Intro to Offensive Security

In short, offensive security is the process of breaking into computer systems, exploiting software bugs, and finding loopholes in applications to gain unauthorized access to them.

To beat a hacker, you need to behave like a hacker, finding vulnerabilities and recommending patches before a cybercriminal does, as you'll do in this room!

On the flip side, there is also defensive security, which is the process of protecting an organization's network and computer systems by analyzing and securing any potential digital threats; learn more in the digital forensics room.

In a defensive cyber role, you could be investigating infected computers or devices to understand how it was hacked, tracking down cybercriminals, or monitoring infrastructure for malicious activity.

Answer the questions below

Which of the following options better represents the process where you simulate a hacker's actions to find vulnerabilities in a system?

* Offensive Security
* Defensive Security

Step 1) Open a terminal

A terminal, also known as the command-line, allows us to interact with a computer without using a graphical user interface. On the machine, open the terminal using the Terminal icon: 

Stuck? See video

Step 2) Find hidden website pages

Most companies will have an admin portal page, giving their staff access to basic admin controls for day-to-day operations. For a bank, an employee might need to transfer money to and from client accounts. Often these pages are not made private, allowing attackers to find hidden pages that show, or give access to, admin controls or sensitive data.

Type the following command into the terminal to find potentially hidden pages on FakeBank's website using GoBuster (a command-line security application).

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

The command will run and show you an output similar to this:

GoBuster command to brute-force website pages

**ubuntu@tryhackme:~/Desktop$ gobuster -u http://fakebank.com -w wordlist.txt dir**

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**Gobuster v2.0.1**

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**[+] Mode : dir**

**[+] Url/Domain : http://fakebank.com/**

**[+] Threads : 10**

**[+] Wordlist : wordlist.txt**

**[+] Status codes : 200,204,301,302,307,403**

**[+] Timeout : 10s**

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**2022/04/11 18:23:28 Starting gobuster**

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**/images (Status: 301)**

**/DIRECTORY\_NAME\_OUTPUT (Status: 200)**

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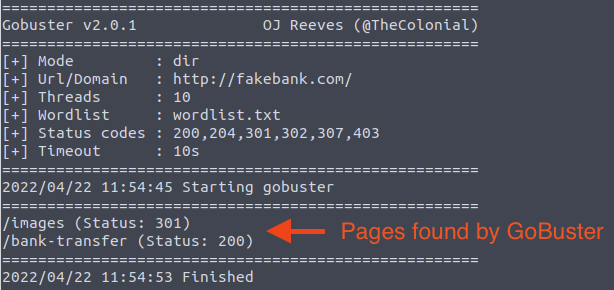
**2022/04/11 18:23:38 Finished**

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*Don't worry if you have not used a terminal before - TryHackMe walks you through everything!*

In the command above, **-u** is used to state the website we're scanning, **-w** takes a list of words to iterate through to find hidden pages.

You will see that GoBuster scans the website with each word in the list, finding pages that exist on the site. GoBuster will have told you the pages it found in the list of page/directory names (indicated by Status: 200).



Step 3) Hack the bank

You should have found a secret bank transfer page that allows you to transfer money between accounts at the bank (/bank-transfer). Type the hidden page into the FakeBank website on the machine.

Stuck? See video

This page allows an attacker to steal money from any bank account, which is a critical risk for the bank. As an ethical hacker, you would (with permission) find vulnerabilities in their application and report them to the bank to fix before a hacker exploits them.

Transfer $2000 from the bank account 2276, to your account (account number 8881).

Answer the questions below

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)

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

http://fakebank.com/bank-transfer

BANK-HACKED

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