x0001, seq=7699/47399, ttl=128 (

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icmp

No.	Time	Source	Destination	Protocol	Length	Info
2620	19:38:54.760334	192.168.31.54	192.168.31.189	ICMP	74	Echo (ping) request id=0x0001, seq=7609/47389, ttl=128 (no response found)
2657	19:38:54.762299	192.168.31.54	192.168.31.226	ICMP	74	Echo (ping) request id=0x0001, seq=7646/56861, ttl=128 (reply in 2696)
2686	19:38:54.810087	192.168.31.54	98.137.11.164	ICMP	106	Echo (ping) request id=0x0001, seq=7675/64285, ttl=7 (no response found)
2696	19:38:55.018233	192.168.31.226	192.168.31.54	ICMP	74	Echo (ping) reply id=0x0001, seq=7646/56861, ttl=64 (request in 2657)
3231	19:38:58.401257	192.168.31.54	98.137.11.164	ICMP	106	Echo (ping) request id=0x0001, seq=7676/64541, ttl=7 (no response found)
3232	19:38:58.445916	209.191.64.75	192.168.31.54	ICMP	182	Time-to-live exceeded (Time to live exceeded in transit)
3233	19:38:58.446787	192.168.31.54	98.137.11.164	ICMP	106	Echo (ping) request id=0x0001, seq=7677/64797, ttl=7 (no response found)
3234	19:38:58.497485	209.191.64.75	192.168.31.54	ICMP	182	Time-to-live exceeded (Time to live exceeded in transit)
3240	19:38:59.522093	192.168.31.54	98.137.11.164	ICMP	106	Echo (ping) request id=0x0001, seq=7678/65053, ttl=8 (no response found)
3249	19:38:59.591553	209.191.64.238	192.168.31.54	ICMP	70	Time-to-live exceeded (Time to live exceeded in transit)
3247	19:38:59.592091	192.168.31.54	98.137.11.164	ICMP	106	Echo (ping) request id=0x0001, seq=7679/65309, ttl=8 (no response found)
3251	19:38:59.662136	209.191.64.238	192.168.31.54	ICMP	70	Time-to-live exceeded (Time to live exceeded in transit)
3252	19:38:59.663089	192.168.31.54	98.137.11.164	ICMP	106	Echo (ping) request id=0x0001, seq=7680/30, ttl=8 (no response found)
3258	19:38:59.848368	209.191.64.238	192.168.31.54	ICMP	70	Time-to-live exceeded (Time to live exceeded in transit)
3268	19:39:00.722833	192.168.31.54	98.137.11.164	ICMP	106	Echo (ping) request id=0x0001, seq=7681/286, ttl=9 (no response found)
3269	19:39:00.790781	66.196.67.99	192.168.31.54	ICMP	70	Time-to-live exceeded (Time to live exceeded in transit)
3270	19:39:00.791639	192.168.31.54	98.137.11.164	ICMP	106	Echo (ping) request id=0x0001, seq=7682/542, ttl=9 (no response found)
3271	19:39:00.859278	66.196.67.99	192.168.31.54	ICMP	70	Time-to-live exceeded (Time to live exceeded in transit)
3272	19:39:00.860704	192.168.31.54	98.137.11.164	ICMP	106	Echo (ping) request id=0x0001, seq=7683/798, ttl=9 (no response found)
3273	19:39:00.926161	66.196.67.99	192.168.31.54	ICMP	70	Time-to-live exceeded (Time to live exceeded in transit)
3302	19:39:01.932169	192.168.31.54	98.137.11.164	ICMP	106	Echo (ping) request id=0x0001, seq=7684/1054, ttl=10 (no response found)
3303	19:39:01.999410	98.136.158.215	192.168.31.54	ICMP	70	Time-to-live exceeded (Time to live exceeded in transit)
3304	19:39:02.000492	192.168.31.54	98.137.11.164	ICMP	106	Echo (ping) request id=0x0001, seq=7685/1310, ttl=10 (no response found)
3305	19:39:02.060563	98.136.158.215	192.168.31.54	ICMP	70	Time-to-live exceeded (Time to live exceeded in transit)
3306	19:39:02.067257	192.168.31.54	98.137.11.164	ICMP	106	Echo (ping) request id=0x0001, seq=7686/1566, ttl=10 (no response found)
3307	19:39:02.139115	98.136.158.215	192.168.31.54	ICMP	70	Time-to-live exceeded (Time to live exceeded in transit)
3312	19:39:03.123718	192.168.31.54	98.137.11.164	ICMP	106	Echo (ping) request id=0x0001, seq=7687/1822, ttl=11 (no response found)
3319	19:39:06.890814	192.168.31.54	98.137.11.164	ICMP	106	Echo (ping) request id=0x0001, seq=7688/2078, ttl=11 (no response found)
3335	19:39:10.895622	192.168.31.54	98.137.11.164	ICMP	106	Echo (ping) request id=0x0001, seq=7689/2324, ttl=11 (no response found)
3336	19:39:11.063864	98.136.158.242	192.168.31.54	ICMP	134	Time-to-live exceeded (Time to live exceeded in transit)
3432	19:39:11.945312	192.168.31.54	98.137.11.164	ICMP	106	Echo (ping) request id=0x0001, seq=7690/2590, ttl=12 (no response found)
3448	19:39:12.020283	98.136.158.192	192.168.31.54	ICMP	134	Time-to-live exceeded (Time to live exceeded in transit)
3449	19:39:12.021158	192.168.31.54	98.137.11.164	ICMP	106	Echo (ping) request id=0x0001, seq=7691/2846, ttl=12 (no response found)
3450	19:39:12.087779	98.136.158.193	192.168.31.54	ICMP	134	Time-to-live exceeded (Time to live exceeded in transit)
3451	19:39:12.088497	192.168.31.54	98.137.11.164	ICMP	106	Echo (ping) request id=0x0001, seq=7692/3102, ttl=12 (no response found)
3452	19:39:12.156083	98.136.158.193	192.168.31.54	ICMP	134	Time-to-live exceeded (Time to live exceeded in transit)
3496	19:39:13.133395	192.168.31.54	98.137.11.164	ICMP	106	Echo (ping) request id=0x0001, seq=7693/3358, ttl=13 (reply in 3497)
3497	19:39:13.138096	98.137.11.164	192.168.31.54	ICMP	106	Echo (ping) reply id=0x0001, seq=7693/3358, ttl=54 (request in 3496)
3498	19:39:13.199550	192.168.31.54	98.137.11.164	ICMP	106	Echo (ping) request id=0x0001, seq=7694/3614, ttl=13 (reply in 3499)
3499	19:39:13.266331	98.137.11.164	192.168.31.54	ICMP	106	Echo (ping) reply id=0x0001, seq=7694/3614, ttl=54 (request in 3498)

Packets: 3503 - Displayed: 86 (2.5%) - Dropped: 0 (0.0%) Profile: Default

Command Prompt

Microsoft Windows [Version 10.0.19042.685]
(c) 2020 Microsoft Corporation. All rights reserved.

C:\Users\nagat>tracert yahoo.com

Tracing route to yahoo.com [98.137.11.164]
over a maximum of 30 hops:

1	139 ms	*	108 ms	XiaoQiang [192.168.31.1]
2	2 ms	1 ms	1 ms	10.104.49.1
3	3 ms	2 ms	4 ms	sd-pw-jest.smithvilledigital.net [66.244.112.217]
4	16 ms	19 ms	10 ms	10.244.100.113
5	18 ms	18 ms	18 ms	10.244.100.114
6	22 ms	21 ms	18 ms	208.115.136.16
7	*	44 ms	50 ms	ae-8.pat2.dnx.yahoo.com [209.191.64.75]
8	69 ms	70 ms	185 ms	ae-8.pat1.gqb.yahoo.com [209.191.64.238]
9	68 ms	68 ms	65 ms	et-19-1-0.msr1.gq1.yahoo.com [66.196.67.99]
10	67 ms	66 ms	72 ms	unknown.yahoo.com [98.136.158.215]
11	*	*	168 ms	109.fab6-1.gdc.gq2.yahoo.com [98.136.159.242]
12	75 ms	66 ms	68 ms	usw2-1-lbc.gq2.yahoo.com [98.136.158.193]
13	65 ms	66 ms	66 ms	media-router-fp73.prod.media.vip.gq1.yahoo.com [98.137.11.164]

Trace complete.

C:\Users\nagat>