**ASSIGNMENT 1 – WEB SERVER AND CLIENT (TCP, UDP PROTOCOLS)**

**1. Server hosted on silo and client on the laptop**

**Time for n number of 1mb files**

**Persistent Connection (Multiple iterations)**

* **Time for 1 1MB file: Total Time taken is 400000-500000**
* **Time for 2 1MB file: Total Time taken is 120000-140000**
* **Time for 10 1MB file: Total Time taken is 4000000-5000000**

**The time taken to serve multiple requests grew linearly. But there was also cases where 5 packets took less time than 4 packets. I think it depends on the load on the server.**

**2. Server and Client on laptop**

**1. Persistent Connection**

**It takes relatively faster to transmit within a system than from server and remote client.**

**3. Server hosted on silo and client on the laptop**

**Nonpersistent Connection (Multiple iterations)**

* **Time for 1 1MB file: Total Time taken is 10203**
* **Time for 2nd 1MB file: Total Time taken is 12346**
* **Time for 3rd 1MB file: Total Time taken is 11786**

**4. Server and Client on laptop**

**Nonpersistent Connection**

**It took much lesser time than all the cases above.**

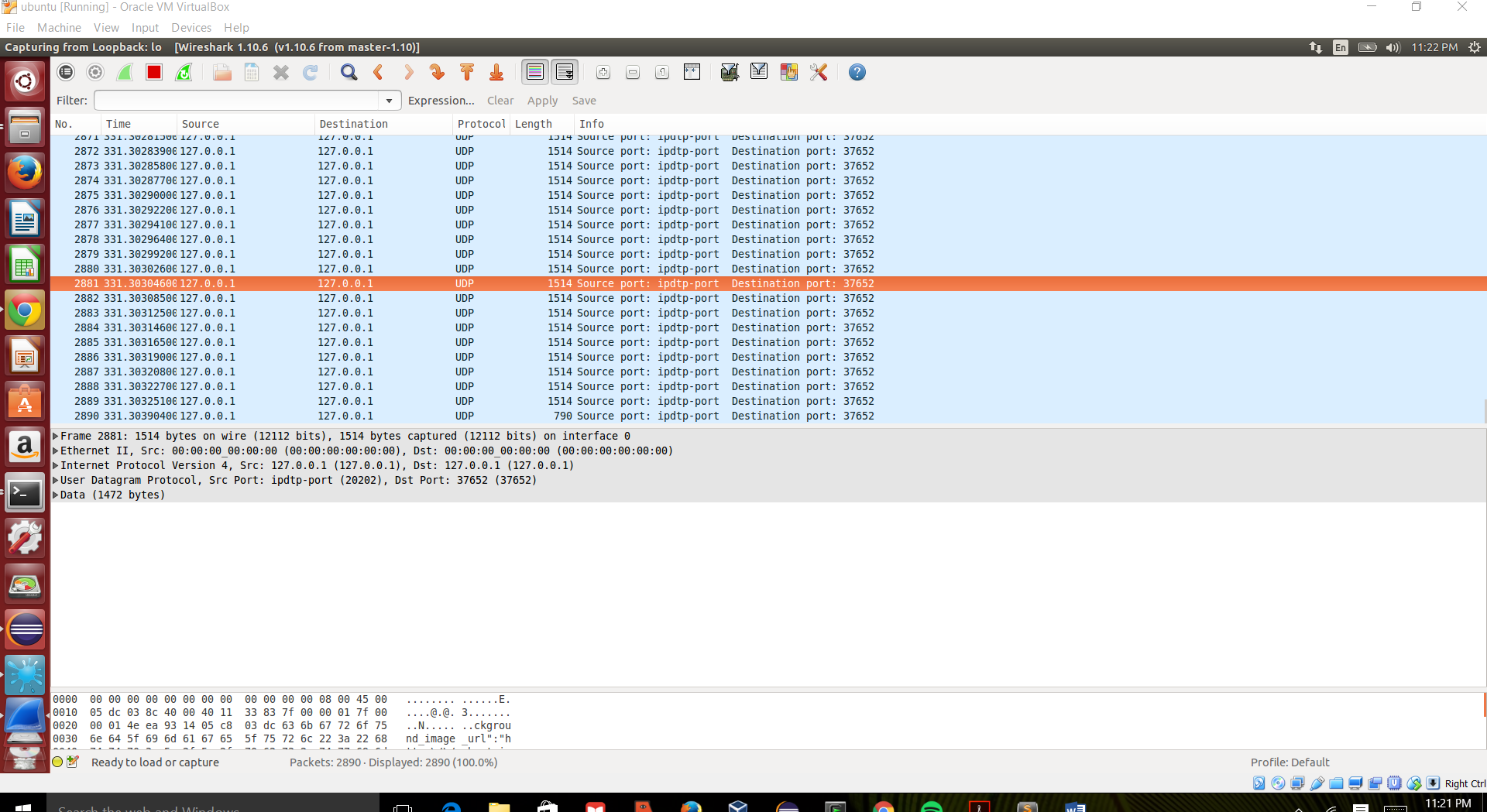
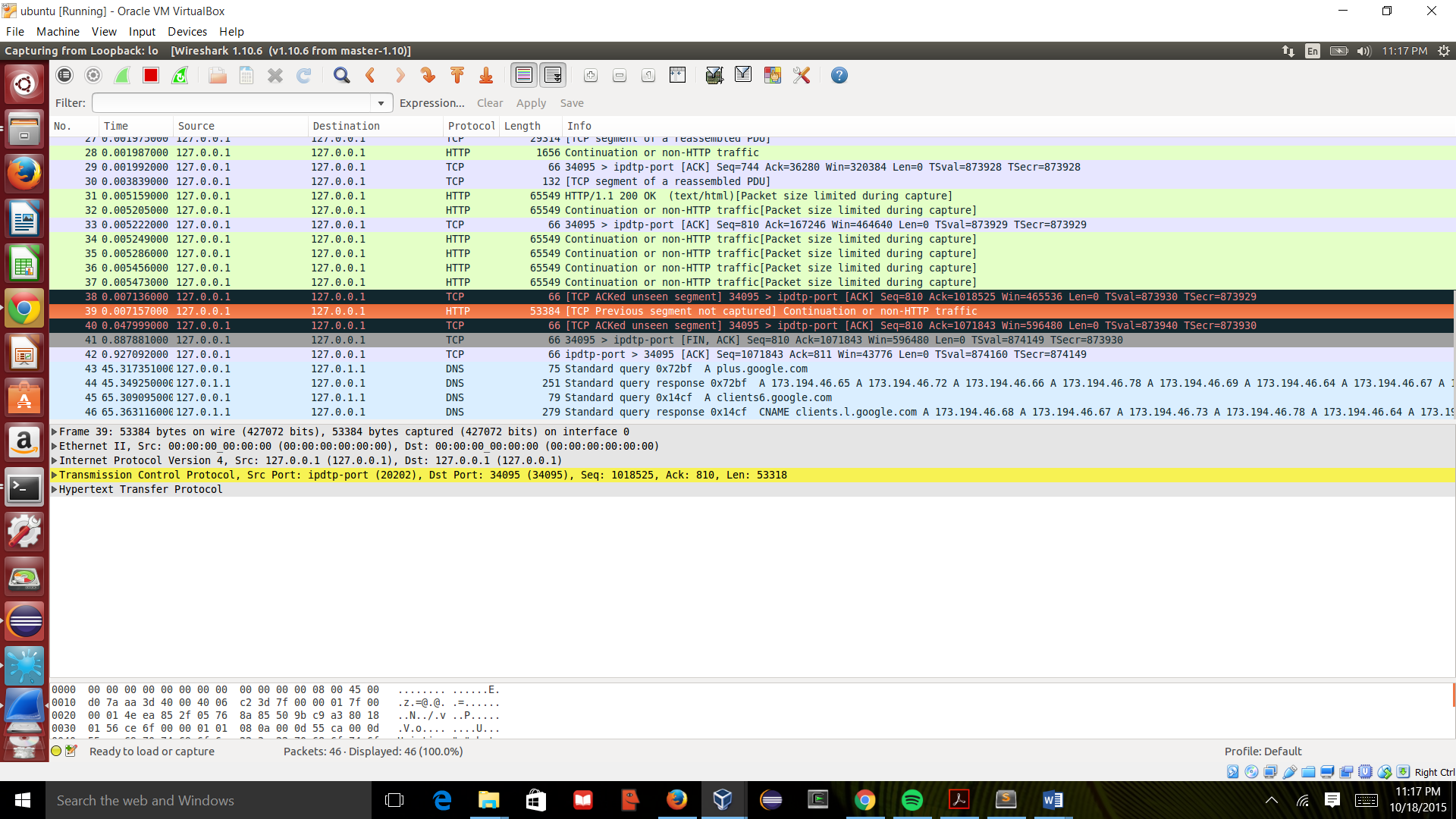
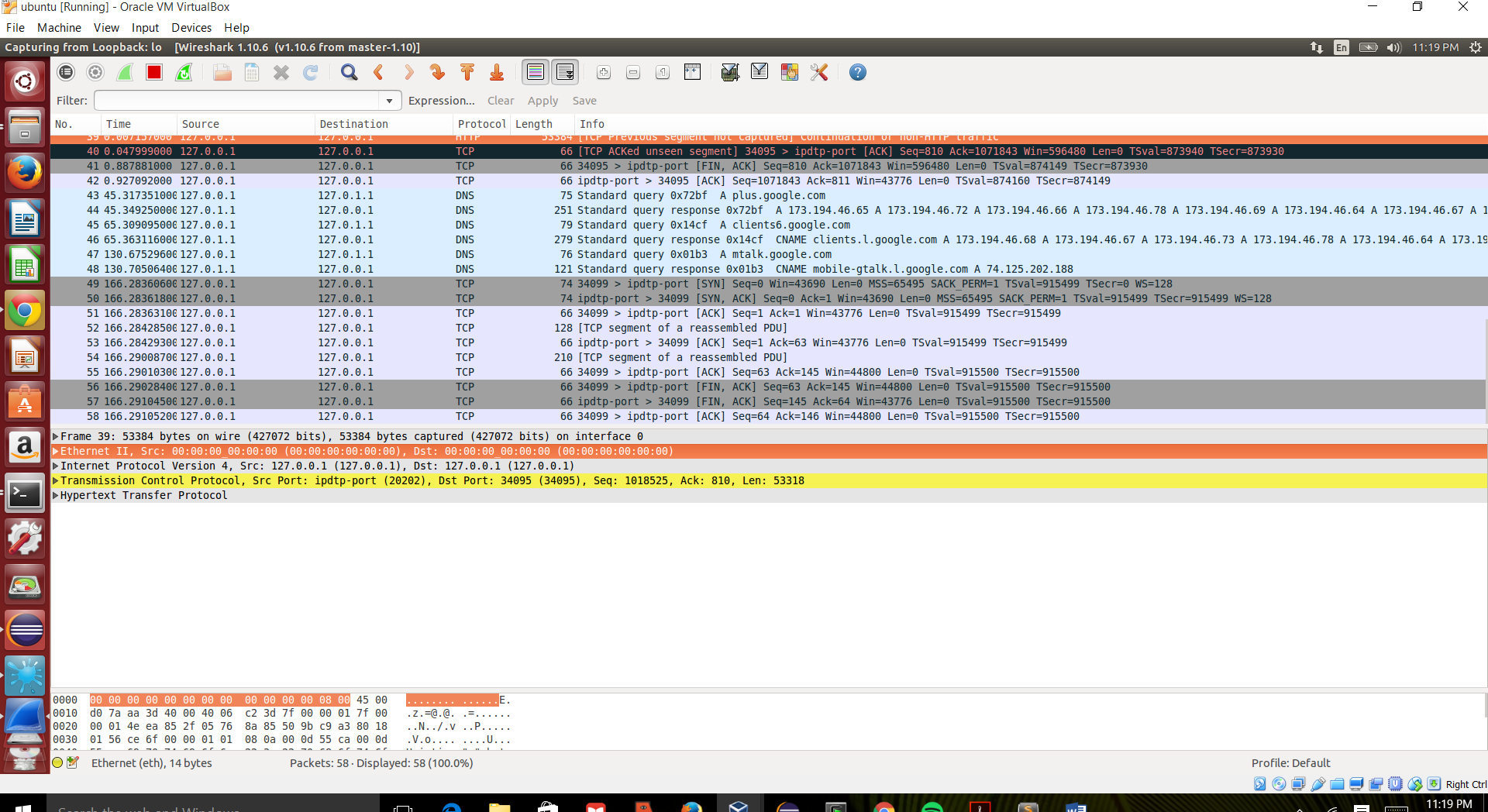
**5. UDP - Server on silo and Client on laptop.**

**Packet loss occurs,may be because of the path it takes and due to congestion on server.**

**6. UDP - Server on silo and Client on laptop**

**Did not loose any packets. Time as almost the same as taken by TCP on localhost.**

**Have attached wireshark screenshots below**

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