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Assignment 1 Submission

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Link of the pcap file: <https://drive.google.com/file/d/1dcn4t-W3oh7_dIAt1mcG-u2uNLwMTky7/view?usp=sharing>

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1. Observed Protocols:

1. Application layer: **DNS,HTTP**
2. Transport layer: **TCP,UDP**
3. Network layer: **IP,ICMP,IGMP,ARP,SSDP,DHCP**

2.

IITKGP:

Data transferred from IP:203.110.245.244(iitkgp) to IP:192.168.0.100(my laptop): 1808584 Bytes

Data transferred from IP:192.168.0.100(my laptop) to IP:203.110.245.244(iitkgp) : 38453 Bytes

Total: 1847037 Bytes

Cornell:

Data transferred from IP:20.42.25.107(Cornell) to IP:192.168.0.100(my laptop): 3027648 Bytes

Data transferred from IP:192.168.0.100(my laptop) to IP:20.42.25.107(Cornell) : 127108 Bytes

Total: 3154756 Bytes

3.

1. Total Number of DNS:163

|  |  |  |
| --- | --- | --- |
| No. | Domain Name | IP |
| 1 | iitkgp.ac.in | 203.110.245.244 |
| 2 | cornell.edu | 20.42.25.107 |
| 3 | www.sric.iitkgp.ac.in | 203.110.245.243 |
| 4 | som.iitkgp.ac.in | 203.110.240.154 |
| 5 | jeeadv.ac.in | 35.192.176.149 |
| 6 | siteimproveanalytics.com | 172.64.196.24 |
| 7 | account.google.com | 216.58.199.173 |
| 8 | www.googleapis.com | 172.217.116.170 |
| 9 | ws.mailtrack.io | 108.128.74.148 |
| 10 | erp.iitkgp.ac.in | 203.110.245.59 |
| 11 | alumni.iitkgp.ac.in | 203.110.242.132 |
| 12 | gate.iitkgp.ac.in | 203.110.245.11 |
| .. | .. | .. |

B. The IP of the DNS server is: 192.168.0.1

4.

1. Number of HTTP GET Requets: 22

Get Requests list: <https://docs.google.com/spreadsheets/d/1rpTr2x_UuD-_PbWETZugUpo9lAyyubviEjXHR7ZmKGg/edit?usp=sharing>

1. For each Get requests, total number of tcp packets and total amount of data being received:

<https://docs.google.com/spreadsheets/d/1CGDbDUOYmuFAkZCqcxmLnJs7NNreqCkP9iN18a-3mVk/edit?usp=sharing>