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Computer Networks Lab 1

Questions:

1. What are the different protocols you observe at the following layers of the protocol stack?
2. Application Layer: **TLS, DNS, HTTP, SMTP, NFS**
3. Transport Layer: **TCP, UDP, SCTP, DCCP, ATP**
4. Network Layer: **ARP, ICMP, IPV6**
5. What is the total amount of data being received for the following two cases?
6. **1386548 Bytes using the http.host filter and 7384102 using the ip.src display filter**
7. **1713 Bytes**
8. How many DNS packets have you observed in total?

462 packets by display filtering `dns`

|  |  |
| --- | --- |
| **Domain name** | **Ip address** |
| Iitkgp.ac.in | 91.230.41.238 |
| Beacons.gvt2.com | 128.122.0.71 |
| Docs.google.com | 91.230.41.238 |
| [abs-0.twimg.com](http://www.cornell.edu) | 128.122.0.71 |
| www.google.com | 91.230.41.238 |

1. Yes.
2. How many HTTP GET requests do you observe? List down the GET requests.
3. GET request. The request is `GET / HTTP/1.1`

For each of the HTTP GET requests as you see above, find out:

the total number of TCP segments being received:

**The total number of TCP segments is 8.**

the total amount of data being received in the corresponding HTTP Response message.

**The total amount of data is 427 Bytes**