System Security Group Project #3

(10% of class grade, due on 3/6)

Capture the flag with training-wheels on. Follow slightly out-of-date documentation to exploit vulnerable servers. Update the documentation with words and screenshots for Kali Linux. This project is worth 10% of your class grade.

What you will need:

You will need access to the departmental vSphere and the following virtual machine images:

- LAMPSec CTF4
- LAMPSec CTF5
- Kali Linux (same from previous project)

You will also need the original LAMPSec documentation for each machine:

- ctf4_instructions.pdf
- ctf5_instructions.pdf
- project 3 FAQ

Directions:

Follow the provided documentation to learn how to exploit weak services and protections in the CTF virtual machines. The documentation is old (does not use Kali Linux), and it may use outdated tools. Create updated instruction documentation for each CTF virtual machine based on the old documentation.

The deliverable (for group size of 3)

I am expecting **updated** documentation on a shared single team Google document for each CTF machine. Create new documents in your group folder called "CTF4" and "CTF5". Place your updated documentation in this area. Specifically, in terms of your updated documentation, I'm looking for screenshots of each step using Kali as the attacking machine, as well as explanations. Use the provided documentation as a starting point, copy and paste it into a new google doc, put on a title page appropriate for your team, and start modifying the text and pictures as necessary to bring the documentation up to date.

Since this is a modification of the old documentation, again **S** if they have not changed. Basically, I would like you to provide a professional-looking document that a new student could follow step by step, based on the old document.

I've created a Project 3 FAQ document to help answer frequently asked questions. It's a good idea to look at this document before you have questions so you don't spin your wheels too much.

If you use other documentation, AI, or teams for help, **you must cite the help** in your documentation.

You may want to work physically together to brainstorm and work your way through the exploitation.

In addition, you will be required to fill out an internal peer review before you receive a grade. (You cannot skip this part.)

Other Things

- I'm expecting things to sometimes be difficult, even with the hints and solution videos available. Sometimes the difficulty will be in getting things set up. Other times it might be in figuring out what you should be watching or modifying.
- If you don't know what something is, Google it to find out!
- AI can also help you set up/use tools or else pick a newer tool to substitute for an older tool.
- Make sure you are taking the time to learn. If your documentation doesn't convince me you really understand what's going on, I will award less points.