Cybersecurity Internship Assignment

TryHackMe Introductory Labs

Table of Contents

Hello World 2
How to Use TryHackMe 4
Getting Started 6
TryHackMe Tutorial 8
OpenVPN Configuration 10
Beginner Path Introduction 12
Starting Out in Cyber Security 14
Introduction to Research 16

Hello World

✅ Room Name and Link

Hello World – https://tryhackme.com/room/hello

🎯 Learning Objective

Understand the basic structure of TryHackMe rooms and get familiar with how tasks and questions work on the platform.

🛠️ Key Tools/Commands Used

- No tools required
- Just a web browser and the TryHackMe interface

🧠 Concepts Learned

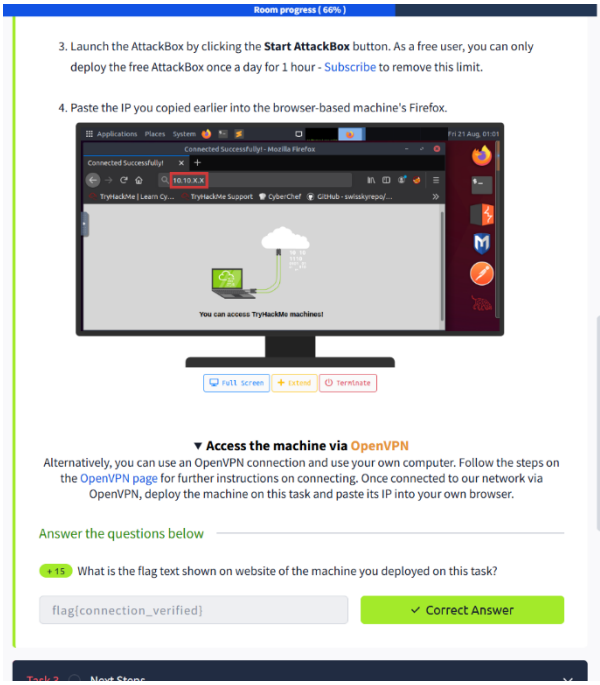
- How to navigate and interact with TryHackMe rooms
- Structure of rooms: tasks, questions, flags
- Importance of reading instructions carefully
- Basic idea of virtual machines used for challenges

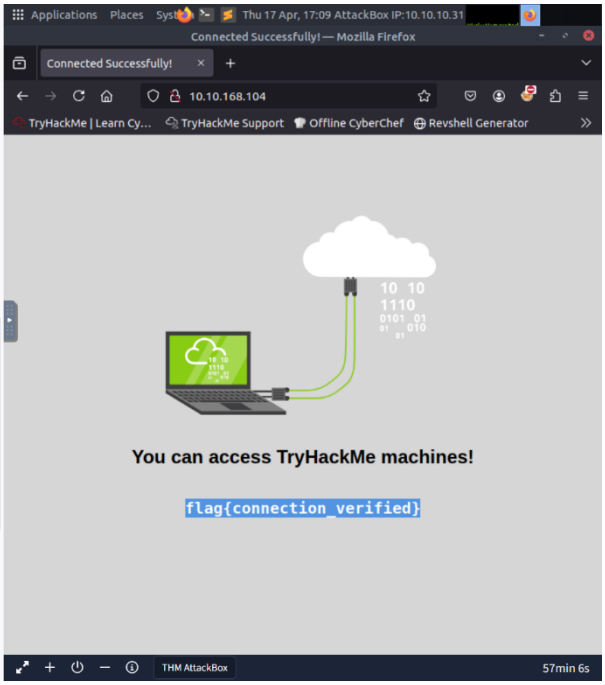
🔍 Walkthrough / How You Solved It

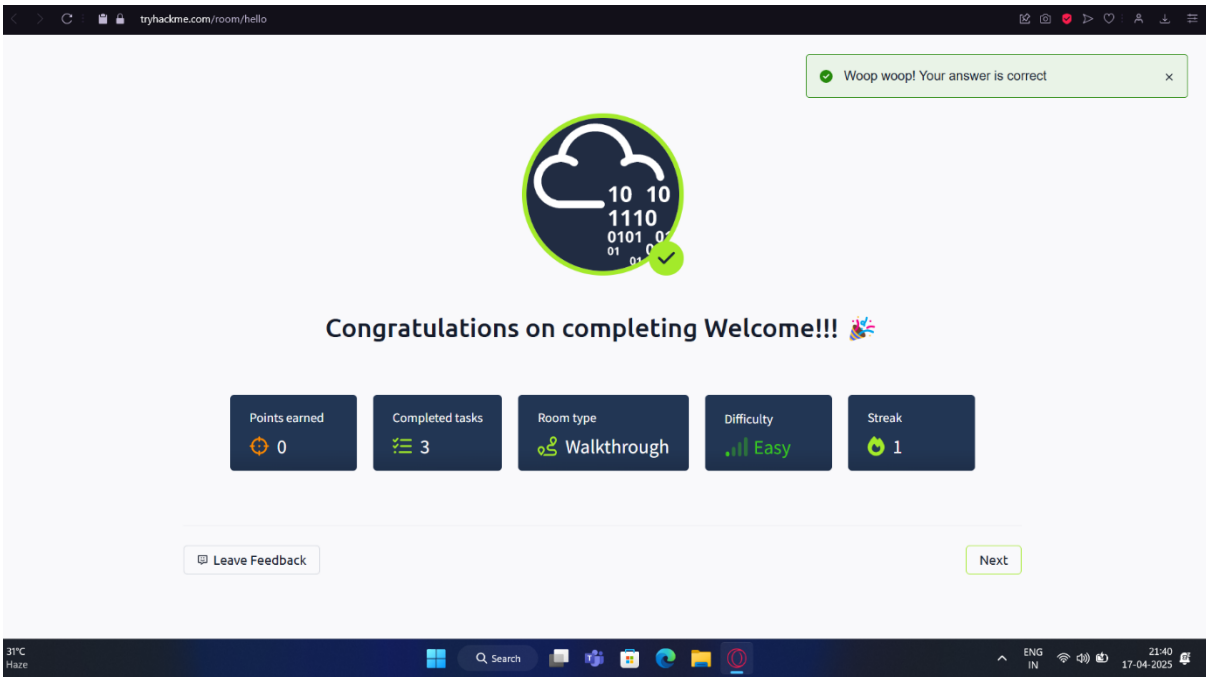
1. Opened the room and read the introductory material.
2. Went through each task step-by-step, clicking "complete" after reading.
3. Answered a simple question: “What is the flag?”
    - Used the deployed machine to find and submit the flag as instructed.

💡 Reflections or Notes

- A great starting point to understand the TryHackMe platform.
- No technical difficulty, but a useful introduction to the process.
- Sets expectations for future rooms—flag format, VM usage, and structure.


Room progress (66%)
3. Launch the AttackBox by clicking the Start AttackBox button. As a free user, you can only deploy the free AttackBox once a day for 1 hour - Subscribe to remove this limit.
4. Paste the IP you copied earlier into the browser-based machine's Firefox.
You can access TryHackMe machines!
Full Screen
Extend
Terminate
▼ Access the machine via OpenVPN
Alternatively, you can use an OpenVPN connection and use your own computer. Follow the steps on the OpenVPN page for further instructions on connecting. Once connected to our network via OpenVPN, deploy the machine on this task and paste its IP into your own browser.
Answer the questions below
+15 What is the flag text shown on website of the machine you deployed on this task?
flag{connection_verified}
✓ Correct Answer


Applications Places System
Thu 17 Apr, 17:09 AttackBox IP:10.10.10.31
Connected Successfully! — Mozilla Firefox
Connected Successfully!
10.10.168.104
TryHackMe | Learn Cy...
TryHackMe Support
Offline CyberChef
Revshell Generator
You can access TryHackMe machines!
flag{connection_verified}
THM AttackBox
57min 6s


tryhackme.com/room/hello
Woop woop! Your answer is correct
Congratulations on completing Welcome!!!
Points earned 0
Completed tasks 3
Room type Walkthrough
Difficulty Easy
Streak 1
Leave Feedback
Next
31°C Haze
Search
ENG IN
21:40 17-04-2025

How to Use TryHackMe

✅ Room Name and Link

How To Use TryHackMe – https://tryhackme.com/room/howtousetryhackme

🎯 Learning Objective

Learn how to navigate the TryHackMe platform, use the in-browser virtual machines, and complete room tasks effectively.

🛠️ Key Tools/Commands Used

- In-browser terminal access
- Web-based virtual machine (VM)
- Navigation through the TryHackMe interface

🧠 Concepts Learned

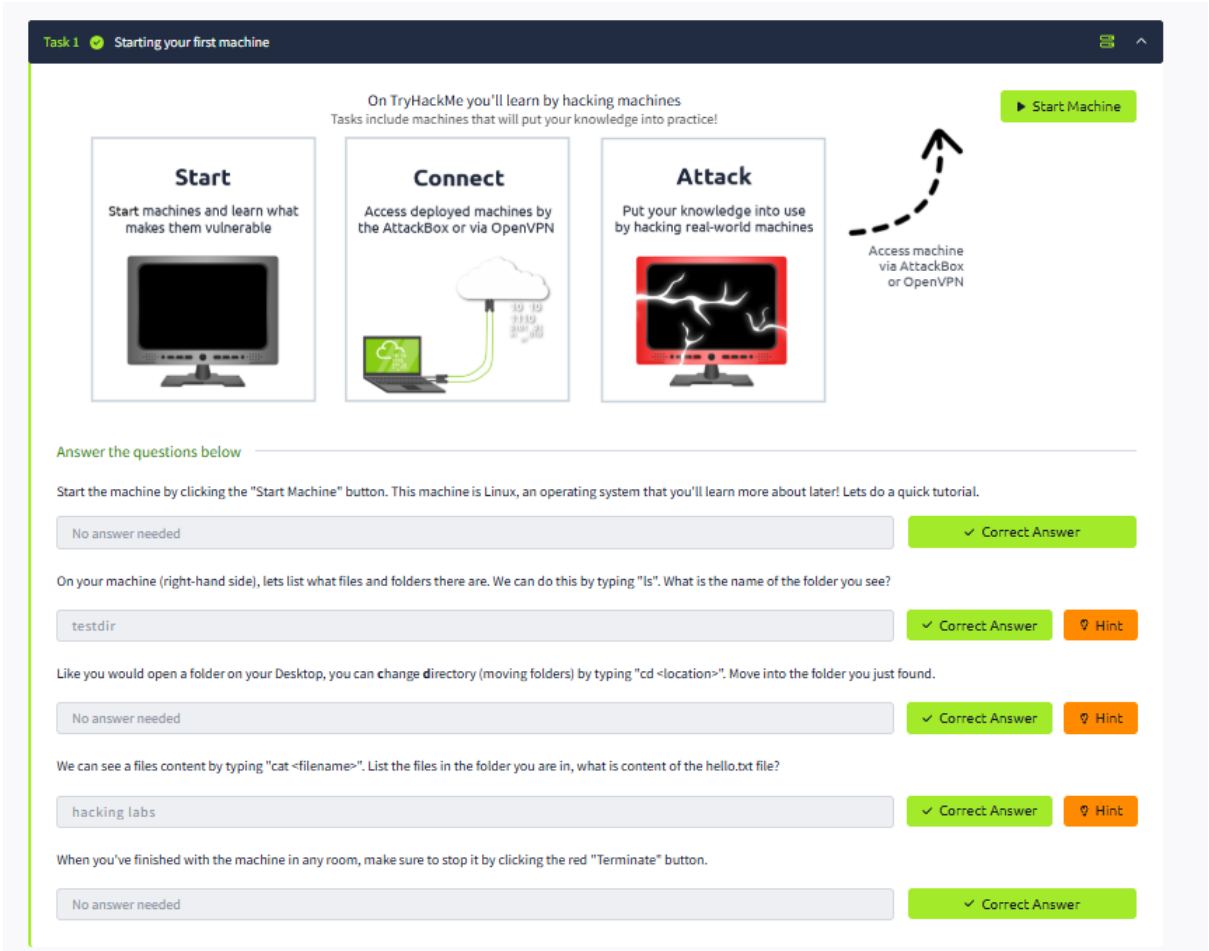
- How to deploy and access virtual machines
- How to use the split interface (task instructions + VM side-by-side)
- Basics of completing tasks: reading content, submitting answers
- How to interact with terminal-based environments through the browser

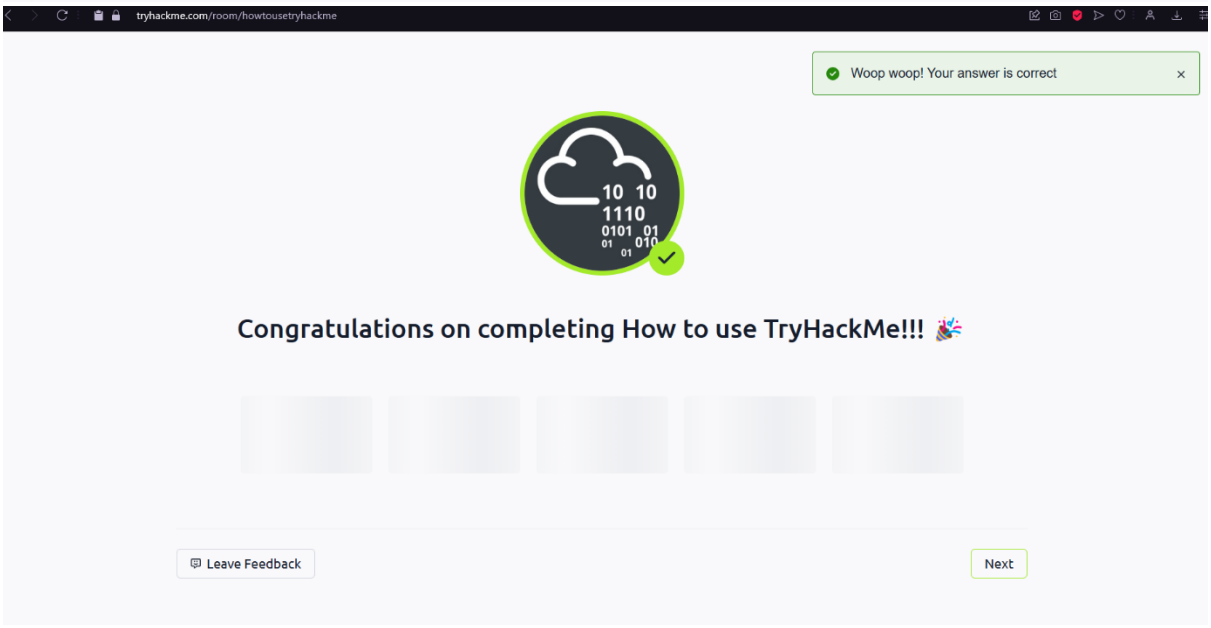
🔍 Walkthrough / How You Solved It

1. Deployed the machine using the green "Start Machine" button.
2. Followed each task sequentially, reading through the explanations provided.
3. Learned to interact with the virtual machine directly in the browser.
4. Used hints provided when needed to answer the questions correctly.
5. Completed the room by answering all the quiz-style questions and understanding how to progress through rooms.

💡 Reflections or Notes

- Very helpful for first-time users to understand the platform features.
- The visual guide makes it easier to grasp the flow of learning and solving rooms.
- Reinforces the idea that TryHackMe is interactive, hands-on, and beginner-friendly.


Task 1 Starting your first machine
On TryHackMe you'll learn by hacking machines
Tasks include machines that will put your knowledge into practice!
Start Machine
Start
Start machines and learn what makes them vulnerable
Connect
Access deployed machines by the AttackBox or via OpenVPN
Attack
Put your knowledge into use by hacking real-world machines
Access machine via AttackBox or OpenVPN
Answer the questions below
Start the machine by clicking the "Start Machine" button. This machine is Linux, an operating system that you'll learn more about later! Lets do a quick tutorial.
No answer needed
Correct Answer
On your machine (right-hand side), lets list what files and folders there are. We can do this by typing "ls". What is the name of the folder you see?
testdir
Correct Answer
Hint
Like you would open a folder on your Desktop, you can change directory (moving folders) by typing "cd <location>". Move into the folder you just found.
No answer needed
Correct Answer
Hint
We can see a files content by typing "cat <filename>". List the files in the folder you are in, what is content of the hello.txt file?
hacking labs
Correct Answer
Hint
When you've finished with the machine in any room, make sure to stop it by clicking the red "Terminate" button.
No answer needed
Correct Answer


tryhackme.com/room/howtousetryhackme
Woop woop! Your answer is correct
Congratulations on completing How to use TryHackMe!!!
Leave Feedback
Next

Getting Started

✅ Room Name and Link

Getting Started – https://tryhackme.com/room/gettingstarted

🎯 Learning Objective

Get introduced to core cybersecurity concepts, including networking basics and how to navigate a Linux environment via the command line.

🛠️ Key Tools/Commands Used

- ls, cd, pwd – navigating the filesystem
- cat, less – reading file contents
- In-browser terminal and virtual machine access

🧠 Concepts Learned

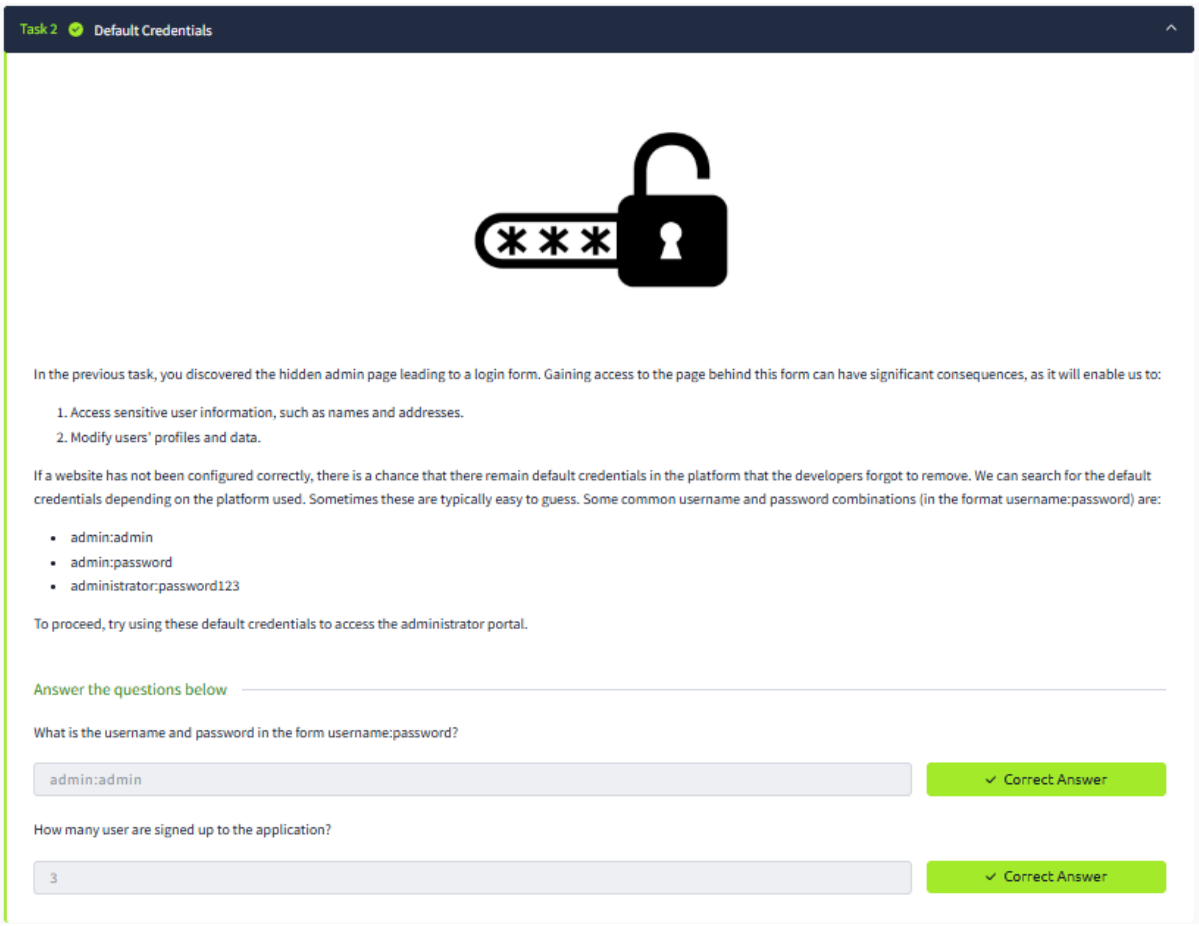
- Fundamental Linux navigation commands
- Difference between files and directories
- Understanding IP addresses and ports
- How to interact with and navigate a VM environment on TryHackMe

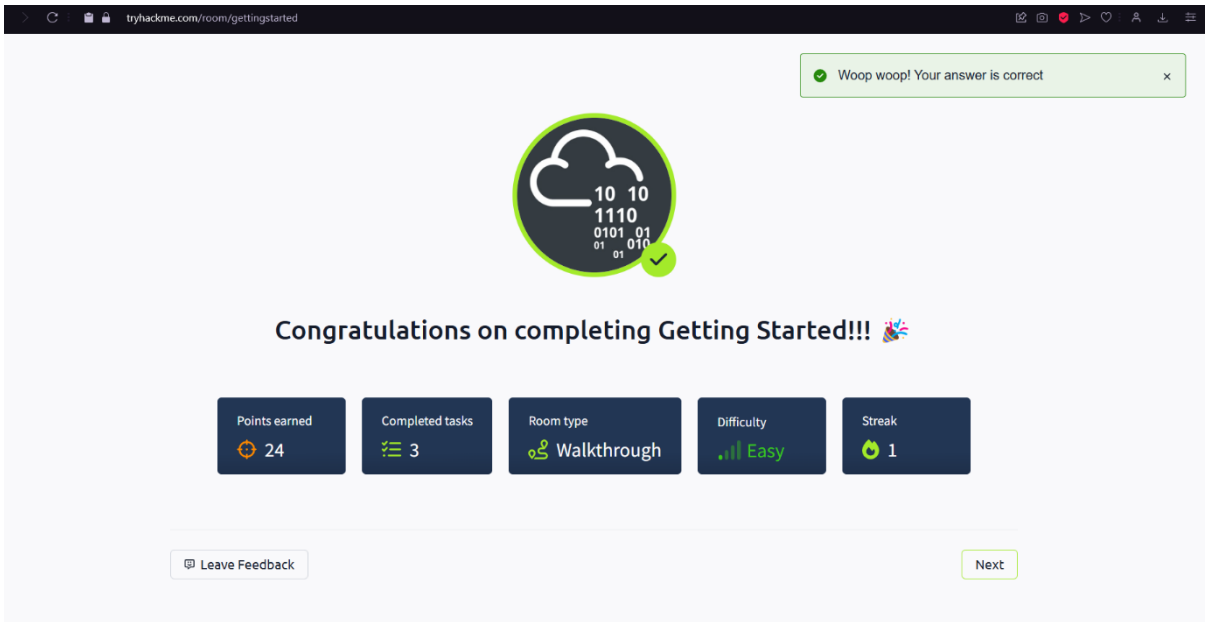
🔍 Walkthrough / How You Solved It

1. Started the room and deployed the virtual machine.
2. Followed the Linux command-line instructions to move through directories and view files.
3. Learned about the structure of IP addresses and how ports are used to communicate.
4. Used the terminal to explore and answer task questions by reading files and navigating the system.
5. Submitted flags and completed the room step-by-step as tasks were solved.

💡 Reflections or Notes

- A solid foundation for newcomers to get comfortable with terminal use and basic networking ideas.
- Reinforced how important it is to understand command-line navigation for future rooms.
- Helped build confidence in exploring and using the TryHackMe virtual machines.


Task 2 Default Credentials
In the previous task, you discovered the hidden admin page leading to a login form. Gaining access to the page behind this form can have significant consequences, as it will enable us to:
1. Access sensitive user information, such as names and addresses.
2. Modify users' profiles and data.
If a website has not been configured correctly, there is a chance that there remain default credentials in the platform that the developers forgot to remove. We can search for the default credentials depending on the platform used. Sometimes these are typically easy to guess. Some common username and password combinations (in the format username:password) are:
admin:admin
admin:password
administrator:password123
To proceed, try using these default credentials to access the administrator portal.
Answer the questions below
What is the username and password in the form username:password?
admin:admin
Correct Answer
How many user are signed up to the application?
3
Correct Answer


tryhackme.com/room/gettingstarted
Woop woop! Your answer is correct
Congratulations on completing Getting Started!!! 🎉
Points earned
24
Completed tasks
3
Room type
Walkthrough
Difficulty
Easy
Streak
1
Leave Feedback
Next

TryHackMe Tutorial

✅ Room Name and Link

Tutorial – https://tryhackme.com/room/tutorial

🎯 Learning Objective

Understand how to complete rooms, interact with the platform, and get a basic introduction to cybersecurity topics like enumeration and flag collection.

🛠️ Key Tools/Commands Used

- In-browser VM access
- ls, cd, cat – basic Linux commands
- ping, whoami – basic network and system identification tools

🧠 Concepts Learned

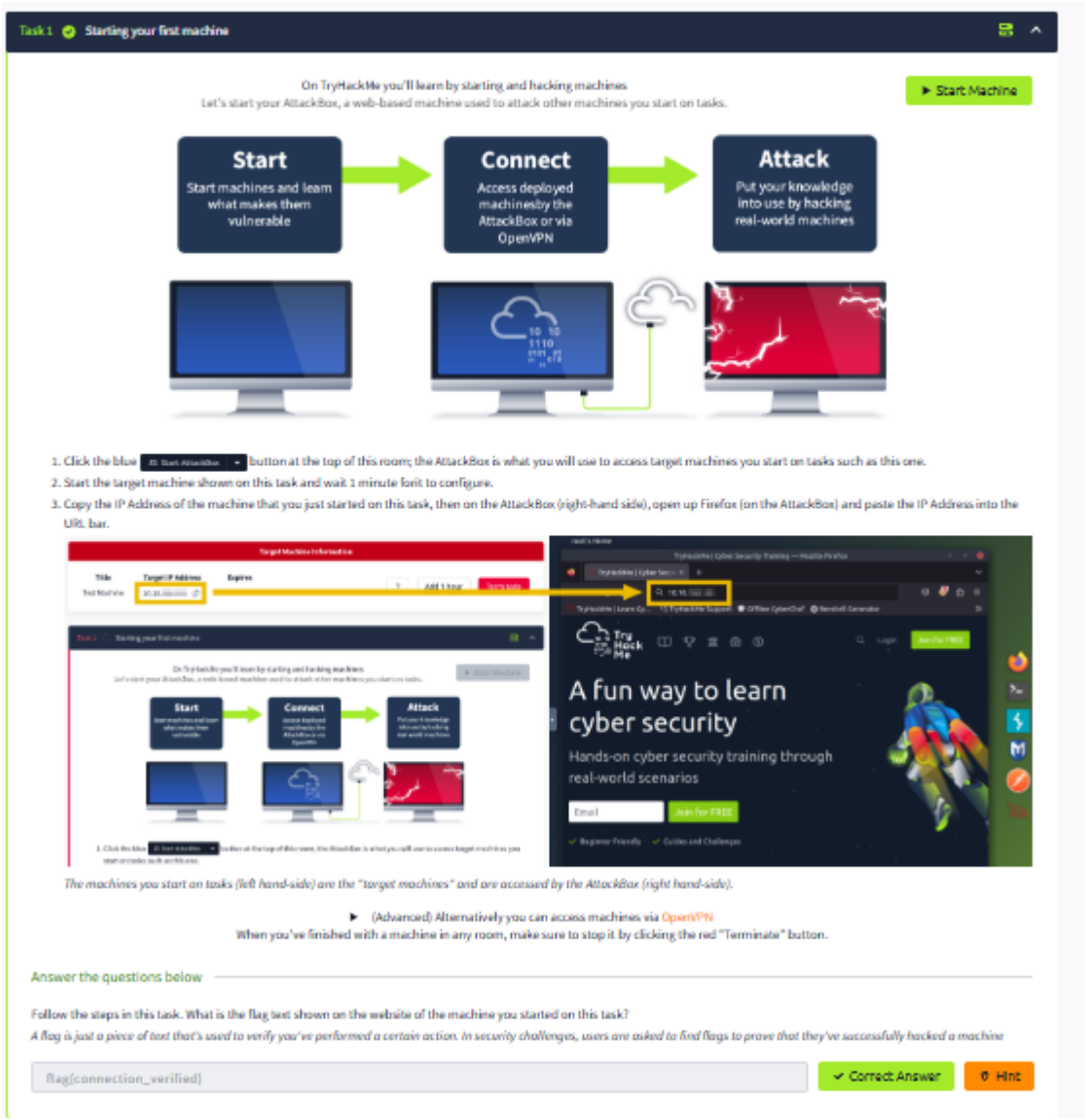
- How to navigate through TryHackMe rooms and complete tasks
- What a "flag" is and how to retrieve it from a machine
- Importance of enumeration and exploring directories for information
- Understanding basic system and network commands

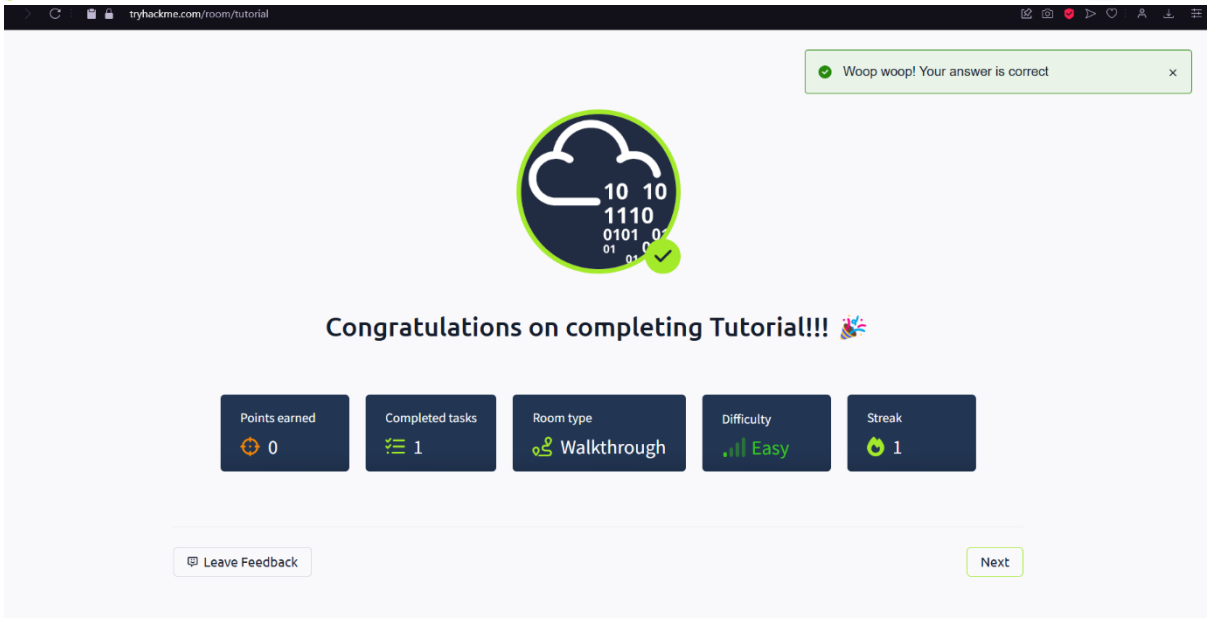
🔍 Walkthrough / How You Solved It

1. Launched the VM provided in the room.
2. Used terminal commands like ls and cat to browse files and read contents.
3. Found and submitted the flag located inside a file on the machine.
4. Learned the structure of how to read, solve, and answer room questions step-by-step.
5. Followed all prompts and hints provided to successfully complete each section.

💡 Reflections or Notes

- A simple yet effective tutorial to build confidence using TryHackMe's platform.
- Helps establish the format of how challenges are structured and how to approach them.
- Reinforces the value of reading carefully, exploring thoroughly, and taking logical steps to solve problems.


Task 1 Starting your first machine
On TryHackMe you'll learn by starting and hacking machines
Let's start your AttackBox, a web-based machine used to attack other machines you start on tasks.
Start Machine
Start
Start machines and learn what makes them vulnerable
Connect
Access deployed machinesby the AttackBox or via OpenVPN
Attack
Put your knowledge into use by hacking real-world machines
1. Click the blue button at the top of this room; the AttackBox is what you will use to access target machines you start on tasks such as this one.
2. Start the target machine shown on this task and wait 1 minute forit to configure.
3. Copy the IP Address of the machine that you just started on this task, then on the AttackBox (right-hand side), open up Firefox (on the AttackBox) and paste the IP Address into the URL bar.
A fun way to learn cyber security
Hands-on cyber security training through real-world scenarios
The machines you start on tasks (left hand-side) are the "target machines" and are accessed by the AttackBox (right hand-side).
(Advanced) Alternatively you can access machines via OpenVPN
When you've finished with a machine in any room, make sure to stop it by clicking the red "Terminate" button.
Answer the questions below
Follow the steps in this task. What is the flag text shown on the website of the machine you started on this task?
A flag is just a piece of text that's used to verify you've performed a certain action. In security challenges, users are asked to find flags to prove that they've successfully hacked a machine
flag{connection_verified}
Correct Answer
Hint


tryhackme.com/room/tutorial
Woop woop! Your answer is correct
Congratulations on completing Tutorial!!!
Points earned 0
Completed tasks 1
Room type Walkthrough
Difficulty Easy
Streak 1
Leave Feedback
Next

OpenVPN Configuration

✅ Room Name and Link

OpenVPN – https://tryhackme.com/room/openvpn

🎯 Learning Objective

Learn how to set up and use OpenVPN to connect to TryHackMe's network from a local machine for completing non-browser-based rooms.

🛠️ Key Tools/Commands Used

- OpenVPN client
- Terminal commands (Linux/macOS) or PowerShell (Windows)
- Download and use of .ovpn config file

🧠 Concepts Learned

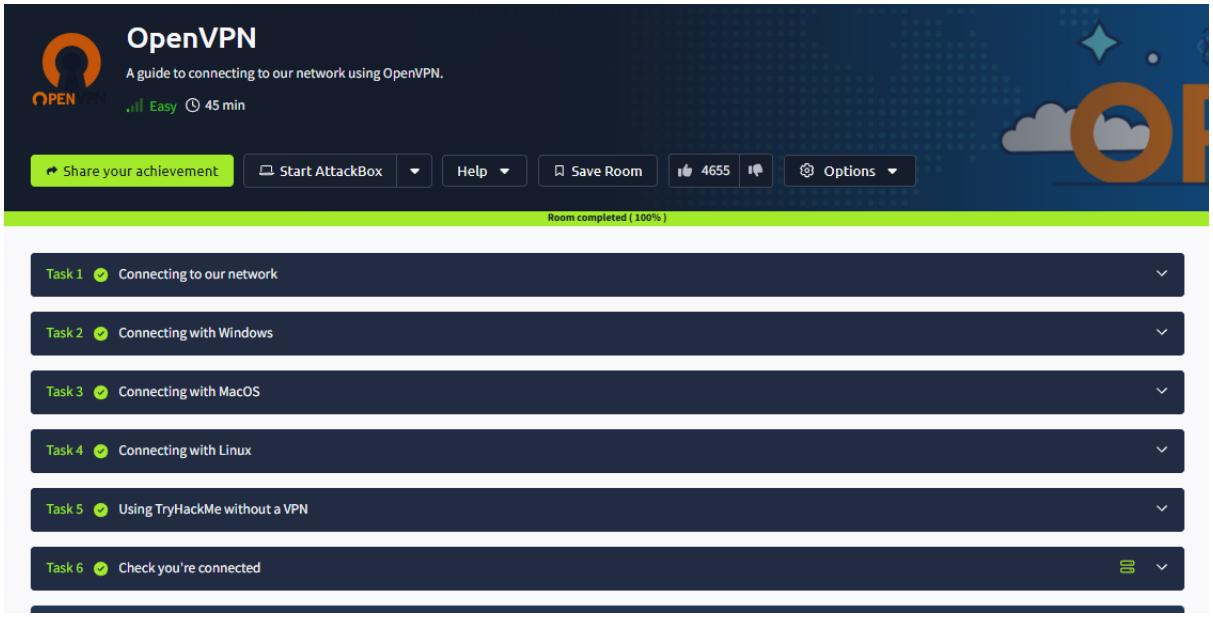
- What OpenVPN is and why it's necessary for connecting to TryHackMe's private network
- How to download and use a VPN configuration file
- Command-line usage of OpenVPN to initiate secure connections
- Difference between browser-based and VPN-required rooms

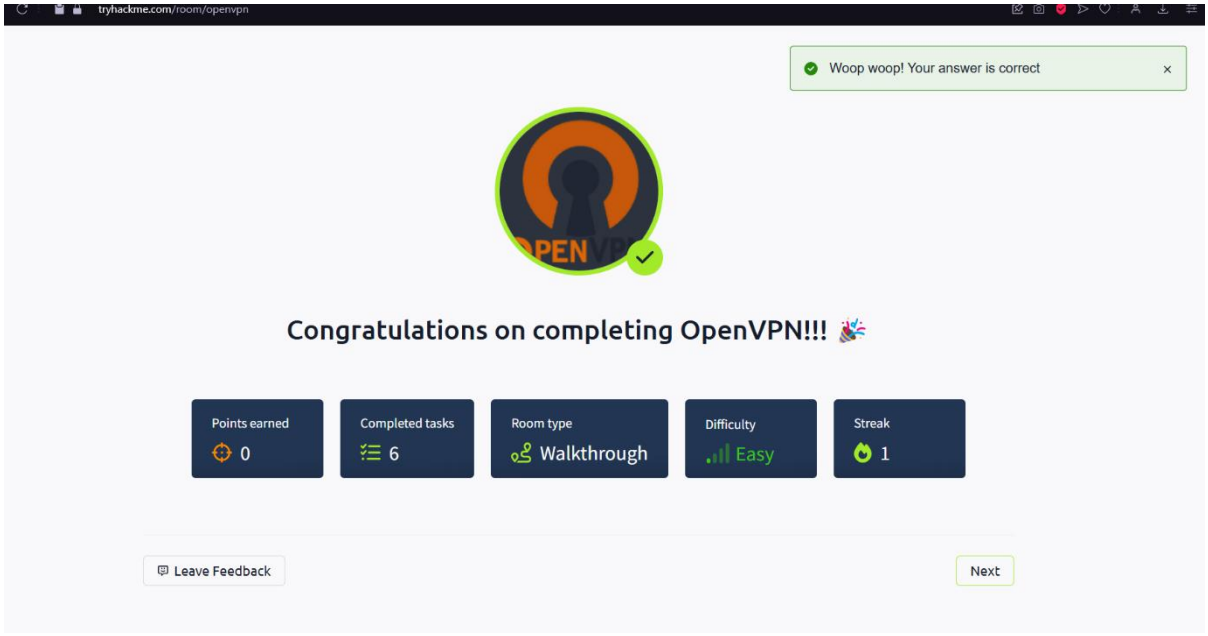
🔍 Walkthrough / How You Solved It

1. Downloaded the personalized OpenVPN configuration file from the TryHackMe Access page.
2. Followed instructions for installing OpenVPN on the local operating system.
3. Used terminal or PowerShell to run sudo openvpn <filename>.ovpn (or equivalent).
4. Verified the VPN connection using ip a or checking TryHackMe's Access page.
5. Understood the difference between in-browser and VPN-required rooms and how to switch between them.

💡 Reflections or Notes

- Essential for progressing beyond beginner rooms and tackling more realistic environments.
- Setup was straightforward with clear instructions, but attention to detail was important.
- Good experience learning how VPN tunnels work in a practical pentesting environment.


OpenVPN
A guide to connecting to our network using OpenVPN.
Easy
45 min
Share your achievement
Start AttackBox
Help
Save Room
4655
Options
Room completed (100%)
Task 1 Connecting to our network
Task 2 Connecting with Windows
Task 3 Connecting with MacOS
Task 4 Connecting with Linux
Task 5 Using TryHackMe without a VPN
Task 6 Check you're connected


tryhackme.com/room/openvpn
Woop woop! Your answer is correct
Congratulations on completing OpenVPN!!!
Points earned
0
Completed tasks
6
Room type
Walkthrough
Difficulty
Easy
Streak
1
Leave Feedback
Next

Beginner Path Introduction

✅ Room Name and Link

Beginner Path Introduction – https://tryhackme.com/room/beginnerpathintro

🎯 Learning Objective

Gain an overview of the TryHackMe Beginner Path, understand what to expect in the journey, and get guidance on how to approach learning cybersecurity through hands-on practice.

🛠️ Key Tools/Commands Used

- No specific tools or commands used
- Mainly informational and platform-based navigation

🧠 Concepts Learned

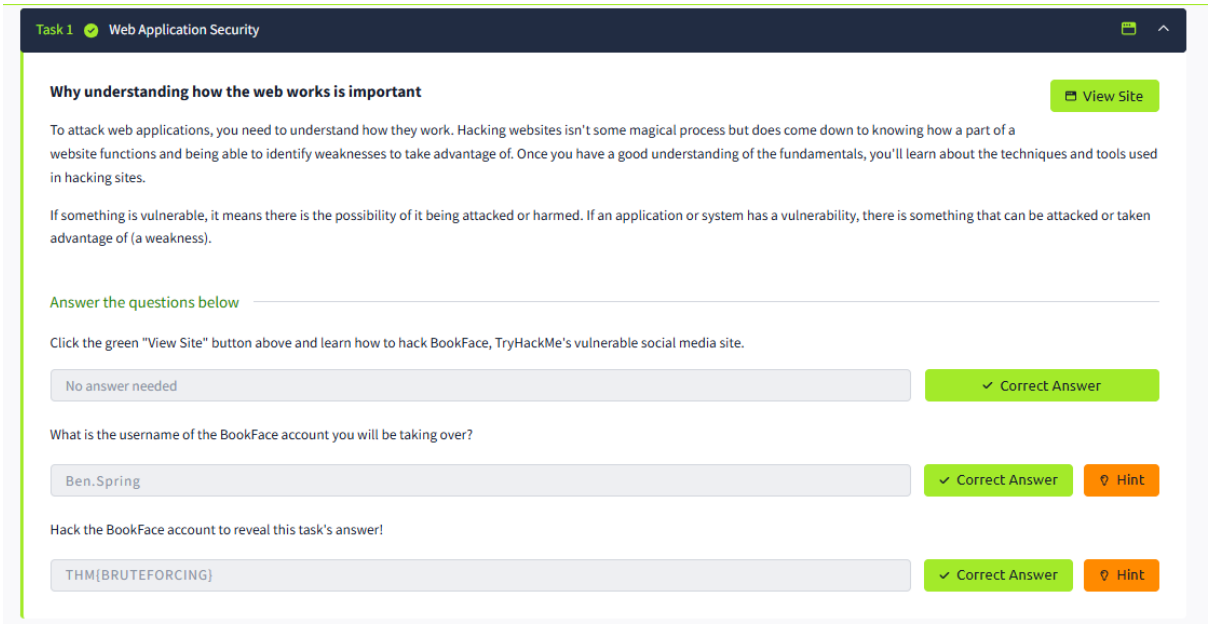
- Structure and purpose of the Beginner Path
- High-level overview of skills and topics to be covered (networking, Linux, web hacking, etc.)
- How to approach learning in a self-paced and structured way
- Importance of hands-on practice and consistency

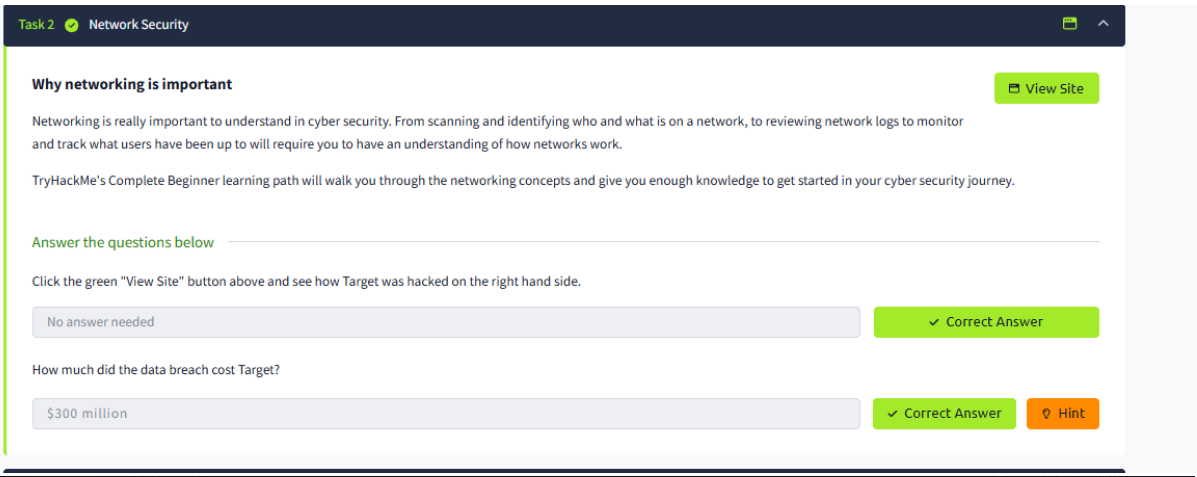
🔍 Walkthrough / How You Solved It

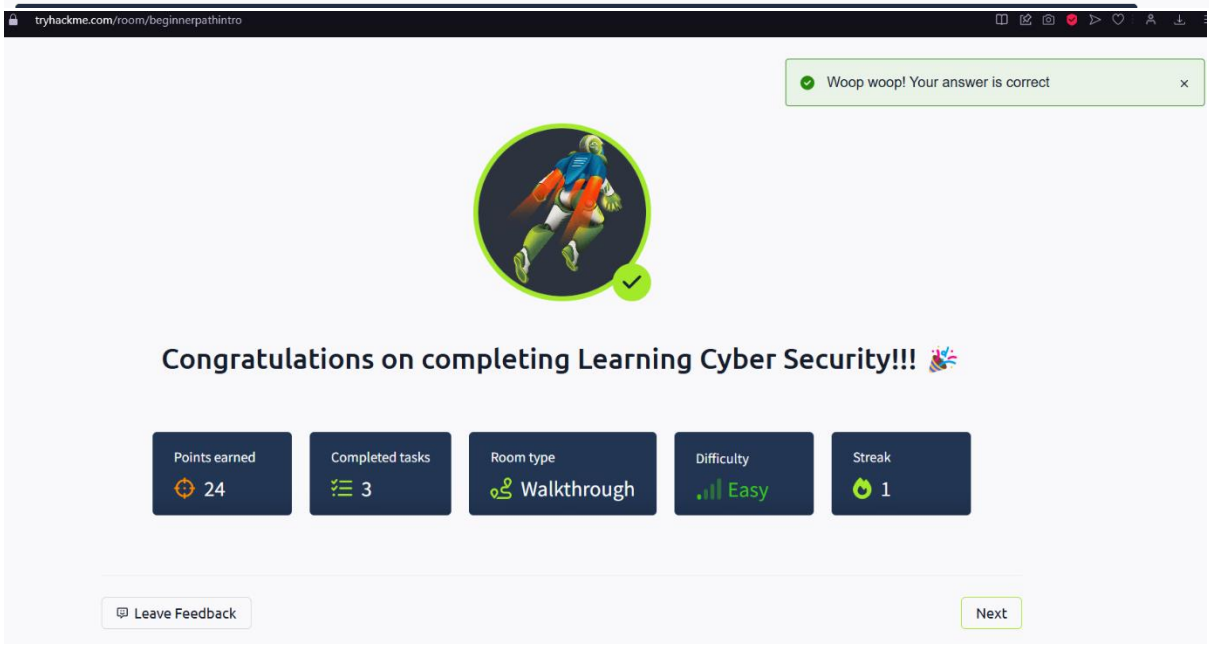
1. Read through the room content to understand the overall roadmap.
2. Noted the breakdown of different rooms and learning milestones in the Beginner Path.
3. Followed guidance on how to tackle each room, complete tasks, and use resources like the community and hints.
4. Marked the room as complete after absorbing the overview and structure.

💡 Reflections or Notes

- A motivating starting point that sets the tone for the path ahead.
- Helpful in aligning expectations and preparing for a logical learning progression.
- Encouraging to see a clear path from beginner to more advanced concepts, reducing overwhelm.


Task 1 Web Application Security
Why understanding how the web works is important
View Site
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).
Answer the questions below
Click the green "View Site" button above and learn how to hack BookFace, TryHackMe's vulnerable social media site.
No answer needed
Correct Answer
What is the username of the BookFace account you will be taking over?
Ben.Spring
Correct Answer
Hint
Hack the BookFace account to reveal this task's answer!
THM{BRUTEFORCING}
Correct Answer
Hint


Task 2 Network Security
Why networking is important
View Site
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.
Answer the questions below
Click the green "View Site" button above and see how Target was hacked on the right hand side.
No answer needed
Correct Answer
How much did the data breach cost Target?
$300 million
Correct Answer
Hint


tryhackme.com/room/beginnerpathintro
Woop woop! Your answer is correct
Congratulations on completing Learning Cyber Security!!!
Points earned
24
Completed tasks
3
Room type
Walkthrough
Difficulty
Easy
Streak
1
Leave Feedback
Next

Starting Out in Cyber Security

✅ Room Name and Link

Starting Out in Cyber Security – https://tryhackme.com/room/startingoutincybersec

🎯 Learning Objective

Explore the different areas within cybersecurity and understand how to get started in the field, including career paths, required skills, and learning strategies.

🛠️ Key Tools/Commands Used

- No technical tools used
- Focused on reading and understanding foundational concepts

🧠 Concepts Learned

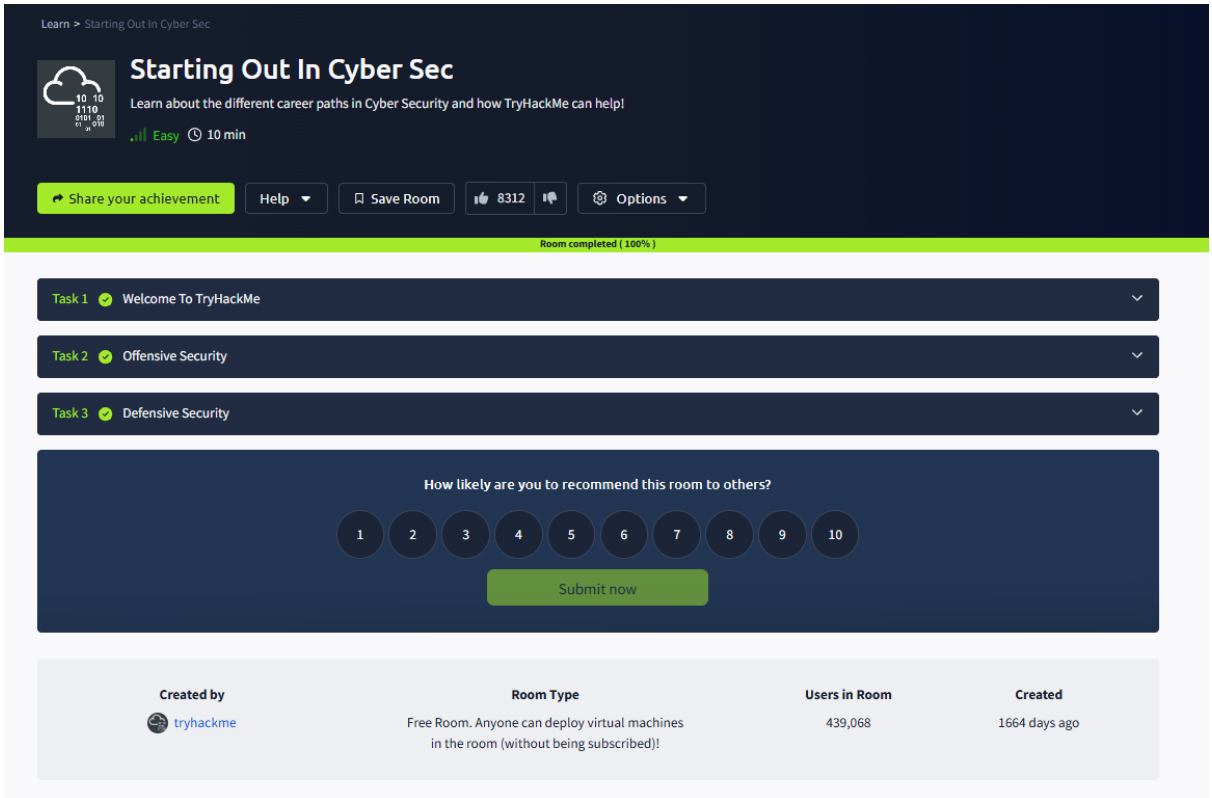
- Overview of various roles in cybersecurity (e.g., penetration tester, SOC analyst, etc.)
- Key skills and knowledge areas needed to enter the field
- Importance of hands-on learning and continuous education
- How platforms like TryHackMe help build real-world skills
- General tips and resources for starting a career in cyber

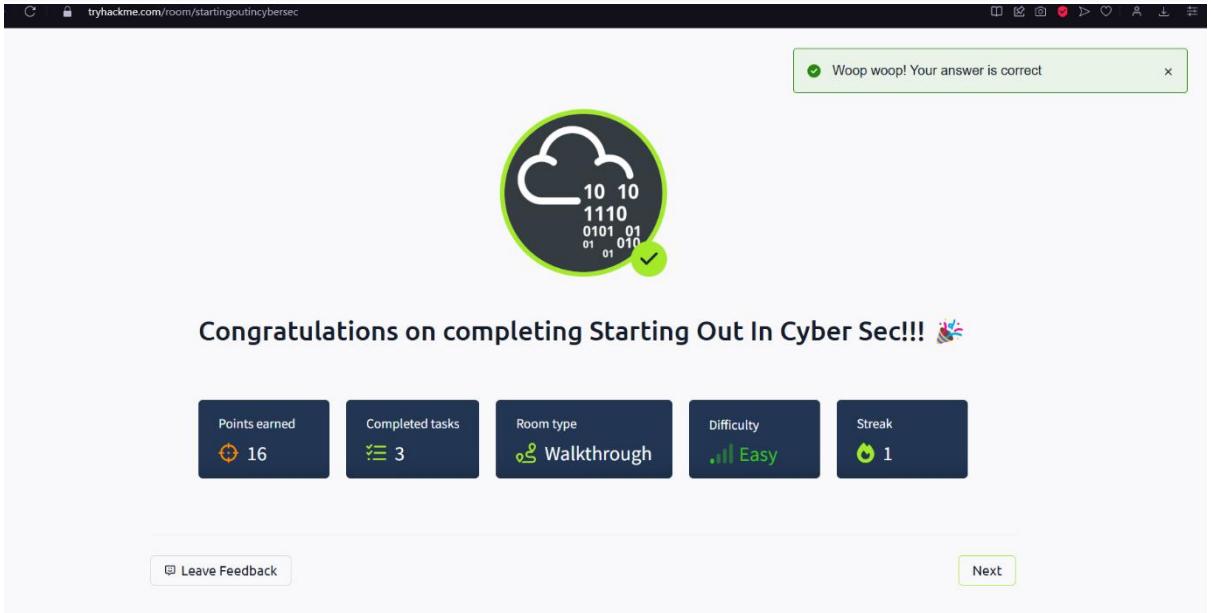
🔍 Walkthrough / How You Solved It

1. Read through each task carefully, noting the breakdown of career paths and required skills.
2. Explored the different areas of cybersecurity to get a sense of what aligns with personal interests.
3. Understood the value of certifications, projects, and platforms for skill-building.
4. Reflected on how to create a personalized roadmap for getting into cybersecurity.
5. Completed all reading-based tasks to finish the room.

💡 Reflections or Notes

- Very informative for beginners unsure where to start or what role to pursue.
- Helped clarify the diversity within cybersecurity and showed that there's a path for everyone.
- Motivated to start learning hands-on and slowly specialize based on interests.


Learn > Starting Out In Cyber Sec
Starting Out In Cyber Sec
Learn about the different career paths in Cyber Security and how TryHackMe can help!
Easy
10 min
Share your achievement
Help
Save Room
8312
Options
Room completed (100%)
Task 1 Welcome To TryHackMe
Task 2 Offensive Security
Task 3 Defensive Security
How likely are you to recommend this room to others?
1 2 3 4 5 6 7 8 9 10
Submit now
Created by
tryhackme
Room Type
Free Room. Anyone can deploy virtual machines in the room (without being subscribed)!
Users in Room
439,068
Created
1664 days ago


tryhackme.com/room/startingoutincybersec
Woop woop! Your answer is correct
Congratulations on completing Starting Out In Cyber Sec!!!
Points earned
16
Completed tasks
3
Room type
Walkthrough
Difficulty
Easy
Streak
1
Leave Feedback
Next

Introduction to Research

✅ Room Name and Link

Intro to Research – https://tryhackme.com/room/introtoresearch

🎯 Learning Objective

Learn how to effectively perform cybersecurity research, troubleshoot issues, and find answers independently using trusted resources.

🛠️ Key Tools/Commands Used

- Web search (Google, DuckDuckGo)
- Community platforms (TryHackMe forums, Reddit, Stack Overflow)
- Cybersecurity blogs, cheat sheets, and official documentation

🧠 Concepts Learned

- Importance of self-research in cybersecurity learning
- How to formulate effective search queries
- When and how to use community platforms for help
- Identifying reliable sources of information
- Developing the mindset of problem-solving and independent learning

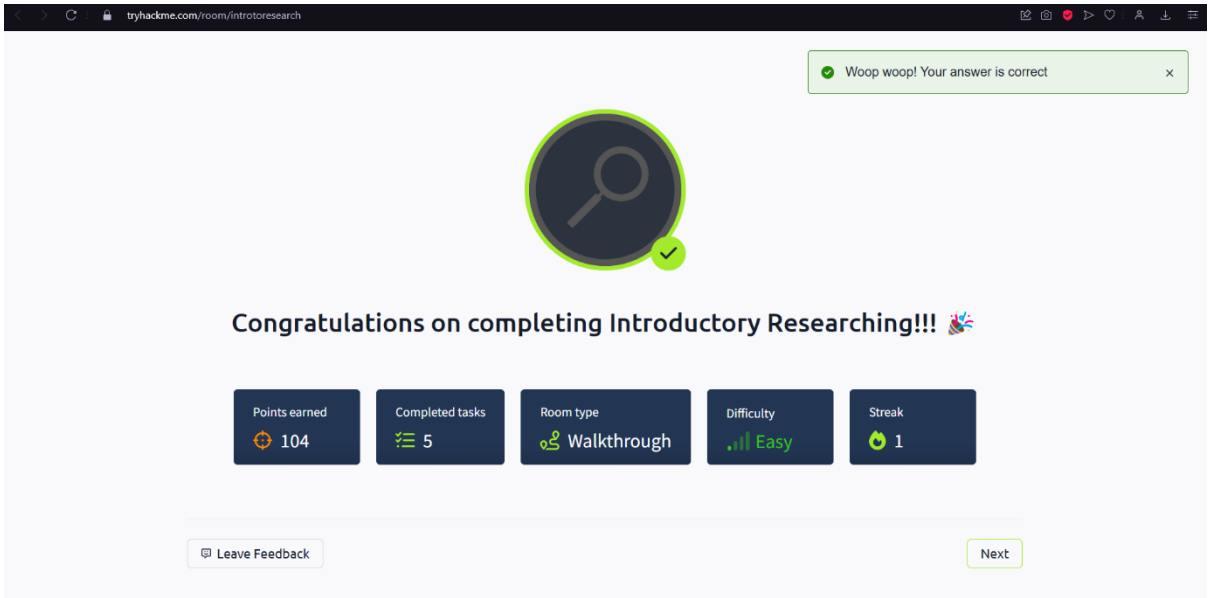
🔍 Walkthrough / How You Solved It

1. Read through the material that emphasized the role of research in cybersecurity.
2. Practiced crafting effective Google search queries for specific technical questions.
3. Learned where to go for help when stuck—forums, cheat sheets, blogs, and documentation.
4. Completed knowledge-check questions that tested understanding of the research approach.
5. Reflected on past experiences of being stuck and how research could have helped.

💡 Reflections or Notes

- Crucial reminder that not knowing everything is okay—what matters is knowing how to find answers.
- Encouraged the development of self-reliance, a key skill in both learning and real-world scenarios.
- Reinforced the value of bookmarking useful resources and being part of an active learning community.

Introductory Researching
A brief introduction to research skills for pentesting.
Easy
45 min
Share your achievement
Start AttackBox
Help
Save Room
9344
Options
Introductory Research Walkthrough | DarkStar7471
TryHackMe Introductory Research Official Walkthrough
Try Hack Me
Introductory Research
Official Walkthrough
Watch on YouTube
Task 1 Introduction
Task 2 Example Research Question
Task 3 Vulnerability Searching
Task 4 Manual Pages
Task 5 Final Thoughts


tryhackme.com/room/introtoresearch
Woop woop! Your answer is correct
Congratulations on completing Introductory Researching!!!
Points earned
104
Completed tasks
5
Room type
Walkthrough
Difficulty
Easy
Streak
1
Leave Feedback
Next