My Home-Lab

Virtual Machine Image

In the image below, I have two virtual machines running. In the top right is my Windows (host) machine, which will act as the user. Below the host machine, I have my Kali Linux (attacker) VM which will act as the threat actor trying to attack the host.

On the left handside of the image, I have my VirtualBox Manager open where I have so far created four VMs, two VMs serve as traditional machines where I can look at tools and grow my knowledge. The WindowsMalware & KaliLinuxMalware machines are set up for malware analysis and experiementation. Having multiple machines for different uses will allow a less risk of losing any valuable data if the virus were to damage the virtual machine.

Network Configuration

During this process I make sure to download any applications I need using a NAT network protocol. Once applications are downloaded, I switch the Internal network protocol, this will allow the malware to not affect any other devices and be contained within the network. For the malware analysis project I make sure to place both VM IP Addresses on the same network, allowing them to communicate. From there I create my malware and analyze it (More details in Malware Analysis Repository)