CYSE 301: Cybersecurity Technique and Operations

Assignment: Lab 1– Explore CCIA virtual environment and basic Linux commands.

Task A. Get ready with VMs (30 points)

1. Power on the following VMs:

Tip: you can take one screenshot indicating all VMs are running or one screenshot for each running VM.

- pfSense Firewall
- Kali External Workstation
- Windows Server 2008
- Ubuntu 64-bit
- 2. Find the IP address of the following VMs:

Tip: you can take one screenshot for each running VM with the corresponding IP address.

- Ubuntu 64-bit
- Windows Server 2008
- Kali Linux
- Verify the connection between Kali Linux VM and Ubuntu VM using the ping command.
 <u>Tip</u>: you can take one screenshot when both VMs are talking.

Task B: Practice with Linux Commands (Complete the following tasks in the Ubuntu VM)

- 1. Display your current directory in a terminal.
- 2. Use the echo command to print your name to the console.
- 3. Display your **first and last names in two separate lines** using a single echo command (tip: how to enable the interpretation of escape characters?)
- 4. Execute the command to return to your **home** directory.
- 5. Create a new file named "forXXXX.txt" in your home directory (replace "XXXX" with your own MIDAS). Then, use the long listing format to display the contents in your home directory. What is the size of the file you just created?
- 6. Create a new directory named "XXXX" in your home directory (replace "XXXX" with your own MIDAS). Then, use the long listing format to display the contents in your home directory. What is the size of the file you just created?
- Copy /etc/passwd file to your home directory and rename the file to "passwd_XXXX" (replace "XXXX" with your own MIDAS). Then, complete the following two subtasks:
 - Use the proper command to display the first **six** lines in this file.
 - Search keyword "www" in this file.