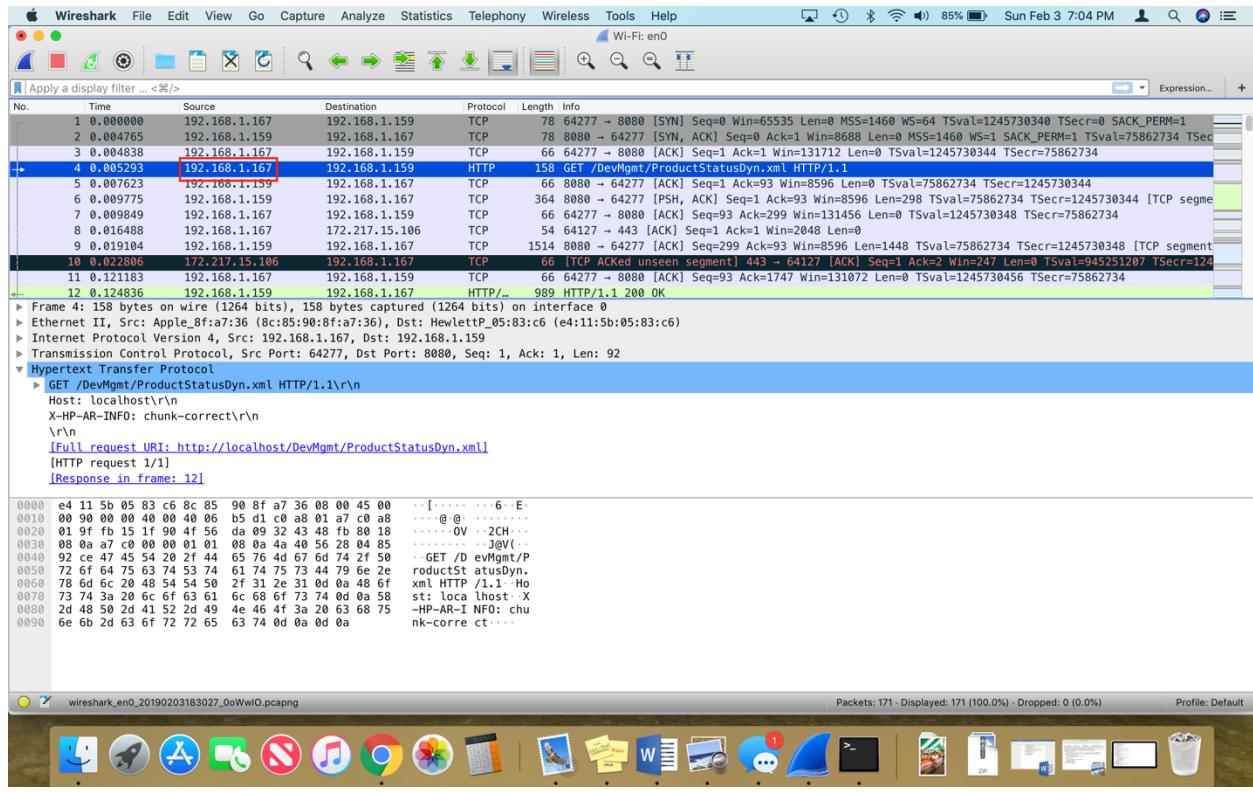


Terminal Shell Edit View Window Help Amreenie — bash — 199x55

```
Last login: Sun Feb 3 19:02:55 on ttys000
Amreens-MBP:~ Amreenie$ ifconfig
lo0: flags=8049<UP,LOOPBACK,RUNNING,MULTICAST> mtu 16384
    options=1203<RXCSUM,TXCSUM,TXSTATUS,SW_TIMESTAMP>
    inet 127.0.0.1 netmask 0xff000000
        inet6 ::1 prefixlen 128
        nd6 options=201<PERFORMNUD,DAD>
stf0: flags=0<> mtu 1280
XHC0: flags=0<> mtu 0
XHC20: flags=0<> mtu 0
en0: flags=8863<UP,BROADCAST,SMART,RUNNING,SIMPLEX,MULTICAST> mtu 1500
    ether 8c:85:90:8f:a7:36
    inet 192.168.1.167 netmask 0xffffffff broadcast 192.168.1.255
        nd6 options=201<PERFORMNUD,DAD>
        media: autoselect
        status: active
en1: flags=8963<UP,BROADCAST,SMART,RUNNING,PROMISC,SIMPLEX,MULTICAST> mtu 1500
    options=60<TS04,TS06>
    ether aa:00:75:09:48:01
    media: autoselect <full-duplex>
    status: inactive
en2: flags=8963<UP,BROADCAST,SMART,RUNNING,PROMISC,SIMPLEX,MULTICAST> mtu 1500
    options=60<TS04,TS06>
    ether aa:00:75:09:48:00
    media: autoselect <full-duplex>
    status: inactive
bridge0: flags=8863<UP,BROADCAST,SMART,RUNNING,SIMPLEX,MULTICAST> mtu 1500
    options=63<RXCSUM,TXCSUM,TS04,TS06>
    ether aa:00:75:09:48:01
    Configuration:
        id 0:0:0:0:0:0 priority 0 hellotime 0 fwddelay 0
        maxage 0 holdcnt 0 proto stp maxaddr 100 timeout 1200
        root id 0:0:0:0:0:0 priority 0 ifcost 0 port 0
        ipfilter disabled flags 0x2
    member: en1 flags=3<LEARNING,DISCOVER>
        ifmaxaddr 0 port 7 priority 0 path cost 0
    member: en2 flags=3<LEARNING,DISCOVER>
        ifmaxaddr 0 port 8 priority 0 path cost 0
        nd6 options=201<PERFORMNUD,DAD>
        media: <unknown type>
        status: inactive
p2p0: flags=8843<UP,BROADCAST,RUNNING,SIMPLEX,MULTICAST> mtu 2304
    ether 0e:85:90:8f:a7:36
    media: autoselect
    status: inactive
awdl0: flags=8943<UP,BROADCAST,RUNNING,PROMISC,SIMPLEX,MULTICAST> mtu 1484
    ether c6:4a:f4:1b:7b:66
    inet6 fe80::c44a:f4ff:fe1b:7b66%awdl0 prefixlen 64 scopeid 0xb
        nd6 options=201<PERFORMNUD,DAD>
        media: autoselect
        status: active
utun0: flags=8051<UP,POINTOPOINT,RUNNING,MULTICAST> mtu 2000
```



1. What is the internet address of your computer? **192.168.1.167**



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

HTTP – screenshot 1

TCP – screenshot 2

SSDP – screenshot 3

Wireshark - Sun Feb 3 7:05 PM

Apply a display filter ... <⌘>/

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000	192.168.1.167	192.168.1.159	TCP	78	64277 → 8080 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 WS=64 TSval=1245730340 TSecr=0 SACK_PERM=1
2	0.004765	192.168.1.159	192.168.1.167	TCP	78	8080 → 64277 [SYN, ACK] Seq=0 Ack=1 Win=8688 Len=0 MSS=1460 WS=1 SACK_PERM=1 TSval=75862734 TSecr=75862734
3	0.004838	192.168.1.167	192.168.1.159	TCP	66	64277 → 8080 [ACK] Seq=1 Ack=1 Win=131712 Len=0 TSval=1245730344 TSecr=75862734
4	0.005293	192.168.1.167	192.168.1.159	HTTP	158	GET /DevMgmt/ProductStatusDyn.xml HTTP/1.1
5	0.006723	192.168.1.159	192.168.1.167	TCP	66	8080 → 64277 [ACK] Seq=1 Ack=93 Win=8596 Len=0 TSval=75862734 TSecr=1245730344
6	0.009775	192.168.1.159	192.168.1.167	TCP	364	8080 → 64277 [PSH, ACK] Seq=1 Ack=93 Win=8596 Len=298 TSval=75862734 TSecr=1245730344 [TCP segment of a multi-segment message]
7	0.009849	192.168.1.167	192.168.1.159	TCP	66	64277 → 8080 [ACK] Seq=93 Ack=299 Win=131456 Len=0 TSval=1245730344 TSecr=75862734
8	0.016488	192.168.1.167	172.217.15.106	TCP	54	64127 → 443 [ACK] Seq=1 Ack=1 Win=2048 Len=0
9	0.019104	192.168.1.159	192.168.1.167	TCP	1514	8080 → 64277 [ACK] Seq=299 Ack=93 Win=8596 Len=1448 TSval=75862734 TSecr=1245730348 [TCP segment of a multi-segment message]
10	0.022806	172.217.15.106	192.168.1.167	TCP	66	[TCP ACKed unseen segment] 443 → 64127 [ACK] Seq=1 Ack=299 Win=247 Len=0 TSval=945251207 TSecr=1245730348
11	0.121183	192.168.1.167	192.168.1.159	TCP	66	64277 → 8080 [ACK] Seq=93 Ack=1747 Win=131072 Len=0 TSval=1245730456 TSecr=75862734
12	0.124836	192.168.1.159	192.168.1.167	HTTP/...	989	HTTP/1.1 200 OK

Frame 4: 158 bytes on wire (1264 bits), 158 bytes captured (1264 bits) on interface 0

Ethernet II, Src: Apple_8fa:a7:36 (8c:85:90:8f:a7:36), Dst: HewlettP_05:83:c6 (e4:11:5b:05:83:c6)

Internet Protocol Version 4, Src: 192.168.1.167, Dst: 192.168.1.159

Transmission Control Protocol, Src Port: 64277, Dst Port: 8080, Seq: 1, Ack: 1, Len: 92

HyperText Transfer Protocol

GET /DevMgmt/ProductStatusDyn.xml HTTP/1.1\r\n

Host: localhost\r\nX-HP-AR-INFO: chunk-correct\r\n\r\n

[Full request URI: http://localhost/DevMgmt/ProductStatusDyn.xml]\n[HTTP request 1/1]\n[Response in frame: 12]

0000 e4 11 5b 05 83 c6 8c 85 90 8f a7 36 08 00 45 00 ... [..... 6 E-\n0010 00 90 00 00 40 00 40 00 b5 d1 c0 01 01 c0 a8 @\n0020 01 9f fb 15 1f 90 4f 56 09 32 43 48 fb 80 18 OV 2CH ..\n0030 00 0a a7 c0 00 00 01 01 08 04 4a 40 56 28 04 85 @j@V..\n0040 92 ce 47 45 54 20 2f 44 65 76 4d 67 6d 74 2f 50 .. GET /D evMgmt/P\n0050 72 6f 64 75 63 74 53 74 61 74 75 73 44 79 6e 2e productSt atusDyn.\n0060 78 6d 6c 20 48 54 54 50 2f 31 2e 31 0d 0a 48 6f xml HTTP /1.1 Ho\n0070 73 74 3a 20 6c 6f 63 61 6c 68 6f 73 74 0d 0a 58 st: loca lhost: X\n0080 2d 48 50 2d 41 52 2d 49 4e 46 4f 3a 20 63 68 75 -HP-AR-I NFO: chu\n0090 6e 6b 2d 63 6f 72 72 65 63 74 0d 0a 0d 0a nk-corre ct....

Wireshark - Sun Feb 3 7:07 PM

Apply a display filter ... <⌘>/

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000	192.168.1.167	192.168.1.159	TCP	78	64277 → 8080 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 WS=64 TSval=1245730340 TSecr=0 SACK_PERM=1
2	0.004765	192.168.1.159	192.168.1.167	TCP	78	8080 → 64277 [SYN, ACK] Seq=0 Ack=1 Win=8688 Len=0 MSS=1460 WS=1 SACK_PERM=1 TSval=75862734 TSecr=75862734
3	0.004838	192.168.1.167	192.168.1.159	TCP	66	64277 → 8080 [ACK] Seq=1 Ack=1 Win=131712 Len=0 TSval=1245730344 TSecr=75862734
4	0.005293	192.168.1.167	192.168.1.159	HTTP	158	GET /DevMgmt/ProductStatusDyn.xml HTTP/1.1
5	0.006723	192.168.1.159	192.168.1.167	TCP	66	8080 → 64277 [ACK] Seq=1 Ack=93 Win=8596 Len=0 TSval=75862734 TSecr=1245730344
6	0.009775	192.168.1.159	192.168.1.167	TCP	364	8080 → 64277 [PSH, ACK] Seq=1 Ack=93 Win=8596 Len=298 TSval=75862734 TSecr=1245730344 [TCP segment of a multi-segment message]
7	0.009849	192.168.1.167	192.168.1.159	TCP	66	64277 → 8080 [ACK] Seq=93 Ack=299 Win=131456 Len=0 TSval=1245730344 TSecr=75862734
8	0.016488	192.168.1.167	172.217.15.106	TCP	54	64127 → 443 [ACK] Seq=1 Ack=1 Win=2048 Len=0
9	0.019104	192.168.1.159	192.168.1.167	TCP	1514	8080 → 64277 [ACK] Seq=299 Ack=93 Win=8596 Len=1448 TSval=75862734 TSecr=1245730348 [TCP segment of a multi-segment message]
10	0.022806	172.217.15.106	192.168.1.167	TCP	66	[TCP ACKed unseen segment] 443 → 64127 [ACK] Seq=1 Ack=299 Win=247 Len=0 TSval=945251207 TSecr=1245730348
11	0.121183	192.168.1.167	192.168.1.159	TCP	66	64277 → 8080 [ACK] Seq=93 Ack=1747 Win=131072 Len=0 TSval=1245730456 TSecr=75862734
12	0.124836	192.168.1.159	192.168.1.167	HTTP/...	989	HTTP/1.1 200 OK

Frame 4: 158 bytes on wire (1264 bits), 158 bytes captured (1264 bits) on interface 0

Ethernet II, Src: Apple_8fa:a7:36 (8c:85:90:8f:a7:36), Dst: HewlettP_05:83:c6 (e4:11:5b:05:83:c6)

Internet Protocol Version 4, Src: 192.168.1.167, Dst: 192.168.1.159

Transmission Control Protocol, Src Port: 64277, Dst Port: 8080, Seq: 1, Ack: 1, Len: 92

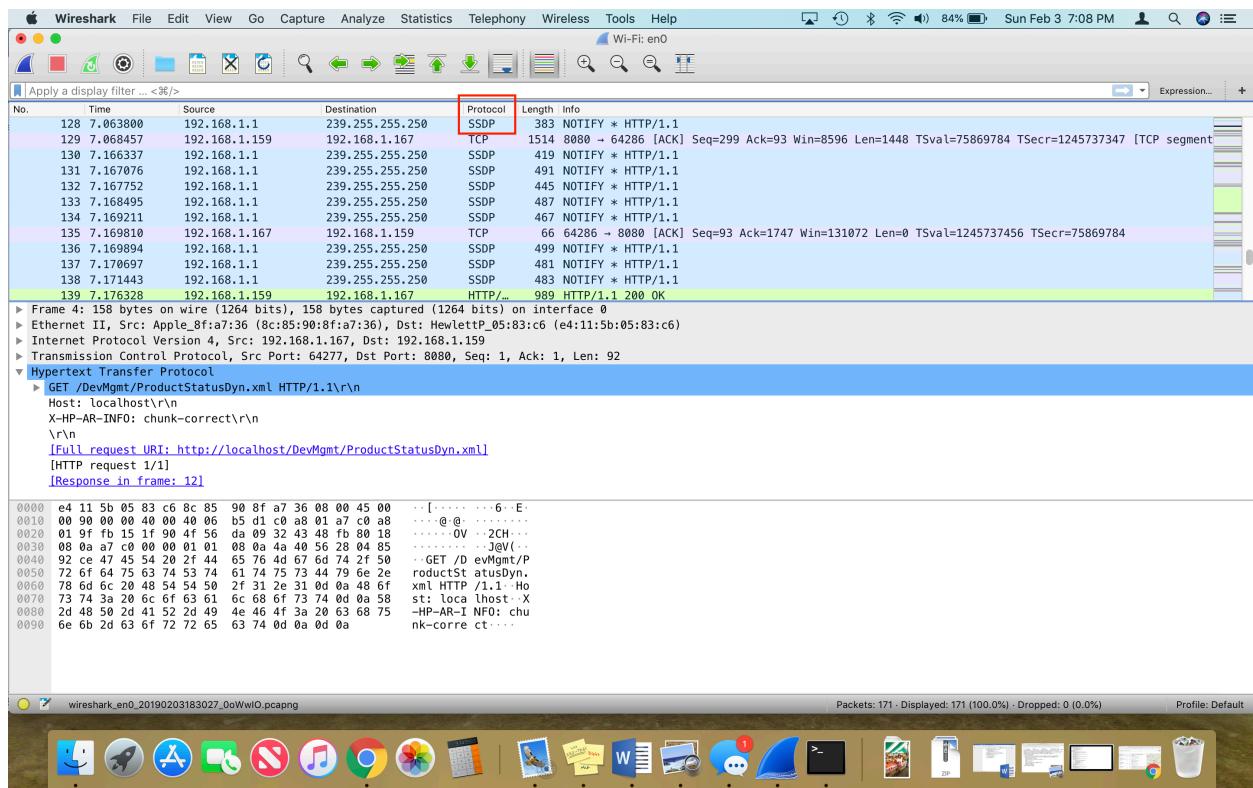
HyperText Transfer Protocol

GET /DevMgmt/ProductStatusDyn.xml HTTP/1.1\r\n

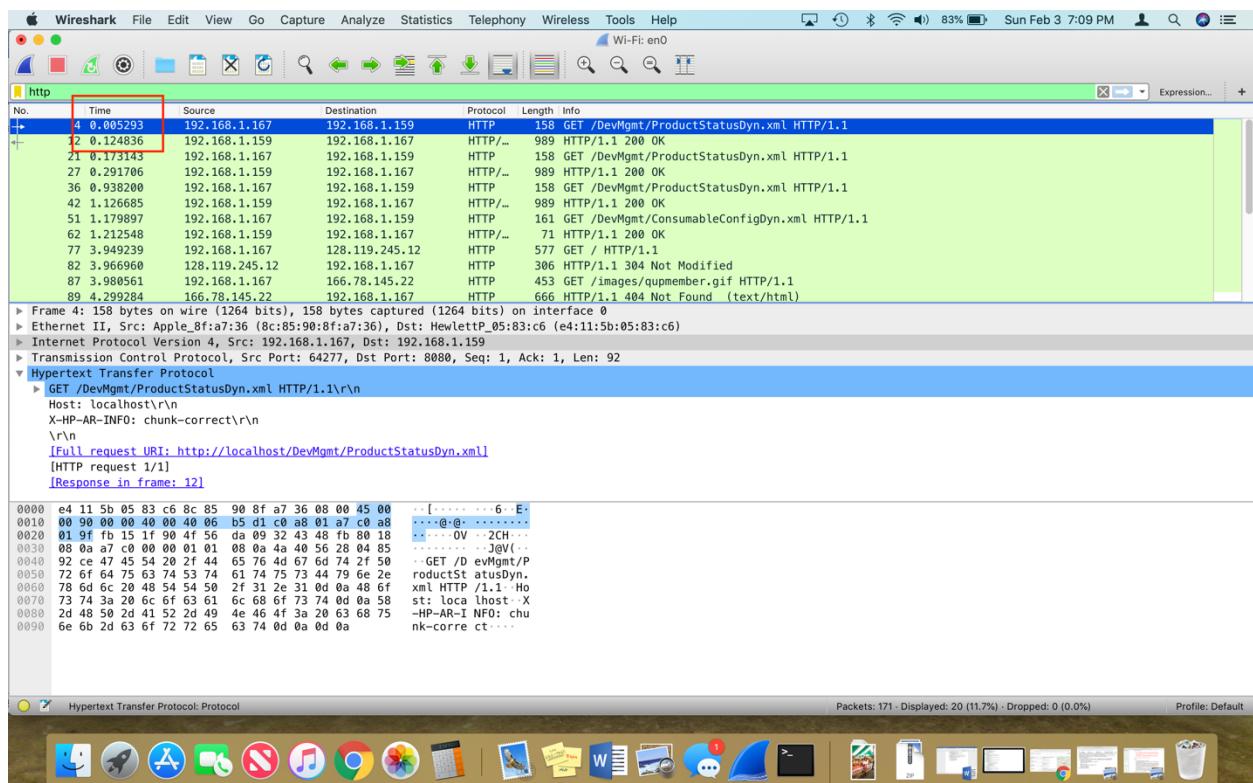
Host: localhost\r\nX-HP-AR-INFO: chunk-correct\r\n\r\n

[Full request URI: http://localhost/DevMgmt/ProductStatusDyn.xml]\n[HTTP request 1/1]\n[Response in frame: 12]

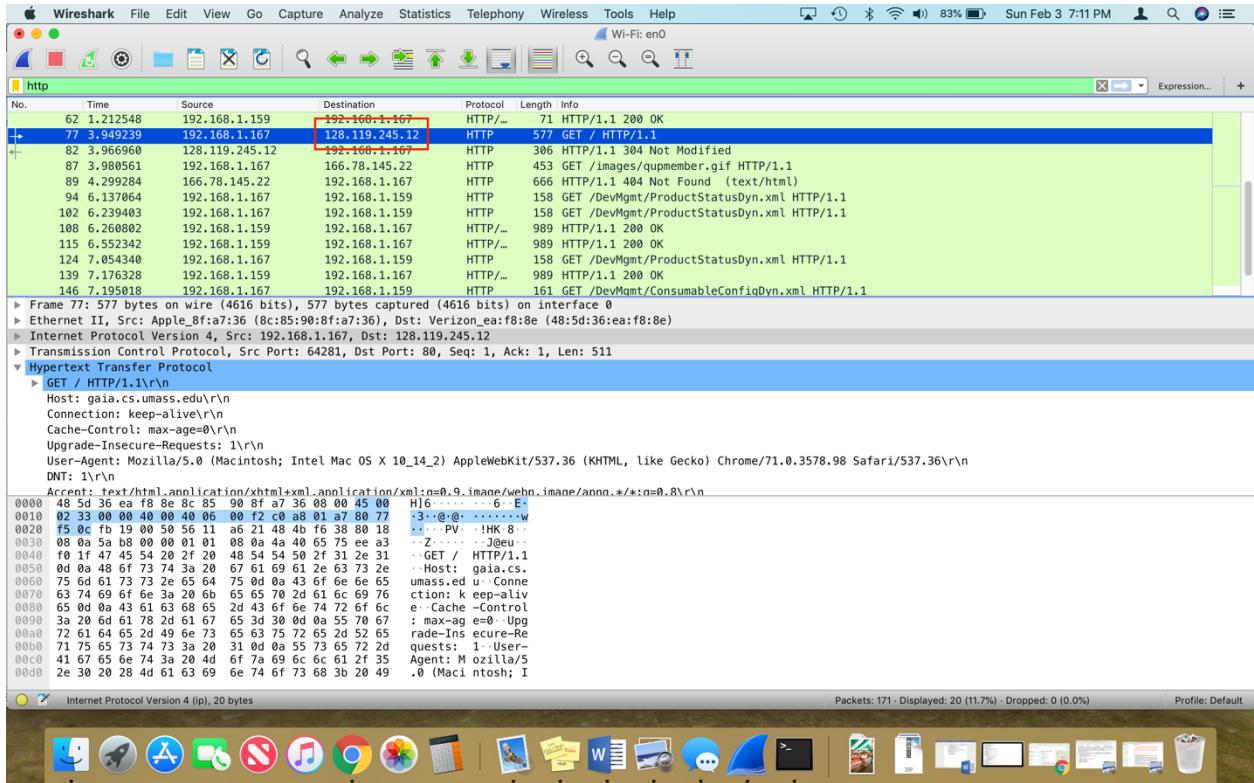
0000 e4 11 5b 05 83 c6 8c 85 90 8f a7 36 08 00 45 00 ... [..... 6 E-\n0010 00 90 00 00 40 00 40 00 b5 d1 c0 01 01 c0 a8 @\n0020 01 9f fb 15 1f 90 4f 56 09 32 43 48 fb 80 18 OV 2CH ..\n0030 00 0a a7 c0 00 00 01 01 08 04 4a 40 56 28 04 85 @j@V..\n0040 92 ce 47 45 54 20 2f 44 65 76 4d 67 6d 74 2f 50 .. GET /D evMgmt/P\n0050 72 6f 64 75 63 74 53 74 61 74 75 73 44 79 6e 2e productSt atusDyn.\n0060 78 6d 6c 20 48 54 54 50 2f 31 2e 31 0d 0a 48 6f xml HTTP /1.1 Ho\n0070 73 74 3a 20 6c 6f 63 61 6c 68 6f 73 74 0d 0a 58 st: loca lhost: X\n0080 2d 48 50 2d 41 52 2d 49 4e 46 4f 3a 20 63 68 75 -HP-AR-I NFO: chu\n0090 6e 6b 2d 63 6f 72 72 65 63 74 0d 0a 0d 0a nk-corre ct....



3. How long did it take from when the HTTP GET message was sent until the HTTP OK message was received? **.119543 seconds**



4. What is the internet address of the website: gaia.cs.umass.edu? **128.119.245.12**



5. Print the HTTP messages referred to in question 2 above. **Attached in a separate PDF file and screenshots below.**

