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**CSIS 3381: Information Assurance and Security**

**Spring 2022**

**Reflection: Ethical Hacking Lab 1**

* **Question 1:** Research and write about Armitage. Also include how can it be used by an ethical hacker and an evil hacker? *(Minimum 150 words)*

Armitage is a java based GUI front end tool for the Metsploit framework. The goal of the creation of this tool is used to help security professonals have a better understanding of hacking. This tool can run scan which can obtain IP addresses and the specific OS system the device is running on. Armitage also comes with built in exploits that you can run. Once the attack is successful you have a huge number of tools you can use against the target. A tool you can use is a key logger this tool can be used to record key strokes from a users computer. An evil hacker can use this to record everything you are typing for a long period of time and can eventually obtain usernames and passwords. Another tool you can use will let you physically see what the victim is doing on their device. These tools and many more that are part of Armitage is very useful for beginers like me trying to learn and underastand the fundamentals of cyber security. The tool could also be very harmful if it is used for malicious intent.

* **Question 2:** Reflect on your experience in the first lab *(Minimum 150 words)*

This lab was a great experience for my first lab in this course. In general I love cyber security but performing this safe attack was a lot of fun. It showed me how to set up a safe environment. From this experience I learned how dangerous it would be if someone who knew what they were doing got into someoness device. My future learning decision will change from this lab because it has pushed me to ask more questions to obtain more in depth knowledge about the topic. If we went through the lab again what we should do differently is going through the lab a little bit slower explaining the exploit we are using and how it works. Something I would like to know more about is specifically how the exploit works and using and comparing real world cenarios. Overall this was a great start to the semester and I am very excited to do more through out the course.

*\* Review“Writing Lab Reflections.pdf” available in the Left Panel on BB Course Hompage*).