

Bugku-加密-writeup

原创

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[crypto](#) 专栏收录该内容

5 篇文章 0 订阅

订阅专栏

easy_crypto

```
0010 0100 01 110 1111011 11 11111 010 000 0 001101 1010 111 100 0 001101 01111 000 001101 00 10 1 0 010 0 000 1
01111 10 11110 101011 1111101
```

莫斯电码 0010—>...-

```
from __future__ import print_function
a = input("input the string:")
s = a.split(" ")
dict = {'01': 'A',
        '1000': 'B',
        '1010': 'C',
        '100': 'D',
        '0': 'E',
        '0010': 'F',
        '110': 'G',
        '0000': 'H',
        '00': 'I',
        '0111': 'J',
        '101': 'K',
        '0100': 'L',
        '11': 'M',
        '10': 'N',
        '111': 'O',
        '0110': 'P',
        '1101': 'Q',
        '010': 'R',
        '000': 'S',
        '1': 'T',
        '001': 'U',
        '0001': 'V',
        '011': 'W',
        '1001': 'X',
        '1011': 'Y',
        '1100': 'Z',
        '01111': '1',
        '00111': '2',
        '00011': '3',
        '00001': '4',
        '00000': '5'}
```

```

00000 : '0',
'10000': '6',
'11000': '7',
'11100': '8',
'11110': '9',
'11111': '0',
'001100': '?',
'10010': '/',
'101101': '()',
'100001': '-',
'010101': '.',
'110011': ',',
'011010': '@',
'111000': ':',
'101010': ':',
'10001': '=',
'011110': '"',
'101011': '!',
'001101': '_',
'010010': "'",
'10110': '(',
'1111011': '{',
'1111101': '}'
};
for item in s:
    print (dict[item],end='')
#print (s)

```

简单加密

Ascii位移后base64

e6Z9i~]8R~U~QHE{RnY{QXg~QnQ{^XVlRXlp^XI5Q6Q6SKY8jUAA

```

import base64

text = input("please input: ")
text1=''
for i in text:
    t=chr(ord(i)-4)
    text1+=t

print(base64.b64decode(text1))

```

散乱的密文

lf5{ag024c483549d7fd@@@1}

一张纸条上凌乱的写着2 1 6 5 3 4

2	1	6	5	3	4
l	f	5	{	a	g
0	2	4	c	4	8
3	5	4	9	d	7
f	d	@	@	1	}

按照上面的顺序读出来:

f25dl03fa4d1g87){c9@544@

然后再栅栏解出来下面的密码:

flag{52048c453d794df1}@@

删除@@即为密码。

凯撒部长的奖励

```
MSW{byly_Cm_sIoI_lYqUlX_yhdIs_Cn_Wuymul_il_wuff_bcg_pCwnIl_cm_u_YrwyffyhN_guh_cz_sio_quhn_ni_ayn_bcm_chzilgunci  
hm_sio_wuh_dich_om}
```

偏移量为+6

```
SYC{here_Is_yOur_rEwArd_enjOy_It_Caesar_or_call_him_vIctOr_is_a_Excellent_man_if_you_want_to_get_his_informatio  
ns_you_can_join_us}
```

一段Base64

base64->8进制解密->16进制->unicode->dextoascii->html decode->html decode

flag{ctf_tfc201717qwe}

.!?

brainfuck/Ook

flag{bugku_jiami}

+[]-

brainfuck/Ook

flag{bugku_jiami_23}

奇怪的密码

```
strs= input()  
a = 1  
for char in strs:  
    print(chr(ord(char)-a))  
    a += 1
```

flag{mfjdjkjbnj}

托马斯.杰斐逊

```

# 私钥
key = "2,5,1,3,6,4,9,7,8,14,10,13,11,12"
# 密文
cipher_text = "HCBTSXWCRQGLS"

f = open("zhuanlun.txt")
str_first_encry = []

for line in f:
    line = line.strip()
    str_first_encry.append(line)

key_index = key.split(",")
str_second_encry = []
for k in key_index:
    str_second_encry.append(str_first_encry[int(k) - 1])
    # print (str_first_encry[int(k) - 1])

for i, ch in enumerate(cipher_text):
    line = str_second_encry[i]
    split_index = line.index(ch)
    # print (split_index)
    temp = []
    temp[0:len(line) - split_index + 1] = line[split_index:len(line)]
    temp[len(temp):] = line[0:split_index]
    str_second_encry[i] = "".join(temp)

print ("-----")
for plain in str_second_encry:
    print (plain)

```

flag{xsxsbugkuadmin}

zip伪加密

zip伪加密，50 4B 之后改标志位为 14 00 00 00

flag{Adm1N-B2G-kU-SZIP}

告诉你一个秘密

```

In [1]: import binascii
In [2]: binascii.unhexlify('636A56355279427363446C4A49454A7154534230526D6843
...: 56445A31614342354E326C4B4946467A5769426961453067')
Out[2]: b'cjV5RyBscDlJIEJqTSB0RmhCVDZ1aCB5N2lKIFFzWiBiaE0g'
In [3]: import base64
In [4]: base64.b64decode('cjV5RyBscDlJIEJqTSB0RmhCVDZ1aCB5N2lKIFFzWiBiaE0g')
Out[4]: b'r5yG lp9I BjM tFhBT6uh y7iJ QsZ bhM '

```

对应 键盘 = 》 TONGYUAN

这不是md5

```

In [5]: binascii.unhexlify('666c61677b616537333538376261353662616566357d')
Out[5]: b'flag{ae73587ba56baef5}'

```

贝斯家族

base91解密

flag{554a5058c9021c76}

富强民主

核心价值观编码

flag{90025f7fb1959936}

python(N1CTF)

Feistel加密结构、DES算法、AES算法

```
import base64, string, N1ES

key = "wxy191iss0000000000cute"
c = base64.b64decode("HRlgC2ReHW1/WRk2DikfNB01d11XZBJrRR9qECMNOjNHDktBJSxcI1hZIZ07YjVx")
n1es = N1ES.N1ES(key)
f = ""
for i in xrange(3):
    for j in xrange(16):
        for k in string.printable:
            s = "x" * i * 16 + "x" * j + k + "x" * (48 - i * 16 - j - 1)
            e = n1es.encrypt(s)
            check = c[i * 16 + j + 8] == e[i * 16 + j + 8] if j < 8 else c[i * 16 + j - 8] == e[i * 16 + j - 8]
            if check:
                f += k
                break
print f
```

N1CTF{F3istel_n3tw0rk_c4n_b3_ea5i1y_s0lv3d_/-/}

进制转换

```

import binascii

s = ["d87", "x65", "x6c", "x63", "o157", "d109", "o145", "b100000", "d116", "b1101111", "o40", "x6b", "b1100101",
,
    "b1101100", "o141", "d105", "x62", "d101", "b1101001", "d46", "o40", "d71", "x69", "d118", "x65", "x20",
    "b1111001", "o157", "b1110101", "d32", "o141", "d32", "d102", "o154", "x61", "x67", "b100000", "o141", "d11
5",
    "b100000", "b1100001", "d32", "x67", "o151", "x66", "d116", "b101110", "b100000", "d32", "d102", "d108", "d
97",
    "o147", "d123", "x31", "b1100101", "b110100", "d98", "d102", "b111000", "d49", "b1100001", "d54", "b110011"
, "x39",
    "o64", "o144", "o145", "d53", "x61", "b1100010", "b1100011", "o60", "d48", "o65", "b1100001", "x63", "b1101
10",
    "d101", "o63", "b111001", "d97", "d51", "o70", "d55", "b1100010", "d125", "x20", "b101110", "x20", "b100100
0",
    "d97", "d118", "o145", "x20", "d97", "o40", "d103", "d111", "d111", "x64", "d32", "o164", "b1101001", "x6d"
,
    "o145", "x7e"]
s1 = ""
t = ""
t1 = ""
for i in s:
    s1 = i
    for j in range(1):
        if s1[0:1] == 'd':
            t = str(hex(int(s1[1:])))
            t = t[2:]
            t1 = t1 + t
        if s1[0:1] == 'x':
            t = s1[1:]
            t1 = t1 + t
        if s1[0:1] == 'o':
            t = str(hex(int(s1[1:], 8)))
            t = t[2:]
            t1 = t1 + t
        if s1[0:1] == 'b':
            t = str(hex(int(s1[1:], 2)))
            t = t[2:]
            t1 = t1 + t
print type(t1), t1
print binascii.unhexlify(t1)

```

flag{1e4bf81a6394de5abc005ac6e39a387b}

affine

```

flag = "szyfimydz"
flaglist = []
for i in flag:
    flaglist.append(ord(i)-97)
flags = ""
for i in flaglist:
    for j in range(0,26):
        c = (17 * j - 8) % 26
        if(c == i):
            flags += chr(j+97)
print(flags)

```

flag{affineshift}

Crack it

john shadow

flag{hellokitty}

rsa

e特别大，wiener attack

第一种方法：RsaCtfTool:

```
python3 RsaCtfTool.py --createpub -n 460657813884289609896372056585544172485318117026246263899744329237492701820
6272195560077882005901191361738959890013821515360068538233263828923631436043145186863887860029892488008148612485
9507532627709964533869497709745916853089877600729369572810197606942397169652423775522718706141820284991147912479
3990722597 -e 35461110244130757205657218182792589919834535022875373093108939327546391654445662689424541509610783
4465778409532373187125318554614722599301791528916212839368121066035541008808261534500586023652767712271625785204
280964688004680328300124849680477105302519377370092578107827116821391826210972320377614967547827619 > test.pem
python3 RsaCtfTool.py --publickey test.pem --private > test.key
python3 RsaCtfTool.py --key test.key --dumpkey
```

解出pq的值

```

from libnum import n2s, s2n
import base64

def gcd(a, b): # 求最大公约数
    if (a < b):
        a, b = b, a
    while b != 0:
        temp = a % b
        a = b
        b = temp
    return a

def egcd(a, b):
    if a == 0:
        return (b, 0, 1)
    else:
        g, y, x = egcd(b % a, a)
        return (g, x - (b // a) * y, y)

def modinv(a, m):
    g, x, y = egcd(a, m)
    if g != 1:
        raise Exception('modular inverse does not exist')
    else:
        return x % m

if __name__ == "__main__":
    p = 15991846970993213322072626901560749932686325766403404864023341810735319249066370916090640926219079368845
510444031400322229147771682961132420481897362843199
    q = 28805791771260259486856902729020438686670354441296247148207862836064657849735343618207098163901787287368
569768472521344635567334299356760080507454640207003
    e = 35461110244130757205657218182792589919834535022875373093108939327546391654445662689424541509610783446577
8409532373187125318554614722599301791528916212839368121066035541008808261534500586023652767712271625785204280964
688004680328300124849680477105302519377370092578107827116821391826210972320377614967547827619
    # tmp = base64.b64decode("qzogS7X8M3Z0pkUhJJcbukaRduLyqHAPbLmabaYSm9iatuuLrHcEpBmIL7V40N7gbsQXwYx5EBH5r5V2HR
cEIOXjgfk5vpGLjPVxBLYxh2DajHPX6KvbFpQ8jNpCQbUNq8Hst0yDSO/6ri9dk6bk7+uyuN0b2K1bNG5St6sCQ4qYEA3xJbsHFvMqtUdhMi.q0
7tNCUVTKZdN7iFvSjQK2IHosIf7Fq024zkHZpHi31sYU7pcgYEaGkVaKs8pjQ6nbnf4URfoexZHeQtq5UAKr95zD6WgvGcxaTDKafFntboX9GR
9VUZnHePiio7nJ3msfue5rkIbISjmGCALj+w==")
    d = modinv(e, (p - 1) * (q - 1))
    # c=s2n(tmp)
    c = 38230991316229399651823567590692301060044620412191737764632384680546256228451518238842965221394711848337
8324594438444468894683621541882148407367446578858589438101776758719911114666531582571911396056999163473082949956
64530280816850482740530602254559123759121106338359220242637775919026933563326069449424391192
    n = p * q
    m = pow(c, d, n)
    print (n2s(m))

```

flag{Wien3r_4tt@ck_1s_3AsY}

第二种方法：wiener attack 中直接求出d


```

import gmpy2
from libnum import n2s

n = '46065781388428960989637205658554417248531811702624626389974432923749270182062721955600778820059011913617389
5989001382151536006853823326382892363143604314518686388786002989248800814861248595075326277099645338694977097459
168530898776007293695728101976069423971696524237755227187061418202849911479124793990722597'

e = '35461110244130757205657218182792589919834535022875373093108939327546391654445662689424541509610783446577840
9532373187125318554614722599301791528916212839368121066035541008808261534500586023652767712271625785204280964688
004680328300124849680477105302519377370092578107827116821391826210972320377614967547827619'

enc = '382309913162293996518235675906923010600446204121917377646323846805462562284515182388429652213947118483378
3245944384444688946836215418821484073674465788585894381017767587199111146665315825719113960569991634730829499566
4530280816850482740530602254559123759121106338359220242637775919026933563326069449424391192'

p = '15991846970993213322072626901560749932686325766403404864023341810735319249066370916090640926219079368845510
444031400322229147771682961132420481897362843199'

q = '28805791771260259486856902729020438686670354441296247148207862836064657849735343618207098163901787287368569
768472521344635567334299356760080507454640207003'

d = '8264667972294275017293339772371783322168822149471976834221082393409363691895'

n1 = gmpy2.mpz(n)
enc1 = gmpy2.mpz(enc)
d1 = gmpy2.mpz(d)

r = gmpy2.powmod(enc1, d1, n1)
print (r)
s = n2s(r)
print (s)

```

来自宇宙的信号

标准银河字母(Standard Galactic Alphabet) => NOPQRST

flag{nopqrst}