**ARP Poisoning Lab**

Understanding the functionality of basic Linux systems and the ease with which network attacks can be performed provides students with a foundational understanding of network security and its importance.

View "4-2 ARP Poisoning Lab," from the video playlist located in Class Resources.

**Part 1:**

Complete the following:

·      Conduct a MAC spoof and provide a screenshot.

·      Conduct an ARP poisoning attack, change your MAC address, and provide a screenshot of the MAC address change command functioning.

·      Provide screenshots of the Windows ARP table, highlighting the MAC address of the router and Kali Machine, the ARP spoofing command actively working, and the changed ARP address highlighting the duplicated MAC address.

**Part 2:**

           Write a 250- to 500-word summary addressing the following:

·      Provide your current MAC address and your IP address.

·      Provide the name and IP address of a website (not GCU.edu).

·      Define a MAC address, ARP, DNS, and spoofing in your own words.

·      Explain why conducting an attack on your roommate or place of work without their permission is illegal or unethical.

·      Explain why conducting an ARP attack on your virtual machine is legal.

·      Identify the sniffing, spoofing, and session hijacking components of an ARP poisoning attack.

Place all screenshots in a Microsoft Word document and submit it to the assignment dropbox. When submittting screenshots as part of your assignment, you must always include a full image of your desktop window, including the date and time in the lower right-hand corner of the Windows desktop or the upper-right corner of the macOS desktop.

While APA style is not required for the body of this assignment, solid academic writing is expected, and documentation of sources should be presented using APA formatting guidelines, which can be found in the APA Style Guide, located in the Student Success Center.

This assignment uses a rubric. Review the rubric prior to beginning the assignment to become familiar with the expectations for successful completion.

You are required to submit this assignment to LopesWrite. A link to the LopesWrite technical support articles is located in Class Resources if you need assistance.