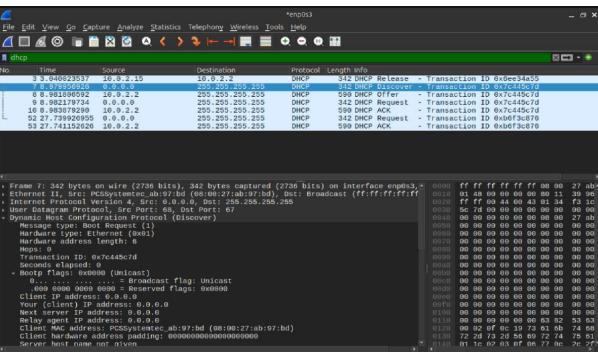
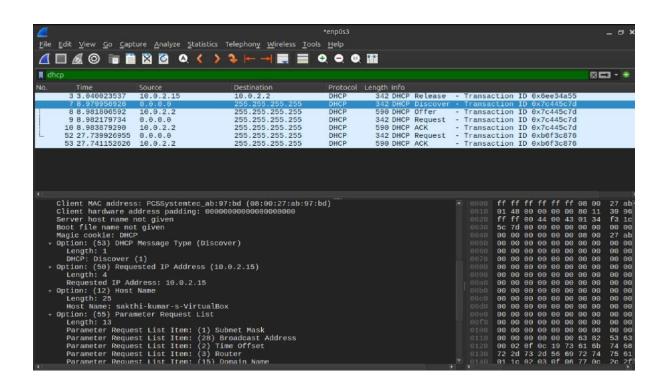
### LINUX NETWORKING MODULE 5 ASSESSMENT SOLUTION

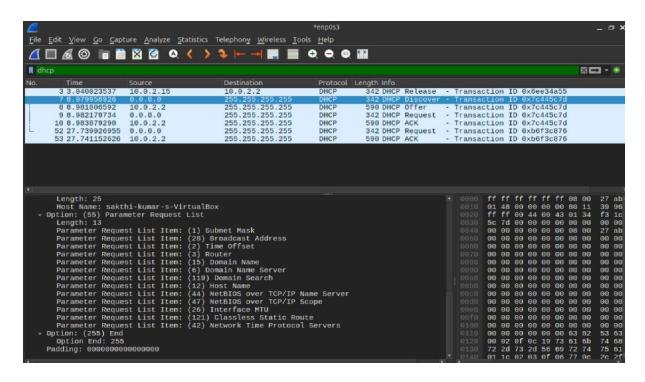
-BY SAKTHI KUMAR S

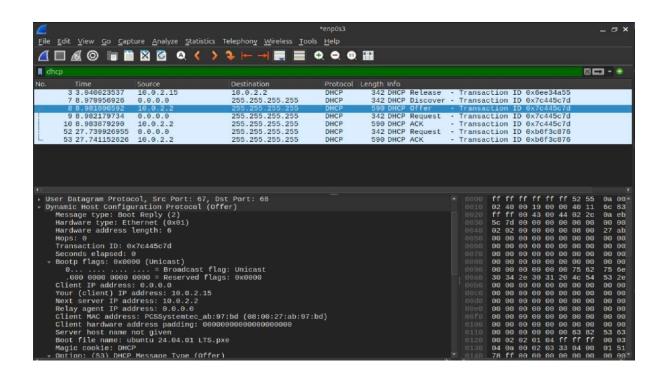
4) Use Wireshark to capture DHCP Discover, Offer, Request, and Acknowledge messages and explain the process.

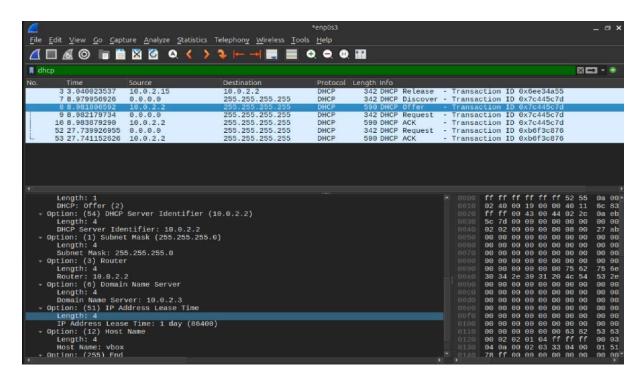


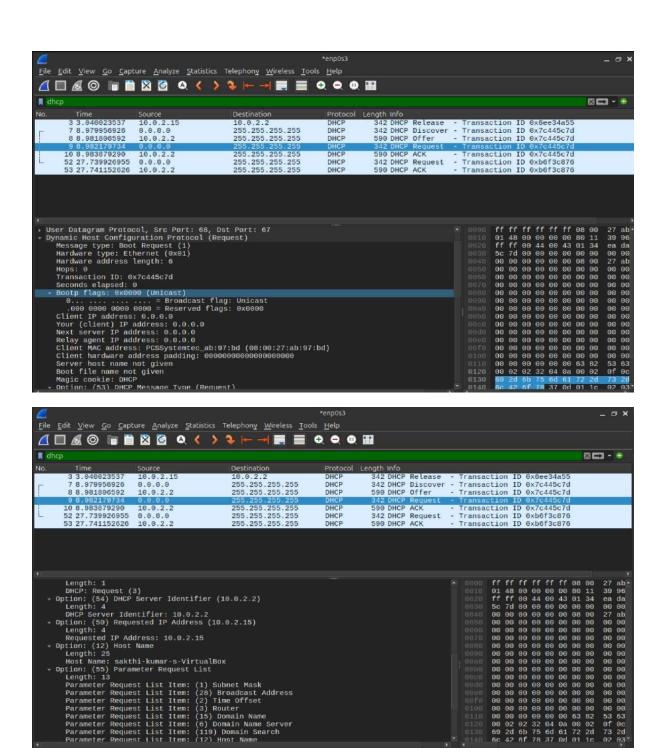


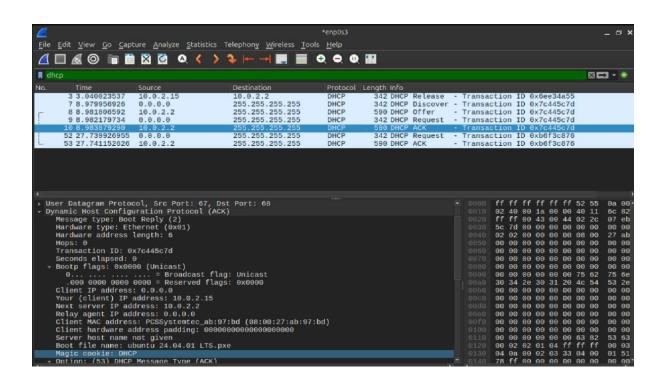


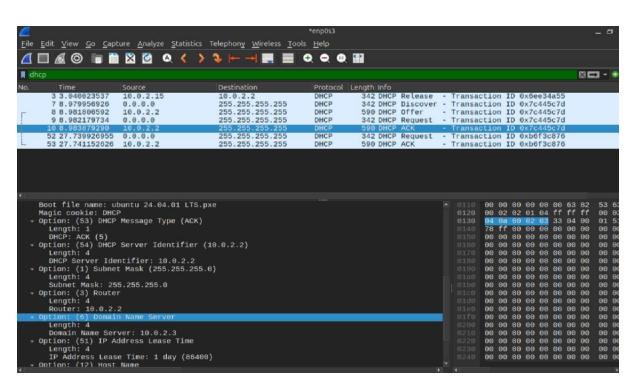


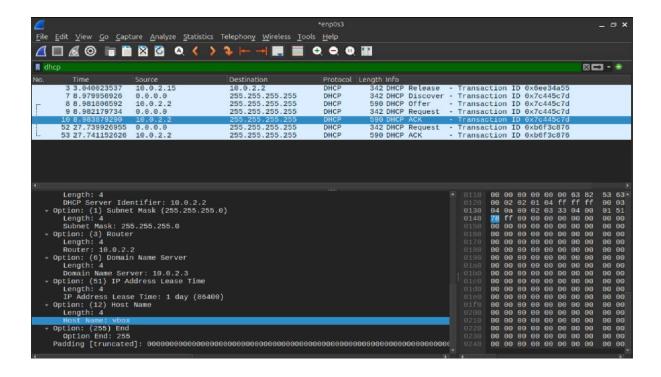












### **DHCP Handshake – DORA Process:**

#### • DHCP Discover:

- o **Action:** Client broadcasts a discover message to find available DHCP servers.
- o Indicates that the client is looking for an IP address lease.

### • DHCP Offer:

- o **Action:** DHCP server responds with an offer that includes an available IP address and other network configuration details.
- o Proposes network settings to the client.

# DHCP Request:

- Action: Client sends a request message, indicating acceptance of one of the offered configurations.
- o Formally requests the offered IP address.

## DHCP Acknowledge:

- o Action: DHCP server confirms the lease with an acknowledgment message.
- Finalizes the IP address assignment and provides the client with its network parameters.