

# Assignment 1

## Description

We have discussed keyloggers, viruses, and other security vulnerabilities within a system. How do hackers do it? For this assignment you will experiment with some different ideas.

## Keyloggers (Win)

Install a keylogger on your own machine (utilization of your virtual machine is highly suggested). Demonstrate what it does (screenshot). How could a hacker use this? Do some research to see if there is any way to detect a keylogger and prevent it.

## Firewall (Win)

Install a firewall on that same machine as above. Does it detect the keylogger? (Screenshot to show that you installed a firewall). Demonstrate that it can actually block something.

## Malware Detection (Win)

Download and run malwarebytes to see what it can pick up on the same machine on which you have your keylogger. (Screenshot)

## Rootkits (Linux VM)

Follow the instructions found [here](#)