

404gg - WP

行业排名：56

得分：51

签到题

提交队员：温佳琦

Misc签到：

1. 5g无线帧长是多少ms? () *

☐ 5

☐ 10

☐ 20

☐ 40

2. 一般来讲，属于人工智能的语言是()? *

☐ VJ

☐ C#

☐ Foxpro

☐ LISP

3. 下列哪一种专门针对工业互联网的，以窃取信息为目标的木马病毒? () *

☐ Havex木马程序

☐ 毒区病毒 (Duqu)

☐ 火焰病毒 (Huoyan)

☐ 灰鸽子木马程序

4. 2017年Google提出零信任安全架构，其本质是以什么为中心? () *

☐ 人

☐ 设备

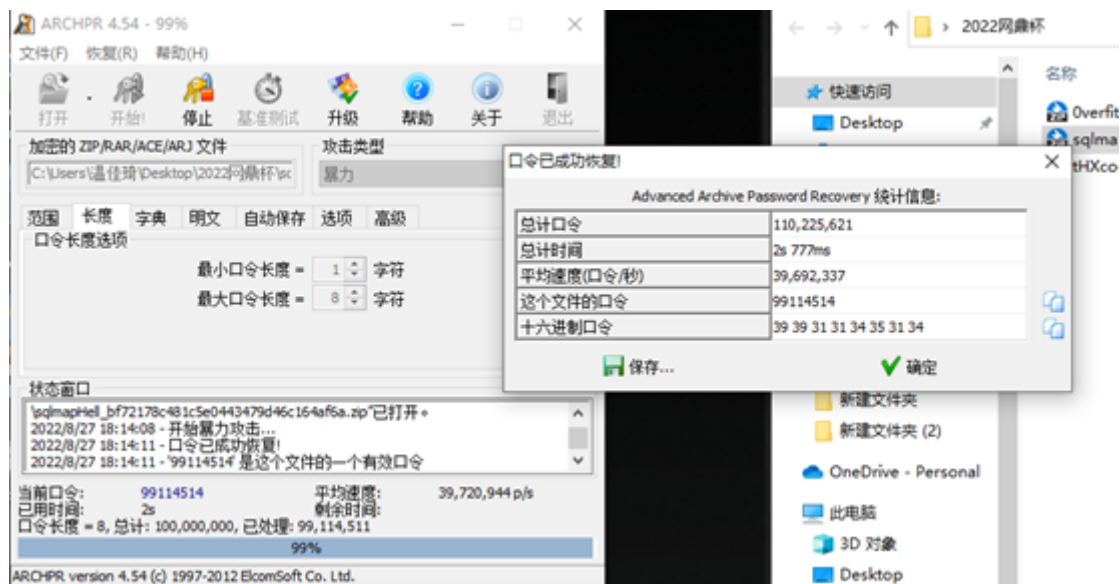
☐ 数据

☐ 应用

从网上找相关的答案即可。

Misc620

提交队员：温佳琦



尝试爆破下，得到8位纯数字密码：99114514

解压缩的到两个文件：



flag.7z



sys_account.csv

直接打开csv格式的文件有乱码，用txt打开

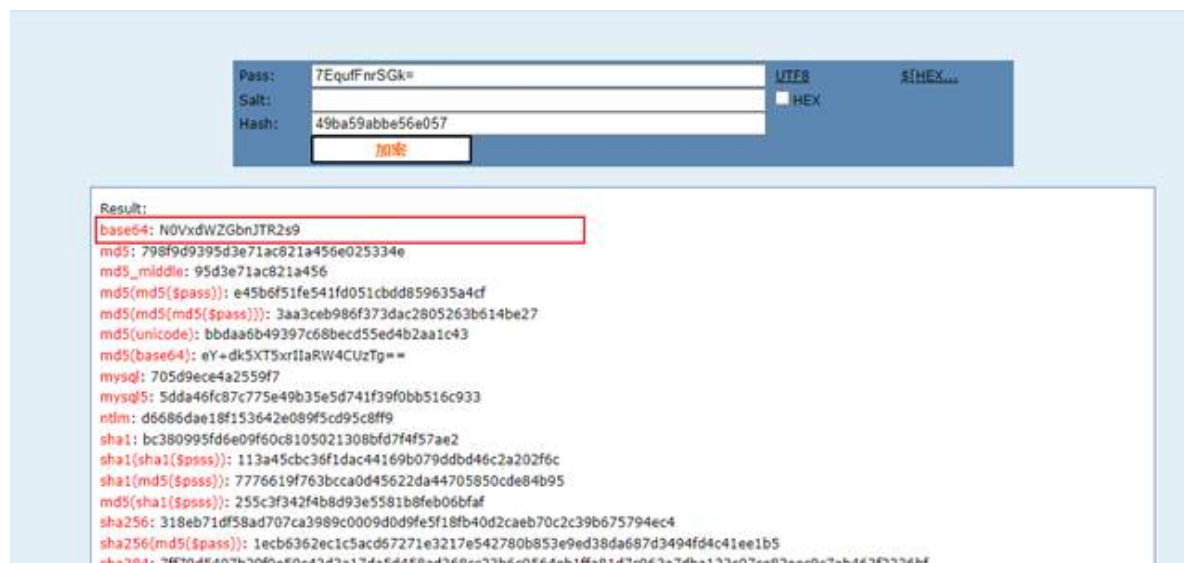
文件(F) 编辑(E) 格式(O) 查看(V) 帮助(H)
id,orgId,icard,name,phone,state,config,device,location,orgNames,password,createTime,accountName,accountType,description,deletestatus
1,7FD92E7232EB4FBAB7046FF8E68E5EB,NULL,吴慧珊,NULL,1,1,NULL,1A728F1D6B044534AA801600A899F844,NULL,7EqufFnRSGk=,2022-06-11 16:17:03,admin,0,엔벳밧샐꺸,0

表头和内容对应上，得到：

password: 7EqufFnRSGk=

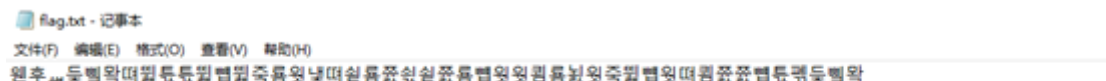
用base64解码得到乱码。本来想试试压缩包密码是否为md5(7EqufFnRSGk=)

在md5网站上看到也有base64选项



尝试用cmd5网站上的base64解码：

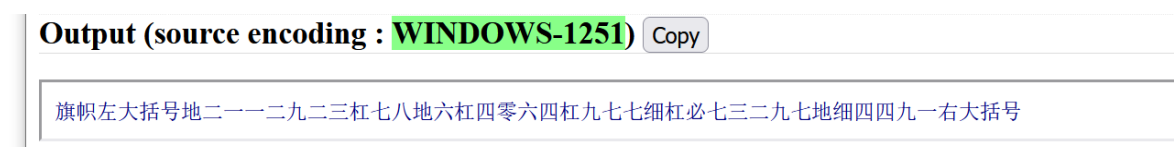
得到flag.7z压缩包密码，输入密码得到flag.txt 文件



经过查询编码发现

[Universal online Cyrillic decoder - recover your texts \(2cyr.com\)](http://2cyr.com/Universal-online-Cyrillic-decoder-recover-your-texts)

可以解码。



crypto582

提交队员：胡旻

根据费马小定理

$$x = (m1 + 2022)^m \bmod m * m1.$$

根据费马小定理可以变成

$$x \bmod m = (m1 + 2022) \bmod m$$

$$\text{得到 } x - 2022 = m1 + km$$

同理，

$$y - 2022 = m2 + km$$

根据二项式定理和费马小定理，

$$c1 \bmod m = m1^{2022} \bmod m$$

$$c1 + km = m1^{2022}$$

同理 c2.

$$\text{这样 } GCD(c1 - (x - 2022)^{2022}, c2 - (y - 2022)^{2022}) = m$$

得到m之后带入x - 2022, y - 2022费马小定理之后的式子，可以得到m1，但是y-2022得到的是m2 - m，所以要加上以一个m。

```
c1 =
85139434329272123519094184286276070319638471046264384499440682030525456122476228
32446276912616762812100621353115392788487030799910601543090936179209358189509144
58293795476333047379166759260042987536742681413995504059343760724860864681869073
26396270307581239055199288888816051281495009808259009684332333344687
```

```

c2 =
10455480838072164584003226933657954903999597711398269719465169004167618703936370
31907438916589057154739800174574652214883580162848915289609138548959402350891082
70134689312161783470000803482494370322574472422461483052403826282470850666418693
908817591349159407595131136843764544166774390400827241213500917391144
c3 =
94771625845449128812081345291218973301979152577131568497740476123729158619324753
12851722269275090052468904907860697831774254599748276360088436299246840657752470
86220460334097134160261453777401822336748900633335346469276012623336722336958632
86637817471270314093720827409474178917969326556939942622112511819330
x =
78237329408351955465927092805995076909826011029371783256454322166600398149132623
48467972336256260006896176041003924155423258801157785416840239989599233176135377
24159825605229125118793049773622255975524463978688432751290272487652527845038411
14291392822052506837132093960290237335686354012448414804030938873765
y =
10044216663363231963349445059541816760803666864770488349206869209891420632246571
71388943020110928418201565601292809014268988152747445239986137243266479355918577
28931946261379997352809249780159136988674034759483947949779535134522005905257436
546335376141008113285692888482442131971935583298243412131571769294029
z =
10471266198590011575001162872727093455269894800163420125733748737397694344373836
76834357888891604883196244473151279926418055976313477630381113529259256869659485
45739394656951753648392926627442105629724634607023721715249914976189181389720790
879720452348480924301370569461741945968322303130995996793764440204452

from Crypto.Util.number import *
m1_mod_m = x - 2022
tmp_m1 = pow(m1_mod_m, 2022)
#print(tmp)

m2_mod_m = y - 2022
tmp_m2 = pow(m2_mod_m, 2022)
m = GCD(tmp_m1 - c1, tmp_m2 - c2)
m1 = (x - 2022) % m
m2 = (y - 2022) % m
print(m1)
m2 = m2 + m
print(m2)
e = 2022
assert x == pow(m1 + 2022, m, m * m1)
assert c1 == pow(m + m1, e, m * m1)
assert z == pow(m + 2022, m1, m * m1)
assert y == pow(m2 + 2022, m, m * m2)
flag = m + m1 + m2
print(long_to_bytes(flag))
import hashlib
flag = hashlib.md5(str(flag).encode('utf-8')).hexdigest()
print(flag)
#flag{27979a70ef9152b759d9340779256dc8}

```