

CS305B Lab3 Report

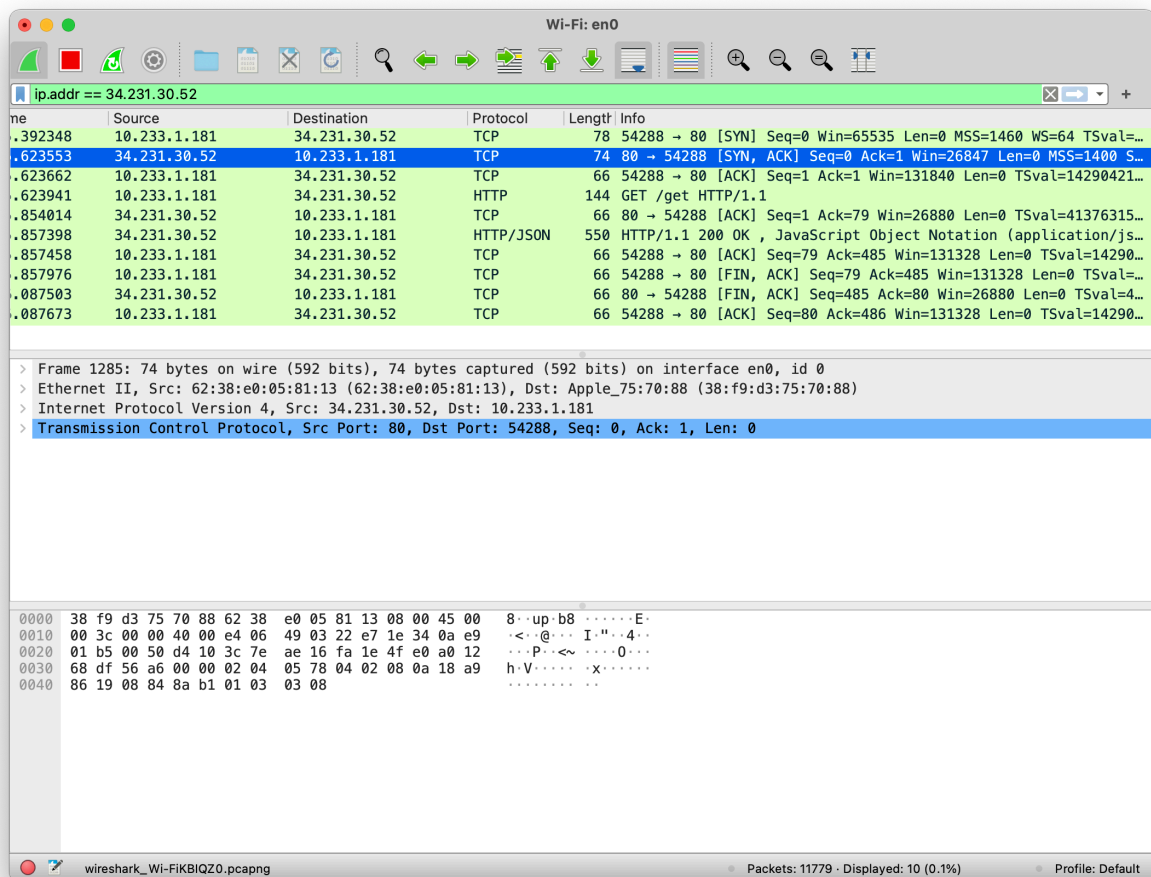
11812418 樊青远 Fan Qingyuan

Using cURL make GET request to <http://httpbin.org/get>

```
curl -v http://httpbin.org/get
```

```
* Trying 34.231.30.52:80...
* Connected to httpbin.org (34.231.30.52) port 80 (#0)
> GET /get HTTP/1.1
> Host: httpbin.org
> User-Agent: curl/7.71.1
> Accept: */*
>
* Mark bundle as not supporting multiuse
< HTTP/1.1 200 OK
< Date: Mon, 15 Mar 2021 00:21:19 GMT
< Content-Type: application/json
< Content-Length: 254
< Connection: keep-alive
< Server: gunicorn/19.9.0
< Access-Control-Allow-Origin: *
< Access-Control-Allow-Credentials: true
<
{
  "args": {},
  "headers": {
    "Accept": "*/*",
    "Host": "httpbin.org",
    "User-Agent": "curl/7.71.1",
    "X-Amzn-Trace-Id": "Root=1-604ea87f-78cdcbbd84821d6f8426ad830"
  },
  "origin": "113.88.14.238",
  "url": "http://httpbin.org/get"
}
* Connection #0 to host httpbin.org left intact
```

Captured by Wireshark



Using cURL make POST request to <http://httpbin.org/post>

```
curl -v -X POST -d 'course=CS305B' -d 'lab=lab3a' 'http://httpbin.org/post'
```

```
* Trying 34.231.30.52:80...
* Connected to httpbin.org (34.231.30.52) port 80 (#0)
> POST /post HTTP/1.1
> Host: httpbin.org
> User-Agent: curl/7.71.1
> Accept: */*
> Content-Length: 23
> Content-Type: application/x-www-form-urlencoded
>
* upload completely sent off: 23 out of 23 bytes
* Mark bundle as not supporting multiuse
< HTTP/1.1 200 OK
< Date: Mon, 15 Mar 2021 00:26:39 GMT
< Content-Type: application/json
< Content-Length: 452
```

```
< Connection: keep-alive
< Server: gunicorn/19.9.0
< Access-Control-Allow-Origin: *
< Access-Control-Allow-Credentials: true
<
{
  "args": {},
  "data": "",
  "files": {},
  "form": {
    "course": "CS305B",
    "lab": "lab3a"
  },
  "headers": {
    "Accept": "*/*",
    "Content-Length": "23",
    "Content-Type": "application/x-www-form-urlencoded",
    "Host": "httpbin.org",
    "User-Agent": "curl/7.71.1",
    "X-Amzn-Trace-Id": "Root=1-604ea9bf-74ca07c057577456735a95bc"
  },
  "json": null,
  "origin": "113.88.14.238",
  "url": "http://httpbin.org/post"
}
* Connection #0 to host httpbin.org left intact
```

Captured by Wireshark

Capturing from Wi-Fi: en0

ip.addr == 34.231.30.52

No.	Time	Source	Destination	Protocol	Length	Info
9541	139.182199	10.233.1.181	34.231.30.52	TCP	78	55173 → 80 [SYN] Seq=0 Win=65535 Len=0 MSS=1460 WS=
9542	139.476843	34.231.30.52	10.233.1.181	TCP	74	80 → 55173 [SYN, ACK] Seq=0 Ack=1 Win=26847 Len=0 M
9543	139.476955	10.233.1.181	34.231.30.52	TCP	66	55173 → 80 [ACK] Seq=1 Ack=1 Win=131840 Len=0 TSval
9544	139.477254	10.233.1.181	34.231.30.52	HTTP	238	POST /post HTTP/1.1 (application/x-www-form-urlencoded)
9546	139.724161	34.231.30.52	10.233.1.181	TCP	66	80 → 55173 [ACK] Seq=1 Ack=173 Win=28160 Len=0 TSva
9547	139.724505	34.231.30.52	10.233.1.181	HTTP/JSON	748	HTTP/1.1 200 OK , JavaScript Object Notation (appli
9548	139.724612	10.233.1.181	34.231.30.52	TCP	66	55173 → 80 [ACK] Seq=173 Ack=683 Win=131136 Len=0 T
9550	139.725744	10.233.1.181	34.231.30.52	TCP	66	55173 → 80 [FIN, ACK] Seq=173 Ack=683 Win=131136 Le
9555	139.949685	34.231.30.52	10.233.1.181	TCP	66	80 → 55173 [FIN, ACK] Seq=683 Ack=174 Win=28160 Len
9556	139.949827	10.233.1.181	34.231.30.52	TCP	66	55173 → 80 [ACK] Seq=174 Ack=684 Win=131136 Len=0 T

> Frame 9544: 238 bytes on wire (1904 bits), 238 bytes captured (1904 bits) on interface en0, id 0

> Ethernet II, Src: Apple_75:70:88 (38:f9:d3:75:70:88), Dst: 62:38:e0:05:81:13 (62:38:e0:05:81:13)

> Internet Protocol Version 4, Src: 10.233.1.181, Dst: 34.231.30.52

> Transmission Control Protocol, Src Port: 55173, Dst Port: 80, Seq: 1, Ack: 1, Len: 172

> Hypertext Transfer Protocol

> HTML Form URL Encoded: application/x-www-form-urlencoded

0010 00 e0 00 00 40 00 40 06 ec 5f 0a e9 01 b5 22 e7@.@.....

0020 1e 34 d7 85 00 50 a5 4c c2 28 17 cb 99 ca 80 18 .4...P.L.~{.....

0030 08 0c e7 d6 00 00 01 01 08 0a 08 89 58 5d 18 aaX]..

0040 be 40 50 4f 53 54 20 2f 70 6f 73 74 20 48 54 54 .@POST / post HTT

0050 50 2f 31 2e 31 0d 0a 48 6f 73 74 3a 20 68 74 74 P/1.1..Host: htt

0060 70 62 69 6e 2e 6f 72 67 0d 0a 55 73 65 72 2d 41 pbin.org ..User-A

0070 67 65 6e 74 3a 20 63 75 72 6c 2f 37 2e 37 31 2e gent: cu r/7.71.

0080 31 0d 0a 41 63 63 65 70 74 3a 20 2a 2f 2a 0d 0a 1..Accept: */*..

0090 43 6f 6e 74 65 6e 74 2d 4c 65 6e 67 74 68 3a 20 Content- Length:

00a0 32 33 0d 0a 43 6f 6e 74 65 6e 74 2d 54 79 70 65 23..Cont ent-Type

00b0 3a 20 61 70 70 6c 69 63 61 74 69 6f 6e 2f 78 2d : applic ation/x-

00c0 77 77 77 2d 66 6f 72 6d 2d 75 72 6c 65 6e 63 6f ww-form -urlenco

00d0 64 65 64 0d 0a 0d 0a 63 6f 75 72 73 65 3d 43 53 ded...c ource=CS

00e0 33 30 35 42 26 6c 61 62 3d 6c 61 62 33 61 305B&lab =lab3a

Bytes 222-227: Value (urlencoded-form.value)

Packets: 12052 · Displayed: 10 (0.1%)

Profile: Default