

- How many packets are captured by Wireshark and what is the average packet size? Also provide the average number of packets that are captured per second?

Topic / Item	Count	Average	Min Val	Max Val	Rate (ms)	Percent	Burst Rate	Burst Start
> Packet Lengths	196	220.87	54	1514	0.0072	100%	0.3200	10.991

- - There was a total of 196 packets captured and the average packet size was 220.87
- How many packets belong to HTTP or Hypertext Transfer Protocol?

No.	Source	Destination	Protocol	Info
			http	

- - There were no packets that belonged to HTTP
- What are the IP addresses of other systems that your system has communicated?

No.	Source	Destination	Protocol	Info
49	192.168.1.9	239.255.255.250	SSDP	M-SEARCH * HTTP/1.1
52	192.168.1.9	239.255.255.250	SSDP	M-SEARCH * HTTP/1.1
55	192.168.1.9	239.255.255.250	SSDP	M-SEARCH * HTTP/1.1
56	192.168.1.1	239.255.255.250	SSDP	M-SEARCH * HTTP/1.1
57	192.168.1.1	239.255.255.250	SSDP	M-SEARCH * HTTP/1.1
58	192.168.1.9	239.255.255.250	SSDP	M-SEARCH * HTTP/1.1
76	192.168.1.8	224.0.0.251	IGMPv2	Membership Report group 224.0.0.251
180	192.168.1.5	224.0.0.251	MDNS	Standard query response PTR _companion-link_tcp.local, "QU" question PTR _sleep-pr...
182	192.168.1.5	224.0.0.251	MDNS	Standard query response PTR _rdlink_tcp.local TXT PTR, cache flush Michelles-iPhone.local PTR, cache flush Miche...
184	192.168.1.1	239.255.255.250	SSDP	M-SEARCH * HTTP/1.1
186	192.168.1.1	239.255.255.250	SSDP	M-SEARCH * HTTP/1.1
187	192.168.1.5	224.0.0.251	MDNS	Standard query 0x0000 ANY Michelles' iPhone._rdlink_tcp.local, "QM" question SRV 0 0 57624 Michelles-iPhone.local OPT
189	192.168.1.5	224.0.0.251	MDNS	Standard query 0x0000 ANY Michelles' iPhone._rdlink_tcp.local, "QU" question AAAA fe80::8:3idd:6e85:68a8 A 192.168.1.5 OPT
191	192.168.1.5	224.0.0.251	MDNS	Standard query 0x0000 ANY Michelles' iPhone._rdlink_tcp.local, "QM" question SRV 0 0 57624 Michelles-iPhone.local OPT
193	192.168.1.5	224.0.0.251	MDNS	Standard query 0x0000 ANY Michelles' iPhone.local, "QM" question AAAA fe80::8:3idd:6e85:68a8 A 192.168.1.5 OPT
195	192.168.1.5	224.0.0.251	MDNS	Standard query response 0x0000 TXT, cache flush PTR Michelles' iPhone._rdlink_tcp.local TXT SRV, cache flush 0 0 57624 ...

- - The IP addresses are as follows:
 - 192.168.1.9, 192.168.1.1, 192.168.1.8, 192.168.1.5, 239.255.255.250, 224.0.0.251
- Find the packet that contains a request messages (user-input) of your client/server application and provides the following information:

a) Source Port and Destination Port

```

Transmission Control Protocol, Src Port: 57721, Dst Port: 443, Seq: 1, Ack: 1, Len: 517
Source Port: 57721
Destination Port: 443

```

b) Source IP and Destination IP addresses

```

Source Address: 192.168.1.3
Destination Address: 3.220.35.92

```

c) IP header length

```

0100 .... = Version: 4
.... 0101 = Header Length: 20 bytes (5)

```

d) Source and Destination MAC addresses

```

Ethernet II, Src: Apple_87:b8:00 (88:e9:fe:87:b8:00), Dst: Netgear_19:6b:10 (e4:f4:c6:19:6b:10)
> Destination: Netgear_19:6b:10 (e4:f4:c6:19:6b:10)
> Source: Apple_87:b8:00 (88:e9:fe:87:b8:00)

```

e) Sequence Number

```
Sequence Number: 1      (relative sequence number)
Sequence Number (raw): 411990359
[Next Sequence Number: 518      (relative sequence number)]
```

f) Total Length

Total Length: 569

g) user-input in the packet payload

TCP payload (517 bytes)