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Assignment 1 Submission

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Drive link:

<https://drive.google.com/file/d/1Z0nJYTP0BDo3CD59QmRCzoPQwHpZAxLI/view?usp=sharing>

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1.

**Application layer:** DNS , SSDP , LLMNR , HTTP , MDNS , NBNS , TLS.

**Transport layer :** TCP , UDP , QUIC .

**Network layer :** IPV4 ,IPV6 , IGMP.

**2.**

**a** . Data received by accessing [http://iitkgp.ac.in](http://iitkgp.ac.in/) - 2576621 bytes

**b** . Data received by accessing [https://www.cornell.edu](https://www.cornell.edu/) - 31686 bytes

**3a.**

|  |  |  |
| --- | --- | --- |
| Sno | Domain Name | IP |
| 1 | accounts.google.com | Address: 172.217.167.141 |
| 2 | www.facebook.com | Address: 157.240.23.35 |
| 3 | www.linkedin.com | Address: 13.107.42.14 |
| 4 | www.jeeadv.ac.in | Address: 35.192.176.149 |
| 5 | www.jeeadv.ac.in | Address: 35.192.176.149 |
| 6 | beacons.gcp.gvt2.com | Address: 172.217.166.99 |
| 7 | update.googleapis.com | Address: 172.217.26.195 |
| 8 | presence.teams.microsoft.com | Address: 52.114.36.18 |
| 9 | safebrowsing.googleapis.com | Address: 172.217.163.74 |
| 10 | safebrowsing.google.com | Address: 216.58.200.142 |
| 11 | use.typekit.net | Address: 123.176.33.10 |
| 12 | a1988.dscg1.akamai.net | Address: 123.176.33.25 |
| 13 | uib.ff.avast.com | Address: 69.94.69.163 |
| 14 | urlinfo.ns1.ff.avast.com | Address: 5.62.53.185 |
| 15 | urlinfo.ns1.ff.avast.com | Address: 69.94.69.173 |
| 16 | spoc.norton.com | Address: 13.88.181.35 |

**3b.** Yes we can find, IP of DNS servers - 49.205.171.194

**4a and 4b.**

Total number of http get requests are 19.

1.

GET / HTTP/1.1

Total number of TCP segments received: ---

Total amount of data being received: ---

2. GET/resources/banners/adm\_vgsom.png;jsessionid=772834707196DEC956F62CC2950B9C0C HTTP/1.1

Total number of TCP segments received:692

Total amount of data being received: 1139574 bytes

3.

GET/resources/common\_css/common\_stylesheet.css;jsessionid=772834707196DEC956F62CC2950B9C0C HTTP/1.1

Total number of TCP segments received: ---

Total amount of data being received: ---

4

.GET/resources/common\_js/common\_js.js;jsessionid=772834707196DEC956F62CC2950B9C0C HTTP/1.1

Total number of TCP segments received: ---

Total amount of data being received: ---

5.

GET /resources/css/bootstrap.min.css;jsessionid=772834707196DEC956F62CC2950B9C0C HTTP/1.1

Total number of TCP segments received: ---

Total amount of data being received: ---

6.

GET /resources/css/font-awesome.css;jsessionid=772834707196DEC956F62CC2950B9C0C HTTP/1.1

Total number of TCP segments received: ---

Total amount of data being received: ---

7.

GET /resources/css/home\_style.css;jsessionid=772834707196DEC956F62CC2950B9C0C HTTP/1.1

Total number of TCP segments received: ---

Total amount of data being received: ---

8.

GET /resources/css/override.css;jsessionid=772834707196DEC956F62CC2950B9C0C HTTP/1.1

Total number of TCP segments received: ---

Total amount of data being received: ---

9.

GET /resources/images/hindi.png;jsessionid=772834707196DEC956F62CC2950B9C0C HTTP/1.1

Total number of TCP segments received:3

Total amount of data being received: 2196 bytes

10.

GET /resources/images/index.png;jsessionid=772834707196DEC956F62CC2950B9C0C HTTP/1.1

Total number of TCP segments received: ---

Total amount of data being received: ---

11.

GET /resources/images/logo.png;jsessionid=772834707196DEC956F62CC2950B9C0C HTTP/1.1

Total number of TCP segments received:14

Total amount of data being received: 17250 bytes

12.

GET /resources/images/nvsp3.png;jsessionid=772834707196DEC956F62CC2950B9C0C HTTP/1.1

Total number of TCP segments received: ---

Total amount of data being received: ---

13.

GET /resources/js/bootstrap.min.js;jsessionid=772834707196DEC956F62CC2950B9C0C HTTP/1.1

Total number of TCP segments received: 26

Total amount of data being received: 37058 bytes

14.

GET/resources/js/jquery.bootstrap.newsbox.min.js;jsessionid=772834707196DEC956F62CC2950B9C0C HTTP/1.1

Total number of TCP segments received:---

Total amount of data being received: ---

15.

GET /resources/js/jquery.js;jsessionid=772834707196DEC956F62CC2950B9C0C HTTP/1.1

Total number of TCP segments received: ---

Total amount of data being received: ---

16.

GET /resources/js/navigation.js;jsessionid=772834707196DEC956F62CC2950B9C0C HTTP/1.1

Total number of TCP segments received: ---

Total amount of data being received: ---

17.

GET /resources/js/override.js;jsessionid=772834707196DEC956F62CC2950B9C0C HTTP/1.1

Total number of TCP segments received:7

Total amount of data being received: 8012 bytes

18.

GET/resources/page\_js/home\_page.js;jsessionid=772834707196DEC956F62CC2950B9C0C HTTP/1.1

Total number of TCP segments received: ---

Total amount of data being received: ---

19.

GET/resources/page\_js/jquery.tickerNews.min.js;jsessionid=772834707196DEC956F62CC2950B9C0C HTTP/1.1

Total number of TCP segments received:---

Total amount of data being received: ---

--- Indicates the response is not being captured