Lab 8.8.11 Red Teaming: SQL Injection Attack

From TestOut CompTIA Security+ Course
In this lab I will conduct a SQL Injection attack as a hypothetical pentester on a
Corporate Bank's Banking Web App.

The scenario for this lab is as follows:

"Your name is Blake Jackson. You are the penetration tester for a small corporate network. After performing several SQL injection attract tests on the corporate network, you have decided to see how secure your own online bank's web page is.

In this lab, your task is to perform a simple SQL injection attack using the following information:

- Your bank's URL: MySecureOnlineBank.com
- Make an account query using your account number: 90342
- Answer Question 1.
 - What is Blake Johnson's account balance?
- Perform a simple SQL attack using: 0 OR 1=1
- Use the entire statement of "0 OR 1=1" but without quotes.
- Answer Question 2.
 - What is the balance of Nisha Dickson?"

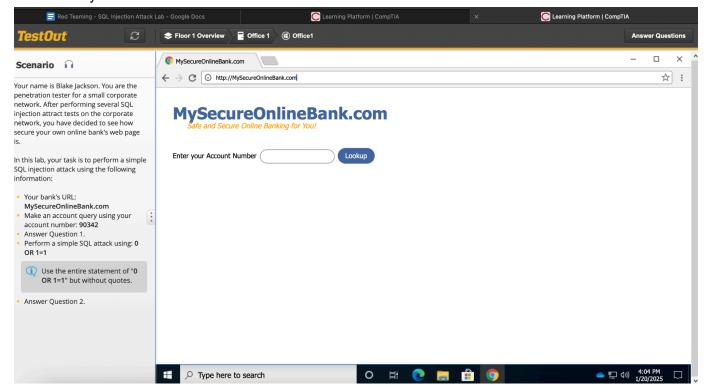
For this Lab, an isolated virtual environment is available to me. No Laws were broken or crime committed against an actual Financial Institution.

With that disclosed, I will open my Web Browser and head to the website www.MySecureOnlineBank.com to take a look around and see if there's any forms present that I might be able to inject SQL into.

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Mon January 20th 2025



I can see that there is a field for users to input their account number in order to lookup their details. I'm assuming on the backend, the Web App will take the User's input and query the database to fetch the details. Since the Lab says I am a theoretical employee of this Bank, I also have a bank account setup for myself (Blake Johnson). Following the lab's instruction:

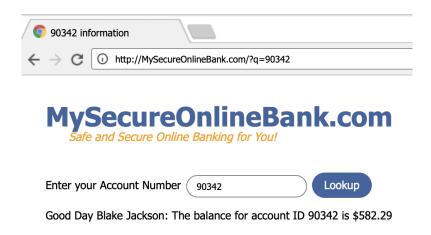
- Make an account query using your account number: 90342
- Answer Question 1.
 - What is Blake Johnson's account balance?

I will enter the number 90342 into the **Lookup** field.

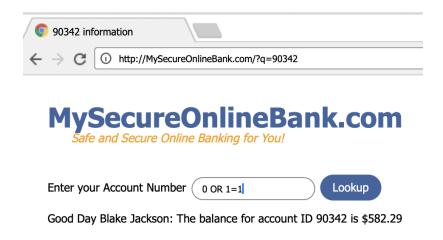
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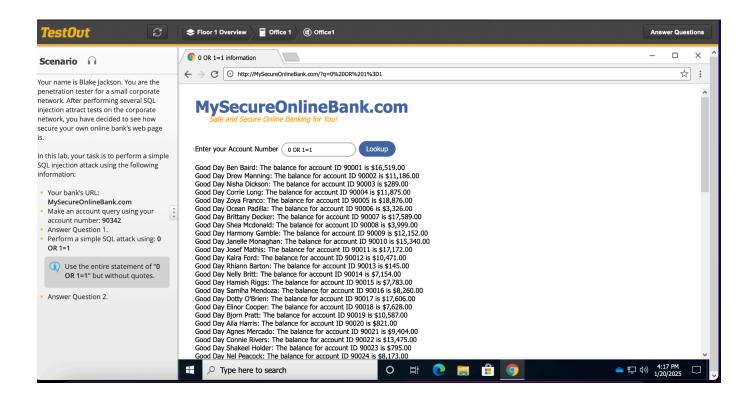
After hitting **Lookup** I can see the following balance is shown:



Since I know this form is working, I can conduct a very simple SQL Injection attack to see what I can find. I'll input **0 OR 1=1** and see what happens.



And now, I get every hacker's favorite thing; getting that dopamine rush when your attack was successful! The **0 OR 1=1** statement was injected as SQL code to the backend database and returned **ALL** of the user's balances in this bank's database:



Now that I've conducted the SQL Injection Attack I will answer the 2 questions asked by the lab:

- What is Blake Johnson's account balance?
- What is the balance of Nisha Dickson?

As I've discovered before, Blake Johnson's balance is **\$582.29**. Scrolling down on the page I can also see Nisha Dickson's balance listed as **\$289.00**.

Now that I've completed all tasks and all questions, this now concludes this Lab.

