

TCTF writeup

原创

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分类专栏: [ctf crypto](#)

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[crypto](#)

20 篇文章 1 订阅

订阅专栏

crypto

checkin

题目如下图所示

```
D:\netcat-1.11>nc 111.186.59.11 16256
Show me your computation:
2^(2^11545483) mod 16785895100407248068055631474515242889674692173789003640950272652974236681245531820287872254891356987
072067096311386837161752117479616325132586310047850043551426204197451355279494191862407538651837008502473538040462322641
804518795262059388854338007374602103743164095691063645839880327415902530011539361592581 = ?
You have 10 seconds. gogogo!
Your answer: Timeout!
```

我们发现题目是要求算一个比较复杂的算数, 且要求十秒内出结果。这里需要调数学库gmpy2计算, 使用python来算会超时。解题过程如下

```
from pwn import *
import hashlib
import math
import gmpy2
io=remote("111.186.59.11",16256)
io.recvuntil("(2^")
tian=int(io.recvuntil(")")[::-1],10)
io.recvuntil("mod ")
#ress=io.recvuntil(" = ?")[::-4]
#print(ress)
res=int(io.recvuntil(" = ?")[::-4],10)
res1=gmpy2.powmod(2,pow(2,tian),res)
io.recvuntil("answer:")
io.sendline(str(res1)+'\n')
io.interactive()
print(res1)
```

2.guthib

从题目中可以看出flag已经被bfg工具替换了，在当前页面中无法找到flag，但是所有github的pushevent和commentevent都会被记录在/repos/{owner}/{repo}/events下，所以我们可以从<https://api.github.com/repos/awesome-ctf/TCTF2021-Guthib/events>中寻找。但我们会发现有许多事件，从<https://api.github.com/repos/awesome-ctf/TCTF2021-Guthib/events?page=1>到<https://api.github.com/repos/awesome-ctf/TCTF2021-Guthib/events?page=8>都是一些操作。由于我们知道try.2.md最开始也是push进去的，所以我们寻找关键词"type": "PushEvent",然后我们可以找到四条记录，一一搜索，在一条记录Try 2: Taking memos · awesome-ctf/TCTF2021-Guthib@da88350中可以找到flag

```

}
},
{
  "id": "17021153902",
  "type": "PushEvent",
  "actor": {
    "id": 7986667,
    "login": "HenryzhaoH",
    "display_login": "HenryzhaoH",
    "gravatar_id": "",
    "url": "https://api.github.com/users/HenryzhaoH",
    "avatar_url": "https://avatars.githubusercontent.com/u/7986667?"
  },
  "repo": {
    "id": 382436656,
    "name": "awesome-ctf/TCTF2021-Guthib",
    "url": "https://api.github.com/repos/awesome-ctf/TCTF2021-Guthib"
  },
  "payload": {
    "push_id": 7448403574,
    "size": 5,
    "distinct_size": 5,
    "ref": "refs/heads/master",
    "head": "0ae87cd1d9b35cfidca4f56f8d8ac78508a404a8b",
    "before": "932795a9eal8ee35ae0f5339973ef0d2d9dd9bca",
    "commits": [
      {
        "sha": "da883505ed6754f328296cac1ddb203593473967",
        "author": {
          "email": "nobody@no.one",
          "name": "Nobody"
        },
        "message": "Try 2: Taking memos",
        "distinct": true,
        "url": "https://api.github.com/repos/awesome-ctf/TCTF2021-Guthib/commits/da883505ed6754f328296cac1ddb203593473967"
      },
      {
        "sha": "a17ed270522072895e5e2b11b6fdd0e9a210fdfb",
        "author": {
          "email": "nobody@no.one",
          "name": "Nobody"
        }
      }
    ]
  }
}

```

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```

6 6
7 - ### Watch Later
7 + ### Accounts
8 8
9 - - Attack on Titan
10 - - DARLING in the FRANXX
11 - - Wonder Egg Priority
12 - - The Day I Became a God
13 - - Kemono Friends
14 - - Charlotte
9 + ID: nobody@no.one
10 + Password: flag{ZJaNictJnDytwqosX8ebwiMdLgcMBL}
15 11
16 12
17 13 ...

```

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