Cybersecurity Internship Assignment - TryHackMe Introductory Labs Report

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Issued by : Digisuraksha Parhari Foundation
Powered by: Infinisec Technologies Pvt. Ltd.

TryHackMe Room: Hello World

Learning Objectives:

The "Hello World" room on TryHackMe is a beginner-friendly introduction to cybersecurity. It teaches users how attackers find and exploit weaknesses in systems, such as through web vulnerabilities or reverse shells. The goal is to provide hands-on practice with ethical hacking techniques and help users understand the basics of penetration testing in a safe, controlled environment.

Key Tools/Commands Used:

- Basic Navigation commands.
- TryHackMe Web Browser.

Concept Learned :

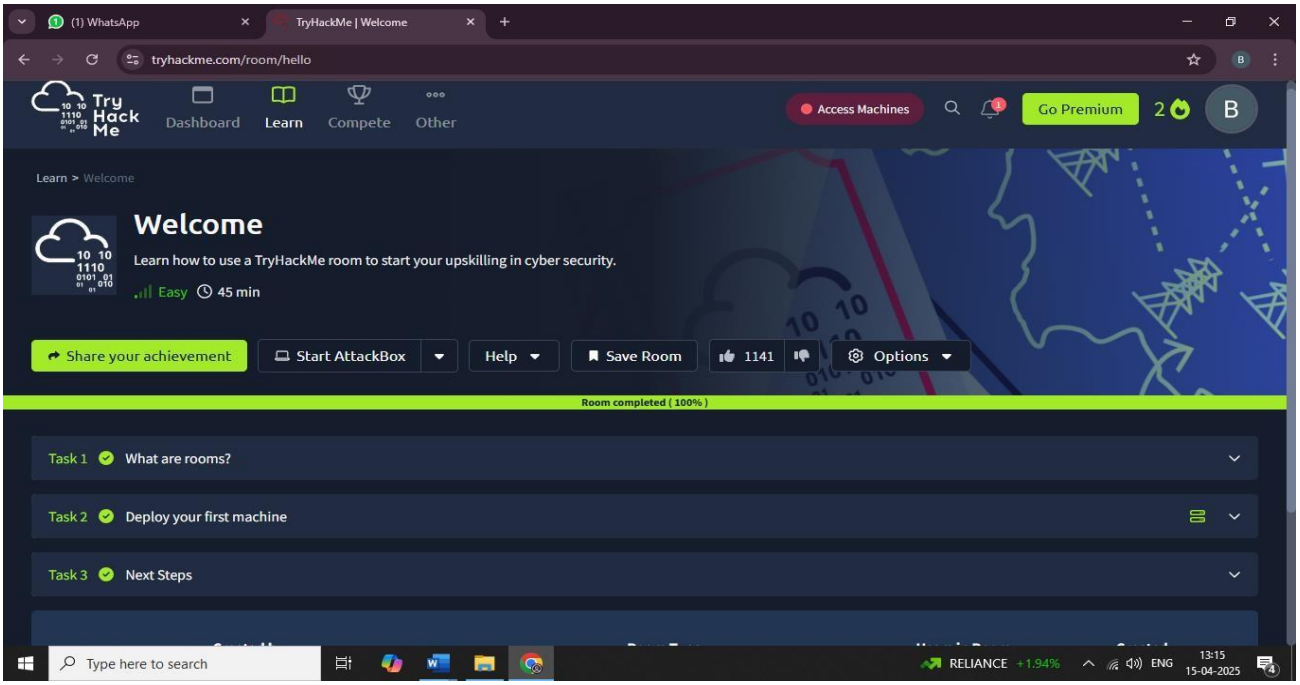
- Launching and Accessing VM.
- Web Application Vulnerabilities.
- Introduction to Ethical Hacking.

Walkthrough / How You solved it :

- Accessing the Room by logged into TryHackMe.
- Followed the provided instruction within room and complete the introductory tasks.
- Marked tasks as completed after successfully completing the tasks.

Reflection or Notes :

- **Good Start –** A helpful intro to ethical hacking with clear steps to follow**.**
- **Hands-on Practice –** Learned to use basic tools for scanning and connecting.
- **Importance of Observation -** Found out how small clues on websites can help find weaknesses.
- **Confidence Boost** – Finishing the room made me feel more ready for harder challenges.



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

TryHackMe Room: How to Use TryHackMe

🎯 Learning Objectives:

The "How to Use TryHackMe" room teaches how to get started with the platform. It explains how to join rooms and deploy virtual machines for practice. Users learn how to use the in-browser attack box to run commands. It also guides on how to read tasks and submit answers step by step.

⚒ Key Tools/Commands Used:

- In-Browser Attack Box
- Basic Linux Commands (ls,catcd,pwd,etc).
- TryHackMe Navigation Tools

🧠 Concept Learned :

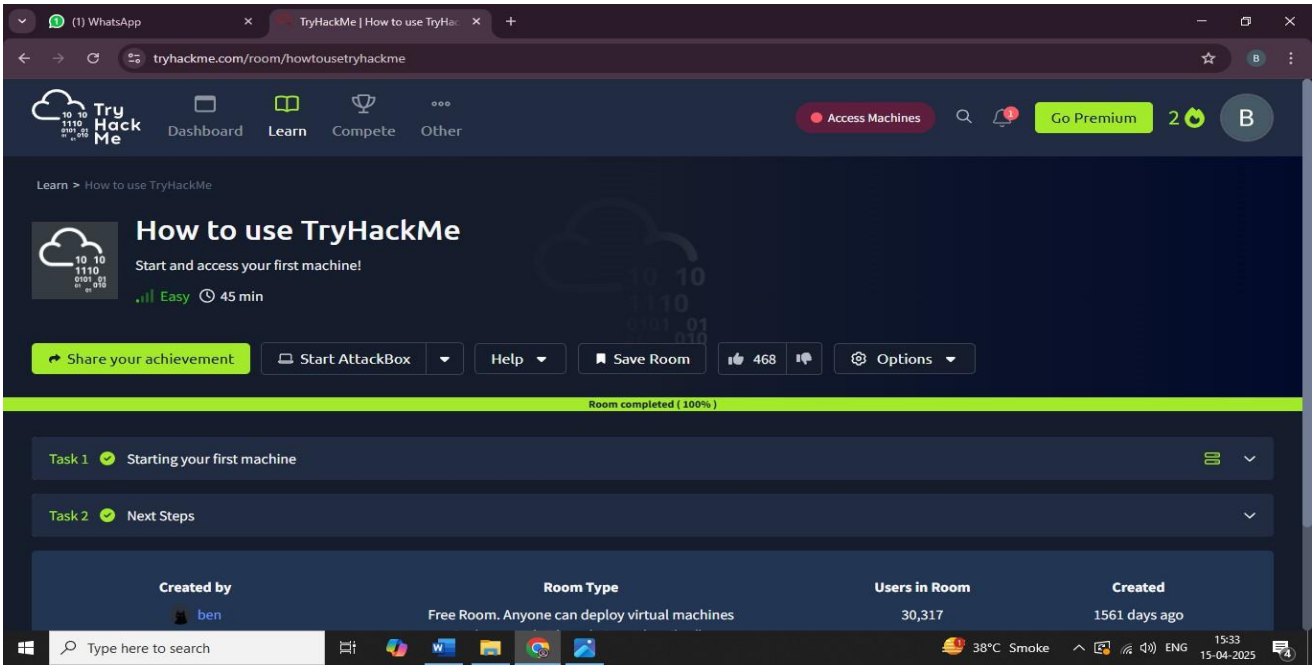
- Navigation and use of TryHackMe platform.
- Deploying and connecting to virtual machines.
- Use of the in-browser attack box and basic terminal commands.
- Completing tasks and submitting the answers correctly.

🔍 Walkthrough / How You solved it :

- Accessing the Room by logged into TryHackMe to get IP address.
- Open the in-browser AttackBox.
- Use basic Linux commands like ls, cd, cat to explore and find answers.
- Marked tasks as completed after successfully completing the tasks.

📝 Reflection or Notes :

- **Easy Start –** It helped me get familiar with how TryHackMe works.
- **Basic Linux Commands –** I learned simple commands to navigate and interact with the system.
- **Task-Based Learning –** Understood how to complete tasks and submit answers step by step.
- **Confidence Boost** – Finishing the room made me feel more ready for harder challenges.



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

TryHackMe Room: Getting Started

🎯 Learning Objectives:

The **"Getting Started"** room on TryHackMe teaches users how to navigate the platform and use its features effectively. It covers deploying virtual machines, setting up the attack box, and using basic commands. The room also guides users on how to complete tasks step by step, providing a solid foundation for ethical hacking practice.

🛠 Key Tools/Commands Used:

- In-Browser Attack Box
- Basic Linux Commands .
- TryHackMe Navigation Tools

🧠 Concept Learned :

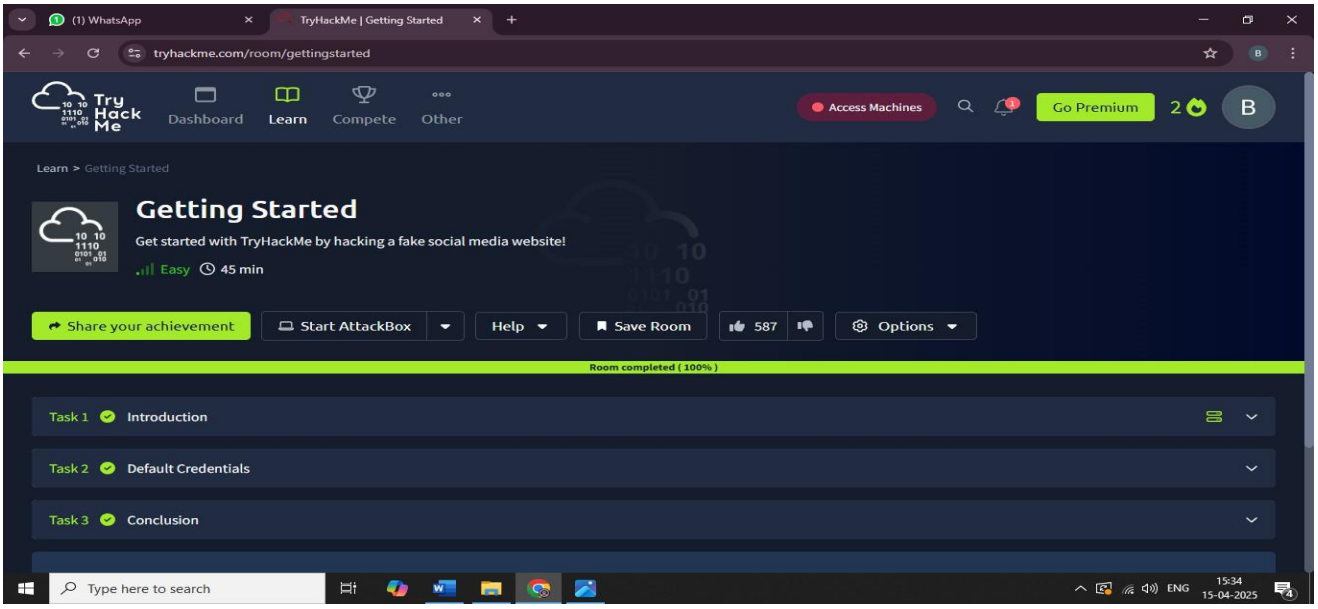
- Navigation and use of TryHackMe platform for exploration.
- Understanding how to deploy and interact with virtual machines for hands-on practice.
- Learning to use tools like ping and curl for basic network diagnostics and testing.
- Understanding how to read, solve, and submit answers for each task in the room.

🔍 Walkthrough / How You solved it :

- Started the room and deployed the virtual machine to get the target IP.
- Used the in-browser AttackBox to access the machine and run commands.
- Use basic Linux commands like ls, cd, cat to explore and find answers.
- Completed the tasks step by step, reading instructions and submitting correct answers.

📝 Reflection or Notes :

- **Easy to Follow –** The room gave a clear and simple start to using TryHackMe.
- **Basic Linux Commands –** I learned simple commands to navigate and interact with the system.
- **Platform Understanding –** Learned how to deploy machines and use the AttackBox.
- **Confidence Boost** – Finishing the room made me feel more ready for harder challenge



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

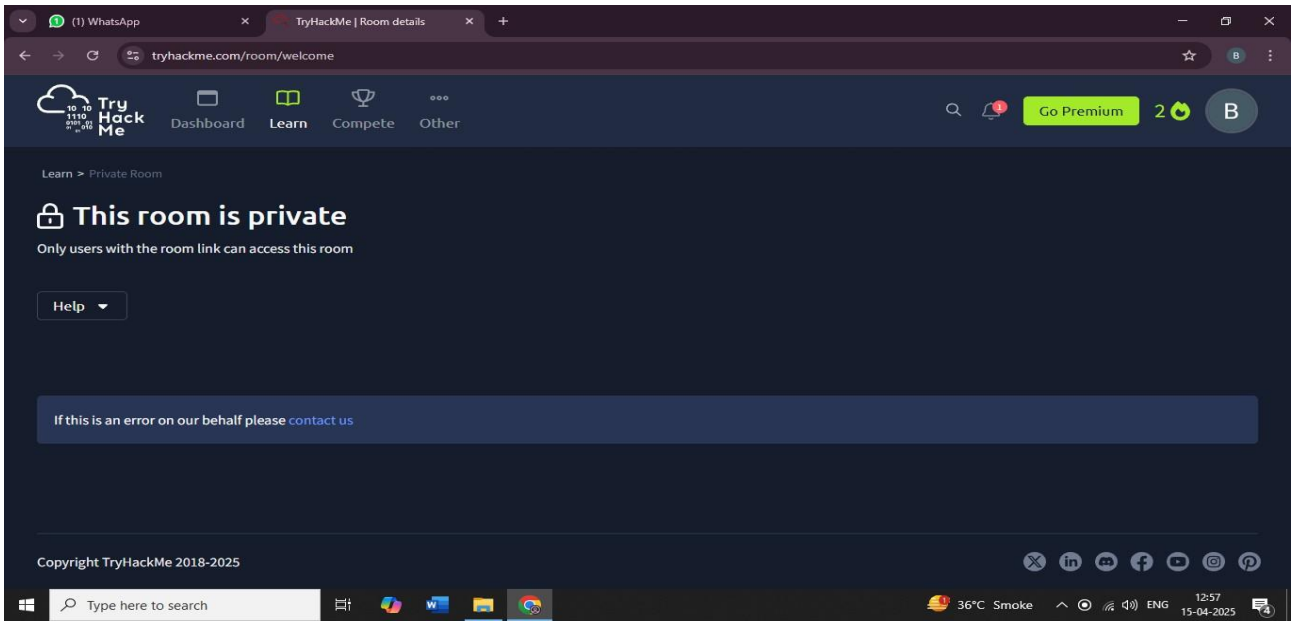
TryHackMe Room: Welcome

🎯 Learning Objectives:

The "Welcome" room helps users understand what TryHackMe is and how it works. It introduces learning paths, rooms, and how to begin learning cybersecurity step by step.

🛠 Key Tools/Commands Used:

- None



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

TryHackMe Room : TryHackMe Tutorial

🎯 Learning Objectives:

The **"TryHackMe Tutorial"** room provides a structured introduction to the platform, guiding users through virtual machine deployment and terminal interaction via the AttackBox. It builds essential skills in task navigation and basic command-line usage, laying the groundwork for advanced cybersecurity exploration.

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🛠 Key Tools/Commands Used:

- In-Browser Attack Box
- Basic Linux Commands .
- TryHackMe Navigation Tools

🧠 Concept Learned :

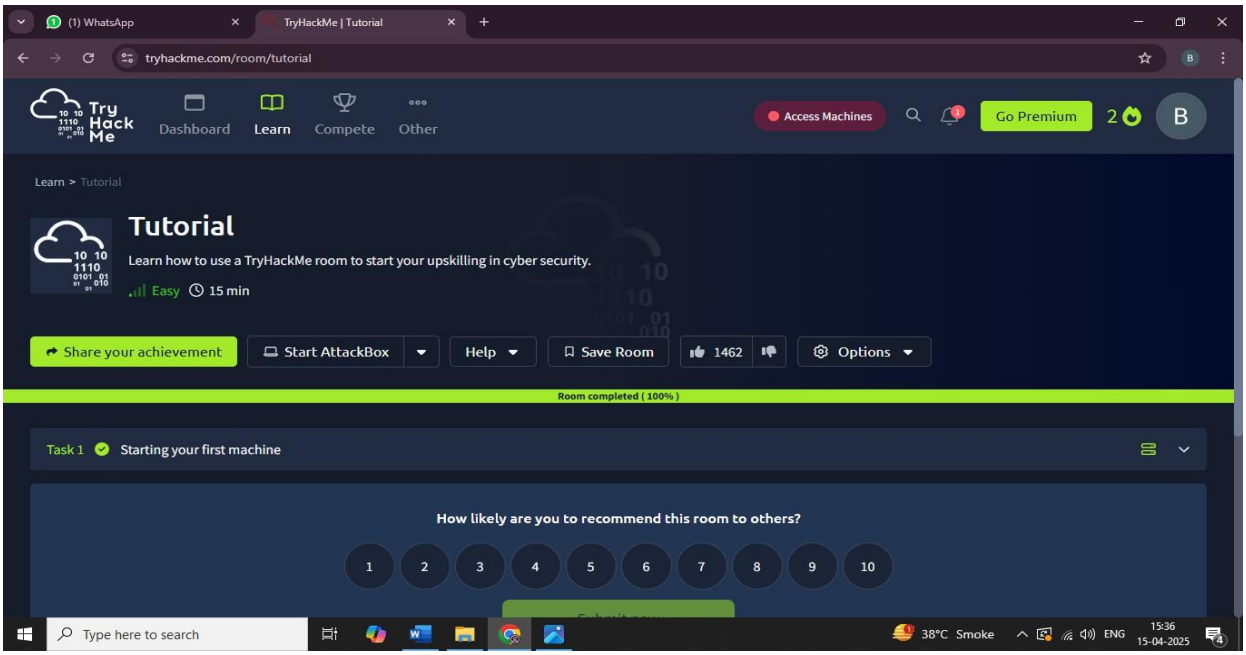
- Learned how to interact with virtual machines directly through the platform.
- Learned how to deploy and connect to virtual machines for hands-on practice.
- Gained familiarity with essential Linux commands like ls, cd, and cat.
- Understanding how to read, solve, and submit answers for each task in the room.

🔍 Walkthrough / How You solved it :

- Click "Start Machine" to deploy the virtual machine and note the target IP.
- Open the in-browser AttackBox, which provides a terminal to interact with the target machine.
- Completing the tasks step by step, reading instructions and submitting correct answers.

Reflection or Notes :

- **Easy to Follow –** The room gave a clear and simple start to using TryHackMe.
- **Task-Based Approach –** The step-by-step structure made it easier to understand how to approach and solve challenges.
- **Platform Understanding –** Learned how to deploy machines and use the AttackBox.
- **Confidence Boost** – Finishing the room made me feel more ready for harder challenge



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

TryHackMe Room : OpenVPN Configuration

Learning Objectives:

The **"OpenVPN Configuration"** room on TryHackMe teaches users how to securely connect their own machine to the TryHackMe network using OpenVPN. It explains how to download the VPN configuration file, install OpenVPN, and run the connection command. Users learn to verify the VPN connection and understand why it's needed for accessing certain rooms. This room prepares users to use their personal machine for hands-on hacking labs outside the AttackBox.

Key Tools/Commands Used:

- OpenVPN
- VPN Configuration File
- Linux Commands to Connect
- TryHackMe Navigation Tools

Concept Learned :

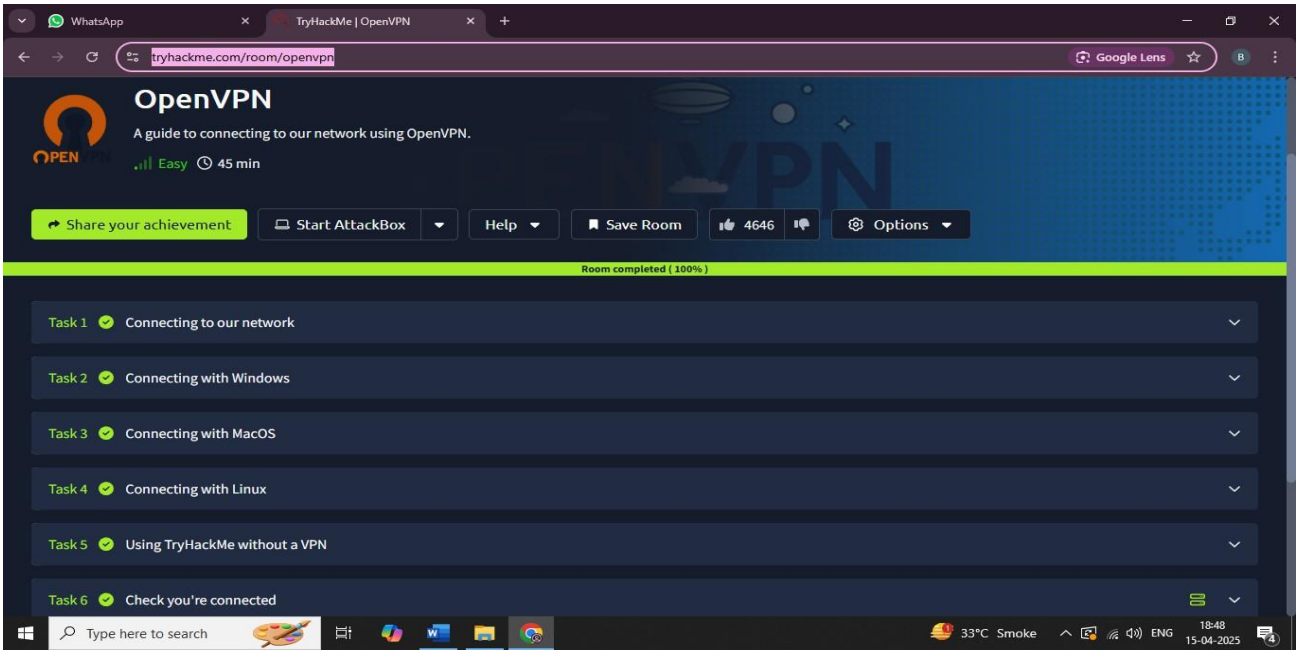
- Understanding why a VPN is needed to access TryHackMe machines securely from your own system.
- Learning how to install, configure, and run OpenVPN.
- Gaining the ability to connect your personal machine to TryHackMe's network safely.
- Verifying Connection to check if the VPN is working correctly.
- Identifying and resolving common VPN errors or connection problems.

🔍 Walkthrough / How You solved it :

- Downloaded the `.ovpn` file from the TryHackMe access page to get connected.
- Installed OpenVPN using the terminal command.
- Connected to the TryHackMe network using `sudo openvpn [filename].ovpn`.
- Verified the VPN connection by checking access to deployed machines.

📝 Reflection or Notes :

- **Understood VPN Importance** – Learned why a VPN is needed to access TryHackMe machines from my own system.
- **Hands-on VPN Setup** – Gained practical experience installing and running OpenVPN using the terminal.
- **Connection Confidence** – Now feel confident in securely connecting to remote labs without using the AttackBox .
- **Helpful Troubleshooting** – Learned how to fix basic connection issues and verify if VPN is working properly.



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

TryHackMe Room : Beginner Path Introduction

🎯 Learning Objectives:

The **"Beginner Path Introduction"** room introduces users to TryHackMe's Beginner Path, designed to provide a solid foundation in cybersecurity. It outlines key topics like networking, Linux, and we hacking, and helps users understand the skills they'll develop. The room also provides guidance on how to navigate the learning path and track progress as they move through various challenges.

🛠 Key Tools/Commands Used:

- TryHackMe Navigation Tools
- TryHackMe Web Browser.

🧠 Concept Learned :

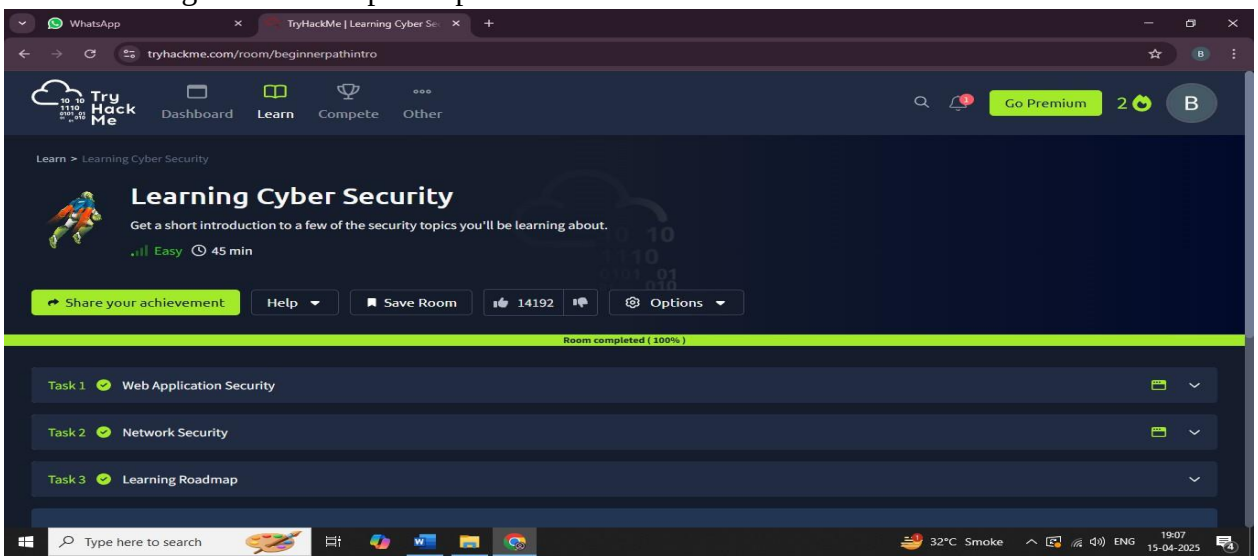
- Understanding the structure and topics covered in TryHackMe's Beginner Path.
- Introduction to key areas like networking, Linux, and web security.
- Learning how to navigate TryHackMe's interface, deploy machines, and track progress.
- Gaining insight into how the Beginner Path helps develop foundational cybersecurity skills.

🔍 Walkthrough / How You solved it :

- Started the Room to begin the introduction and read through the objectives..
- Explored the Path Overview and skills covered in the Beginner Path.
- Learned how to navigate TryHackMe, access tasks, and track progress.
- Followed the instructions, completed the tasks, and submitted the answers to finish the room.

📝 Reflection or Notes :

- **Clear Path Overview –** The room provided a helpful introduction to TryHackMe's Beginner Path and its structure.
- **Platform Familiarity** – Improved my ability to navigate TryHackMe, deploy machines, and track my learning progress**.**
- **Confidence in Progression –** Gained a clear understanding of the topics to be covered, which builds confidence to proceed.
- **Strong Foundation –** The room highlighted the importance of mastering basics before advancing to more complex topics**.**



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

TryHackMe Room : Starting Out in Cyber Security

🎯 Learning Objectives:

The **"Starting Out in Cyber Security"** room introduces users to the basics of cybersecurity and its significance in the digital age. It provides an overview of various career paths in cybersecurity and the necessary skills for each. The room also covers essential tools and techniques used in the field and offers guidance on how to continue learning and progressing in cybersecurity.

🛠 Key Tools/Commands Used:

- TryHackMe Navigation Tools
- TryHackMe Web Browser.

🧠 Concept Learned :

- Gained an understanding of basic cybersecurity principles and its importance.
- Learned about different cybersecurity roles and the skills required for each.
- Introduction to key tools and platforms used in cybersecurity, like TryHackMe and basic Linux commands.
- Understood how to structure the learning journey and the next steps to take in cybersecurity.

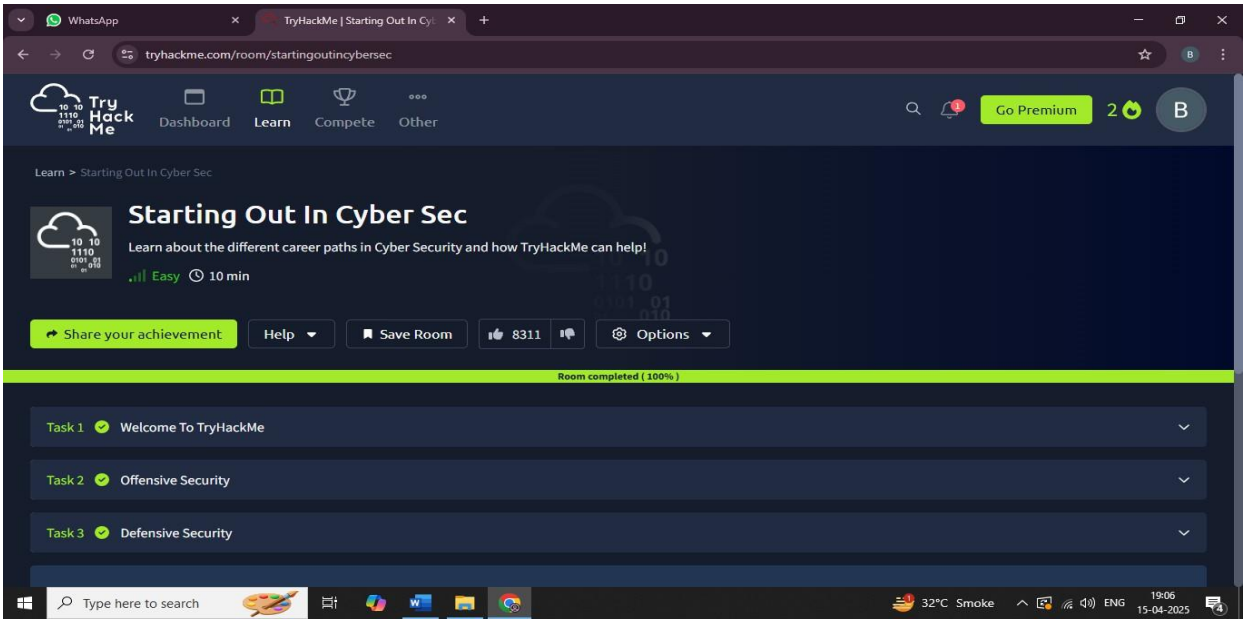
🔍 Walkthrough / How You solved it :

- Started the Room to begin the room and read through the introductory materials.
- Explored basic cybersecurity principles and the importance of security in the digital world.
- Read about various career options in cybersecurity and the skills required for each.
- Followed the room's instructions, answered the questions, and submitted the responses to finish the room.

📝 Reflection or Notes :

- **Clear Path Overview –** The room provided a helpful introduction to TryHackMe's Beginner Path and its structure.
- **Platform Familiarity** – Improved my ability to navigate TryHackMe, deploy machines, and track my learning progress**.**
- **Confidence in Progression –** Gained a clear understanding of the topics to be covered, which builds confidence to proceed.
- **Strong Foundation –** The room highlighted the importance of mastering basics before advancing to more complex topics**.**

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



TryHackMe Room : Introduction to Research

🎯 Learning Objectives:

The "**Introduction to Research**" room teaches how to conduct effective research for cybersecurity purposes. It covers using search engines, public databases, and resources to gather data for investigations. The room introduces common research techniques for vulnerability discovery and staying informed on emerging cybersecurity trends.

🛠 Key Tools/Commands Used:

- Google Dorking & Search Operators
- WHOIS Lookup & Nslookup
- VirusTotal

🧠 Concept Learned :

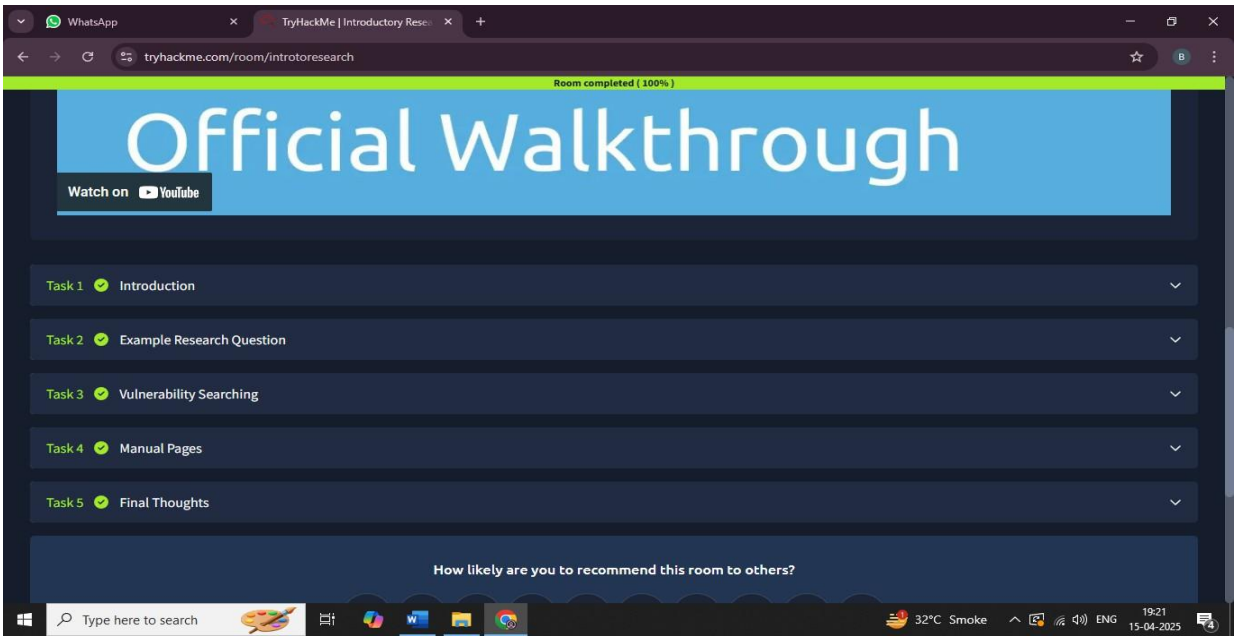
- Learned how to search smartly using advanced techniques and tools.
- Understood how to collect data about websites, domains, and IP addresses.
- Explored tools like Shodan, VirusTotal, and WHOIS for open-source intelligence.
- Gained skills in using search operators to refine and speed up research.

🔍 Walkthrough / How You solved it :

- Started the Room to begin the room and read through the introductory materials and understand the tools and concepts explained.
- Practiced Google Dorking by useing search operators like site: and filetype: to find specific results.
- Performed Lookups by useing WHOIS and Nslookup tools to gather domain and DNS information.
- Explored platforms like Shodan and VirusTotal to analyze IPs, domains, and files.
- Completed all tasks and submit correct answers.

Reflection or Notes :

- **Used public tools for information gathering –** Learned to collect useful data from open sources.
- **Practiced OSINT tools –** Gained hands-on experience with WHOIS, Shodan, and VirusTotal.
- **Improved search skills –** Used Google Dorking to find specific and hidden information online.
- **Understood the role of research in cybersecurity** – Realized how research supports threat analysis and investigations.



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