CS F303 - Computer Networks
Assignment 1

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Question 4.

1 ◦ *List of applications generating background traffic*

i) Sophos

ii) Canonical-core

iii) ARP Protocol - Address Resolution Protocol requests.

ARP is the method by which any host or router on a LAN can dynamically learn the MAC address of another host or router on the same LAN.

No.	Time	Source	Destination	Protocol	Length	Info
24	0.299503266	Dell_fe:34:1a	Broadcast	ARP	60	Who has 172.16.38.102? Tell 172.16.38.114
69	0.619299287	Cisco_60:71:03	Broadcast	ARP	60	Who has 172.16.38.116? Tell 172.16.38.1
70	0.686838572	Dell_33:06:ae	Cisco-Li_51:d2:66	ARP	60	Who has 172.16.38.19? Tell 172.16.38.132
71	0.686843415	Dell_33:06:ae	D-LinkIn_f8:35:37	ARP	60	Who has 172.16.38.11? Tell 172.16.38.132
72	0.686843865	Dell_33:06:ae	Netgear_ed:8b:33	ARP	60	Who has 172.16.38.12? Tell 172.16.38.132
73	0.686857722	Dell_33:06:ae	Smartlin_44:06:1e	ARP	60	Who has 172.16.38.26? Tell 172.16.38.132
74	0.686864420	Dell_33:06:ae	Dell_33:fd:42	ARP	60	Who has 172.16.38.16? Tell 172.16.38.132
75	0.686908661	Dell_33:06:ae	AsustekC_78:df:fd	ARP	60	Who has 172.16.38.111? Tell 172.16.38.132
76	0.686909661	Dell_33:06:ae	D-LinkIn_6d:c9:17	ARP	60	Who has 172.16.38.32? Tell 172.16.38.132
77	0.686914042	Dell_33:06:ae	RealtekS_40:1f:73	ARP	60	Who has 172.16.38.49? Tell 172.16.38.132
78	0.686948779	Dell_33:06:ae	Dell_66:a7:5a	ARP	60	Who has 172.16.38.52? Tell 172.16.38.132
79	0.686949256	Dell_33:06:ae	da:4b:27:1f:4f:7a	ARP	60	Who has 172.16.38.38? Tell 172.16.38.132
80	0.686958492	Dell_33:06:ae	Smartlin_4d:3b:fb	ARP	60	Who has 172.16.38.39? Tell 172.16.38.132
81	0.686965218	Dell_33:06:ae	Dell_2a:88:cb	ARP	60	Who has 172.16.38.55? Tell 172.16.38.132
82	0.687003817	Dell_33:06:ae	D-LinkIn_d4:c2:64	ARP	60	Who has 172.16.38.122? Tell 172.16.38.132
83	0.687004667	Dell_33:06:ae	Shenzhen_86:86:39	ARP	60	Who has 172.16.38.58? Tell 172.16.38.132
84	0.687005009	Dell_33:06:ae	Tp-LinkT_dc:aa:12	ARP	60	Who has 172.16.38.161? Tell 172.16.38.132
85	0.687070346	Dell_33:06:ae	Dell_f4:d4:ba	ARP	60	Who has 172.16.38.65? Tell 172.16.38.132

iv) TCP Protocol - Handshakes

No.	Time	Source	Destination	Protocol	Length	Info
571	1.845364012	172.16.38.132	172.16.38.16	TCP	66	51840 → 445 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM=1
573	1.846301544	172.16.38.132	172.16.38.111	TCP	66	51848 → 445 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM=1
580	1.847201563	172.16.38.132	172.16.38.52	TCP	66	51853 → 445 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM=1
581	1.847213137	172.16.38.132	172.16.38.49	TCP	66	51871 → 445 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM=1
600	1.848193658	172.16.38.132	172.16.38.55	TCP	66	51876 → 445 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM=1
621	1.850245908	172.16.38.132	172.16.38.161	TCP	66	51913 → 445 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM=1
623	1.851183312	172.16.38.132	172.16.38.58	TCP	66	51897 → 445 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM=1
642	1.852196221	172.16.38.132	172.16.38.172	TCP	66	51939 → 445 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM=1
660	1.854299620	172.16.38.132	172.16.38.71	TCP	66	51961 → 445 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM=1
672	1.856209211	172.16.38.132	172.16.38.144	TCP	66	51982 → 445 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM=1
673	1.856220696	172.16.38.132	172.16.38.157	TCP	66	51985 → 445 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM=1
687	1.857295737	172.16.38.132	172.16.38.153	TCP	66	51998 → 445 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM=1
699	1.858174530	172.16.38.132	172.16.38.148	TCP	66	52005 → 445 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM=1
700	1.858185845	172.16.38.132	172.16.38.146	TCP	66	52008 → 445 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM=1
762	1.868270895	172.16.38.132	172.16.38.108	TCP	66	52099 → 445 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS=256 SACK_PERM=1

2∘ *Analysis of the webpage download*

In terms of the number of HTTP connections, etc, and screenshots of wireshark showing DNS packets, HTTP requests, TCP headers, IP headers, etc

i. **Servers for which a DNS query was launched**

The servers for which a DNS query was launched are:
- 172.16.0.30
- 172.217.167.45 (accounts.google.com)
- 172.217.166.10, 172.217.167.35, 216.58.203.3, 172.217.166.234 (googleapis.com)
- 216.58.203.131 (gstatic.com)
- 103.68.199.23 (erp.bits-pilani.ac.in)

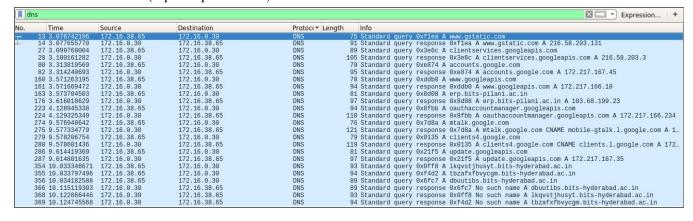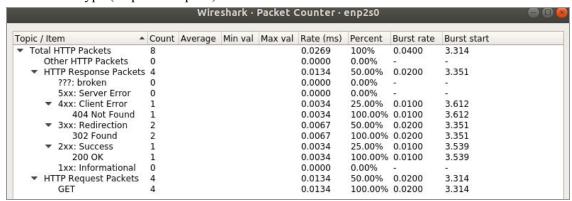| No.	Time	Source	Destination	Protocol	Length	Info
13	3.076742196	172.16.38.65	172.16.0.30	DNS	75	Standard query 0xf1ea A www.gstatic.com
14	3.077655770	172.16.0.30	172.16.38.65	DNS	91	Standard query response 0xf1ea A www.gstatic.com A 216.58.203.131
27	3.099768004	172.16.38.65	172.16.0.30	DNS	89	Standard query 0x3e6c A clientservices.googleapis.com
28	3.100161282	172.16.0.30	172.16.38.65	DNS	105	Standard query response 0x3e6c A clientservices.googleapis.com A 216.58.203.3
80	3.313819569	172.16.38.65	172.16.0.30	DNS	79	Standard query 0xe874 A accounts.google.com
82	3.314240693	172.16.0.30	172.16.38.65	DNS	95	Standard query response 0xe874 A accounts.google.com A 172.217.167.45
160	3.571263195	172.16.38.65	172.16.0.30	DNS	78	Standard query 0xddb0 A www.googleapis.com
161	3.571669472	172.16.0.30	172.16.38.65	DNS	94	Standard query response 0xddb0 A www.googleapis.com A 172.217.166.10
163	3.573704503	172.16.38.65	172.16.0.30	DNS	81	Standard query 0x8d08 A erp.bits-pilani.ac.in
176	3.616018629	172.16.0.30	172.16.38.65	DNS	97	Standard query response 0x8d08 A erp.bits-pilani.ac.in A 103.68.199.23
223	4.128945338	172.16.38.65	172.16.0.30	DNS	94	Standard query 0x8fbb A oauthaccountmanager.googleapis.com
224	4.129325349	172.16.0.30	172.16.38.65	DNS	110	Standard query response 0x8fbb A oauthaccountmanager.googleapis.com A 172.217.166.234
274	9.576940642	172.16.38.65	172.16.0.30	DNS	76	Standard query 0x7d8a A mtalk.google.com
275	9.577334779	172.16.0.30	172.16.38.65	DNS	121	Standard query response 0x7d8a A mtalk.google.com CNAME mobile-gtalk.l.google.com A 1...
279	9.578206754	172.16.38.65	172.16.0.30	DNS	79	Standard query 0x0135 A clients4.google.com
280	9.578601436	172.16.0.30	172.16.38.65	DNS	119	Standard query response 0x0135 A clients4.google.com CNAME clients.l.google.com A 172...
286	9.614419369	172.16.38.65	172.16.0.30	DNS	81	Standard query 0x21f5 A update.googleapis.com
287	9.614801635	172.16.0.30	172.16.38.65	DNS	97	Standard query response 0x21f5 A update.googleapis.com A 172.217.167.35
354	10.033348671	172.16.38.65	172.16.0.30	DNS	93	Standard query 0x0ff8 A lkqvstjhusyt.bits-hyderabad.ac.in
355	10.033797496	172.16.38.65	172.16.0.30	DNS	94	Standard query 0x4d2 A tbzafxfbvycgm.bits-hyderabad.ac.in
356	10.034182588	172.16.38.65	172.16.0.30	DNS	89	Standard query 0x6fc7 A dbuutibs.bits-hyderabad.ac.in
366	10.115119303	172.16.0.30	172.16.38.65	DNS	89	Standard query response 0x6fc7 No such name A dbuutibs.bits-hyderabad.ac.in
368	10.122866446	172.16.0.30	172.16.38.65	DNS	93	Standard query response 0x0ff8 No such name A lkqvstjhusyt.bits-hyderabad.ac.in
369	10.124745568	172.16.0.30	172.16.38.65	DNS	94	Standard query response 0xf4d2 No such name A tbzafxfbvycgm.bits-hyderabad.ac.in

ii. Number of HTTP requests generated

HTTP requests generated and their counts:

Time	Source	Destination	Protocol	Length	Info
81 3.314235096	172.16.38.65	10.2.102.21	HTTP	532	GET /psp/hcsprod/EMPLOYEE/HRMS/h/?tal
91 3.350615603	10.2.102.21	172.16.38.65	HTTP	74	HTTP/1.1 302 Moved Temporarily (tex
95 3.352483024	172.16.38.65	10.2.102.21	HTTP	700	GET /psp/hcsprod/EMPLOYEE/HRMS/h/?tal
101 3.392950021	10.2.102.21	172.16.38.65	HTTP	507	HTTP/1.1 302 Moved Temporarily (tex
114 3.465069445	172.16.38.65	10.2.102.21	HTTP	738	GET /psp/hcsprod/EMPLOYEE/HRMS/h/?tal
157 3.538810880	10.2.102.21	172.16.38.65	HTTP	1010	HTTP/1.1 200 OK (text/html)
164 3.574068797	172.16.38.65	10.2.102.21	HTTP	669	GET /favicon.ico HTTP/1.1
174 3.611888341	10.2.102.21	172.16.38.65	HTTP	1355	HTTP/1.1 404 Not Found (text/html)

Wireshark · Requests · enp2s0

Topic / Item	Count	Average	Min
▼ HTTP Requests by HTTP Host	4		
▼ 10.2.102.21:9000	4		
/psp/hcsprod/EMPLOYEE/HRMS/h/?tab=DEFAULT&cmd=login&errorCode=106&languageCd=UKE	1		
/psp/hcsprod/EMPLOYEE/HRMS/h/?tab=DEFAULT&	1		
/psp/hcsprod/EMPLOYEE/HRMS/h/?tab=DEFAULT	1		
/favicon.ico	1		

Number and type (response/request) of HTTP Packets:

Wireshark · Packet Counter · enp2s0

Topic / Item	Count	Average	Min val	Max val	Rate (ms)	Percent	Burst rate	Burst start
▼ Total HTTP Packets	8				0.0269	100%	0.0400	3.314
Other HTTP Packets	0				0.0000	0.00%	-	-
▼ HTTP Response Packets	4				0.0134	50.00%	0.0200	3.351
???: broken	0				0.0000	0.00%	-	-
5xx: Server Error	0				0.0000	0.00%	-	-
▼ 4xx: Client Error	1				0.0034	25.00%	0.0100	3.612
404 Not Found	1				0.0034	100.00%	0.0100	3.612
▼ 3xx: Redirection	2				0.0067	50.00%	0.0200	3.351
302 Found	2				0.0067	100.00%	0.0200	3.351
▼ 2xx: Success	1				0.0034	25.00%	0.0100	3.539
200 OK	1				0.0034	100.00%	0.0100	3.539
1xx: Informational	0				0.0000	0.00%	-	-
▼ HTTP Request Packets	4				0.0134	50.00%	0.0200	3.314
GET	4				0.0134	100.00%	0.0200	3.314

iii. Number of TCP connections opened

Two TCP connections were established:

Address A	Port A	Address B	Port B	Packets	Bytes	Packets A → B	Bytes A → B	Packets B → A	Bytes B → A
172.16.38.65	60798	10.2.102.21	9000	31	18 k	16	1,736	15	16 k
172.16.38.65	60790	10.2.102.21	9000	13	2,318	7	1,047	6	1,271

The following are the TCP packets transmitted:

	Time	Source	Destination	Protocol	Length	Info
25	3.093095520	172.16.38.65	10.2.102.21	TCP	74	51782 → 9000 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 SACK_PERM=1 TSval=385
26	3.093146514	172.16.38.65	10.2.102.21	TCP	74	51784 → 9000 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 SACK_PERM=1 TSval=385
34	3.122784986	10.2.102.21	172.16.38.65	TCP	74	9000 → 51782 [SYN, ACK] Seq=0 Ack=1 Win=14360 Len=0 MSS=1436 WS=1 SACK_
35	3.122819672	172.16.38.65	10.2.102.21	TCP	66	51782 → 9000 [ACK] Seq=1 Ack=1 Win=64256 Len=0 TSval=3859717830 TSecr=1
36	3.125414229	10.2.102.21	172.16.38.65	TCP	74	9000 → 51784 [SYN, ACK] Seq=0 Ack=1 Win=14360 Len=0 MSS=1436 WS=1 SACK
37	3.125447138	172.16.38.65	10.2.102.21	TCP	66	51784 → 9000 [ACK] Seq=1 Ack=1 Win=64256 Len=0 TSval=3859717833 TSecr=1
88	3.342595658	10.2.102.21	172.16.38.65	TCP	66	9000 → 51782 [ACK] Seq=1 Ack=467 Win=14826 Len=0 TSval=182789384 TSecr=
89	3.350577620	10.2.102.21	172.16.38.65	TCP	886	9000 → 51782 [PSH, ACK] Seq=1 Ack=467 Win=14826 Len=820 TSval=182789390
90	3.350603786	172.16.38.65	10.2.102.21	TCP	66	51782 → 9000 [ACK] Seq=467 Ack=821 Win=64128 Len=0 TSval=3859718058 TSe
92	3.350618697	172.16.38.65	10.2.102.21	TCP	66	51782 → 9000 [ACK] Seq=467 Ack=829 Win=64128 Len=0 TSval=3859718058 TSe
93	3.350620817	10.2.102.21	172.16.38.65	TCP	66	9000 → 51782 [FIN, ACK] Seq=829 Ack=467 Win=14826 Len=0 TSval=182789390
94	3.350876426	172.16.38.65	10.2.102.21	TCP	66	51782 → 9000 [FIN, ACK] Seq=467 Ack=830 Win=64128 Len=0 TSval=385971805
96	3.373909776	10.2.102.21	172.16.38.65	TCP	66	9000 → 51782 [ACK] Seq=830 Ack=468 Win=14826 Len=0 TSval=182789414 TSec
97	3.385398802	10.2.102.21	172.16.38.65	TCP	66	9000 → 51784 [ACK] Seq=1 Ack=635 Win=14994 Len=0 TSval=182789427 TSecr=
98	3.392486551	10.2.102.21	172.16.38.65	TCP	500	9000 → 51784 [PSH, ACK] Seq=1 Ack=635 Win=14994 Len=434 TSval=182789431
99	3.392505134	172.16.38.65	10.2.102.21	TCP	66	51784 → 9000 [ACK] Seq=635 Ack=435 Win=64128 Len=0 TSval=3859718100 TSe
100	3.392775343	172.16.38.65	10.2.102.21	TCP	66	51784 → 9000 [FIN, ACK] Seq=635 Ack=435 Win=64128 Len=0 TSval=385971810
102	3.392976884	172.16.38.65	10.2.102.21	TCP	54	51784 → 9000 [RST] Seq=635 Win=0 Len=0
103	3.394069709	172.16.38.65	10.2.102.21	TCP	74	51790 → 9000 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 SACK_PERM=1 TSval=385
104	3.396808558	10.2.102.21	172.16.38.65	TCP	66	9000 → 51784 [FIN, ACK] Seq=435 Ack=635 Win=14994 Len=0 TSval=182789431
105	3.396832914	172.16.38.65	10.2.102.21	TCP	54	51784 → 9000 [RST] Seq=635 Win=0 Len=0
106	3.416350784	10.2.102.21	172.16.38.65	TCP	60	9000 → 51784 [RST, ACK] Seq=435 Ack=636 Win=0 Len=0
110	3.463182079	10.2.102.21	172.16.38.65	TCP	74	9000 → 51790 [SYN, ACK] Seq=0 Ack=1 Win=14360 Len=0 MSS=1436 WS=1 SACK_
111	3.463221960	172.16.38.65	10.2.102.21	TCP	66	51790 → 9000 [ACK] Seq=1 Ack=1 Win=64256 Len=0 TSval=3859718171 TSecr=1
132	3.513015682	10.2.102.21	172.16.38.65	TCP	66	9000 → 51790 [ACK] Seq=1 Ack=673 Win=15032 Len=0 TSval=182789543 TSecr=
133	3.514237950	10.2.102.21	172.16.38.65	TCP	386	9000 → 51790 [PSH, ACK] Seq=1 Ack=673 Win=15032 Len=320 TSval=182789549
134	3.514253005	172.16.38.65	10.2.102.21	TCP	66	51790 → 9000 [ACK] Seq=673 Ack=321 Win=64128 Len=0 TSval=3859718222 TSe
135	3.516606225	10.2.102.21	172.16.38.65	TCP	1490	9000 → 51790 [PSH, ACK] Seq=321 Ack=673 Win=15032 Len=1424 TSval=182789
136	3.516629988	172.16.38.65	10.2.102.21	TCP	66	51790 → 9000 [ACK] Seq=673 Ack=1745 Win=64128 Len=0 TSval=3859718224 TSe
137	3.517757641	10.2.102.21	172.16.38.65	TCP	1490	9000 → 51790 [PSH, ACK] Seq=1745 Ack=673 Win=15032 Len=1424 TSval=18278
138	3.517766795	172.16.38.65	10.2.102.21	TCP	66	51790 → 9000 [ACK] Seq=673 Ack=3169 Win=64128 Len=0 TSval=3859718225 TS
139	3.518909795	10.2.102.21	172.16.38.65	TCP	1490	9000 → 51790 [PSH, ACK] Seq=3169 Ack=673 Win=15032 Len=1424 TSval=18278

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140 3.518923865   172.16.38.65    10.2.102.21      TCP      66 51790 → 9000 [ACK] Seq=673 Ack=4593 Win=64128 Len=0 TSval=3859718226
141 3.520025980   10.2.102.21     172.16.38.65     TCP    1490 9000 → 51790 [ACK] Seq=4593 Ack=673 Win=15032 Len=1424 TSval=1827895
142 3.520042294   172.16.38.65    10.2.102.21      TCP      66 51790 → 9000 [ACK] Seq=673 Ack=6017 Win=64128 Len=0 TSval=3859718227
143 3.521159360   10.2.102.21     172.16.38.65     TCP    1490 9000 → 51790 [PSH, ACK] Seq=6017 Ack=673 Win=15032 Len=1424 TSval=182
144 3.521167908   172.16.38.65    10.2.102.21      TCP      66 51790 → 9000 [ACK] Seq=673 Ack=7441 Win=64128 Len=0 TSval=3859718229
145 3.522195453   10.2.102.21     172.16.38.65     TCP    1490 9000 → 51790 [PSH, ACK] Seq=7441 Ack=673 Win=15032 Len=1424 TSval=182
146 3.522202624   172.16.38.65    10.2.102.21      TCP      66 51790 → 9000 [ACK] Seq=673 Ack=8865 Win=64128 Len=0 TSval=3859718230
147 3.523309262   10.2.102.21     172.16.38.65     TCP    1490 9000 → 51790 [PSH, ACK] Seq=8865 Ack=673 Win=15032 Len=1424 TSval=182
148 3.523320182   172.16.38.65    10.2.102.21      TCP      66 51790 → 9000 [ACK] Seq=673 Ack=10289 Win=64128 Len=0 TSval=3859718231
149 3.524399880   10.2.102.21     172.16.38.65     TCP    1490 9000 → 51790 [ACK] Seq=10289 Ack=673 Win=15032 Len=1424 TSval=1827895
150 3.524411540   172.16.38.65    10.2.102.21      TCP      66 51790 → 9000 [ACK] Seq=673 Ack=11713 Win=64128 Len=0 TSval=3859718232
151 3.525543607   10.2.102.21     172.16.38.65     TCP    1490 9000 → 51790 [PSH, ACK] Seq=11713 Ack=673 Win=15032 Len=1424 TSval=18
152 3.525553936   172.16.38.65    10.2.102.21      TCP      66 51790 → 9000 [ACK] Seq=673 Ack=13137 Win=64128 Len=0 TSval=3859718233
153 3.526408687   10.2.102.21     172.16.38.65     TCP    1170 9000 → 51790 [PSH, ACK] Seq=13137 Ack=673 Win=15032 Len=1104 TSval=18
154 3.526427079   172.16.38.65    10.2.102.21      TCP      66 51790 → 9000 [ACK] Seq=673 Ack=14241 Win=64128 Len=0 TSval=3859718234
155 3.535664561   10.2.102.21     172.16.38.65     TCP     386 9000 → 51790 [PSH, ACK] Seq=14241 Ack=673 Win=15032 Len=320 TSval=182
156 3.535700859   172.16.38.65    10.2.102.21      TCP      66 51790 → 9000 [ACK] Seq=673 Ack=14561 Win=64128 Len=0 TSval=3859718243
158 3.538859119   172.16.38.65    10.2.102.21      TCP      66 51790 → 9000 [ACK] Seq=673 Ack=15505 Win=64128 Len=0 TSval=3859718246
173 3.607849351   10.2.102.21     172.16.38.65     TCP      66 9000 → 51790 [ACK] Seq=15505 Ack=1276 Win=15635 Len=0 TSval=182789647
175 3.611916176   172.16.38.65    10.2.102.21      TCP      66 51790 → 9000 [ACK] Seq=1276 Ack=16794 Win=64128 Len=0 TSval=385971831
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iv. **Total time taken for download of the entire webpage measured as the time at which the first request was sent and the time when the last packet was received**

First request: 3.093095520s

Last request: 3.611916176s

The total time taken to download the entire webpage is:

3.611916176 - 3.093095520 = _0.5188206476 seconds._

v. **Any TCP losses/retransmits noticed**

Some losses and retransmits of TCP packets were observed.

```
147 3.948311288   172.16.38.65    10.2.102.21      TCP      54 60790 → 9000 [RST] Seq=635 Win=0 Len=0
146 3.948299528   10.2.102.21     172.16.38.65     TCP      66 9000 → 60790 [ACK] Seq=877 Ack=635 Win=15665 Len=0 TSval=622433653 TSecr=285676
144 3.922403042   172.16.38.65    10.2.102.21      TCP      54 60790 → 9000 [RST] Seq=634 Win=0 Len=0
143 3.922393512   10.2.102.21     172.16.38.65     TCP      66 9000 → 60790 [FIN, ACK] Seq=876 Ack=634 Win=15665 Len=0 TSval=622433626 TSecr=2
141 3.921200497   172.16.38.65    10.2.102.21      TCP      54 60790 → 9000 [RST] Seq=634 Win=0 Len=0
139 3.921185542   172.16.38.65    10.2.102.21      TCP      54 60790 → 9000 [RST] Seq=634 Win=0 Len=0
138 3.921129567   10.2.102.21     172.16.38.65     TCP     499 60790 → 9000 [PSH, ACK] Seq=435 Ack=634 Win=15665 Len=433 TSval=622433626 TSecr
137 3.920999918   172.16.38.65    10.2.102.21      TCP      66 60790 → 9000 [FIN, ACK] Seq=634 Ack=435 Win=501 Len=0 TSval=2856769225 TSecr=62
136 3.920849427   172.16.38.65    10.2.102.21      TCP      66 60790 → 9000 [ACK] Seq=634 Ack=435 Win=501 Len=0 TSval=2856769225 TSecr=6224336
135 3.920836719   10.2.102.21     172.16.38.65     TCP     500 9000 → 60790 [PSH, ACK] Seq=1 Ack=634 Win=15665 Len=434 TSval=622433626 TSecr=2
134 3.915150603   10.2.102.21     172.16.38.65     TCP      66 9000 → 60790 [ACK] Seq=1 Ack=634 Win=15665 Len=0 TSval=622433621 TSecr=28567691
133 3.908279995   172.16.38.65    10.2.102.21      TCP      66 60798 → 9000 [ACK] Seq=1 Ack=1 Win=64256 Len=0 TSval=2856769213 TSecr=622433614
132 3.908253032   10.2.102.21     172.16.38.65     TCP      74 9000 → 60798 [SYN, ACK] Seq=0 Ack=1 Win=14360 Len=0 MSS=1436 WS=1 SACK_PERM=1 T
130 3.878876574   172.16.38.65    10.2.102.21      TCP      74 60798 → 9000 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 SACK_PERM=1 TSval=2856769183
```