安全-Misc 鸣雏恋（祥云杯2021）

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文章目录
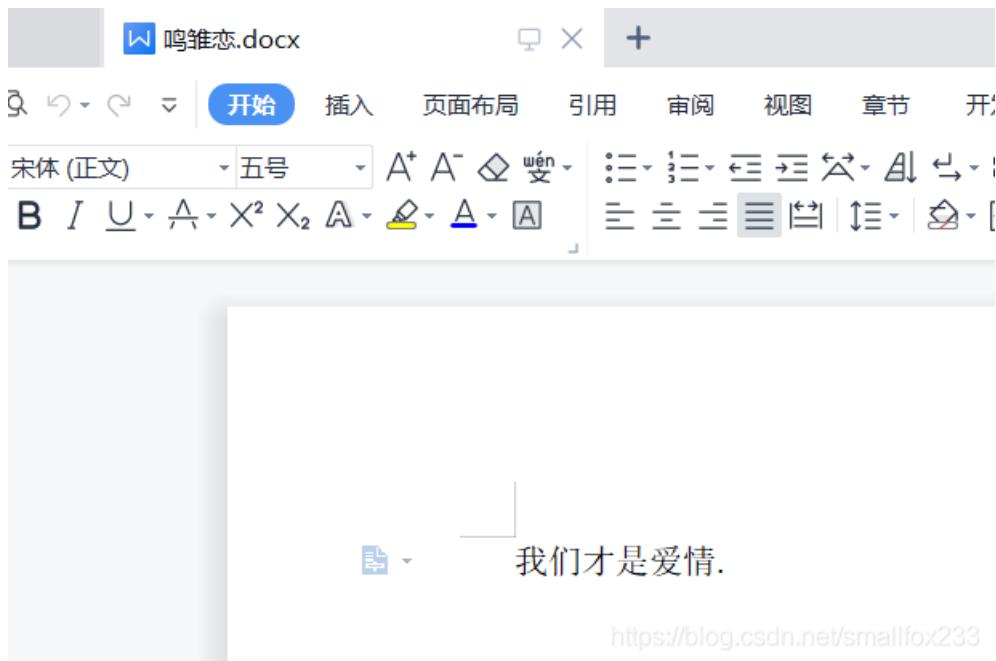
一、题目
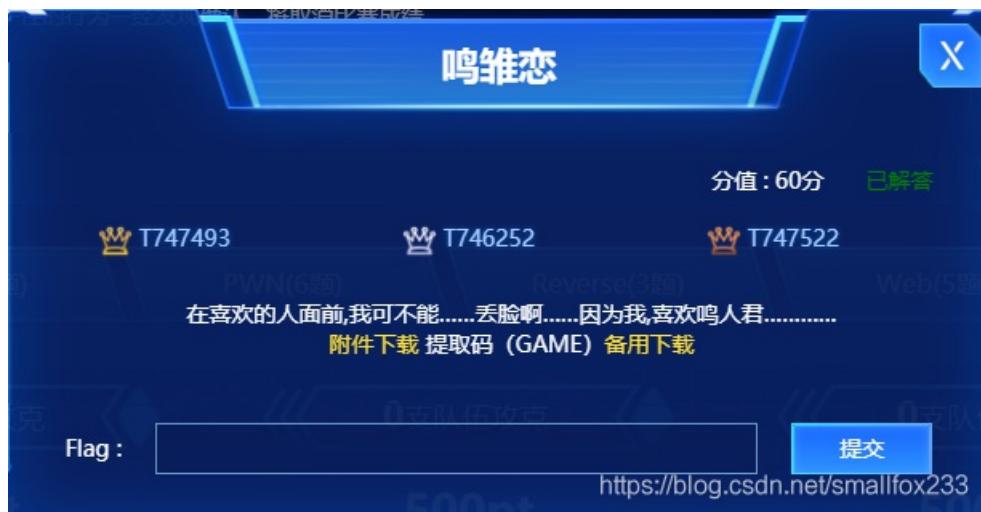
鸣雏恋.docx

二、WriteUp

[1]. 获取压缩包

直接修改文档的后缀为 `zip` 或者是在 `kalinux` 中使用 `binwalk -e [文件名]`，获取一个压缩包

鸣雏恋.zip

内容如下

名称	修改日期	类型	大/
_rels	2021/8/21 13:01	文件夹	
customXml	2021/8/21 12:58	文件夹	
docProps	2021/8/21 12:58	文件夹	
word	2021/8/21 12:58	文件夹	
[Content_Types].xml	2012/7/2 9:52	XML 文档	

[2]. 提示

在 _rels 中有一个 key.txt ，说要勇往直前，说明flag很可能就在这个目录内

« Misc > 鸣雏恋 > 鸣雏恋_2dad763070b79f50c4635a906359909a > 鸣雏恋 > _rels >

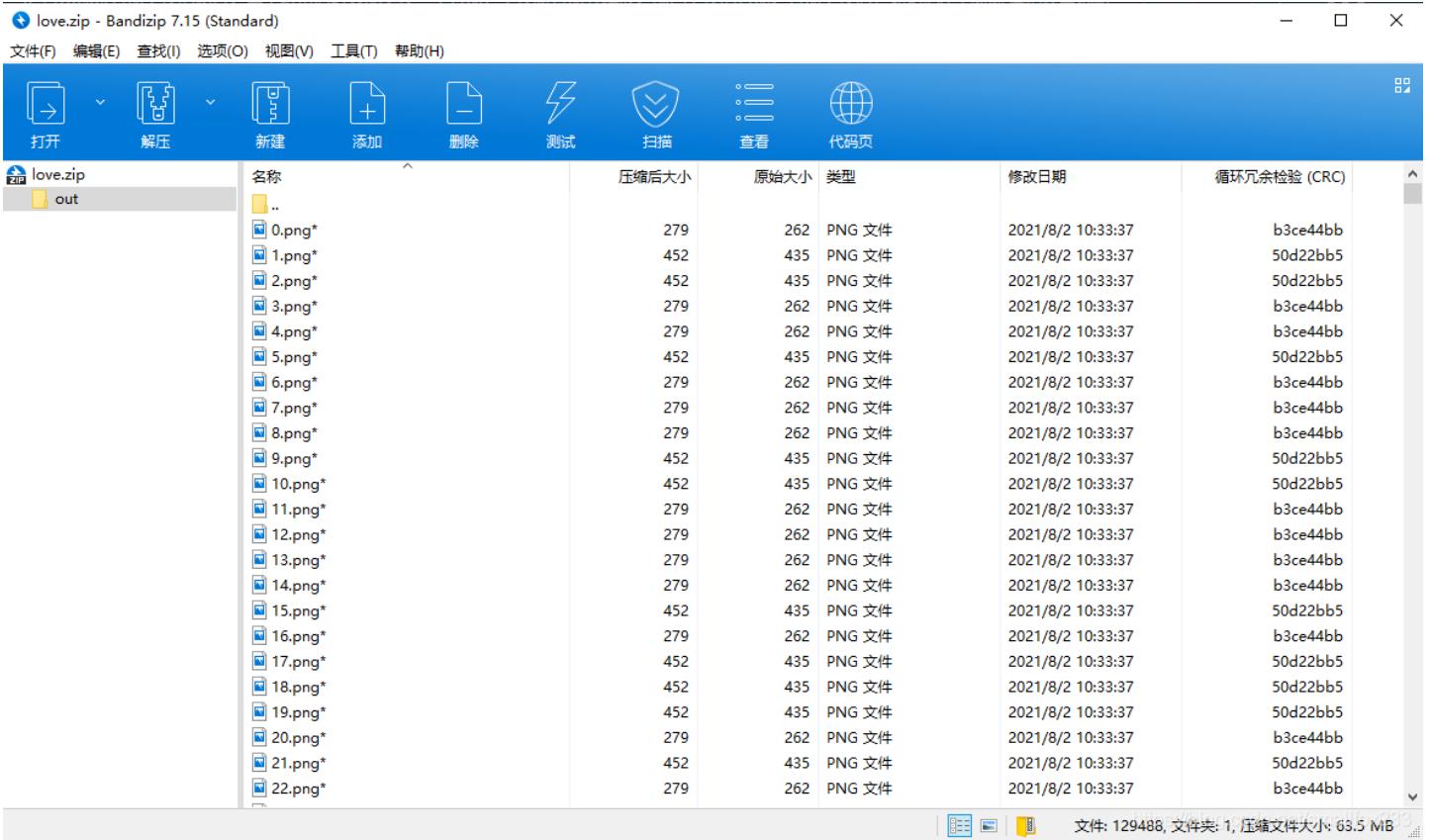| 名称	修改日期	类型
.rels	2012/7/2 9:52	XML 文档
key.txt	2021/8/2 10:57	文本文档
love.zip	2021/8/2 11:07	360压缩 ZIP 文件

key.txt - 记事本

文件(F)　编辑(E)　格式(O)　查看(V)　帮助(H)

佩恩:凭你这点力量,为什么要战斗?
雏田:说到做到,勇往直前,这就是我的忍道.

- 刚开始使用360压缩的时候打开 love.zip ，文件太大容易未响应
- 用 Bandizip 打开的内容如下，可以发现其中含有 129488 张图片，可以从文件大小和CRC中发现，图片就只有两种类型

- 以图片的大小来表示二进制，较小的图片 262 表示二进制 0 ，较大的图片 435 表示二进制 1
- 因为一个 十进制 可以由 八位二进制 数表示，先提取前八张图片的二进制为 01100100
  将其转换为十进制就是 100 ，如果 100 是 ascii ，转换成字符就是 d
- 同理第二组8位的二进制为 0110 0001 ，表示字符 a
  这样看来，思路有可能就是正确的

在线进制转换

支持在2~36进制之间进行任意转换，支持浮点型

○ 2进制　○ 4进制　○ 8进制　○ 10进制　○ 16进制　○ 32进制　| 2进制 ▾ |

转换数字 | 01100100 |

○ 2进制　○ 4进制　○ 8进制　● 10进制　○ 16进制　○ 32进制　| 10进制 ▾ |

转换结果 | 100 |

二进制	十进制	十六进制	图形
0110 0000	96	60	`
0110 0001	97	61	a
0110 0010	98	62	b
0110 0011	99	63	c
0110 0100	100	64	d
0110 0101	101	65	e

[3]. 提取压缩包

使用python创建一个脚本来提取压缩包内的文件名和文件大小，参考的文章是python创建和读取压缩包(zip类型)

算法的大致思路如下：

- 先提取压缩包内的所有文件名和文件大小
- 因为 zipobj.namelist() 文件列表中的文件名不是按递增排序的，所以需要先将文件名和文件大小提取到另一个列表内
- 第一条数据是空的需要删除
- 这个大列表内存在着许多的小列表，每个子列表代表一个文件，子列表的第一个元素是文件名称，第二个元素是文件大小
- 因为文件名称是以 out/名称 为格式的，所以需要删除后缀和 out/ 字符串，保留数字后再转换成数字类型
- 使用 sorted() 函数对大列表进行递增，如果列表的元素都为列表时，默认会按每个子列表的第一个元素递增排序
- 之后的操作就是将文件大小替换成 0 和 1 ，每 8 位二进制就转换成十进制，然后再从十进制转换成 ASCII 码对应的字符
- 最后把字符结果写入文件

```python
# 作者: 小狐狸FM
import zipfile
lis = []
result = ""
data = ""
size = 1
with zipfile.ZipFile('love.zip', 'r') as zipobj: #读取压缩包
    for file_name in zipobj.namelist(): #遍历名称
        info = zipobj.getinfo(file_name)
        file_name = file_name.encode('cp437').decode('gbk')
        lis.append([file_name,info.file_size])
# print(lis)
del lis[0]
for i in range(len(lis)): #处理文件名和数据
    lis[i][0] = lis[i][0].replace("out/","")
    lis[i][0] = lis[i][0].replace(".png", "")
    lis[i][0] = int(lis[i][0])
    if lis[i][1]==262:
        lis[i][1]='0'
    else:
        lis[i][1]='1'
# print(lis)
lis = sorted(lis)
# print(lis)
for i in range(len(lis)):
    data += lis[i][1] #数据大小
    if len(data)%8==0: #集齐八位二进制时
        result+=chr(int(data,2))
        data=""
with open("2.txt","w") as fp:
    fp.write(result)
```

执行完毕后，会输出一段字符到文件中
这个格式是图片的 `base64` 形式

data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAAAPAAAAFeCAMAAACM6mKKAAAAP1BMVEXz6NxCN3W0mJPStaT/8qX////++Og6MEL/6r
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