**SQL Injection Attack- Task 3**

Completed by Eric Adamian

VirtualBox IP address:

|  |  |
| --- | --- |
| Virtual machine: | sqlVM |
| IP address: | 10.0.2.15 |

**Task 3: SQL Injection Attack on UPDATE Statement**

Explanation: Modifying data that is available under the individual usernames for the SQL Injection Attack page

**Task 3.1: Modify your own salary**

**Step 1:** Assuming as the employee Alice, begin by logging in as Alice with username **Alice’#**

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Description automatically generated

**Step 2:** Click “Edit Profile” on the top of the page to adjust the inputted salary

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Description automatically generated

**Step 3:** Adjust the salary (ex. from 20000 to 40000) by editing the ‘NickName’ portion with the following command: **‘,salary=40000 where EID=10000;#**

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**Observation:** **The salary was manually changed from 20000 to 40000**, making the UPDATE statement was successful

**Task 3.2: Modify other people’ salary**

**Step 4:** Assuming as the employee Alice, Boby’s (someone else’s) salary will be modified (currently at 30000)

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**Step 5:** Reduce Boby’s salary from 30000 to 1 with the command:

**‘,salary=1 where name=‘Boby’;#**

A screenshot of a computer screen

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**Observation:** As it is apparent, Boby’s salary was successfully manipulated from 30000 to 1

**Task 3.3: Modify other people’ password**

**Step 6:** Begin with the command line (password is of type SHA-1 since it is encrypted); check the SHA-1 for the current password under mySQL

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**Step 7:** Current SHA-1 password: **5baa61e4c9b93f3f0682250b6cf8331b7ee68fd8** ; generate a new password called “newpassword”

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**Step 8:** With the new generated SHA-1 password, go back to “Edit Profie” page for Alice and change the password under the ‘NickName’ section with the command:

**‘,password=‘f2c57870308dc87f432e5912d4de6f8e322721ba’ where name=‘Boby’;#**

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**Step 9:** Ensure the password was updated with the new SHA-1 under MySQL:

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**Step 10:** Ensure updated password by logging into Boby’s profile with the new password

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**Observation:** The new password has been updated; **successfully modified other people’s passwords**