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CS372 – Spring 2018
Lab 1

1. Some of the protocols listed in the unfiltered packet-listing window are: HTTP, DNS, TCP, UDP
2. It took 0.059369 seconds from GET to OK
3. The IP address of gaia.cs.umass.edu is 192.168.0.16; The IP address of my computer is 128.119.245.12
4. Screenshots of GET and OK:

GET

```
> Destination: ArrisGro_b7:21:d3 (bc:64:4b:b7:21:d3)
> Source: AsustekC_a7:0f:fa (70:8b:cd:a7:0f:fa)
  Type: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.0.16, Dst: 128.119.245.12
  0100 .... = Version: 4
  .... 0101 = Header Length: 20 bytes (5)
> Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
  Total Length: 467
  Identification: 0x3815 (14357)
> Flags: 0x02 (Don't Fragment)
  Fragment offset: 0
  Time to live: 128
  Protocol: TCP (6)
  Header checksum: 0x0000 [validation disabled]
  [Header checksum status: Unverified]
  Source: 192.168.0.16
  Destination: 128.119.245.12
  [Source GeoIP: Unknown]
  [Destination GeoIP: Unknown]
Transmission Control Protocol, Src Port: 58355, Dst Port: 80, Seq: 1, Ack: 1, Len: 427
Hypertext Transfer Protocol
> GET /wireshark-labs/INTRO-wireshark-file1.html HTTP/1.1\r\n
  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/64.0.3282.186 Safari/537.36\r\n
  Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8\r\n
  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/INTRO-wireshark-file1.html]
  [HTTP request 1/2]
  [Response in frame: 115]
  [Next request in frame: 117]
```


OK

```
> Destination: AsustekC_a7:0f:fa (70:8b:cd:a7:0f:fa)
> Source: ArrisGro_b7:21:d3 (bc:64:4b:b7:21:d3)
  Type: IPv4 (0x0800)
v Internet Protocol Version 4, Src: 128.119.245.12, Dst: 192.168.0.16
  0100 .... = Version: 4
  .... 0101 = Header Length: 20 bytes (5)
> Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)
  Total Length: 478
  Identification: 0xfdcc (64972)
> Flags: 0x02 (Don't Fragment)
  Fragment offset: 0
  Time to live: 43
  Protocol: TCP (6)
  Header checksum: 0x1a11 [validation disabled]
  [Header checksum status: Unverified]
  Source: 128.119.245.12
  Destination: 192.168.0.16
  [Source GeoIP: Unknown]
  [Destination GeoIP: Unknown]
> Transmission Control Protocol, Src Port: 80, Dst Port: 58355, Seq: 1, Ack: 428, Len: 438
v Hypertext Transfer Protocol
> HTTP/1.1 200 OK\r\n
  Date: Sat, 07 Apr 2018 18:27:42 GMT\r\n
  Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips PHP/5.4.16 mod_perl/2.0.10 Perl/v5.16.3\r\n
  Last-Modified: Sat, 07 Apr 2018 05:59:01 GMT\r\n
  ETag: "51-5693bde933645"\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 1/2]
  [Time since request: 0.059369000 seconds]
```