

Lab 07

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CIT 171

Hours Spent for this lesson is about 2 – 3 hours

Alternative Lab Experience

For the Linux Fundamentals lesson, I learned how many servers and tools use Linux and how to use the Linux OS.

Linux OS: There are 3 parts for the Linux Fundamentals.

In part 1, I get to learn about the history of Linux and how to use the Linux machine via the in-browser virtual machine. I get to use some terminal commands such as echo and whoami (It interesting to learn that I can use my terminal knowledge from Windows CMD to Linux Terminal).

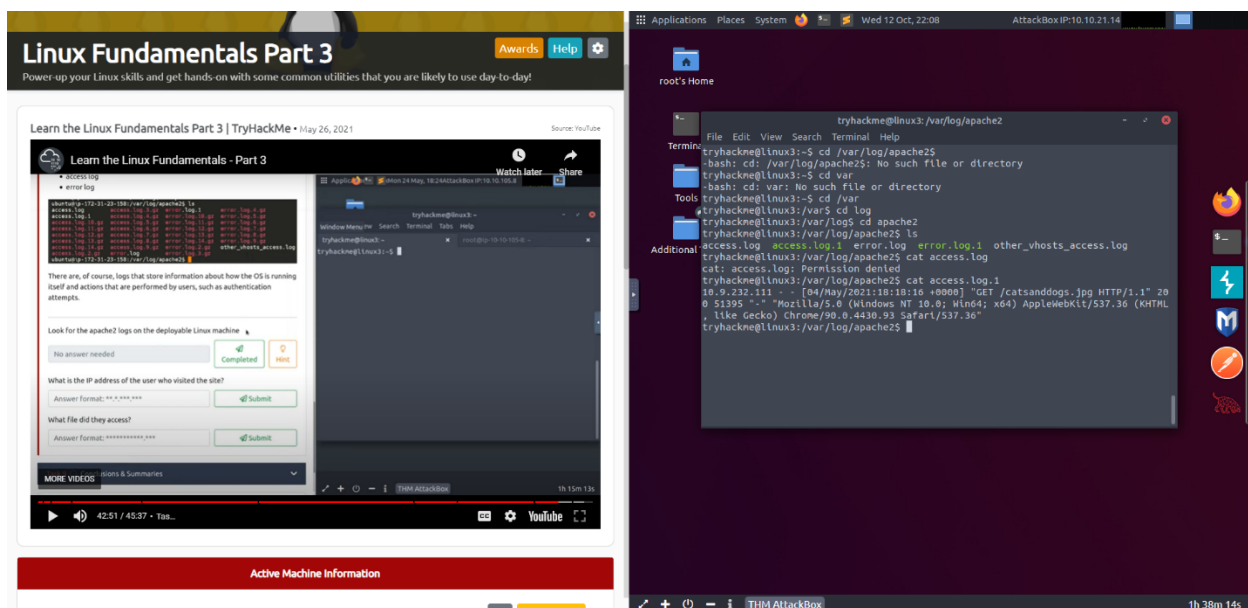


In part 2, I logged in the Linux Machine using SSH, how to advance my commands, and file system interaction. All the things I have learned in this module helped strengthen the knowledge that I have from the on-class Examining the Terminal. Some commands that I didn't know are touch where you can make a file and the command file + (name of file) to determine the type of file.



In part 3, I get to experience the common utilities that a Linux/Terminal user are likely to use every day such as Nano and VIM. Nano and VIM are both text editors, but VIM is a more advanced text editor. I learned how to view the processes or the programs that are running in my machine by typing the command 'ps', we can also view the processes run by other user by using the 'ps aux' command. I also learned three things that I need for maintaining the system.

1. Automation. I learned how to make some automated commands such as running a script/command, backing up files, and launching any program.
2. Package management. Where I can manage, add, or delete the repositories that I make. The most famous repository provider is GitHub. We need Git downloaded before we can manage the repositories.
3. Logs. Where I can track what is happening to my system and to track who tried to access my system.



Red Team: I think that learning how to use Linux and the Linux Terminal is an important skill to have for hacking. Most of the companies use Linux server and having the foundation of Linux skill will help from Beginner to a more Advanced red team.

Blue Team: This is also an important skill to have for the blue team. Learning how a hacker operates help the blue team to be several steps ahead of the red team. By learning how to access the log, the blue team can track who accessed the system and catch the hacker.