L2 MAC Flooding & ARP Spoofing

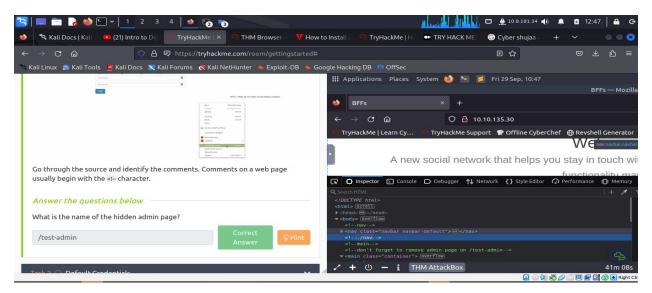
Introduction

This sub task introduces the learner to the practical knowledge in using MAC Flooding to sniff traffic and ARP Cache Poisoning to manipulate network traffic as a MITM (Man in The Middle).

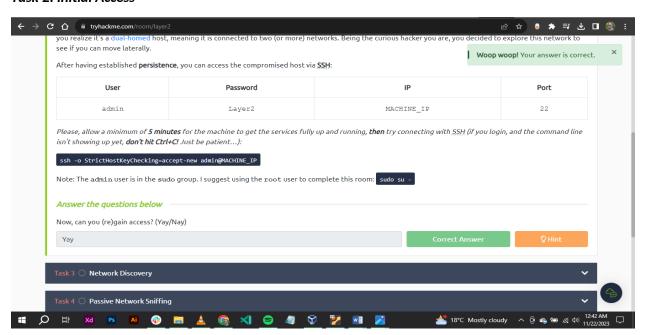
Activities

Task 1: Getting Started

This section outlines objectives such as the social media site to be attacked using a virtual machine, the location of the site.

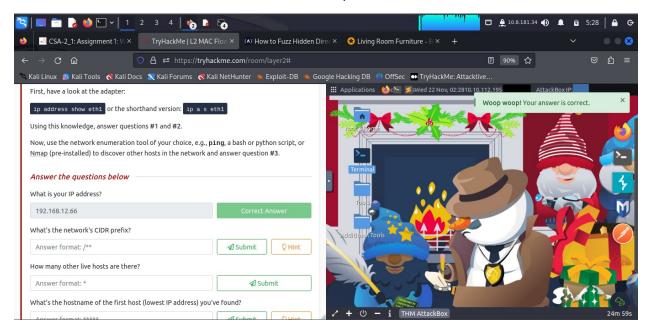


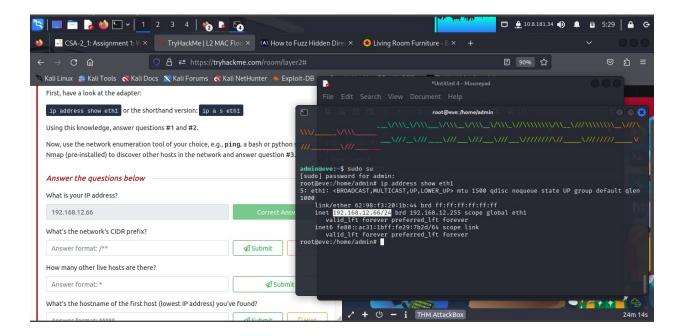
Task 2: Initial Access

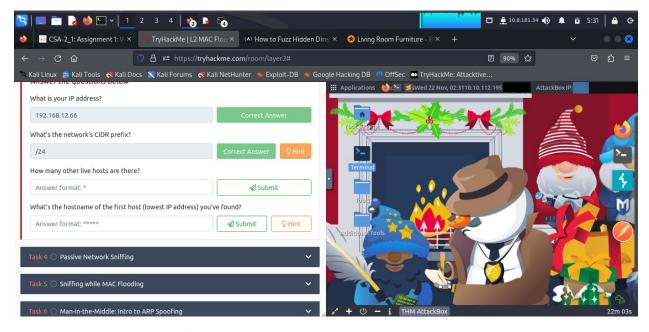


Task 3: Network Discovery

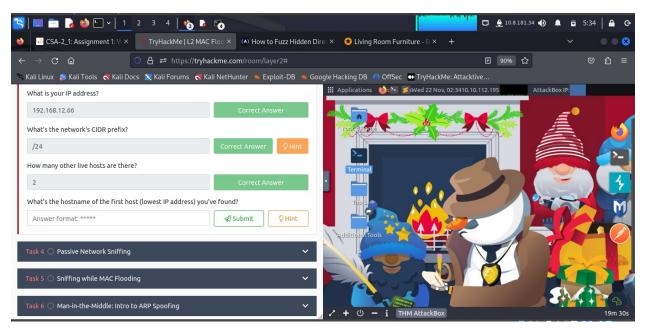
The network of interest is connected with Ethernet adapter eth1.



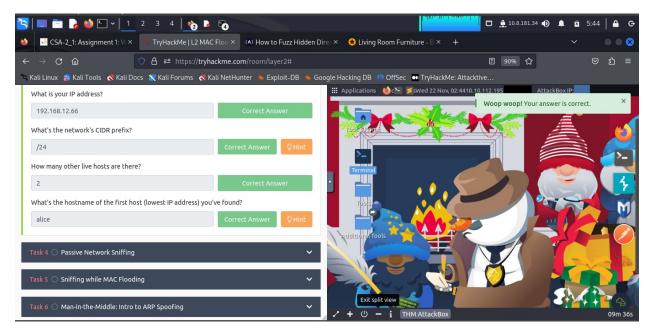




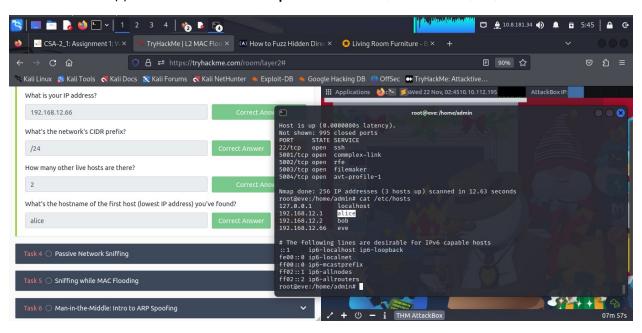
The network's CIDR prefix is /24



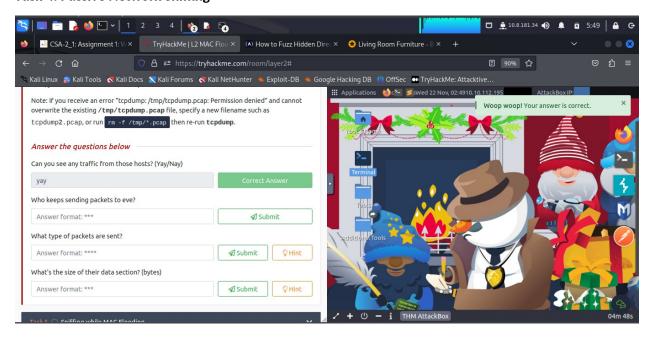
There are other 2 live hosts.

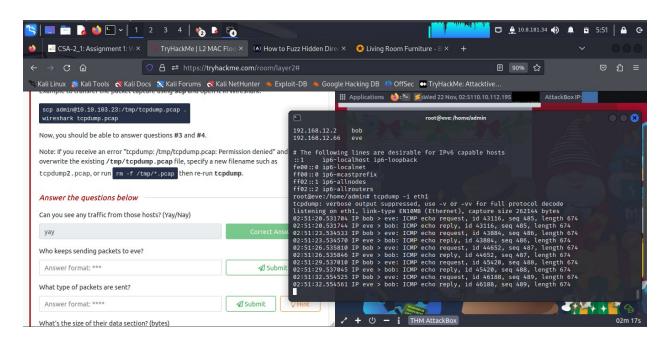


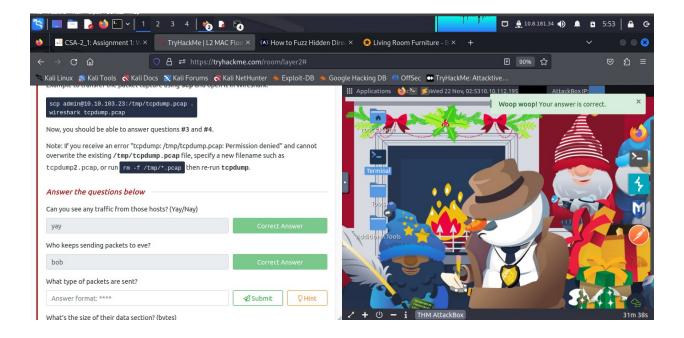
To find hostname(s) the learner first run nmap -n 192.168.12.0/24. Then cat /etc/hosts



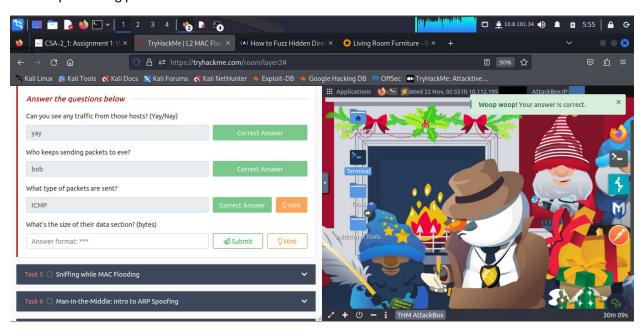
Task 4: Passive Network Sniffing



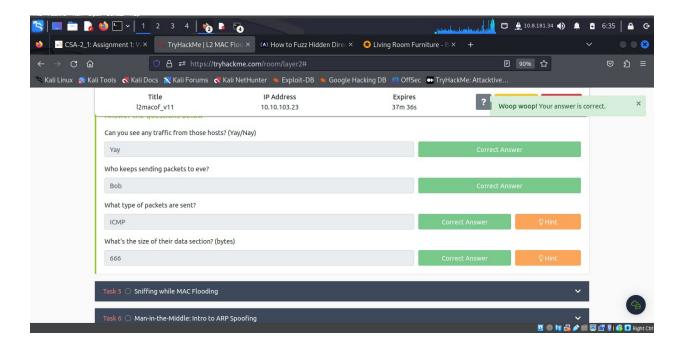




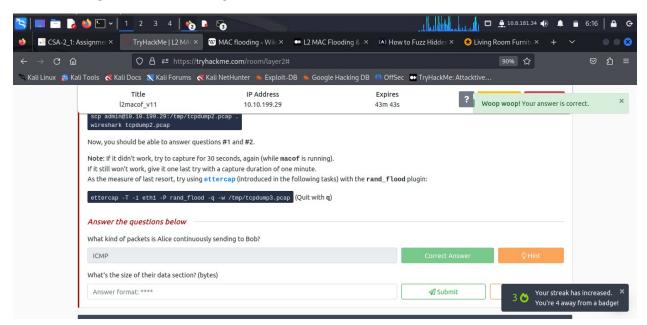
Bob keeps sending packets to eve.

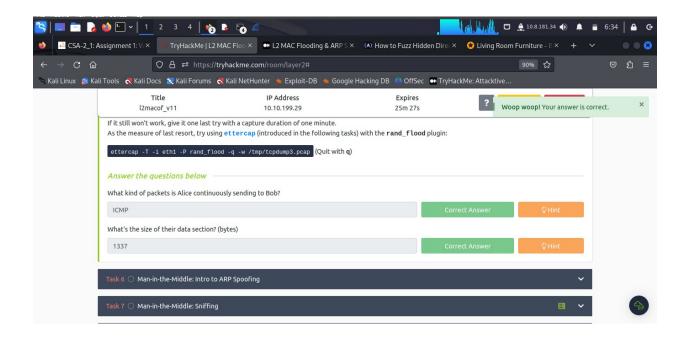


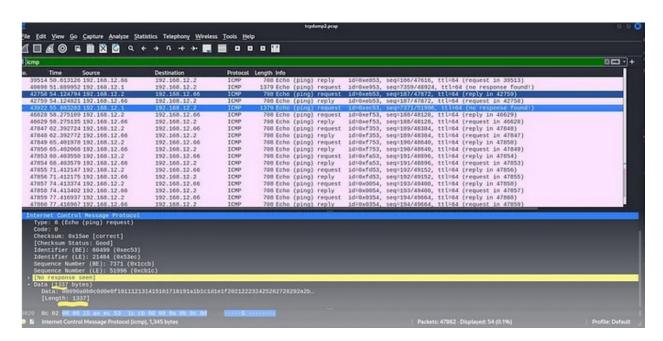
The type of packets being sent are ICMP



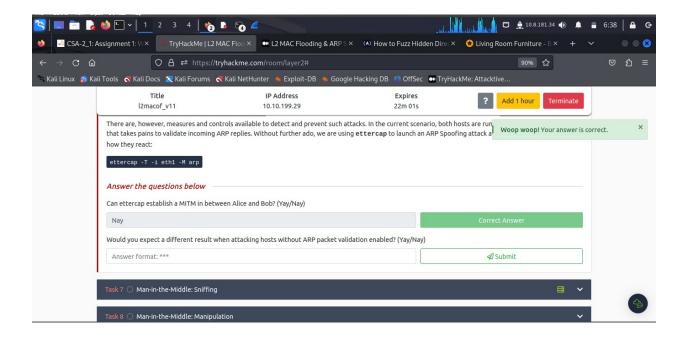
Task 5: Sniffing while MAC Flooding

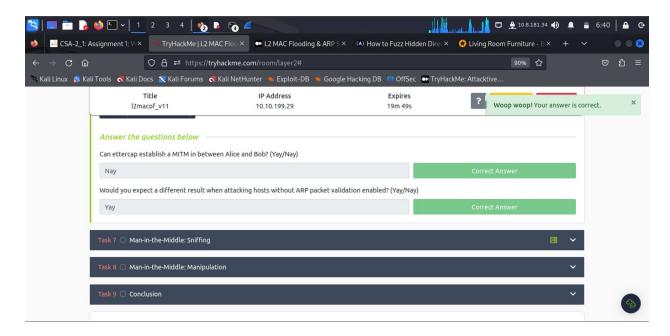




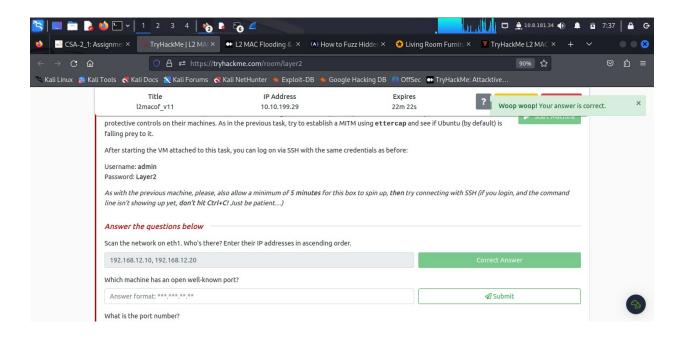


Task 6: Man-in-the-Middle: Intro to ARP Spoofing

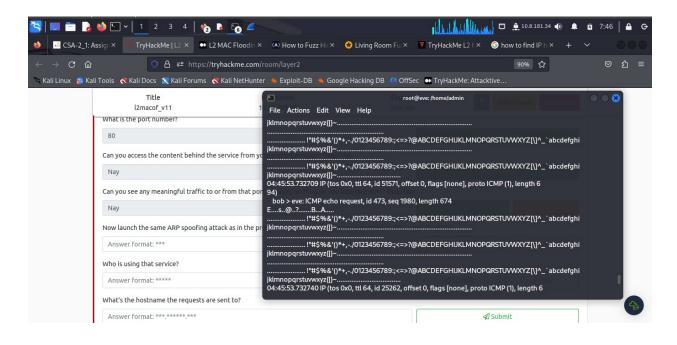


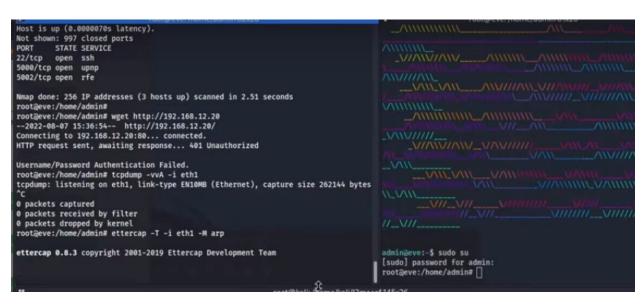


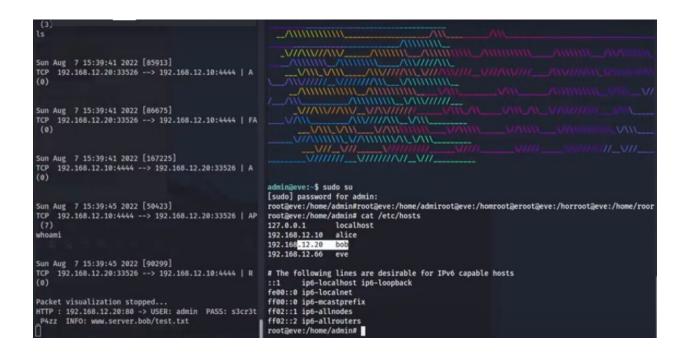
Task 7: Man-in-the-Middle: Sniffing

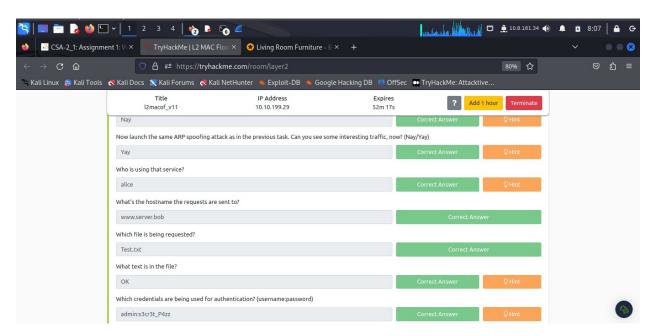


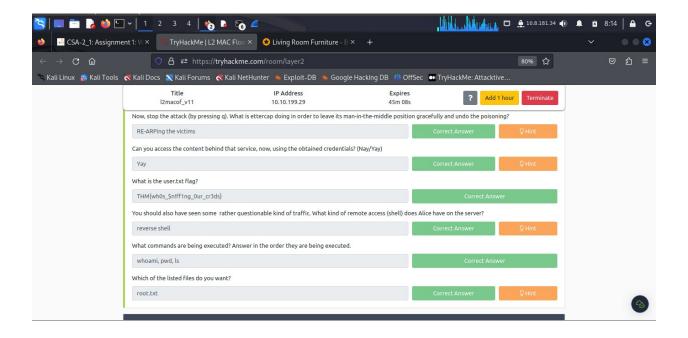




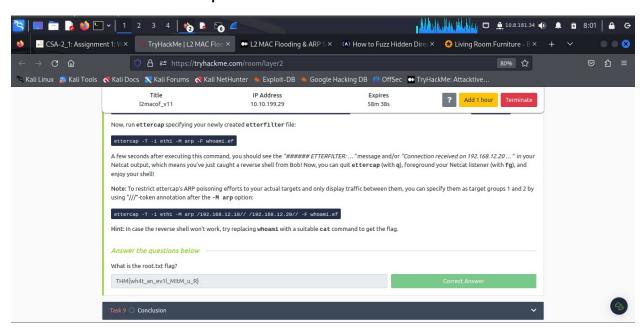


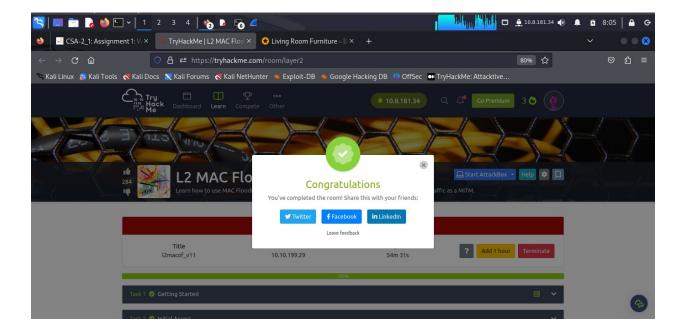






Task 8: Man-in-the-Middle: Manipulation





Conclusion

The learner navigated this room although a times facing difficulty in hostname location and the session provided a new perspective for network pentesting and gave a new *layer* of attacks for a *toolbelt*.

Completion Link: https://tryhackme.com/room/layer2