# CSE3501 - Information Security Analysis and Audit

## Embedded Lab ELA

FALL SEMESTER - 2020-2021

Theory: G1+TG1 SLOT Lab: L33+L34

Digital assignment

Assessment: 4

Submitted By

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B.Tech. (C.S.E) - III Year



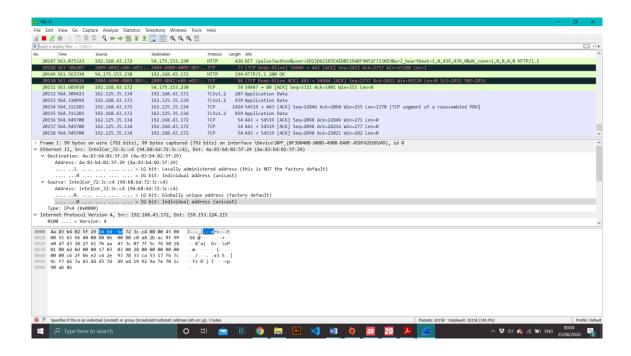
### VELLORE INSTITUTE OF TECHNOLOGY VELLORE - 632 014

### TAMIL NADU, INDIA

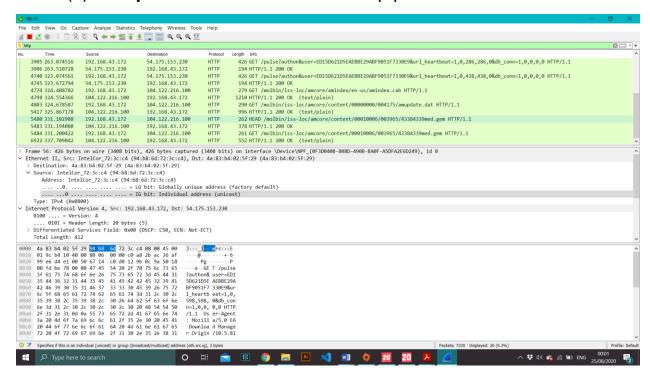
## Wireshark - HTTP analysis

## **Procedure:**

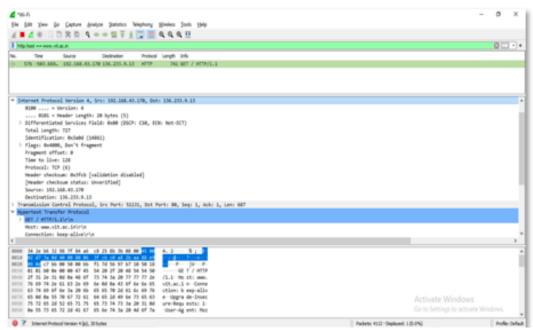
- 1. Open wireshark
- 2. Run it as an administrator.
- Select the interface as WiFi
- 4. Start to capture the packets by clicking the "capture" option.
- 5. Open the browser and enter a url. Eg: www.vit.ac.i n
- 6. Then, you will be able to see packet flow in the wireshark app.



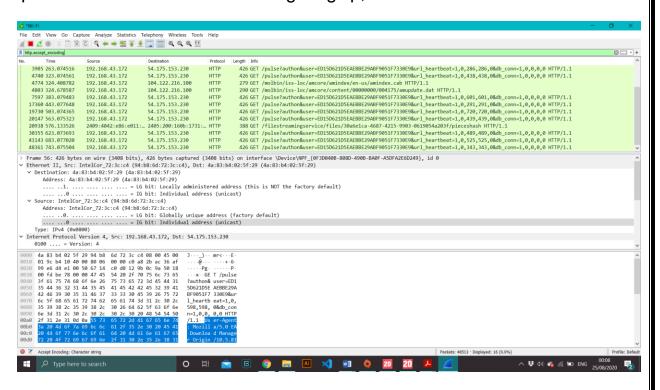
- 7. The packets can be filtered and analysed by entering some queries in the filter text box.
- 8. Some of the important queries to analyze the packets include:
  - (a) http This will return all the http packets.

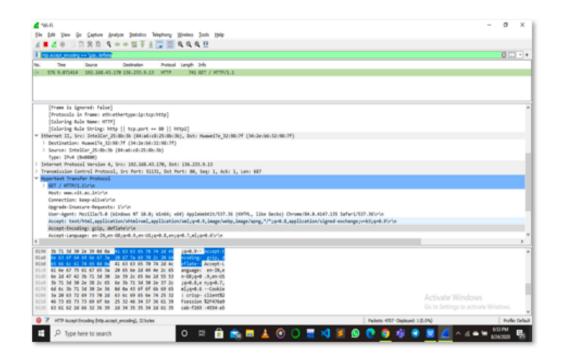


(b) **http.host** == <u>w ww.vit.ac.in</u> - This will return the http packets directed to www.vit.ac.in

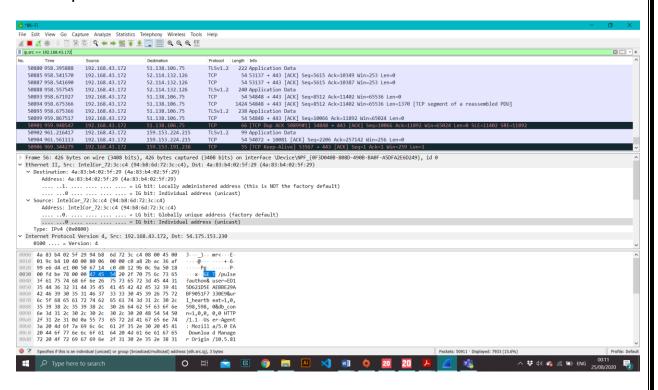


(c) http.accept\_encoding == "gzip, deflate" - This will return all
the packets which have the encoding as gzip, deflate.

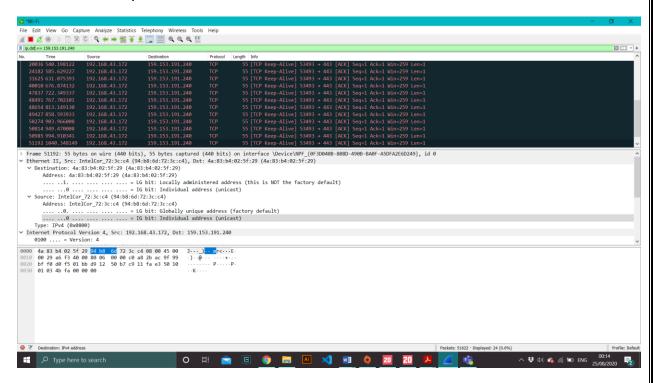




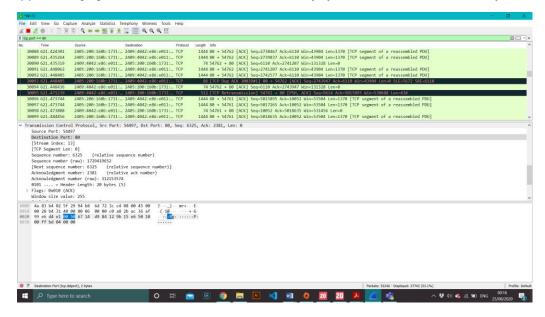
(d) **ip.src == 192.168.43.172** - Returns all the packets having source ip address as 192.168.43.172



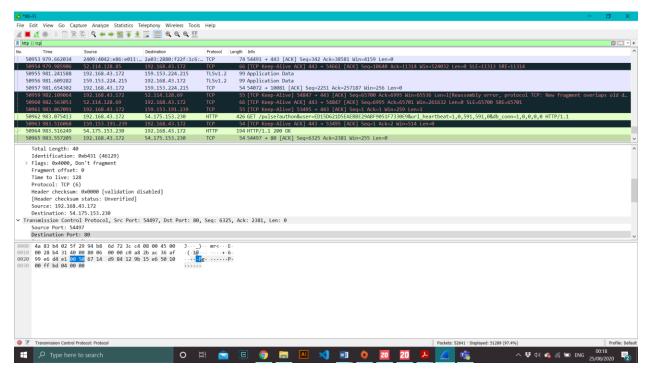
(e) **ip.dst** == **159.153.191.240** - Returns all the packets that have their destination ip address as 159.159.191.240



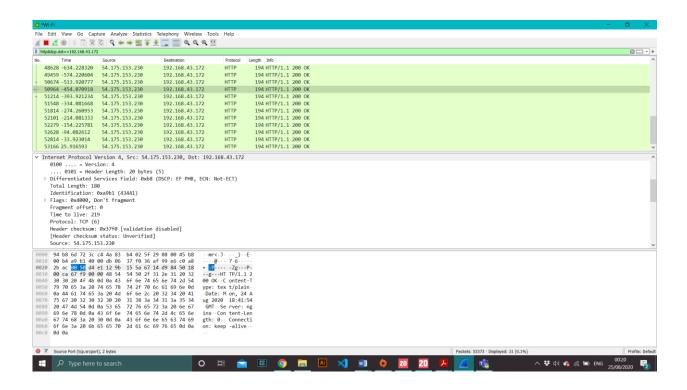
(f) **tcp.port** == **80** - Returns all tcp packets which have port as 80.

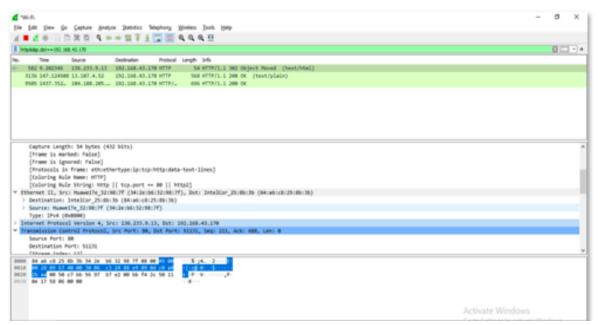


(g) http || tcp - Returns all tcp or http packets.

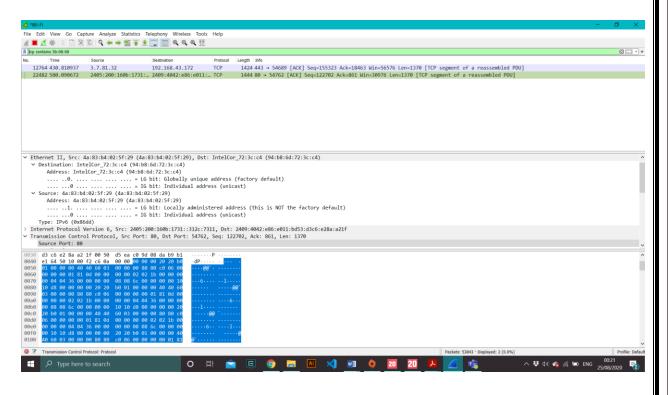


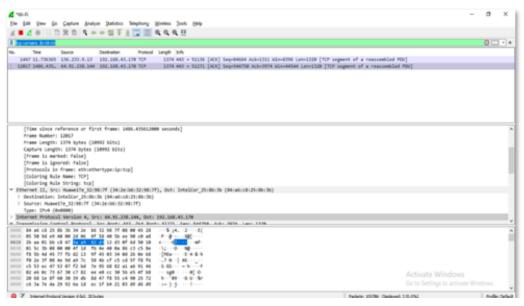
(h) http&&ip.dst==192.168.43.170 - Returns all http packets having destination ip address as 192.168.43.170





(i) tcp contains 3b:08:00 - Returns all tcp packets containing 3b:08:00 in the header





(j) http || tcp contains e2:8a:a2 - Returns http packets or tcp packets containing e2:8a:a2 in the header.

