Lab 1: Performing Reconnaissance from the WAN

Objective:

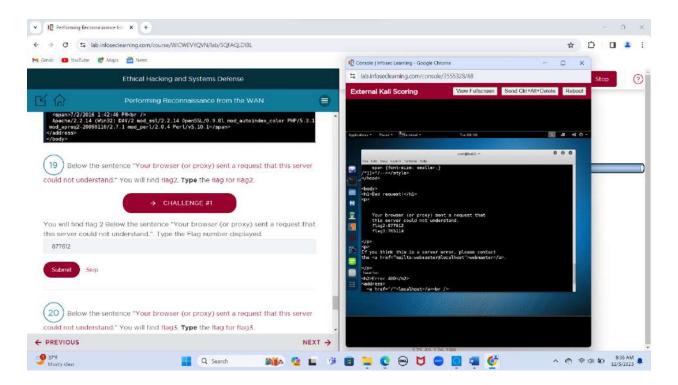
- 1. Performing reconnaissance
- 2. Banner Grabbing.
- 3. Advance Scanning with Nmap.
- 4. Analysis and Exploitation

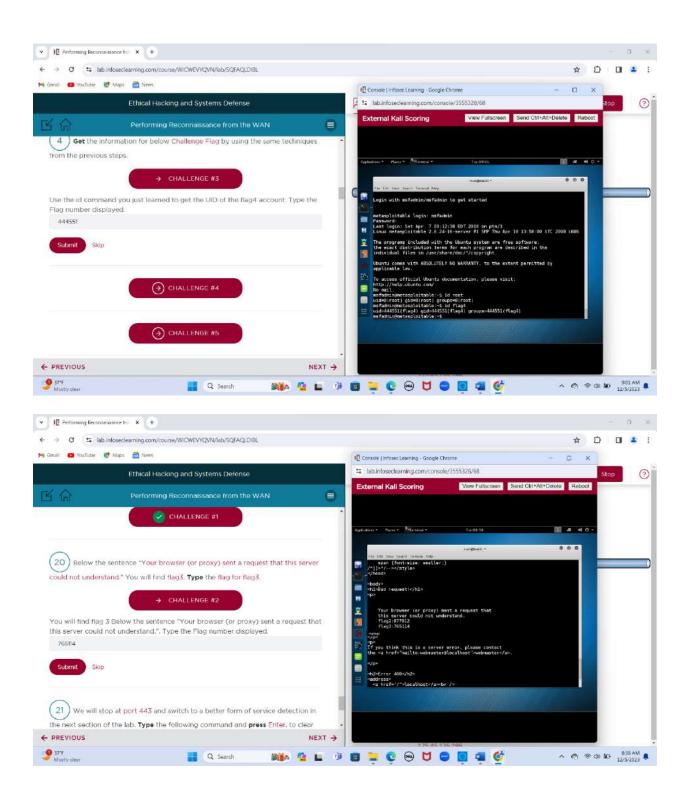
Takeaways:

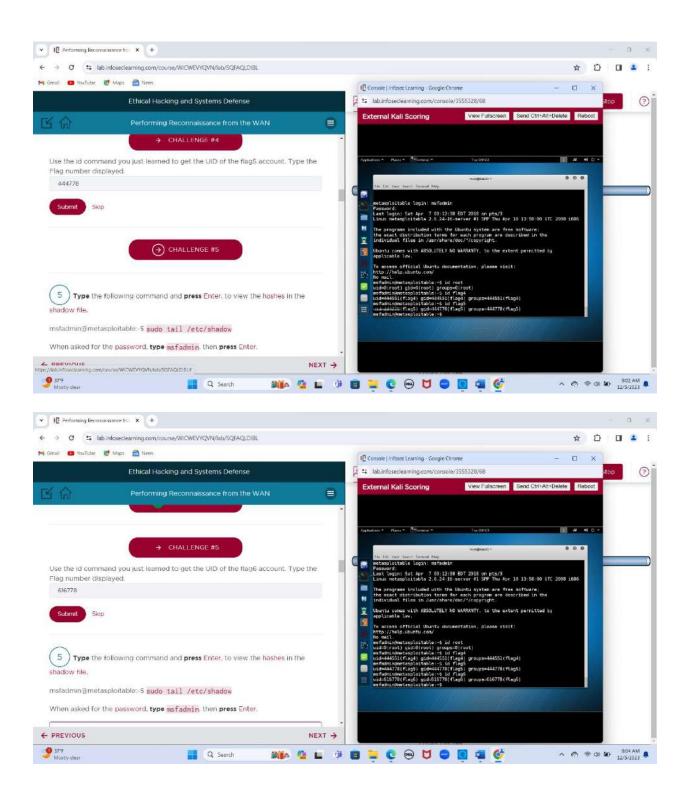
- 1. Netcat (nc) and TELNET can be used to perform a banner grab.
- **Netcat** (or nc) is a command-line utility that reads and writes data across network connections, using the TCP or UDP protocols.
- **TELNET** is a network protocol that allows you to remotely log on to and control another device or system.
- **2. Metasploit** is a widely used open-source penetration testing framework designed to help security professionals and ethical hackers perform penetration testing, security assessments, and exploit development. It provides a comprehensive suite of tools that assist in the identification of vulnerabilities, as well as the development and execution of exploit code against remote systems.
- **3. Nmap** (Network Mapper) is a powerful open-source network scanning tool used for discovering hosts and services on a computer network, thus creating a "map" of the network. Within Nmap, there are various scan options available, including service and script scan options ('-sV', '-sC'), which allow for more detailed information gathering and analysis.

- **4. Leafpad** is a lightweight and simple text editor primarily designed for Linux-based operating systems. It is known for its minimalistic interface and ease of use, catering to users who prefer a straightforward and uncluttered text editing experience.
- **5. John the Ripper** (often abbreviated as "John") supports multiple password hash types and can be used to crack passwords stored in different formats, including hashes from operating systems like Windows, Unix, macOS, and various applications.

Challenges:







The flags are:

• Flag 1: 999818

• Flag 2: 877612

• Flag 3: 444551

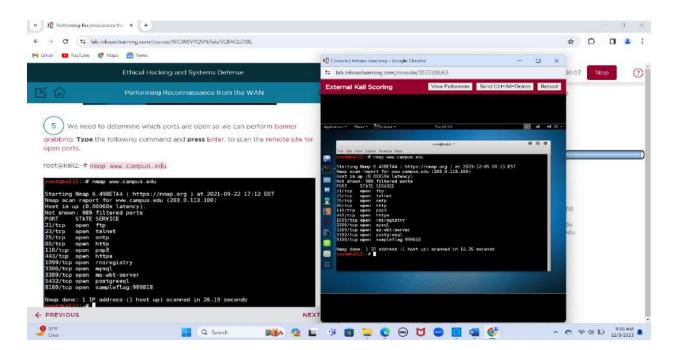
• Flag 4: 765114

• Flag 5: 444778

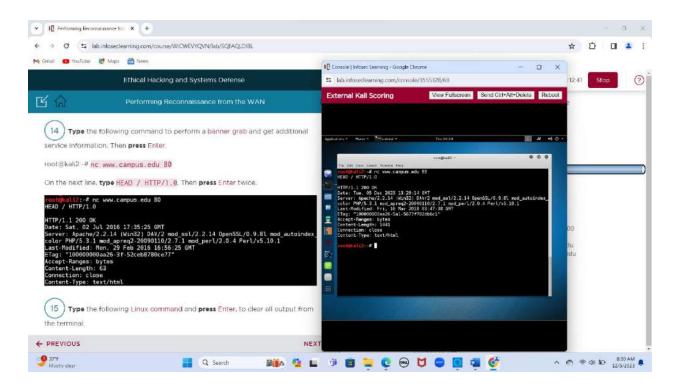
• Flag 6: 616778

Screenshots:

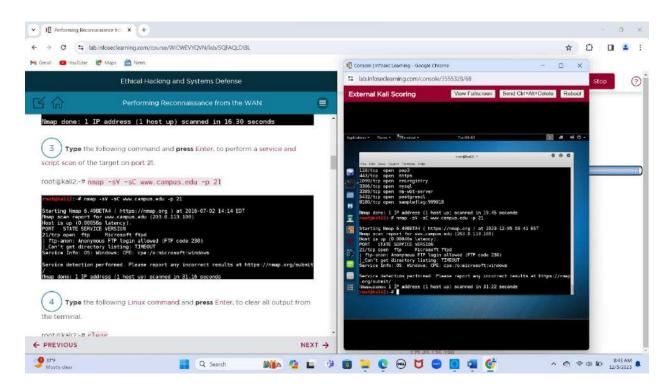
Nmap:



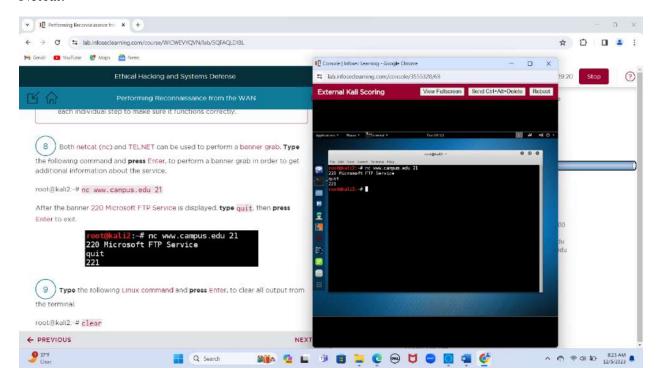
Performing banner grab:



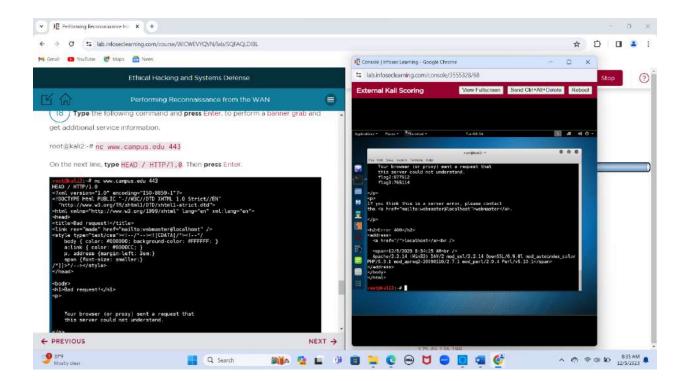
Performing service and script scan of the target:



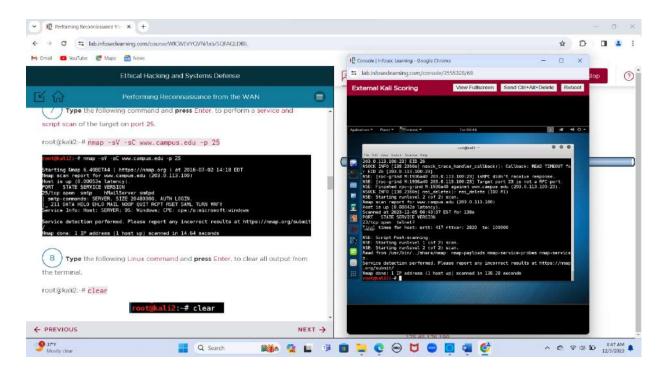
Netcat:



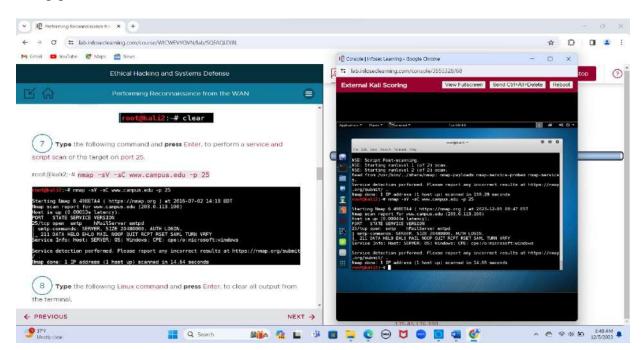
nc 443:



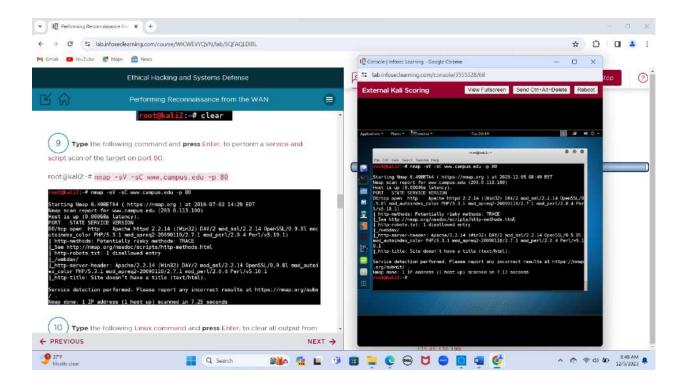
Nmap port 23:



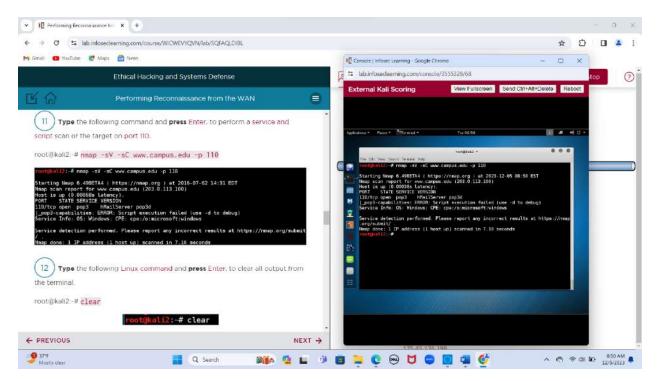
Nmap port 25:



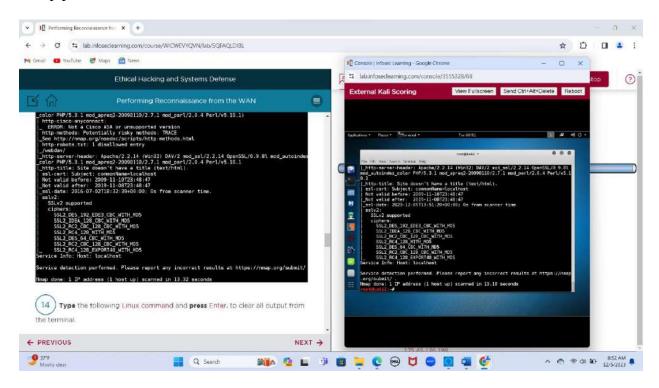
Nmap port 80:



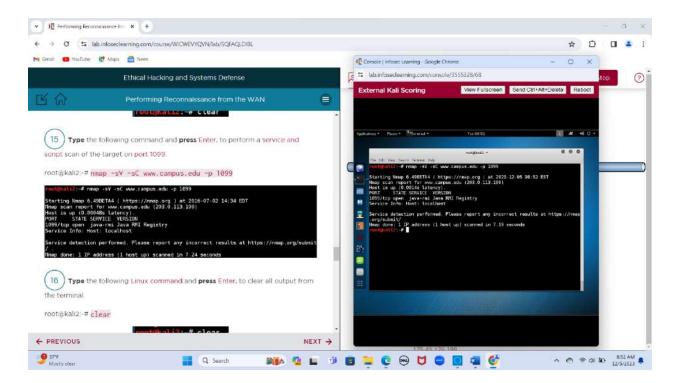
Nmap port 110:



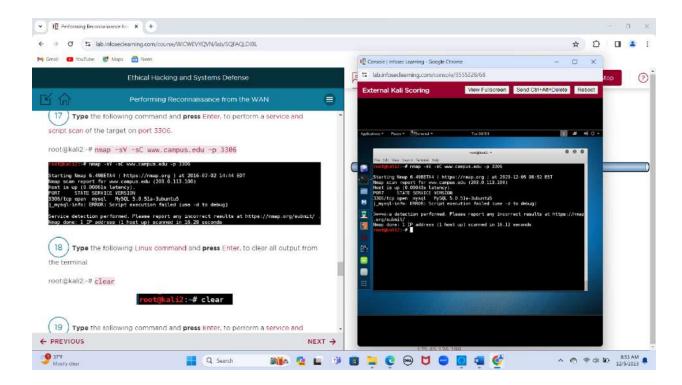
Nmap port 443:



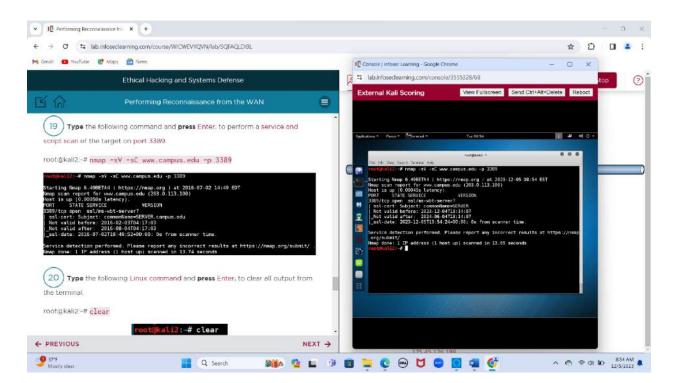
Nmap port 1099:



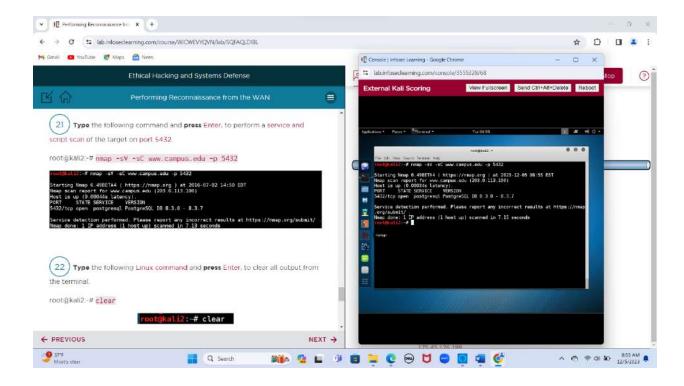
Nmap port 3306:



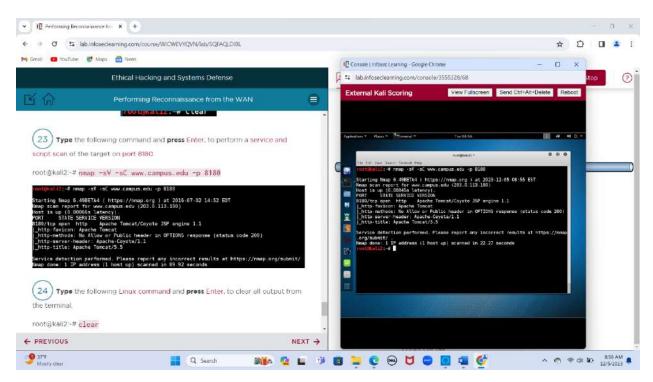
Nmap port 3389:



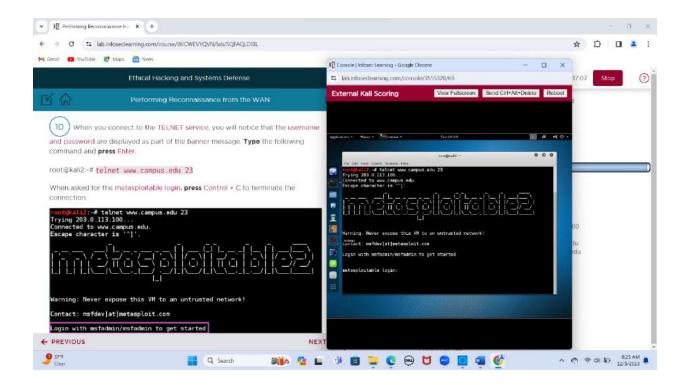
Nmap port 5432:



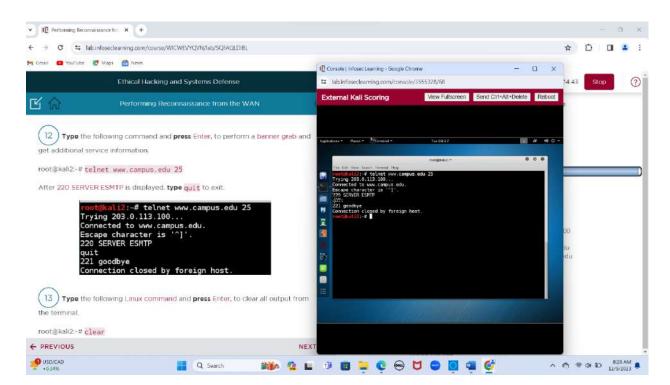
Nmap port 8180:



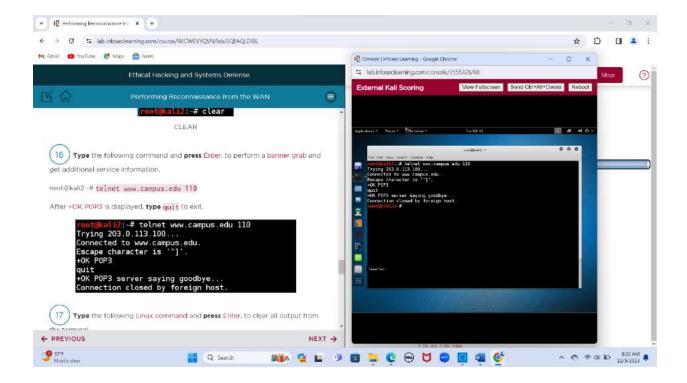
Connecting to TELNET:



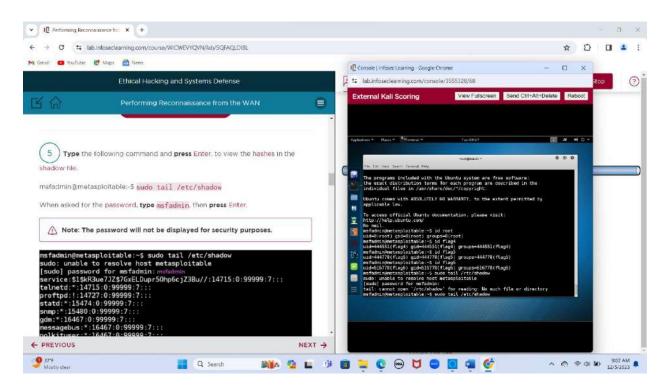
TELNET banner grab:



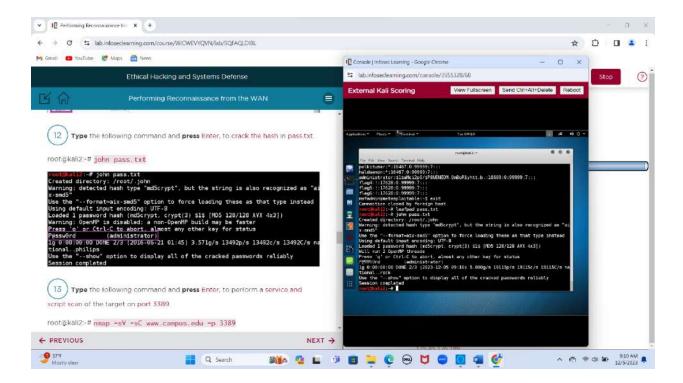
TELNET 110:



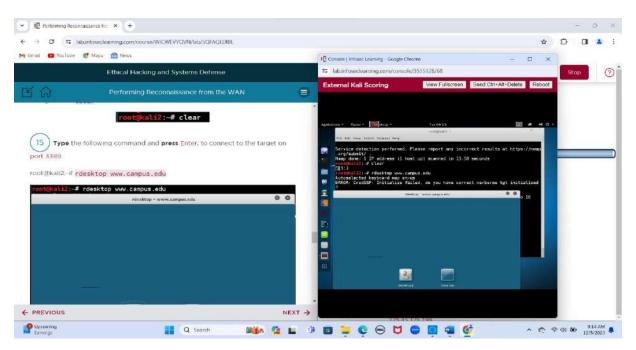
Viewing hashes:



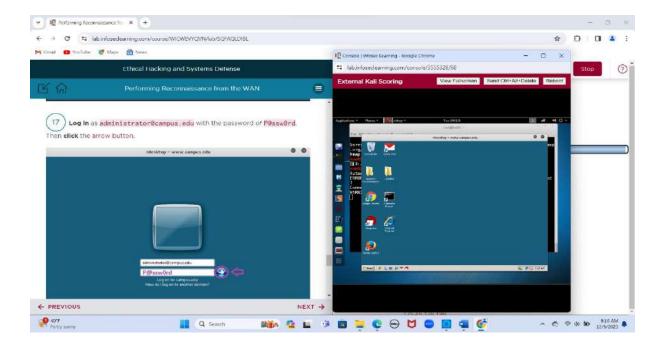
Cracking the hash:



Connecting to target:



Login to target:



This is the last screen before the end of the lab.