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### Assignment 1 (Part A) Submission

### Name: Sanskar Mittal

### Roll number: 21CS10057

### Link of the pcap file: [21CS10057.pcapng](https://drive.google.com/file/d/13TDkErTSJAeicKKVUZRM9xBCbneBL8kZ/view?usp=sharing)

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## Answers:

1. 1. 13352
   2. IPv4: 13086  
      IPv6: 267
2. 1. For [www.iitkgp.ac.in](http://www.iitkgp.ac.in) : 9340254
   2. For [www.cornell.edu](http://www.cornell.edu): 511575
3. In total, **260** DNS packets have been observed.

| DOMAIN NAME | IP |
| --- | --- |
| [prod.detectportal.prod.cloudops.mozgcp.net](http://prod.detectportal.prod.cloudops.mozgcp.net) | 34.107.221.82 |
| [prod.remote-settings.prod.webservices.mozgcp.net](http://prod.remote-settings.prod.webservices.mozgcp.net) | 34.149.100.209 |
| [profile.accounts.firefox.com](http://profile.accounts.firefox.com) | 34.110.207.168 |
| [a1887.dscq.akamai.net](http://a1887.dscq.akamai.net) | 184.84.233.67 |
| [a1887.dscq.akamai.net](http://a1887.dscq.akamai.net) | 184.84.233.97 |
| [autopush.prod.mozaws.net](http://autopush.prod.mozaws.net) | 34.107.243.93 |
| [prod.tokenserver.prod.cloudops.mozgcp.net](http://prod.tokenserver.prod.cloudops.mozgcp.net) | 34.107.141.31 |
| [api.accounts.firefox.com](http://api.accounts.firefox.com) | 34.117.14.220 |
| [prod.tokenserver.prod.cloudops.mozgcp.net](http://prod.tokenserver.prod.cloudops.mozgcp.net) | 34.107.141.31 |
| [prod.tokenserver.prod.cloudops.mozgcp.net](http://prod.tokenserver.prod.cloudops.mozgcp.net) | 34.107.141.31 |
| [sync-1-us-west1-g.sync.services.mozilla.com](http://sync-1-us-west1-g.sync.services.mozilla.com) | 35.186.227.140 |
| [cdnjs.cloudflare.com](http://cdnjs.cloudflare.com) | 104.17.25.14 |
| [cdnjs.cloudflare.com](http://cdnjs.cloudflare.com) | 104.17.24.14 |
| [platform.twitter.map.fastly.net](http://platform.twitter.map.fastly.net) | 199.232.20.157 |
| [scontent.xx.fbcdn.net](http://scontent.xx.fbcdn.net) | 163.70.143.4 |
| [code.jquery.com](http://code.jquery.com) | 151.101.66.137 |
| [code.jquery.com](http://code.jquery.com) | 151.101.2.137 |
| [code.jquery.com](http://code.jquery.com) | 151.101.130.137 |
| [code.jquery.com](http://code.jquery.com) | 151.101.194.137 |
| [jsdelivr.map.fastly.net](http://jsdelivr.map.fastly.net) | 151.101.153.229 |
| [safebrowsing.googleapis.com](http://safebrowsing.googleapis.com) | 142.250.195.10 |
| [fonts.googleapis.com](http://fonts.googleapis.com) | 142.250.194.106 |
| [youtube-ui.l.google.com](http://youtube-ui.l.google.com) | 142.250.199.174 |
| [youtube-ui.l.google.com](http://youtube-ui.l.google.com) | 142.250.183.14 |
| [youtube-ui.l.google.com](http://youtube-ui.l.google.com) | 142.250.70.46 |
| [youtube-ui.l.google.com](http://youtube-ui.l.google.com) | 142.250.70.110 |
| [youtube-ui.l.google.com](http://youtube-ui.l.google.com) | 142.250.183.142 |
| [youtube-ui.l.google.com](http://youtube-ui.l.google.com) | 142.250.182.206 |
| [youtube-ui.l.google.com](http://youtube-ui.l.google.com) | 142.250.71.110 |
| [youtube-ui.l.google.com](http://youtube-ui.l.google.com) | 142.250.183.206 |
| [youtube-ui.l.google.com](http://youtube-ui.l.google.com) | 142.250.66.14 |
| [youtube-ui.l.google.com](http://youtube-ui.l.google.com) | 142.251.42.110 |
| [youtube-ui.l.google.com](http://youtube-ui.l.google.com) | 142.250.183.174 |
| [youtube-ui.l.google.com](http://youtube-ui.l.google.com) | 142.250.70.78 |
| [youtube-ui.l.google.com](http://youtube-ui.l.google.com) | 142.250.77.46 |
| [youtube-ui.l.google.com](http://youtube-ui.l.google.com) | 142.250.77.78 |
| [youtube-ui.l.google.com](http://youtube-ui.l.google.com) | 142.250.199.142 |
| [youtube-ui.l.google.com](http://youtube-ui.l.google.com) | 142.250.182.238 |
| [fonts.gstatic.com](http://fonts.gstatic.com) | 142.250.194.163 |
| [fp2e7a.wpc.phicdn.net](http://fp2e7a.wpc.phicdn.net) | 152.195.38.76 |
| [fp2e7a.wpc.phicdn.net](http://fp2e7a.wpc.phicdn.net) | 152.195.38.76 |
| [fp2e7a.wpc.phicdn.net](http://fp2e7a.wpc.phicdn.net) | 152.195.38.76 |
| [fp2e7a.wpc.phicdn.net](http://fp2e7a.wpc.phicdn.net) | 152.195.38.76 |
| [fp2e7a.wpc.phicdn.net](http://fp2e7a.wpc.phicdn.net) | 152.195.38.76 |
| [pki-goog.l.google.com](http://pki-goog.l.google.com) | 142.250.199.163 |
| [pki-goog.l.google.com](http://pki-goog.l.google.com) | 142.250.199.163 |
| [jnn-pa.googleapis.com](http://jnn-pa.googleapis.com) | 142.250.195.10 |
| [jnn-pa.googleapis.com](http://jnn-pa.googleapis.com) | 142.250.77.202 |
| [jnn-pa.googleapis.com](http://jnn-pa.googleapis.com) | 216.58.200.202 |
| [jnn-pa.googleapis.com](http://jnn-pa.googleapis.com) | 142.250.207.202 |
| [jnn-pa.googleapis.com](http://jnn-pa.googleapis.com) | 142.250.194.202 |
| [jnn-pa.googleapis.com](http://jnn-pa.googleapis.com) | 142.250.207.234 |
| [jnn-pa.googleapis.com](http://jnn-pa.googleapis.com) | 172.217.161.10 |
| [jnn-pa.googleapis.com](http://jnn-pa.googleapis.com) | 142.250.182.170 |
| [jnn-pa.googleapis.com](http://jnn-pa.googleapis.com) | 142.250.77.234 |
| [jnn-pa.googleapis.com](http://jnn-pa.googleapis.com) | 142.250.194.138 |
| [jnn-pa.googleapis.com](http://jnn-pa.googleapis.com) | 142.250.194.234 |
| [jnn-pa.googleapis.com](http://jnn-pa.googleapis.com) | 172.217.166.202 |
| [jnn-pa.googleapis.com](http://jnn-pa.googleapis.com) | 142.250.194.170 |
| [jnn-pa.googleapis.com](http://jnn-pa.googleapis.com) | 172.217.167.42 |
| [jnn-pa.googleapis.com](http://jnn-pa.googleapis.com) | 172.217.167.234 |
| [jnn-pa.googleapis.com](http://jnn-pa.googleapis.com) | 142.250.194.106 |
| [www.google.com](http://www.google.com) | 142.250.193.36 |
| [i.ytimg.com](http://i.ytimg.com) | 142.250.194.54 |
| [i.ytimg.com](http://i.ytimg.com) | 142.250.206.182 |
| [i.ytimg.com](http://i.ytimg.com) | 142.250.193.22 |
| [i.ytimg.com](http://i.ytimg.com) | 142.250.194.22 |
| [i.ytimg.com](http://i.ytimg.com) | 142.250.194.118 |
| [i.ytimg.com](http://i.ytimg.com) | 142.250.194.150 |
| [i.ytimg.com](http://i.ytimg.com) | 142.250.193.214 |
| [i.ytimg.com](http://i.ytimg.com) | 142.250.194.182 |
| [i.ytimg.com](http://i.ytimg.com) | 142.250.206.118 |
| [i.ytimg.com](http://i.ytimg.com) | 142.250.193.246 |
| [i.ytimg.com](http://i.ytimg.com) | 142.250.193.86 |
| [i.ytimg.com](http://i.ytimg.com) | 142.250.192.182 |
| [i.ytimg.com](http://i.ytimg.com) | 142.250.206.150 |
| [i.ytimg.com](http://i.ytimg.com) | 142.250.193.54 |
| [i.ytimg.com](http://i.ytimg.com) | 142.250.194.86 |
| [i.ytimg.com](http://i.ytimg.com) | 142.250.192.214 |
| [photos-ugc.l.googleusercontent.com](http://photos-ugc.l.googleusercontent.com) | 142.250.182.193 |
| [syndication.twitter.com](http://syndication.twitter.com) | 104.244.42.72 |
| [syndication.twitter.com](http://syndication.twitter.com) | 104.244.42.200 |
| [syndication.twitter.com](http://syndication.twitter.com) | 104.244.42.8 |
| [syndication.twitter.com](http://syndication.twitter.com) | 104.244.42.136 |
| [syndication.twitter.com](http://syndication.twitter.com) | 104.244.42.200 |
| [syndication.twitter.com](http://syndication.twitter.com) | 104.244.42.72 |
| [syndication.twitter.com](http://syndication.twitter.com) | 104.244.42.8 |
| [syndication.twitter.com](http://syndication.twitter.com) | 104.244.42.136 |
| [star-mini.c10r.facebook.com](http://star-mini.c10r.facebook.com) | 163.70.143.35 |
| [a1887.dscq.akamai.net](http://a1887.dscq.akamai.net) | 184.84.233.67 |
| [a1887.dscq.akamai.net](http://a1887.dscq.akamai.net) | 184.84.233.97 |
| [scontent.xx.fbcdn.net](http://scontent.xx.fbcdn.net) | 163.70.143.4 |
| [scontent-bom2-1.xx.fbcdn.net](http://scontent-bom2-1.xx.fbcdn.net) | 163.70.143.4 |
| [scontent-bom1-2.xx.fbcdn.net](http://scontent-bom1-2.xx.fbcdn.net) | 31.13.79.26 |
| [scontent-bom1-1.xx.fbcdn.net](http://scontent-bom1-1.xx.fbcdn.net) | 157.240.16.20 |
| [abs-zero.twimg.com](http://abs-zero.twimg.com) | 104.244.43.131 |
| [cs510.wpc.edgecastcdn.net](http://cs510.wpc.edgecastcdn.net) | 152.199.43.83 |
| [cs672.wac.edgecastcdn.net](http://cs672.wac.edgecastcdn.net) | 192.229.237.96 |
| ipv4only.arpa | 192.0.0.171 |
| ipv4only.arpa | 192.0.0.170 |
| [example.org](http://example.org) | 93.184.216.34 |
| [prod.detectportal.prod.cloudops.mozgcp.net](http://prod.detectportal.prod.cloudops.mozgcp.net) | 34.107.221.82 |
| [part-0044.t-0009.t-msedge.net](http://part-0044.t-0009.t-msedge.net) | 13.107.246.72 |
| [part-0044.t-0009.t-msedge.net](http://part-0044.t-0009.t-msedge.net) | 13.107.213.72 |
| [part-0044.t-0009.t-msedge.net](http://part-0044.t-0009.t-msedge.net) | 13.107.246.72 |
| [part-0044.t-0009.t-msedge.net](http://part-0044.t-0009.t-msedge.net) | 13.107.213.72 |
| [ajax.googleapis.com](http://ajax.googleapis.com) | 142.250.192.10 |
| [a1988.dscg1.akamai.net](http://a1988.dscg1.akamai.net) | 180.149.59.145 |
| [a1988.dscg1.akamai.net](http://a1988.dscg1.akamai.net) | 180.149.59.147 |
| [a1988.dscg1.akamai.net](http://a1988.dscg1.akamai.net) | 180.149.59.145 |
| [a1988.dscg1.akamai.net](http://a1988.dscg1.akamai.net) | 180.149.59.147 |
| [part-0044.t-0009.t-msedge.net](http://part-0044.t-0009.t-msedge.net) | 13.107.213.72 |
| [part-0044.t-0009.t-msedge.net](http://part-0044.t-0009.t-msedge.net) | 13.107.246.72 |
| [e4350.g.akamaiedge.net](http://e4350.g.akamaiedge.net) | 23.205.218.112 |
| [e4350.g.akamaiedge.net](http://e4350.g.akamaiedge.net) | 23.205.218.112 |
| [connectivity-check.ubuntu.com](http://connectivity-check.ubuntu.com) | 91.189.91.48 |
| [connectivity-check.ubuntu.com](http://connectivity-check.ubuntu.com) | 185.125.190.17 |
| [connectivity-check.ubuntu.com](http://connectivity-check.ubuntu.com) | 185.125.190.48 |
| [connectivity-check.ubuntu.com](http://connectivity-check.ubuntu.com) | 35.232.111.17 |
| [connectivity-check.ubuntu.com](http://connectivity-check.ubuntu.com) | 185.125.190.49 |
| [connectivity-check.ubuntu.com](http://connectivity-check.ubuntu.com) | 185.125.190.18 |
| [connectivity-check.ubuntu.com](http://connectivity-check.ubuntu.com) | 91.189.91.49 |
| [connectivity-check.ubuntu.com](http://connectivity-check.ubuntu.com) | 35.224.170.84 |
| [connectivity-check.ubuntu.com](http://connectivity-check.ubuntu.com) | 34.122.121.32 |
| [telemetry-incoming.r53-2.services.mozilla.com](http://telemetry-incoming.r53-2.services.mozilla.com) | 34.120.208.123 |

* 1. Yes, by looking at the ip address of the DNS request in the source.

1. 1. 3 HTTP GET requests were observed.

No. Time Source Destination Protocol Length Info

544 24.928215856 10.105.56.28 172.16.3.10 HTTP 455 GET / HTTP/1.1

1490 25.921986890 10.105.56.28 172.16.3.10 HTTP 486 GET / HTTP/1.1

10397 26.708439255 10.105.56.28 172.16.3.10 HTTP 430 GET /assets/images/about-iitk-video.jpg HTTP/1.1

| No. | No. of TCP Segments received | Amount of data  (in Bytes) |
| --- | --- | --- |
| 544 | 300 | 432354 |
| 1490 | No response available | |
| 10397 | 14 | 19354 |