🛡️ Cybersecurity Internship Report

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Cybersecurity Internship Assignment — TryHackMe Introductory Labs

1. ✅ **Room Name :** Hello World
Link: https://tryhackme.com/room/hello

🎯 **Learning Objective:**
To get introduced to TryHackMe, understand how the platform works, and navigate through the interface effectively.

🛠️ **Key Tools/Commands Used:**
TryHackMe Web Interface

🧠 **Concepts Learned:**
- TryHackMe's layout and platform design
- Task-based progression system
- Launching and accessing virtual machines (VMs)

🔍 **Walkthrough / How You Solved It:**
- Logged into TryHackMe and joined the Hello World room
- Read through each section and followed the instructions
- Observed how tasks are marked as complete
I deployed my first virtual machine. I pasted an IP in the attack box browser and got a flag:
flag{connection_verified}

💡 **Reflections or Notes:**
A beginner-friendly room that builds comfort with the TryHackMe interface.

2.
✅ **Room Name:** How to use TryHackMe
Link: https://tryhackme.com/room/howtousetryhackme

🎯 **Learning Objective:**
To explore how to interact with rooms, tasks, VMs, and hints within TryHackMe.

🛠 **Key Tools/Commands Used:**
on the Terminal we us the command: ls
cd testdir
cat hello.txt
TryHackMe Interface

🧠 **Concepts Learned:**
- Split screen feature
- Starting/Stopping rooms
- Reading hints and marking progress
I learned how to see list of available folders on the linux system, Also learned how to change directory and move into different folders. I also learned how to read the contect of a text file.

🔍 **Walkthrough / How You Solved It:**
- Explored the platform layout and started the VM
- Completed all interactive questions and notes
on the Terminal we us the command: ls to list the current folders. cd testdir to move into the folder. cat hello.txt is used to read the content of the file

💡 **Reflections or Notes:**
Helpful for understanding the structure of challenges. Sets expectations clearly for beginners.
I was able to have the understanding of how linux command line interface work and practice with it.

3.
✅ **Room Name:** Getting Started
Link: https://tryhackme.com/room/gettingstarted

🎯 **Learning Objective:**
To configure the basic system environment and learn how VPN works for secure lab access.
Get started with TryHackMe by hacking a fake social media website!
 Learn about rooms in THM and how to complete them
 Learn how to launch a VM and access a website it serves
 Learn how to exploit a simple vulnerability in a website

⚒ Key Tools/Commands Used:
- OpenVPN
- Terminal/Command Line

🧠 Concepts Learned:
how to get hidden information in websites
- VPN connection using .ovpn files
- Testing connectivity with ping

🔍 Walkthrough / How You Solved It:
- Installed OpenVPN and downloaded configuration files
- Connected successfully and verified using ping and task checks
open the website bff, used the view page source option to view the website program and found the hidden source

💡 Reflections or Notes:
Essential room for hands-on setup. Faced minor connectivity challenges but resolved with community support.

4.
✅ Room Name: Welcome
Link: https://tryhackme.com/room/welcome

🎯 Learning Objective:
To welcome users and provide a roadmap to different TryHackMe learning paths.

⚒ Key Tools/Commands Used:
None (Informational only)

🧠 Concepts Learned:
- Different learning paths available on TryHackMe
- Structure and flow of the platform

🔍 Walkthrough / How You Solved It:
- Navigated the welcome content
- Explored links to Beginner and Offensive Security paths

💡 Reflections or Notes:
Good motivational and roadmap-based content. Helps set direction.

5.
✅ **Room Name:** TryHackMe Tutorial
Link: https://tryhackme.com/room/tutorial

🎯 **Learning Objective:**
To gain practical exposure to using TryHackMe machines, answering tasks, and solving basic labs.

🛠 **Key Tools/Commands Used:**
Linux Terminal (ls, cd, cat)

🧠 **Concepts Learned:**
- Navigating Linux directories
- File listing and basic commands

🔍 **Walkthrough / How You Solved It**:
- Used built-in VM and terminal
- Solved tasks using Linux commands
- Completed challenges using file inspection

💡 **Reflections or Notes:**
Fun and interactive! Reinforced my Linux basics and showed how tasks can be hands-on.

6.
✅ **Room Name:** OpenVPN Configuration
Link: https://tryhackme.com/room/openvpn

🎯 **Learning Objective:**
To properly configure OpenVPN for accessing external machines on TryHackMe.

🛠 **Key Tools/Commands Used:**
- OpenVPN
- Terminal

🧠 **Concepts Learned:**
- How VPN tunnels are established
- Troubleshooting VPN connection errors

🔍 **Walkthrough / How You Solved It:**
- Followed exact steps for OpenVPN installation
- Used .ovpn config to connect
- Verified with ifconfig and ping

We navigated to a tab called Access to download the config file we are going to use. I open the openvpn site to download the Gui application and installed, then import the config file downloaded earlier and I am connected to the network using the windows system. Also learned how to deploy the same on both Mac os and Linux.
 Deployed a virtual machine
 flag{connection_verified}

💡 **Reflections or Notes:**
A crucial setup step. Had to retry connection twice due to DNS issues.

7.
✅ **Room Name:** Beginner Path Introduction
https://tryhackme.com/room/beginnerpathintro

🎯 **Learning Objective:**
To introduce the structured "Beginner Path" in TryHackMe and its benefits.

🛠️ **Key Tools/Commands Used:**
None (Informational only)

🧠 **Concepts Learned:**
- The roadmap for beginners in cybersecurity
- Overview of topics like networking, Linux, and hacking
To attack web applications, you need to understand how they work. Hacking websites isn't some magical process but does come down to knowing how a part of a website functions and being able to identify weaknesses to take advantage of. Once you have a good understanding of the fundamentals, you'll learn about the techniques and tools used in hacking sites. If something is vulnerable, it means there is the possibility of it being attacked or harmed. If an application or system has a vulnerability, there is something that can be attacked or taken advantage of (a weakness). We also learned about Networking. Networking is really important to understand in cyber security. From scanning and identifying who and what is on a network, to reviewing network logs to monitor and track what users have been up to will require you to have an understanding of how networks work. TryHackMe's Complete Beginner learning path will walk you through the networking concepts and give you enough knowledge to get started in your cyber security journey.

🔍 **Walkthrough / How You Solved It:**
- Read through the room content
- Explored path topics and linked rooms
The first task was to hack a website and reset the account password of a user. Use the username of the victim to trigger a password reset. Guessed the 4 digit code sent to the user by using the Web requester brute force tool to match possible number to access the account.

💡 **Reflections or Notes:**
This path makes the learning organized. Motivated to complete the entire Beginner Path. We must know how webserver, website and networks work so as to better understand defending them from cyber attacks.

8.
✅ **Room Name**: Starting Out in Cyber Security
Link: https://tryhackme.com/room/startingoutincybersec

🎯 **Learning Objective:**
To explore different career roles and skills in cybersecurity.

🛠 **Key Tools/Commands Used:**
None

🧠 **Concepts Learned:**
- Red Team vs Blue Team roles
- Cybersecurity specializations (Penetration Testing, SOC Analyst, etc.)
- Soft skills required

🔍 **Walkthrough / How You Solved It:**
- Completed the interactive Q&A format tasks
- Explored job role breakdowns with examples

💡 **Reflections or Notes:**
Great insight into the real-world cybersecurity field. Helped confirm my interest in penetration testing.

9.
✅ **Room Name:** Introduction to Research
Link: https://tryhackme.com/room/introtoresearch

🎯 **Learning Objective:**
To develop research skills in cybersecurity, especially when solving problems or learning new tools.

🛠 **Key Tools/Commands Used:**
- Google
- Online forums (Reddit, StackOverflow, TryHackMe Discord)
Vulnerability Searching tools
Linux Manual Pages
Steghide
steghide info file

steghide extract –sf file

Sudo apt-get install <package name>

Repeater

 cron jobs

 ntlm

 base 16

sha312crypt

exploitdb

nvd

cve

searchsploit

 man nc -l -p 12345

-b

 -l

-r

 google dorking

🧠 **Concepts Learned:**

- How to perform cybersecurity-related research
- Using the right keywords and sources

🔍 **Walkthrough / How You Solved It:**

- Followed practical scenarios and researched online
- Completed tasks by finding external resources

💡 **Reflections or Notes:**

This room taught how to be self-sufficient and resourceful—key for any cybersecurity
learner.

Congratulations on completing Introductory Researching!!! 🎉

Points earned	Completed tasks	Room type	Difficulty	Streak
✥ 104	✓ 5	🖧 Walkthrough	▂▃▅ Easy	🔥 1

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Next

Activate Windows
Go to Settings to activate Windows.