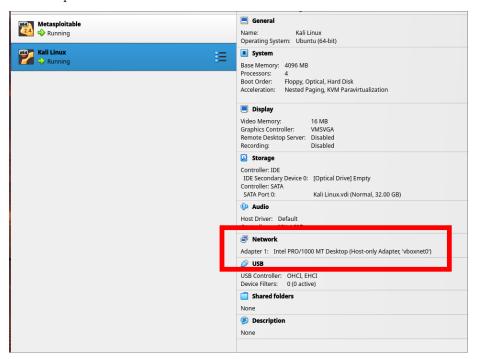
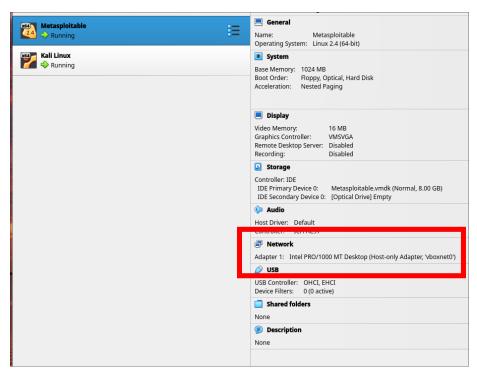
Ethical Hacking Assignment 3 - Aidan Sharpe

Task 1 - Network Configuration Between Kali and Metasploitable

Ensure proper network connectivity between the attacker (Kali Linux) and victim (Metasploitable) virtual machines.

1. Configure both Kali Linux and Metasploitable VMs to use host-only adapters





2. Verify the network connectivity by pinging Metasploitable from Kali Linux

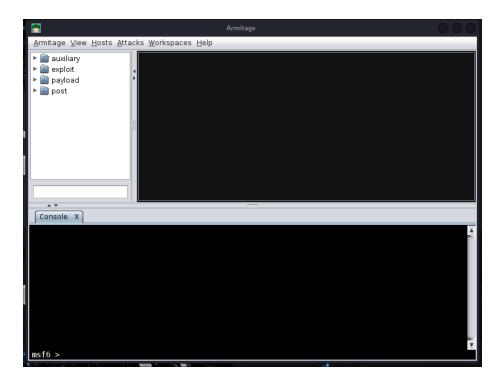
Task 2 - Nmap Scan for Open Ports and Vulnerabilities

Use nmap to perform a vulnerability scan of the metasploitable machine.

```
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 25.17 seconds
```

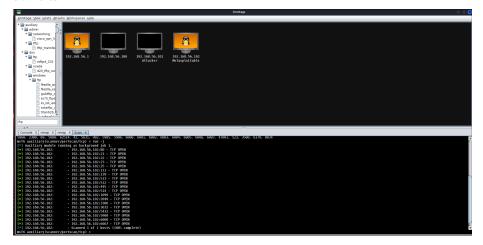
Task 3 - Installing and Launching Armitage

Install Armitage and set it up to connect with the Metasploit framework.



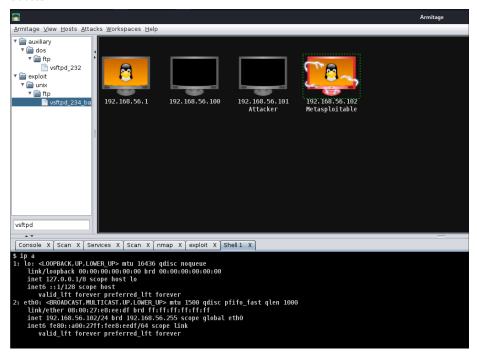
Task 4 - Perform a Vulnerability Scan with Armitage

Use Armitage to scan the Metasploitable machine and identify potential vulnerabilities.



Task 5 - Exploiting a Vulnerability Using Armitage

Use Armitage to exploit a vulnerability on the Metasploitable machine and gain access.



Reflection

The nmap tool is suprisingly easy, yet very powerful. After using it on this assignment, I used it to learn about vulnerabilities on my home server. I found that I had ports 80, 443, and 22 open. I did not realize that I had left it open, and I couldn't remembery why I had it open in the first place. I then used a remote network configuration tool to close port 80. After running nmap again, I saw that I had successfully closed the port.

I really enjoyed using Armitage as an easy introduction to the Metasploit Framework. At this point, I really only plan to use it as a learning tool to get used to deploying attacks and scanning networks. Today, for example, I learned about scanning IP ranges. My next step is to switch to the metasploit CLI.