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Assignment 1 Submission

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Link of the pcap file: <https://drive.google.com/file/d/1PnsWkApjYkYqOHHT3TG6RcH_fnXLLhPM/view?usp=sharing>

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1.

1. Application Layer: HTTP,DNS,MDNS
2. Transport Layer: TCP,TLSv1.2,TLSv1.3
3. Network Layer: ARP,ICMPv6

2. Total amount of data being received

1. ​On accessing <http://iitkgp.ac.in>: 1903217 bytes
2. On accessing <https://www.cornell.edu>: 1031225 bytes

3.

|  |  |
| --- | --- |
| **Domain** | **IP** |
| firefox.settings.services.mozilla.com | 13.35.191.77 13.35.191.54  13.35.191.120 13.35.191.107 |
| location.services.mozilla.com | 52.42.151.74 34.210.121.31  44.238.41.205 52.41.252.192 34.216.198.143 44.237.173.75 |
| www.linkedin.com | 13.107.42.1 |
| safebrowsing.googleapis.com | 142.250.77.42 |
| googlemail.l.google.com | 172.217.174.229 |
| 6120104.global.siteimproveanalytics.io | 18.158.85.68 18.159.119.149 |
| use.typekit.net | 96.17.182.87 96.17.182.84 |
| cdnjs.cloudflare.com | 104.16.18.94 A 104.16.19.94 |
| star-mini.c10r.facebook.com | 157.240.16.35 |
| iitkgp.ac.in | 203.110.245.244 |
| connectivity-check.ubuntu.com | 34.122.121.32 35.232.111.17  35.224.170.84 |
| twitter.com | 104.244.42.65 |
| p.typekit.net | 104.108.159.40 |
| www.jeeadv.ac.in | 35.192.176.149 |
| youtube-ui.l.google.com A | 142.250.77.78 142.250.182.206 142.250.182.238 142.250.183.14 142.250.183.142 172.217.174.238 216.58.203.46 142.250.67.174 142.250.67.206 142.250.76.174 142.250.76.206 216.58.196.78 172.217.166.78 142.250.67.238 172.217.174.78 142.250.77.46 |
| siteimproveanalytics.com | 172.64.196.24 172.64.197.24 |
| ajax.googleapis.com | 172.217.166.74 |

B. yes, we find out the IP of the DNS servers by exploring the DNS packets

4.

Number of HTTP get requests = 20

