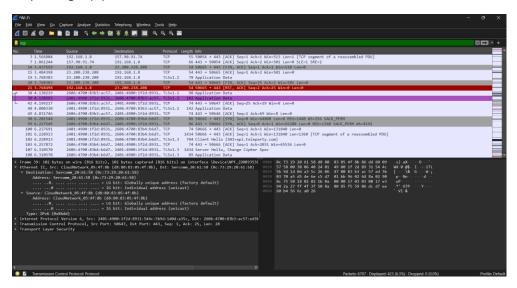
Development Tools Assignment

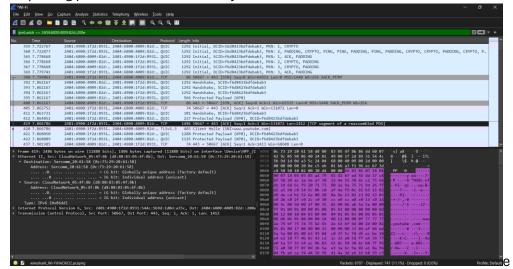
- i. Module 2 Network Performance Measurement Tools
- 1) Install Wireshark, take capture on WiFi interface
- 1. Identify the beacon frame using filter.

Since my wireless adapter does not go into monitor mode, I wasn't able to capture the beacon frames. The filter for capturing is "wlan.fc.type_subtype == 0x08"

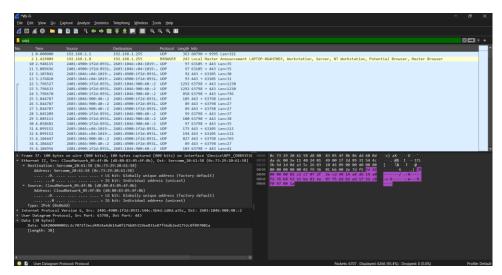
- 2. Apply filters to view specific packet.
 - i. Capturing tcp packets



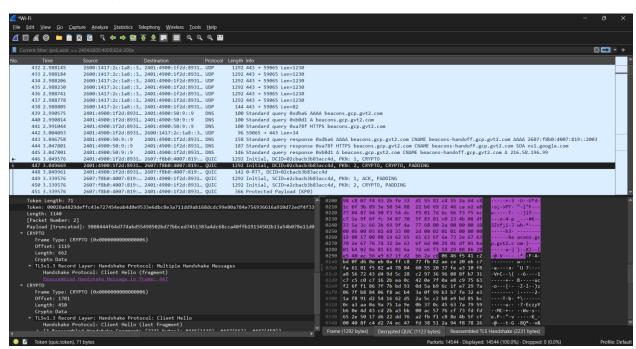
ii. Capturing packets associated with youtube.com



iii. Capturing UDP packtes



- 3. Decrypt the wireshark pcap using passphrase, to view the encrytped packets.
 - i. Click edit and go to preferences and there in protocols find IEEE 802.11
 - ii. In the decryption keys section click edit and a new decryption key
 - iii. The decryption key would be of the format 'wpa-pwd:password:SSID'



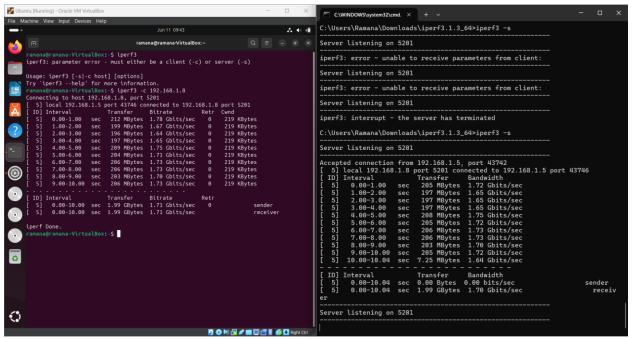
5. Point out ethernet and 802.11 frames.

Since monitor mode could not be enabled every frame which was captured was considered as an ethernet frame by wireshark.

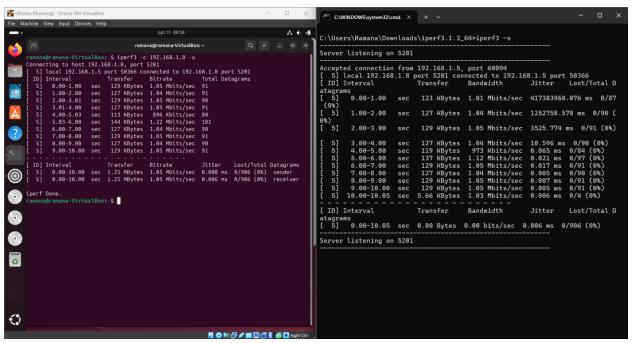
2) Install Iperf on client and server device

A link was set up between windows host machine and linux virtual machine

1. Run TCP traffic



2. Run UDP traffic



Check for the bandwidth and drops reported in the results.