TryHackMe CTF Write-up

Room: Intro to Offensive Security
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Introduction
This write-up covers my experience completing the “Intro to Offensive Security” room on TryHackMe. The room simulates a real-world ethical hacking scenario using a fake banking website, FakeBank. The objective is to discover vulnerabilities and exploit them to understand the basics of offensive security.

Task 1: What is Offensive Security?

Question:
Which of the following options better represents the process where you simulate a hacker’s actions to find vulnerabilities in a system?
Answer: Offensive Security

Task 2: Hacking Your First Machine

Step 1: Launch the Target Machine
Started the TryHackMe virtual machine in Split View to access the FakeBank application.

Step 2: Discover Hidden Pages with Gobuster
Opened the terminal on the virtual machine.
Ran Gobuster to brute-force hidden directories:

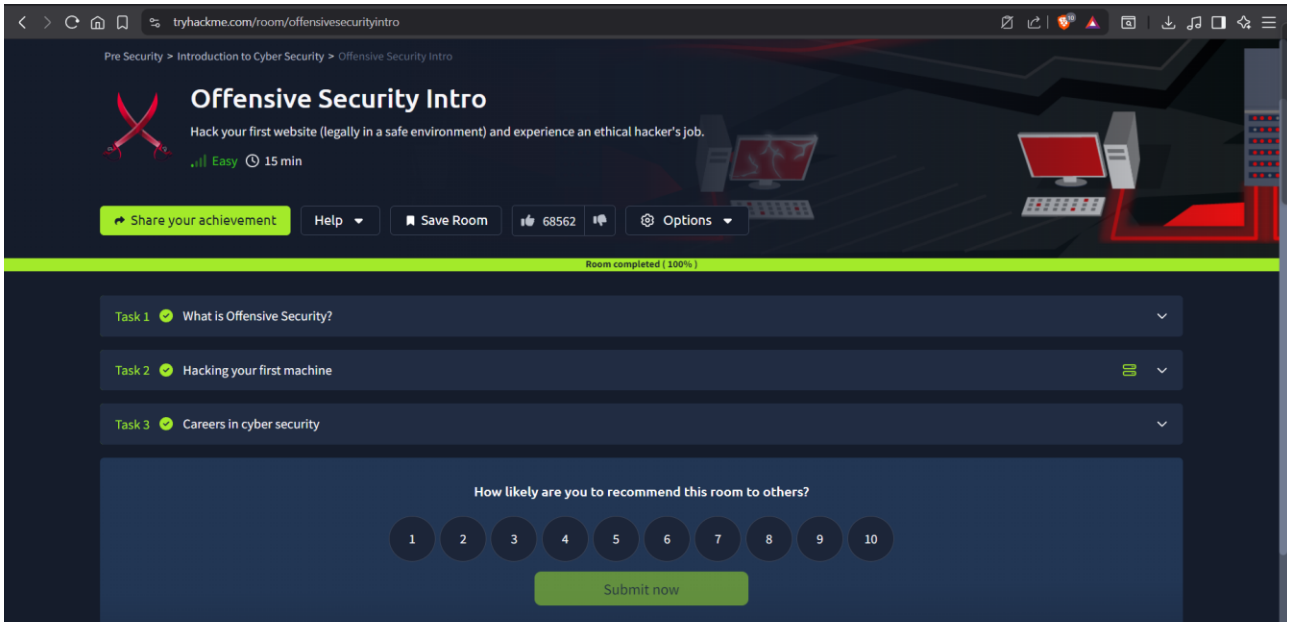
```
gobuster -u http://fakebank.com -w wordlist.txt dir
```

Result: Discovered the /bank-transfer page

Step 3: Exploit the Bank Transfer Vulnerability
Navigated to http://fakebank.com/bank-transfer.
Found a money transfer form that did not require authentication.
Entered the following details:
From Account: 2276
To Account: 8881
Amount: $2000
Submitted the form.

Step 4: Capture the Flag
After submitting the transfer form, I navigated back to the main account page to verify if the transaction was successful.
Upon refreshing the page, I noticed a prominent green banner displayed above my account balance.
The banner contained the message:
BANK-HACKED

This message confirmed that the unauthorized transfer was completed and the security vulnerability had been successfully exploited.
The appearance of "BANK-HACKED" served as the flag for this challenge, indicating the successful completion of the task.


tryhackme.com/room/offensivesecurityintro
Pre Security > Introduction to Cyber Security > Offensive Security Intro

Offensive Security Intro

Hack your first website (legally in a safe environment) and experience an ethical hacker's job.

Easy
15 min
Share your achievement
Help
Save Room
68562
Options
Room completed (100%)

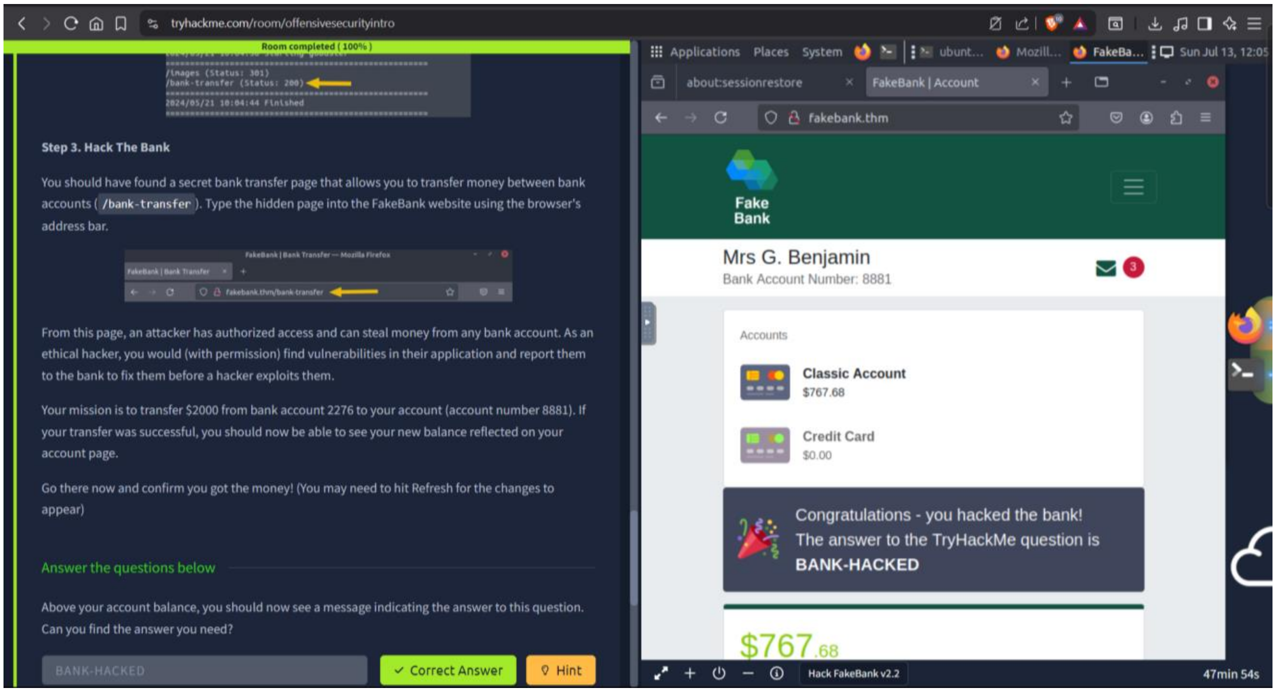
Task 1 ✓ What is Offensive Security?

Task 2 ✓ Hacking your first machine

Task 3 ✓ Careers in cyber security

How likely are you to recommend this room to others?

1
2
3
4
5
6
7
8
9
10
Submit now


tryhackme.com/room/offensivesecurityintro
Room completed (100%)

```
/images (Status: 301)
/bank-transfer (Status: 200)
2024/05/21 10:04:44 Finished
```

Step 3. Hack The Bank

You should have found a secret bank transfer page that allows you to transfer money between bank accounts (`/bank-transfer`). Type the hidden page into the FakeBank website using the browser's address bar.

FakeBank | Bank Transfer — Mozilla Firefox
FakeBank | Bank Transfer
fakebank.thm/bank-transfer

From this page, an attacker has authorized access and can steal money from any bank account. As an ethical hacker, you would (with permission) find vulnerabilities in their application and report them to the bank to fix them before a hacker exploits them.

Your mission is to transfer $2000 from bank account 2276 to your account (account number 8881). If your transfer was successful, you should now be able to see your new balance reflected on your account page.

Go there now and confirm you got the money! (You may need to hit Refresh for the changes to appear)

Answer the questions below

Above your account balance, you should now see a message indicating the answer to this question. Can you find the answer you need?

BANK-HACKED

Mrs G. Benjamin
Bank Account Number: 8881

Accounts

Classic Account
$767.68

Credit Card
$0.00

Congratulations - you hacked the bank!
The answer to the TryHackMe question is
BANK-HACKED

$767.68