

Crypto:

1. 阅读网页上的 python 代码，知道实际上是程序随机生成一串只含有数字和字母的字符串，然后将其用 sha256 编码，然后扣掉原字符串的前四位，只告诉剩余的原字符串和生成的 sha256 字符串，让求出前四位，然后还要输入“I like playing Hgame”，同时还注意到最后还设定了时间一分钟。考虑到四位字符，ascii 范围不过 48~122，不如少动点脑筋直接用暴力求解。于是写 python 脚本，和时间赛跑暴力计算出四个字符，即可得

```
decode.py
from hashlib import sha256
for i in range(48, 123):
    for j in range(48, 123):
        for k in range(48, 123):
            for l in range(48, 123):
                code = '' + chr(i) + chr(j) + chr(k) + chr(l) + "ubaaShbJ5nK9op0A"
                if (sha256(code.encode()).hexdigest() == "9dc697ae730457690939405705a8bd52e725c9155010e143bacf07251b5e98f0"):
                    print('' + chr(i) + chr(j) + chr(k) + chr(l)) # I like playing Hgame
                    break
```

出 flag。

```
>>>
= RESTART: C:\Users\12621\Desktop\decode
.py
NtEl
>>>
```

```
root@P3ntium: ~/Desktop
File Actions Edit View Help
root@P3ntium: ~/Desktop
root@P3ntium:~/Desktop# nc 47.98.192.231 25678
sha256(XXXX+ubaaShbJ5nK9op0A) == 9dc697ae730457690939405705a8bd52e725c91
55010e143bacf07251b5e98f0
Give me XXXX: NtEl
The secret code?
> I like playing Hgame
Ok, you find me.
Here is the flag: hgame{It3Rt00|S+I5_u$3fu1~Fo2_6rUtE-f0Rc3}
Bye~
```