

pydis2ctf

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WriteUp来源

<https://dunsp4rce.github.io/csictf-2020/reversing/2020/07/22/pydis2ctf.html>

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题目描述

I learnt Python in school but I have no clue what this is!

题目考点

解题思路

The contents of C1cipher and C2cipher appear to be Python disassembly. Manually converting this to Python code, we would have something like:

```
1 def C1cipher(text):
2     ret_text = ''
3     for i in list(text):
4         counter = text.count(i)
5         ret_text += chr(2*ord(i) - len(text))
6     return ret_text
7 def C2cipher(inpString):
8     xorKey = 'S'
9     length = len(inpString)
10    for i in range(length):
11        inpString = inpString[:i] + chr(ord(inpString[i]) ^ ord(xorKey)) + inpString[i+1:]
12    return inpString
```

*The first cipher replaces each character i in the input text with chr(2*ord(i) - len(text)), while the second cipher XORS every character in the input text with 'S'. To reverse the first cipher, I wrote the following function:*

```
1 def C1rev(text):
2     ret = ''
3     for i in text:
4         ret += chr((ord(i)+len(text))//2)
5     return ret
```

To reverse the second cipher, xor(inpString, 'S') is sufficient (xor function from the pwn library is used). However, only C1rev was enough to get the flag; seems like C2cipher wasn't used at all.

Flag

```
1 csictf{T#a+_wA5_g0oD_d155aSe^^bLy}
```

- 本文作者: CTFHub
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