

Lab 1 - Install Linux VM

This class was the very first time I dealt with anything related to Linux or virtual



machines. What I learned from this lab was a couple of basic commands for kali such as the echo command, ls command, and the pwd command; before working on this assignment I had no idea what those commands did. Moreover, the one challenge that I had in this lab was the downloading part. That should have been the

easiest part, but when I went to download it I was doing it out of order so I kept getting stuck. Since I missed the instructions in the first class I had to wait and ask my professor for help during the next class session. Other than that this lab was probably the easiest one that was completed during the semester.

Lab 2 - Working with Command Line

For lab 2 I felt that I did a pretty good job at understanding the content that was taught. I do remember being able to use the slides and what I remember from class to kind of breeze through this assignment.

Furthermore, I did learn some new commands that helped me know how to manage files and directories, and how to switch between those things and create

them. As well as learn more about the ls command and all the different variations that can be used. One challenge that I faced was remembering the specific commands for actions like only showing the last few lines or the first few lines of something. Overall, this lab was not as challenging as I thought it would be when I first looked at it.



[illegible]

A central penguin icon representing Linux is connected by lines to four surrounding icons: a single person labeled 'USER', a group of three people labeled 'GROUP', a folder labeled 'Files', and a gear labeled 'Programs'. The word 'LINUX' is written in large, stylized letters below the penguin.

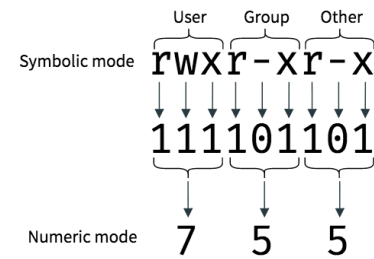
command is used for, and how to modify group information. Furthermore, I also learned what the sudo command was and how to use it. This lab for me was harder to follow the slides, and for some of the steps in this lab I had absolutely no idea

The logo for John the Ripper, featuring a red silhouette of a man in a top hat and trench coat, holding a cane. The text "John the Ripper" is written in a stylized, yellow, serif font over the silhouette.

This lab was honestly way easier than I anticipated, because I didn't have to do much work. Moreover, I felt that I got a lesson in ethics in this lab because of the contents of what we were required to do. Furthermore, I also got to learn and experience the John the Ripper tool for password cracking. One challenge that I faced in this lab was making the passwords; for some reason that did not come easy to me, but I got it done in the end. Overall, this was probably the most fun lab that I did this semester.

Lab 6 - File Permissions

This lab taught me how to read the file permissions, and what the r, w, and x stand for. Moreover, this lab also taught me how to do the conversion between symbolic and octal for the file permissions. I also learned how to change the file ownership, group ownership, and how to modify the file permissions. I think that this lab probably had the most



steps and little intricate things to it that I had to do right the first time in order to get the desired outcome. Furthermore, the challenge that I had with this lab was when I had to change between the users. I was constantly checking and rechecking if it was in the right user account for the steps that went on in that section of the lab.

Lab 7 - Storage Management

This lab introduced me to what storage and partitions in Linux was. I learned what, why, and how to use partitions during this lab. Furthermore, I also learned the difference between physical and virtual filesystems. In addition I also learned some more commands like how to mount and the fdisk command. I liked this lab because I didn't just learn things in kali, I actually had to go to the virtual machine and change some things for this lab. Moreover, the challenge that I faced during this lab was not understanding how to put some commands together for one of the steps. I was confused for a while, and I was unable to continue in the lab until I asked for help.



Lab 8 - Shell Script

This lab helped me understand the basics of shell scripting. I learned more about changing the permissions during this lab, and how to program to an extent. Moreover, I also got to get more experience with using the vi editor as well. Furthermore, this lab was probably the second easiest lab of the semester, and I could say this was my second favorite lab that I did. For this lab I had more problems with the second half of

the exercise. At first I couldn't get the output to stop giving me an error message, but the more I changed and played around with my inputs I finally figured out what I was doing wrong, and it was probably the simplest solution ever.

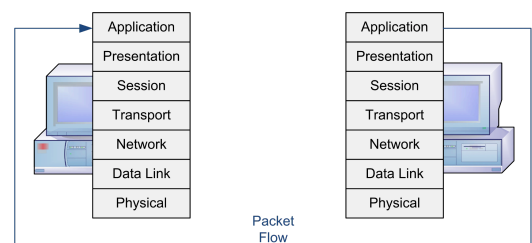
Lab 9 - Task Automation

In this lab I learned about the crontab and at commands. In addition, I also learned how shell scripting plays a role in setting up the scheduled commands. Moreover, this lab was probably the hardest and most confusing lab for me from the entire semester. I felt myself more so guessing on the steps than actually being sure that what I was doing was correct.

Furthermore, if I had to name one challenge it would have to be the entire lab and me not being able to understand or retain most of the information that was presented to me. I only understood the first section of adding a user after that I was relying heavily on the slides to help me, and even then I was still confused. This is probably going to be the worst graded lab that I am going to have.

Lab 10 - Networking Basics

Lab 10 introduced me to the basics of networking and some of the terminology that is used. Moreover, I learned the difference between IPv4 and IPv6 and why the internet has not switched between them. I also learned about subnetting and how it works. Furthermore, this lab was also another easy lab and I really understood what was going on the entire time I did this lab. The only challenge that I had for this lab was making sure that all my numbers were accurate and that I was adding enough zeros where they were needed.



Lab 11 - Basic Network Configuration

Lab 11 taught me how to find and recognize where the ip address, mac address, and network mask was located. I also learned how to use different commands like ping,

route, host, etc. In addition, I also learned what NAT was, why it is important, and where it is used. Moreover, I liked this lab because it was very easy to understand. The commands were simple and just by looking at the slides I was able to finish this lab quickly. Furthermore, the only challenge that I had was making sure that I was highlighting and explaining the difference from when I switched from NAT to Bridge Adapter because only a few things changed, but most did not.



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