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Assignment 1 (Part A) Submission

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Link of the pcap file: https://drive.google.com/file/d/18teyyv5Un0FdfoAmogoEoOkfdA2p2fQk/view?usp=sharing

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Total packets - 22199

1. a) TCP + UDP = 21741 + 395 = 22136

b) IPv4 + IPv6 = 22135 + 2 = 22137

1. a) when accessing <http://iitkgp.ac.in> - 14M bytes

b)when accessing <https://www.cornell.edu> - 66K bytes

1. Total DNS packets - 233

a)

| **DOMAIN NAME** | **IP Address** |
| --- | --- |
| connectivity-check.ubuntu.com: | 91.189.91.48 |
| iitkgp.ac.in | 172.16.3.10 |
| cdnjs.cloudflare.com | 104.17.25.14 |
| fonts.googleapis.com | 142.250.192.170 |
| code.jquery.com | 151.101.194.137 |
| fonts.gstatic.com | 216.58.203.3 |
| youtube-ui.l.google.com | 172.217.161.14 |
| content-autofill.googleapis.com: | 142.250.76.202 |
| translate.googleapis.com | 142.250.192.138 |
| i.ytimg.com | 142.250.182.182 |
| syndication.twitter.com | 104.244.42.72 |
| googleads.g.doubleclick.net | 142.250.194.34 |
| static.doubleclick.net | 142.250.192.198 |
| jnn-pa.googleapis.com | 142.250.193.234 |
| photos-ugc.l.googleusercontent.com | 142.250.206.129 |
| z-p42-instagram.c10r.instagram.com | 163.70.143.174 |
| abs-zero.twimg.com | 104.244.43.131 |
| cs510.wpc.edgecastcdn.net | 152.199.43.83 |
| fonts.gstatic.com | 216.58.196.195 |
| play.google.com | 142.250.193.78 |
| jsdelivr.map.fastly.net | 151.101.153.229 |
| code.jquery.com | 151.101.194.137 |
| update.googleapis.com | 142.250.194.67 |
| clients.l.google.com | 142.250.183.14 |
| beacons-handoff.gcp.gvt2.com | 172.217.167.163 |
| www.google.com | 142.250.183.36 |
| www.googletagmanager.com | 142.250.207.232 |
| ssl.google-analytics.com | 142.250.194.168 |
| www.google-analytics.com | 142.250.66.14 |
| safebrowsing.googleapis.com | 142.250.206.106 |
| www.cornell.edu | 13.107.246.72 |

b) Yes

1. a) when accessing <http://iitkgp.ac.in/>

No of HTTP GET requests observed = 3

They are:

**No** **Time Source Destination protocol length info**

93 14.688172011 10.117.13.35 172.16.3.10 HTTP 492 GET / HTTP/1.1

5785 15.778834281 10.117.13.35 172.16.3.10 HTTP 509 GET /assets/images/about-iitk-video.jpg HTTP/1.1

5939 15.789881366 10.117.13.35 172.16.3.10 HTTP 576 GET / HTTP/1.1

b) i) TCP segment lengths : 426,

443,

510.

ii) HTTP: 347 kB

347 kB

433 kB

The total amount of data being received in the corresponding HTTP Response message: 347 + 347 + 433 = 1127 kB