Crypto

The same simple RSA

题目给了pubkey.pem(公钥)和flag.enc(密文)

用openssl查看公钥信息,其中的Modulus即为n

将n放到factordb上分解得p,q

利用p,q生成私钥文件private.pem

```
1
   import math
2
   import sys
3
   from Crypto.PublicKey import RSA
4
5
   keypair = RSA.generate(1024)
6
7
   keypair.p = 275127860351348928173285174381581152299
   keypair.q = 319576316814478949870590164193048041239
8
9
   keypair.e = 65537
10
   keypair.n = keypair.p * keypair.q
11
   Qn = long((keypair.p-1) * (keypair.q-1))
12
13
14 | i = 1
15 while (True):
16
       x = (Qn * i) + 1
17
       if (x % keypair.e == 0):
            keypair.d = x / keypair.e
18
19
            break
20
       i += 1
21
22 private = open('private.pem','w')
   private.write(keypair.exportKey())
```

```
24 private.close()
25
```

最后在openssl中用私钥解密即可

```
easy rsa
题目中的n无法分解成p,q(反正我是没分出来)
不过题目还给了h=p+q
因此(p-1)(q-1)就可以用n-h+1表示
放入脚本一跑再转成ascii即可
```

```
1
   n =
   103851128535035452835345944980140021633028191925428813596290161786518145933945
   382239397336741254774537484186778465435704335091864534398976285090423676416386
   057962805064695988578721271021836244935120824154200938246665792571840648519258
   635324070387081531738138451636079303880672328523875536550277551380430512510859
   462757670013732774446436510262122849259708089393481264545711565234024195713041
   049572386007243341480416299554565488918506092454861627134347488019688384580087
   306252753880774307836121161612450376309844794007213153187554046570932068258835
   72149393481806067157147431981573823960963614146686202457034323040706001
2
   def egcd(a, b):
       if a == 0:
3
4
         return (b, 0, 1)
5
       else:
         g, y, x = egcd(b \% a, a)
6
7
         return (g, x - (b // a) * y, y)
   def modinv(a, m):
8
9
       g, x, y = egcd(a, m)
10
       if g != 1:
         raise Exception('modular inverse does not exist')
11
12
       else:
         return x % m
13
14 e = 65537
15 c =
   437197606589433389031497588507512712845124098380880070969804635924583425222041
   506601358848822579348803380339079565671885358769217768748985347950224726677192
   403574980529926960252727203678876990410888549382376498498280502595245917324636
   693924397266958233872803436361494306210622069794419322689776764578936846546020
   202420043853577098398903564243409172002012344718971493294120395320142114381685
   660241051620770290480690343516319134827786747581398576568503317382720197039690
   843936021840956269275325723508489354844986584848668193125885532938453442224533
   3790248671083002562017871712806386748477524316776702973435067495735891
```

h =

211473031829143387075248424832701297198713292770838284307849674781204968609248
808096119074157099909881957829793545784295167214864644080464847006389628006758
327477845870101535232054809595189429534377867001767649036319119343001102771623
484473596258682675319189568166030200094562890253995876322745344347924616750

d = modinv(e,n - h + 1)
print hex(pow(c,d,n))

>>>

555

ASCII在线转换器-十六进制,十进制、二进制



Caesar&&Caesar

不会分析于是找了工具

https://atomcated.github.io/Vigenere/

many years later as he faced the firing squad, colonel aureliano buend'a was to remember that distant afternoon when his father took him to discover ice. at that time macondo was a village of twenty adobe houses, built on the bank of a river of clear water that ran along a bed of polished stones, which were white and enormous, like prehistoric eggs. the world was so recent that many things lacked names, and in order to indicate them it was necessary to point, every year during the month of march a family of ragged gypsies would set up their tents near the village, and with a great uproar of pipes and kettledrums they would display new inventions. first they brought the magnet. a heavy gypsy with an untamed beard and sparrow hands, who introduced himself as melqu'ades, put on a bold public demonstration of what he himself called the eighth worder of the learned alchemists of macedonia.

密钥:
加密>
<有密钥解密
<无密钥解密
key长度:
最可能的変钼:another

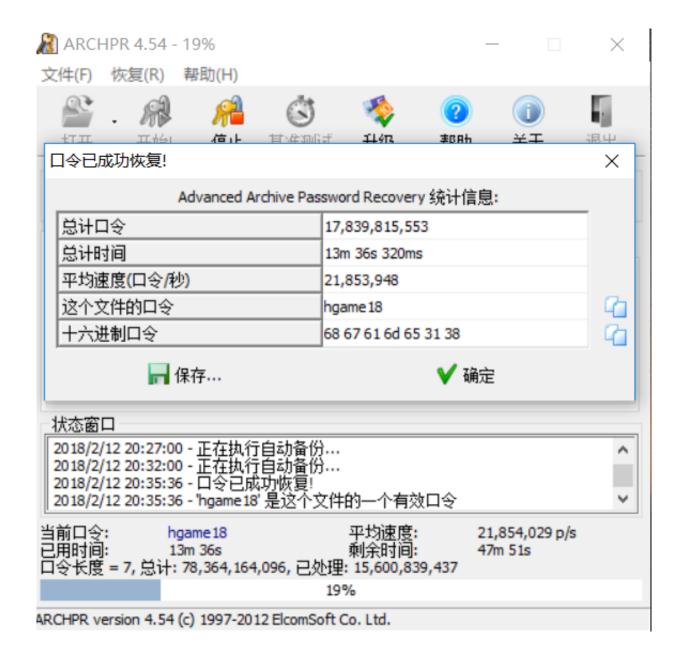
密文:
mrbr firrf ztaij af vx meteq hal jzrvbz zulaq, qhsseey onyicirbh iyvnqio phw ko esflqsee hahx uifhtux rfgskusfn jvxu lzs somoii tbcd omd tb rbzgfvrf bji. rt gvta xzmr atjsecb ktz e miyztni ff gkxuxp aqual lfufsl, iyzlg cg alv bnbd vjr rvjxy sw cysty artrf moek rnb tsseg n pxk sw pbzbzlvd ffhuij, wwwo avrr kapxv aar xusimbil, smbe cfxomjtbfbj ixgf. hal afryr phw jo esvirk tuom teey gwbukj lnqdlh eazsl, hru ia ckkii tb wgkmtags moid ig ktz rvcrglhvp tb chprk. eiskf cvae rnymeg gvx tsetu cy teicu o yhqzll cy yexgrr zftjirg pvycd fsm bt khrwk aietf bxhv khr jbsprgr, ogk aztu o zyirt hdkvei os dwwij aar dliklirkbqi tusr csllq rbztcal bxd mevrbmpses. swkzx khrm uyslguh moi datbxa. e yenjr ncgsl kbal rn hbmhqvd ostyh rnq gihvioj vtuhj, wuc buxioqivlh ylzgxsj rs zsexy irdrg, ibx fn n phsh guozbj hvmbblavrtvcg vj nhnh al lzmfsem grlysw alv evual noarxy sw tus eleinrr tsgyezwlaw ff zovlhfnvo.

选取片段一查发现是百年孤独

Misc

easy password

放入ARCHPR爆破即可拿到密码



white cosmos

根据提示1可知压缩包是进行了伪加密

用Winhex打开,将其中的某处09改为00后压缩包便可无需密码解压

再用Winhex打开pure.txt,看到里面的09和20想到了二进制

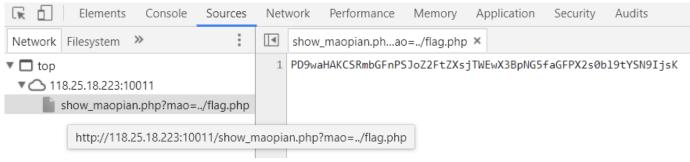
然后用1表示09,0表示20,再把每组的最后一个20去掉转成字符即为flag

Offset	0	1	2	3	4	5	6	7	8	9	Α	В	C	D	E	F	ANSI ASCII
00000000	09	09	20	09	20	20	20	20	09	09	20	20	09	09	09	20	
00000010	09	09	20	20	20	20	09	20	09	09	20	09	09	20	09	20	
00000020	09	09	20	20	09	20	09	20	09	09	09	09	20	09	09	20	
00000030	09	20	09	20	09	09	09	20	09	09	20	20	09	20	09	20	
00000040	09	09	20	09	09	20	20	20	09	09	20	20	20	09	09	20	
00000050	20	09	09	20	20	20	20	20	09	09	20	09	09	20	09	20	-
00000060	09	09	20	20	09	20	09	20	09	20	09	09	09	09	09	20	
00000070	20	09	09	20	20	09	20	20	09	20	09	09	09	09	09	20	
0800000	09	20	09	20	09	09	09	20	09	09	20	09	20	20	20	20	
00000090	09	20	20	09	20	20	09	20	09	09	09	20	09	20	20	20	
000000A0	09	09	20	20	09	20	09	20	09	20	09	09	09	09	09	20	_
000000B0	09	09	09	20	20	09	09	20	09	09	09	20	20	20	20	20	
00000000	20	09	09	20	09	20	20	20	09	09	20	20	20	09	09	20	
00000000	09	09	20	20	09	20	09	20	09	09	09	09	09	20	09		

Web

草莓社区-1

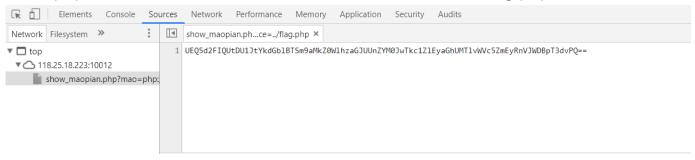
输入url: http://118.25.18.223:10011/show_maopian.php?mao=../flag.php



base64解码之后就是flag

草莓社区-2

输入跟上一题同样的url之后发现是空白,说明flag藏在注释里面,需要用伪协议读取url: http://118.25.18.223:10012/show_maopian.php?mao=php://filter/read=convert.base64-encode/resource=../flag.php



同样base64之后就是flag

最简单的sql题

不多说,上图



xss-1

过滤了script, image, (payload:

xss-2

过滤了script,img,image,(,>

payload:

" autofocus onfocus="alert(1)