#### Development Tools Assignment

#### Module 2 – Network Performance Measurement Tools

- 1) Install Wireshark, take capture on WiFi interface
- 1. Identify the beacon frame using filter.
- 2. Apply filters to view specific packet.
- 3. Decrypt the wireshark pcap using passphrase, to view the encrytped packets.
- 4. Point out ethernet and 802.11 frames.

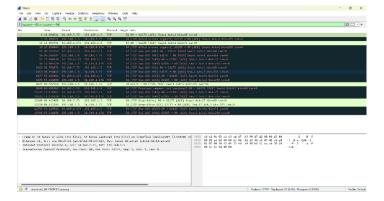
#### Solution:

Step 2: Apply filters to view specific packet

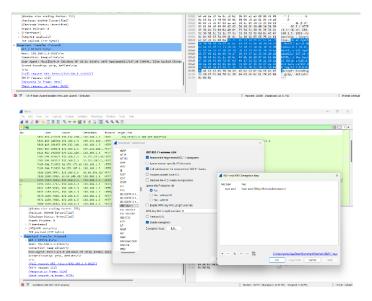
http:

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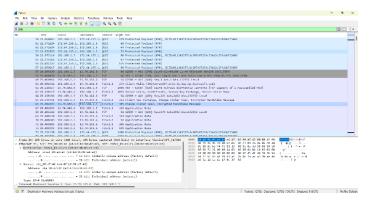
tcp with specific port numbers:



Step 3: Decrypt the wireshark pcap using passphrase, to view the encrytped packets



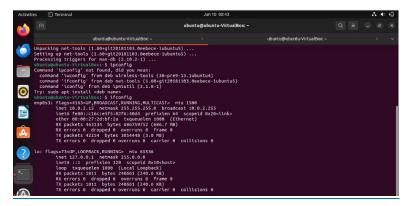
Step 4: Point out ethernet and 802.11 frames



- 2) Install Iperf on client and server device
- 1. Run TCP traffic

### Solution:

Installing the necessary net-tools and determining the IP of the PC



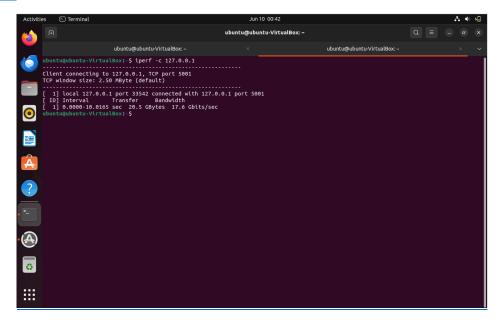
## Server side:

```
ubuntu@ubuntu.VirtualBox: $ iperf -s

Server listening on TCP port 5001
TCP window size: 128 KByte (default)

[ 1] local 127.0.0.1 port 5001 connected with 127.0.0.1 port 33542
[ 10] Interval Transfer Bandwidth
[ 1] 0.0000-10.0032 sec 20.5 GBytes 17.6 Cblts/sec
```

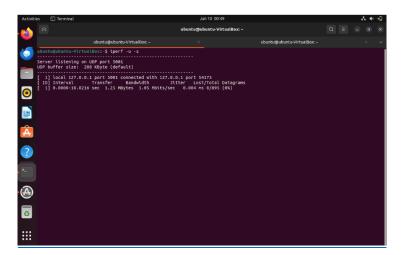
### Client Side:



### 2. Run UDP traffic

Check for the bandwidth and drops reported in the results.

## Server side:



# Client Side:

