SQL Injection

Refer for theory: https://portswigger.net/web-security/sql-injection

Vulnerability Labs (Apprentice):

1. SQL injection vulnerability in WHERE clause allowing retrieval of hidden data.

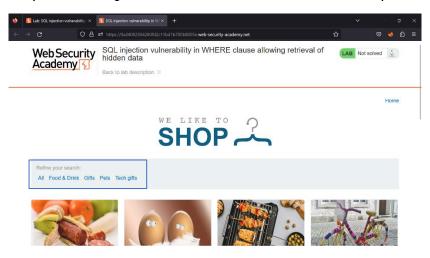
This lab contains a SQL injection vulnerability in the product category filter. When the user selects a category, the application carries out a SQL query like the following:

SELECT * FROM products WHERE category = 'Gifts' AND released = 1

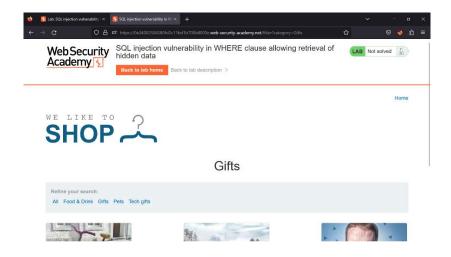
To solve the lab, perform a SQL injection attack that causes the application to display details of all products in any category, both released and unreleased.

Solution: -

O Click on any of the categories shown in the blue box in the below picture.

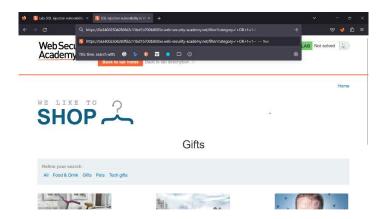


Once a category is selected, the site will be redirected.



O Notice the url of the page. The category is already assigned to some value. Change it to '+OR+1=1-





Once submitted, the sql injection attack will be successful.



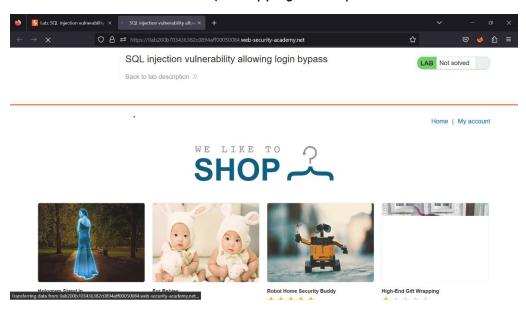
2. SQL injection vulnerability allowing login bypass

This lab contains a SQL injection vulnerability in the login function.

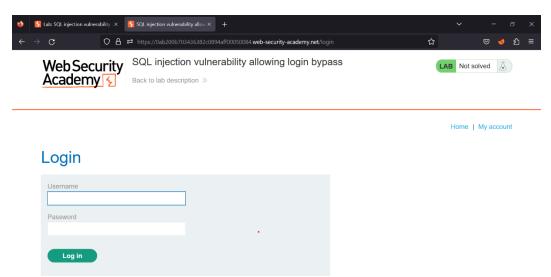
To solve the lab, perform a SQL injection attack that logs in to the application as the administrator user.

Solution:

Once the lab is accessed, a shopping site is opened.

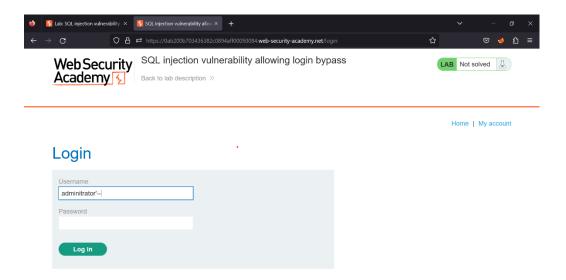


Click on the My account option which Is on the top right corner of the site. We need to
access the administrator's account without authentication.



- A login form will be visible. We know that the username is administrator. Since we do
 not know the password we are going to do perfrom sql injection to bypass the
 password field.
- o Enter the following code snippet into the username text field:

administrator'--



- o The above code will comment out the rest of the sql query by using comments (--).
- o Enter a random password as it's a requirement and hit log in. Your lab will be solved.

