ASSIGNMENT NO.1 (TryHackMe)

1. Hello World

Room Name: hello world

Link: https://tryhackme.com/room/hello

Learning Objective:

- How to use TryHackMe.
- Learning what are rooms.
- Deploying the machine(tutorial).

Key tools/Commands used:

- Using attackbox for virtual machine.
- Accessing machines through browser.
- Using firefox to open copy IP address and retrieve the flag.

Concepts Learned:

- How to access TryHackMe machines.
- How to retrieve a flag.
- How to deploy a machine.
- How TryHackMe environment works.

Walkthrough/How you solve it:

- Joined the room first and read carefully all the task.
- Completed task 1 by answering question.
- Starting the targeted machine by clicking on the green button on the top i.e "start machine".
- After 1 minute copied the IP address and start the attackbox, pasted the address in the machine's firefox and accessed the machine.
- Retrieve the flag: flag{connection_verified}
- Completed the task by answering question.

Reflections/Notes:

- Easier with the attackbox to deploy machine.
- Time limit is one hour but there is option of add one hour.
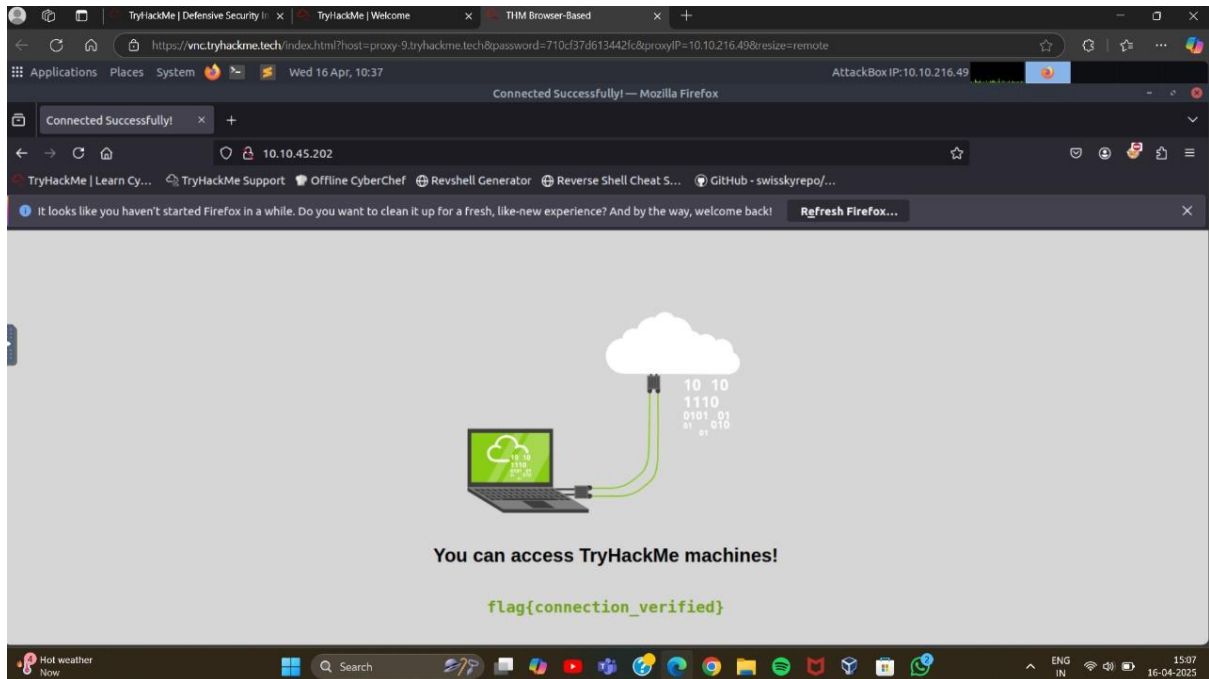
2. HowToUseTryHackMe

Room Name: how to use TryHackMe

Link: https://tryhackme.com/room/howtousetryhackme

Learning Objective:

- How to start and access the machine.
- Listing files, changing directory, reading file.

Key tools/Commands used:

- Using attackbox for virtual machine.
- Accessing machines through browser.
- Commands of linux:ls,cd,cat used.

Concepts Learned:

- How to use terminal and how to run basic commands of linux.

- How to change the directory and how to read a file.

Walkthrough/How you solve it:

- Joined the room first and read carefully all the task.
- Starting the targeted machine by clicking on the green button on the top i.e "start machine".
- Performed basic commands on terminal and answered the question.
- Terminate the machine.

Reflections/Notes:

- User-friendly environment.
- Various information for beginner.
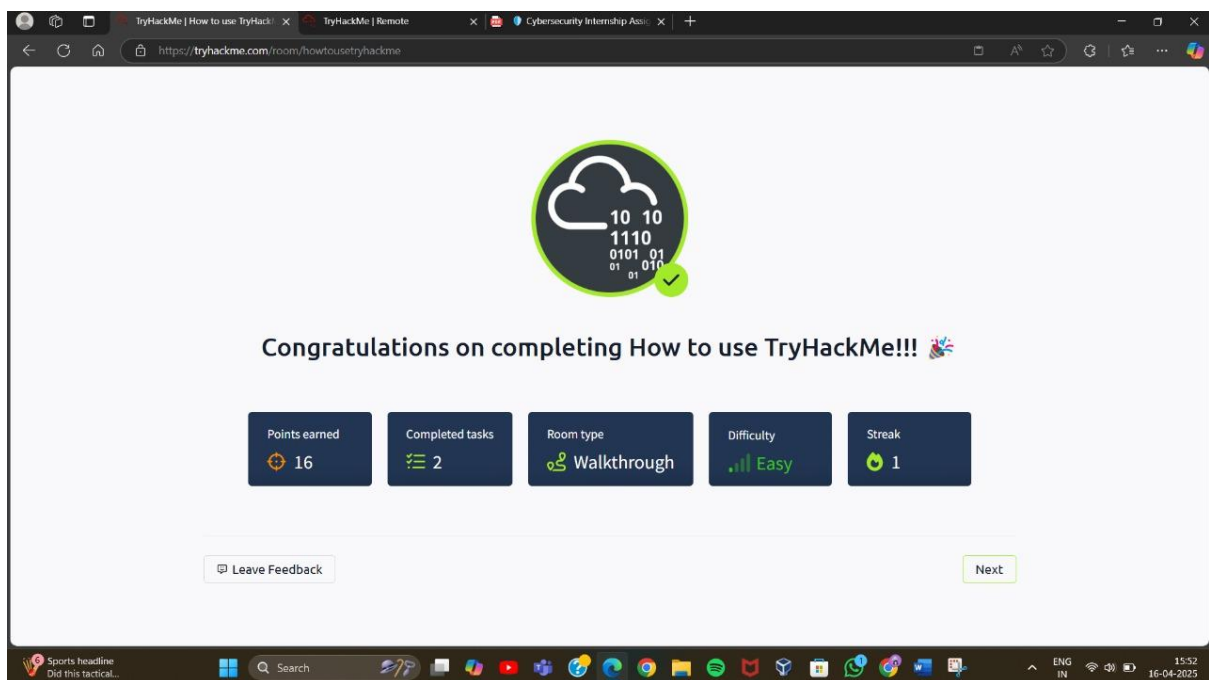
3. Getting Started

Room Name: Getting Started

Link: https://tryhackme.com/room/gettingstarted

Learning Objective:

- Hacking a fake social media website.

- Launching the machine.
- Inspecting the website.

Key tools/Commands used:

- Using attackbox for virtual machine.
- Accessing machines through browser.

Concepts Learned:

- How to see source of page
- Getting information about admin and passwords.
- What are default credentials.
- Introduction to Red Teaming, Cyber Security, Jr Penetration Tester, Pre Security.

Walkthrough/How you solve it:

- Joined the room first and read carefully all the task.
- Starting the targeted machine by clicking on the green button on the top i.e "start machine".
- Copied the address to the browser and the site will be opened by right click selected view page source and read all the comments and find the admin name.
- Read default credentials ,some common username and passwords and answered the question.
- Terminate the machine.

Reflections/Notes:

- Steps and explaination are in detailed
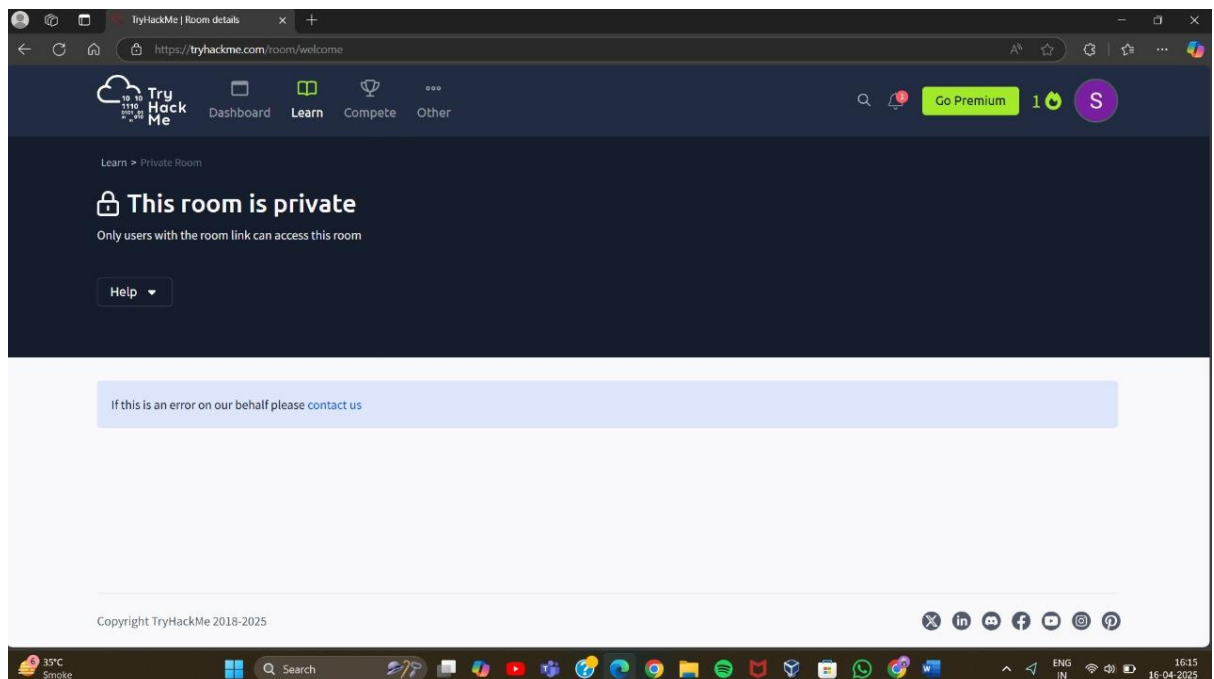- Hints are useful if we have difficulties to give the answer.
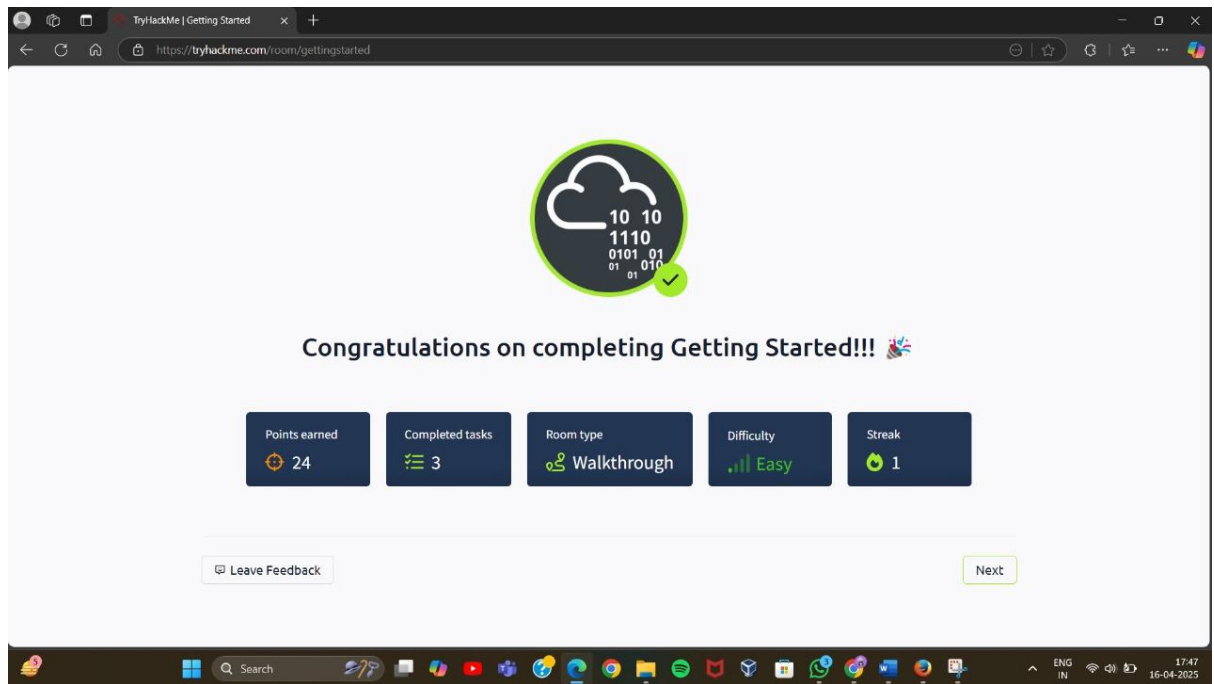
4. Welcome

Room Name: welcome

Link: https://tryhackme.com/room/welcome

Learning Objective:

- Understanding the privacy of the room link.Exploring the dashboard to see our acheivements and performance.

5. TryHackMe Tutorial

Room Name: Getting Started

Link: https://tryhackme.com/room/tutorial

Learning Objective:

- Starting the machine.
- Retrieving the flag.

Key tools/Commands used:

- Using attackbox for virtual machine.
- Accessing machines through browser.

Concepts Learned:

- Deploying the machine by IP address.

Walkthrough/How you solve it:

- Starting the targeted machine by clicking on the green button on the top i.e "start machine".
- Copied the address to the browser and retrieved the flag of connection.
- Terminate the machine.

Reflections/Notes:

- Browser accessed via IP is easier to handle.
- Always keep remember to terminate the machine after completing the tasks.
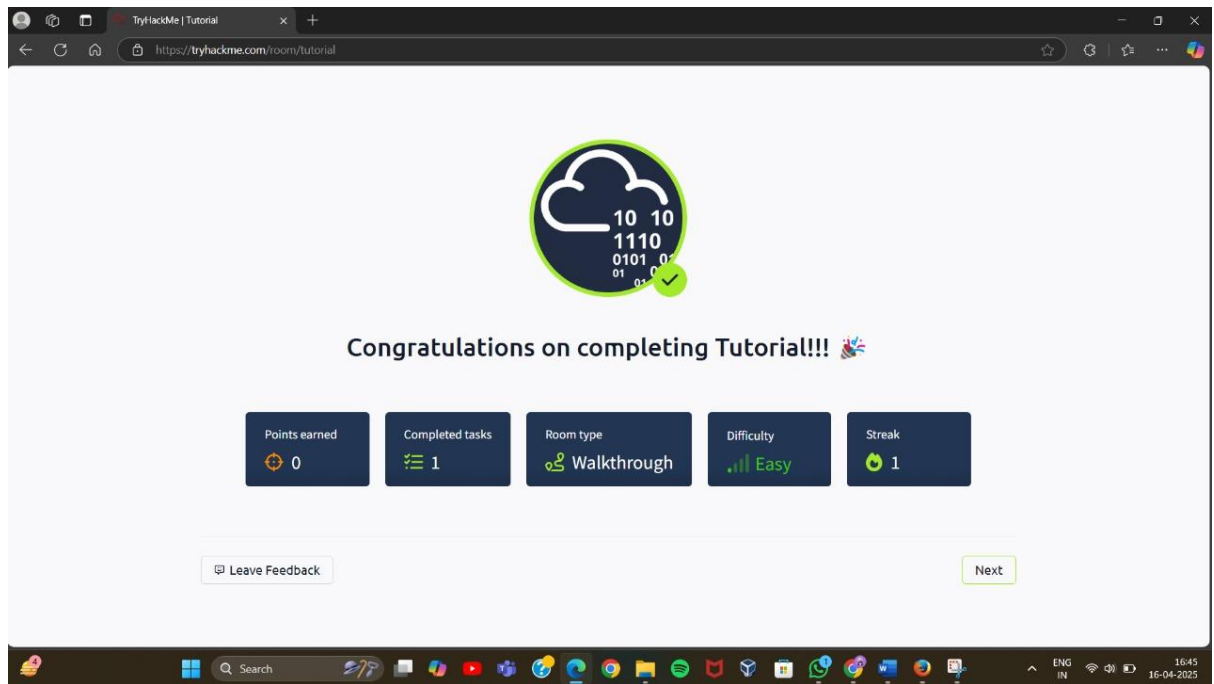
6. OpenVPN Configuration

Room Name: OpenVPN Configuration

Link: https://tryhackme.com/room/openvpn

Learning Objective:

- How to access machines using OpenVPN configuration file.
- Connection OpenVPN to our network.
- Steps to download the OpenVPN GUI open-source application in Windows operating system.
- Steps to download the OpenVPN GUI open-source application in MacOS.
- Steps to download the OpenVPN GUI open-source application in Linux operating system.
- Using kali linux machine without being connected to VPN.

Key tools/Commands used:

- Used OpenVPN open-source application.

Concepts Learned:

- How to connect our network using OpenVPN configuration file.

- Steps to download this application in different operating systems.
- Checking the connection.

Walkthrough/How you solve it:

- Read carefully all the steps for connecting with Windows.
- Downloaded the OpenVPN GUI open-source application and setup.
- Opening the application as administrator.
- At the bottom , on the taskbar click on the arrow, right click on the application and click on the import file.
- Select the configuration file.
- Right click on application again and click on the connect.

Reflections/Notes:

- Steps are very easy to understand.
- Second way of accessing TryHackMe machines instead of attackbox.
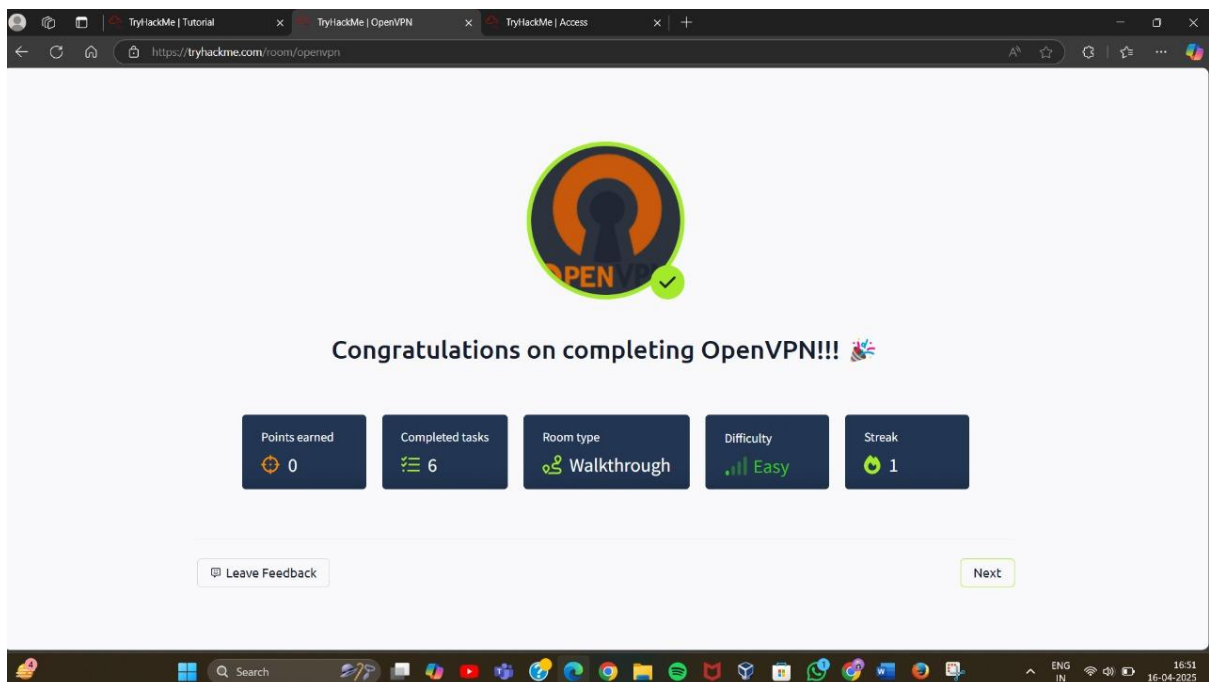
7. Beginner Path Introduction

Room Name: Beginner Path Introduction

Link: https://tryhackme.com/room/beginnerpathintro

Learning Objective:

- How to hack a website
- How to change a password using bruite force application.
- Reading the site to see how target was hacked.
- What is data breach.
- Learning roadmap to gain the knowledge about how to become a pentester or enroll in cyber defense.

Key tools/Commands used:

- Used the "view site" button for every task.

Concepts Learned:

- Changing the password of the given user.
- Information about data breach and hacked target.
- Read information about the learning path roadmap about enrollment for pentester or in cyber defense.

Walkthrough/How you solve it:

- Clicked on the "view site" button to hack the password.
- Reading the steps and answering the question accordingly.
- Entered username and guessing the password by combination of code.
- Reading about the web request and next used web request repeater using brute force to reset the password.
- Got the answer of the task : THM{BRUTEFORCING}.
- For task 2 carefully read the all information and answered the question.
- Learned the roadmap.

Reflections/Notes:

- Clear roadmap for the beginners .
- Learned new thing about hacking password.
- Understand the network security.
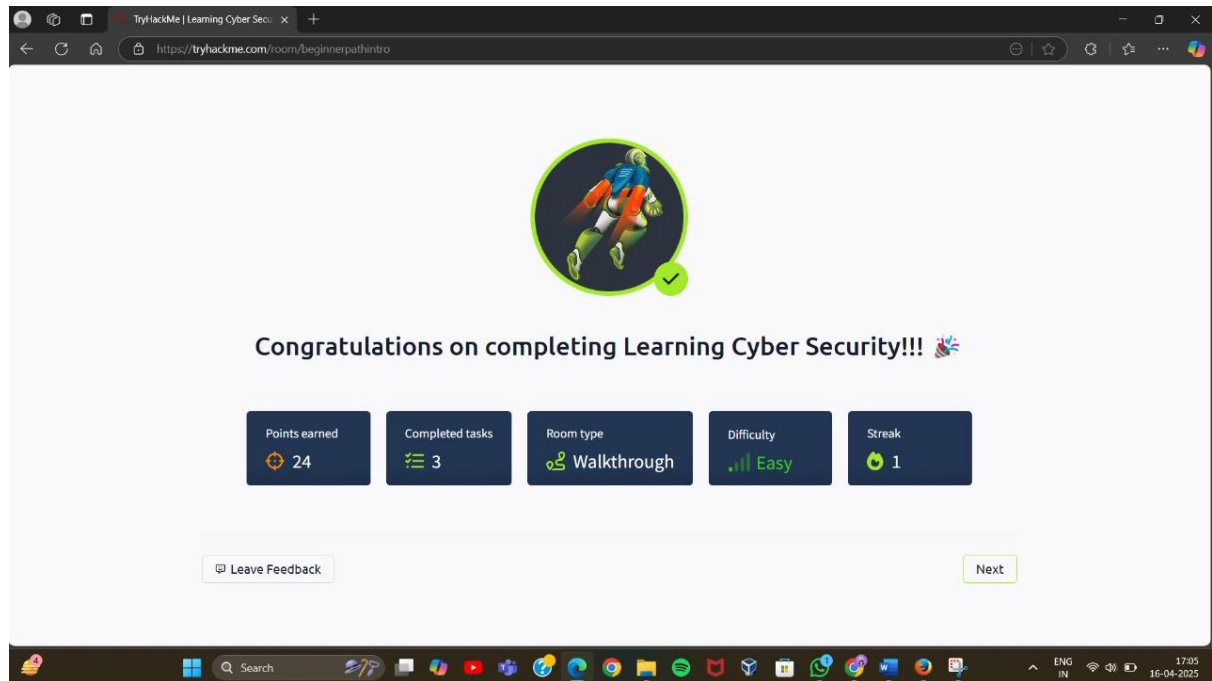
8. Starting Out in Cyber Security

Room Name: Starting Out in Cyber Security

Link: https://tryhackme.com/room/startingoutincybersec

Learning Objective:

- Different career paths in cyber security.
- How tryhackme help in this.
- Information about offensive security and defensive security.

Key tools/Commands used:

- TryHackMe room.

Concepts Learned:

- Offensive side of cyber security i.e attacking different applications .

- Different career options in offensive security.
- Different hack activities for beginners.
- About defensive security i.e detecting the attacks.
- Job careers in defensive security.

Walkthrough/How you solve it:

- Read all the information carefully.
- Answerd the question.
- Visited the sites which are given in between.

Reflections/Notes:

- The information is very useful for beginners.
- Explored various job career options.
- Difference between offensive and defensive security.
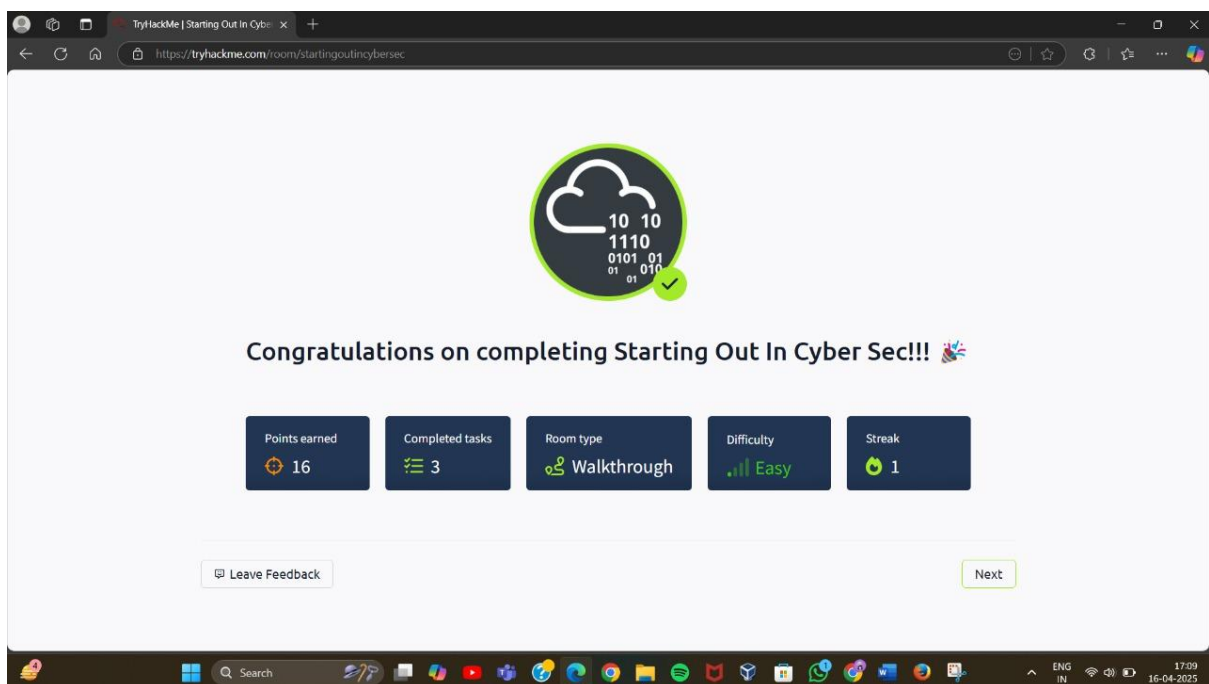
9. Introduction to Research

Room Name: Introduction to Research

Link: https://tryhackme.com/room/introtoresearch

Learning Objective:

- Improving the searching skills.
- Example of research question.
- Introduction to vulnerability searching.
- Searching for the manual pages.

Key tools/Commands used:

- TryHackMe room.
- Google search engine.
- Given Youtube video.

Concepts Learned:

- Learned how files are hidden inside images.
- How to install things with apt.
- What is CVE.
- Man command for manual page.
- Linux fundamentals.

Walkthrough/How you solve it:

- seen the youtube video.
- Searching all the questions on google search engine and reading them carefully.
- Answered the question.
- Reading information of various linuc command and fundamentals using manual page.

Reflections/Notes:

- Searching skills are improved.

- Getting New information.
- The youtube video is given for the help.