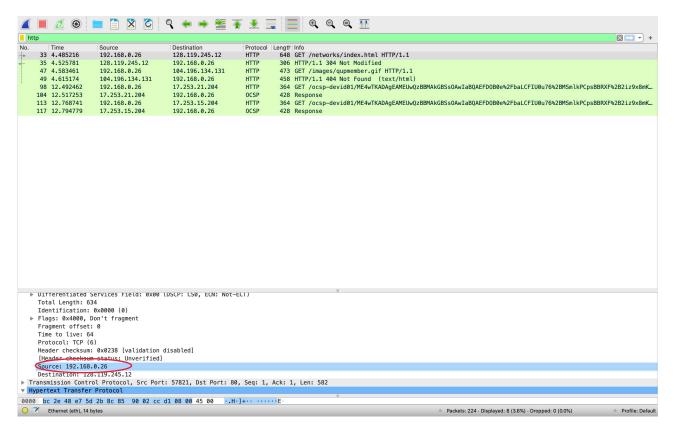
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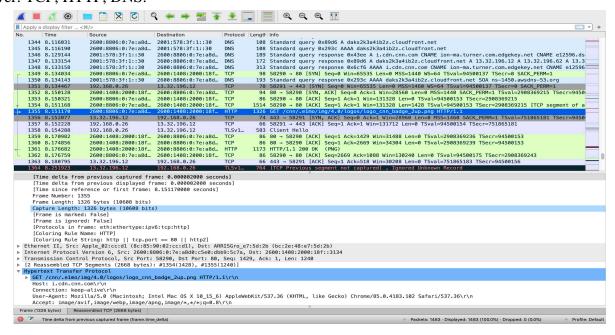
1. What is the Internet address of your computer?

Answer: 192.168.0.26



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

Answer: TCP, HTTP, DNS.



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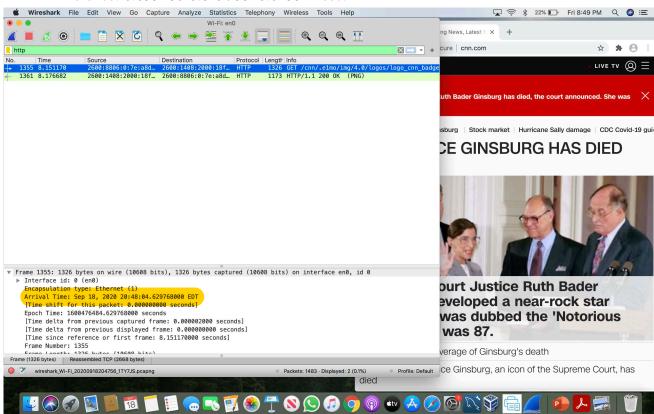
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3. How long did it take from when the HTTP GET message was sent until the HTTP OK reply was received? (By default, the value of the Time column in the packetlisting window is the amount of time, in seconds, since Wireshark tracing began. To display 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.)

Answer:

- Arrival time of GET request is: Sep 18, 2020 20:48:04.629768000
- Arrival time of HTTP OK is: Sep 18, 2020 20:48:04.655280000 Difference: 0.655280-0.629768=0.025512 sec.

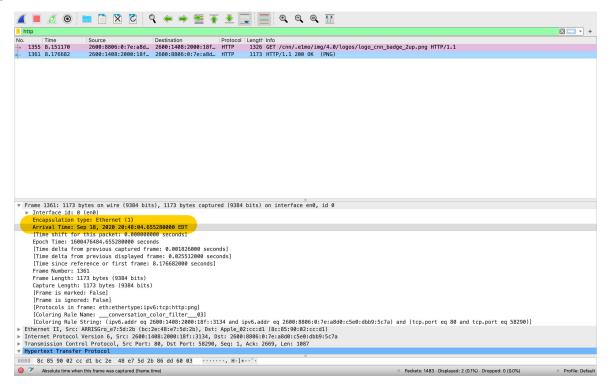


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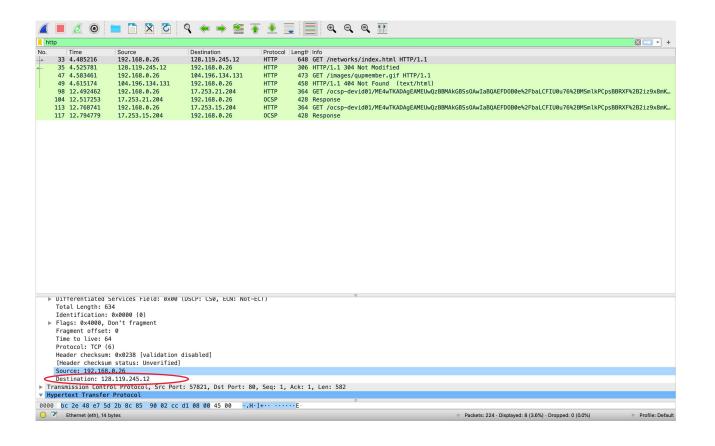






4. What is the Internet address of the gaia.cs.umass.edu (also known as wwwnet.cs.umass.edu)?

Answer: 128.119.245.12



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5. 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.

```
/var/folders/z0/ttv6x5ms1njbzgcdw0jyhwv00000gn/T//wireshark_Wi-Fi_20200918204756_lTY7JS.pcapng 1483 total packets, 2 shown
                                                         Source Destination Protocol Length Info
2600:8806:0:7e:a8d0:c5e0:dbb9:5c7a 2600:1408:2000:18f::3134 HTTP
         1355 8.151170
   GET /cnn/.elmo/img/4.0/logos/logo_cnn_badge_2up.png HTTP/1.1
Frame 1355: 1326 bytes on wire (10608 bits), 1326 bytes captured (10608 bits) on interface en0, id
            Interface id: 0 (en0)
Encapsulation type: Ethernet (1)
           Encapsulation type: Ethernet (1)
Arrival Time: Sep 18, 2020 20:48:04.629768000 EDT
[Time shift for this packet: 0.000000000 seconds]
Epoch Time: 1600476484.629768000 seconds
[Time delta from previous captured frame: 0.000002000 seconds]
[Time delta from previous displayed frame: 0.000000000 seconds]
[Time since reference or first frame: 8.151170000 seconds]
            Frame Number: 1355
Frame Length: 1326 bytes (10608 bits)
Capture Length: 1326 bytes (10608 bits)
  Capture Length: 1326 bytes (10608 bits)
[Frame is marked: False]
[Frame is ignored: False]
[Frame is ignored: False]
[Protocols in frame: eth:ethertype:ipv6:tcp:http]
[Coloring Rule Name: __conversation_color_filter___03]
[Coloring Rule String: (ipv6.addr eq 2600:1408:2000:18f::3134 and ipv6.addr eq 2600:8806:0:7e:a8d0:c5e0:dbb9:5c7a) and (tcp.port eq 80 and tcp.port eq 58290)]
Ethernet II, Src: Apple_02:ccid1 (8c:85:90:02:ccid1), Dst: ARRISGro_e7:5d:2b (bc:2e:48:e7:5d:2b)
Internet Protocol Version 6, Src: 2600:8806:0:7e:a8d0:c5e0:dbb9:5c7a, Dst: 2600:1408:2000:18f::3134
Transmission Control Protocol, Src Port: 58290, Dst Port: 80, Seq: 1429, Ack: 1, Len: 1240
[2 Reassembled TCP Segments (2668 bytes): #1354(1428). #1355(1240)]
   [2 Reassembled TCP Segments (2668 bytes): #1354(1428), #1355(1240)]
Hypertext Transfer Protocol
            GET /cnn/.elmo/img/4.0/logos/logo_cnn_badge_2up.png HTTP/1.1\r\n
Host: i.cdn.cnn.com\r\n
   Connection: keep-alive\r\n
User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_6) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/85.0.4183.102 Safari/537.36\r\n
           Accept: image/avif,image/webp,image/apng,image/*,*/*;q=0.8\r\n Referer: https://www.cnn.com/\r\n
            Accept-Encoding: gzip, deflate\r\n
Accept-Language: en-US,en;q=0.9,fr;q=0.8\r\n
[truncated]Cookie: countryCode=US; stateCode=VA; geoData=herndon|VA|20170|US|NA|-400|
   broadband|38.980|-77.390;
FastAB=0=6300,1=8151,2=3281,3=1419,4=5163,5=8178,6=4914,7=5465,8=5228,9=6180; usprivacy=1YNN;
OptanonControl=ccc=US&otvers=&re
            [Full request URI: http://i.cdn.cnn.com/cnn/.elmo/img/4.0/logos/logo_cnn_badge_2up.png]
[HTTP request 1/1]
             [Response in frame: 1361]
```

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