




2022 长安“战疫”网络安全卫士守护赛 WriteUp

原创

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75 篇文章 28 订阅

订阅专栏

麻薯星的zyz想要生猴子!!!麻薯星的zyz想要生猴子!!!麻薯星的zyz想要生猴子!!!

队友第一轮做了俩Web之后就摆烂了 寄

总体来说长安战疫基本大部分题都偏向入门, 适合大一新生练练手

少部分多百度也能做。

还有很小部分就看积累吧。

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Misc

八卦迷宫

按照迷宫走然后取字的拼音即可

字是战长恙长战恙河长山山安战疫疫战疫安疫长安恙

flag是:

```
cazy{zhanchangyangchangzhanyanghechangshanshananzhanyiyizhanyianyichanganyang}
```

朴实无华的取证

首先查看版本 imageinfo得到WinXPSP2x86

然后pslist, 注意到

```
-----  
0x8214fa00 System          4      0      56      364 ----- 0  
0x81cfe778 smss.exe          588      4      3      19 ----- 0 2021-12-27 00:51:12 UTC+0000  
0x81b39da0 csrss.exe         636     588     12     841 0 0 2021-12-27 00:51:13 UTC+0000  
0x81ffb020 winlogon.exe      668     588     23     526 0 0 2021-12-27 00:51:13 UTC+0000  
0x81b3bbf0 services.exe    712     668     15     308 0 0 2021-12-27 00:51:13 UTC+0000  
0x81c80478 lsass.exe        724     668     21     360 0 0 2021-12-27 00:51:13 UTC+0000  
0x81b27370 vmacthlp.exe     908     712     1      25 0 0 2021-12-27 00:51:13 UTC+0000  
0x81b3da70 svchost.exe      924     712     17     205 0 0 2021-12-27 00:51:13 UTC+0000  
0x82076b18 svchost.exe     988     712     10     296 0 0 2021-12-27 00:51:13 UTC+0000  
0x81f228b8 svchost.exe    1084    712     72    1491 0 0 2021-12-27 00:51:13 UTC+0000  
0x81b11450 svchost.exe    1176    712     6      93 0 0 2021-12-27 00:51:13 UTC+0000  
0x81b4eda0 Pinyin_2345Svc. 1196    712     17     367 0 0 2021-12-27 00:51:13 UTC+0000  
0x81b70be8 svchost.exe    1312    712     3     103 0 0 2021-12-27 00:51:14 UTC+0000  
0x81f5b440 Protect_2345Exp 1324    712     11     335 0 0 2021-12-27 00:51:14 UTC+0000  
0x81f06da0 Pic_2345Svc.exe 1368    712     26     432 0 0 2021-12-27 00:51:14 UTC+0000  
0x81b1c620 ZhuDongFangYu.e 1508    712     19     235 0 0 2021-12-27 00:51:14 UTC+0000  
0x81bae4b0 spoolsv.exe    1764    712     10     136 0 0 2021-12-27 00:51:14 UTC+0000  
0x81b1eda0 explorer.exe    1904   1820    33     980 0 0 2021-12-27 00:51:14 UTC+0000  
0x81bf7748 2345PinyinCloud 2016   1904     21     390 0 0 2021-12-27 00:51:15 UTC+0000  
0x81b62c20 FaceTool_2345Pi 304    2016    12     230 0 0 2021-12-27 00:51:16 UTC+0000  
0x81c1a020 360tray.exe     916   1904   158    1704 0 0 2021-12-27 00:51:18 UTC+0000  
0x81bdd9b8 vmttoolsd.exe    944   1904     10     345 0 0 2021-12-27 00:51:18 UTC+0000  
0x81c7cc80 ctmon.exe       932   1904     6     180 0 0 2021-12-27 00:51:18 UTC+0000  
0x81b5ada0 2345PinyinUpdat 1052   1196    0 ----- 0 2021-12-27 00:51:18 UTC+0000  
0x81d78770 TsBrowserSvr.exe 2856    712     12     217 0 0 2021-12-27 00:51:40 UTC+0000  
0x81d29670 VGAuthService.e 2916    712     2      60 0 0 2021-12-27 00:51:40 UTC+0000  
0x81c215c8 vmttoolsd.exe    3420    712     7     273 0 0 2021-12-27 00:51:52 UTC+0000  
0x81f09750 alg.exe        3820    712     5     104 0 0 2021-12-27 00:51:53 UTC+0000  
0x81a18768 wmiprvse.exe    3844    924     13     302 0 0 2021-12-27 00:51:53 UTC+0000  
0x819ad580 360bdoctor.exe 2832    916     9     262 0 0 2021-12-27 01:02:55 UTC+0000  
0x819a78f8 360seupdate.exe 440    2832    0 ----- 0 2021-12-27 01:02:55 UTC+0000  
0x819b45f8 sesvc.exe     3920   2832    0 ----- 0 2021-12-27 01:02:56 UTC+0000  
0x81c47308 svchost.exe    3488    712     5     128 0 0 2021-12-27 01:40:27 UTC+0000  
0x81fd27e8 softupnotify.ex 2936    916     0 ----- 0 2021-12-27 01:40:40 UTC+0000  
0x819b0970 mspaint.exe     3888   1904     9     258 0 0 2021-12-27 01:44:37 UTC+0000  
0x81a08da0 conime.exe    3260   2124     9     183 0 0 2021-12-27 01:44:47 UTC+0000  
0x81d68a50 IEXPLORE.EXE 3748   1904     21     578 0 0 2021-12-27 01:44:52 UTC+0000  
0x819d6a18 wdswwsafe.exe  2136    916     4      70 0 0 2021-12-27 01:44:52 UTC+0000  
0x819c98a0 softupnotify.ex 884     916     0 ----- 0 2021-12-27 01:44:52 UTC+0000  
0x81c2b2f0 IEXPLORE.EXE  3976   3748     37    1374 0 0 2021-12-27 01:44:52 UTC+0000  
0x819b23b0 softupnotify.ex 1916    916     0 ----- 0 2021-12-27 02:00:18 UTC+0000  
0x81c33630 softupnotify.ex 972     916     0 ----- 0 2021-12-27 02:03:28 UTC+0000  
0x81f2c7e0 notepad.exe    2976   1904     6     180 0 0 2021-12-27 02:27:06 UTC+0000  
0x81c7f630 360zip.exe     3388   1904     10     366 0 0 2021-12-27 02:28:39 UTC+0000  
0x81d4d020 2345PicViewer.e 3812   1904     23     378 0 0 2021-12-27 02:36:41 UTC+0000  
0x81923020 taskmgr.exe    3628    668     9     188 0 0 2021-12-27 02:37:11 UTC+0000  
0x81c30da0 DumpIt.exe    3300   1904     1      16 0 0 2021-12-27 02:37:38 UTC+0000  
-----  
mumuzi@kali:~/桌面$ volatility -f xp_sp3.raw --profile=WinXPSP2x86 notepad
```

CSDN @是Mumuzi

于是:

但是我写了几次都没写对

。。。于是有了这个脚本

```
s = 'fdcb[8ldq?zloo?fhuwdlqob?vxffhgg?lq?iljkwllqj?wkh?hslghplf]'
for i in s:
    if(ord(i)>=ord('a') and ord(i)<=ord('w')):
        print(chr(ord(i)-3),end='')
    elif(i == 'a'):
        print('x',end='')
    elif(i == 'b'):
        print('y',end='')
    elif(i == 'c'):
        print('z',end='')
    elif(i == "|"):
        print('_')
    else:
        print(chr(ord(i)+32),end='')
#ca`_{Xian_sill_certainl__s~ceed_in_fighting_the_epidemic}
```

查了一下certainl后面应该还有个y

然后前面那个单词是will，后面那个单词是succeed，于是得到flag提交正确

```
cazy{Xian_will_certainly_succeed_in_fighting_the_epidemic}
```

无字天书

导出HTTP流，在导出的其中两个文件发现hex串，都是很明显的zip，hex→ascii，得到zip，打开zip得到两文件，一个key.ws一个flag.txt

ws很明显的whitespace，直接<https://vii5ard.github.io/whitespace/>得到key:XiAnWillBeSafe

然后flag.txt很明显的SNOW

```
.\SNOW.EXE -p XiAnWillBeSafe -C .\flag.txt
```

```
PS C:\Users\mumuzi\Desktop\便捷工具之快捷方式> .\SNOW.EXE -p XiAnWillBeSafe -C .\flag.txt
cazy{C4n_y0u_underSt4nd_th3_b0oK_With0ut_Str1ng}
```

```
cazy{C4n_y0u_underSt4nd_th3_b0oK_With0ut_Str1ng}
```

西安加油

查看流量包发现大量的base64串，导出http发现secret.txt，base64解码发现是zip，保存后打开发现是拼图

因为不知道大小，所以猜了一个12*4

```
命令montage *png -tile 12x4 -geometry 100x100+0+0 out2.png
```

然后用gaps

```
python3 gaps --image=out2.png --generations=10 --population=48 --size=100 --save
```

我gaps有问题，代数太多跑一会就报错，不加save跑完就直接报错。。。


```
, 69, 119, 77, 68, 69, 119, 77, 68, 69, 120, 77, 84, 69, 120, 77, 84, 69, 119, 77, 84, 69, 120, 77, 68, 65, 119,
77, 68, 69, 120, 77, 68, 65, 120, 77, 68, 69, 119, 77, 68, 65, 120, 77, 70, 120, 117, 77, 68, 65, 120, 77, 68,
65, 119, 77, 84, 69, 119, 77, 84, 69, 120, 77, 68, 69, 120, 77, 68, 69, 120, 77, 68, 65, 120, 77, 84, 65, 119, 7
7, 84, 69, 119, 77, 68, 69, 120, 77, 68, 65, 120, 77, 84, 69, 119, 77, 86, 120, 117, 77, 84, 69, 120, 77, 68, 69
, 119, 77, 68, 69, 120, 77, 68, 65, 119, 77, 84, 69, 120, 77, 84, 69, 120, 77, 84, 65, 120, 77, 84, 65, 120, 77,
68, 65, 120, 77, 84, 65, 119, 77, 68, 65, 119, 77, 68, 65, 120, 77, 70, 120, 117, 77, 68, 65, 119, 77, 68, 69,
120, 77, 84, 65, 120, 77, 68, 69, 119, 77, 68, 65, 120, 77, 84, 69, 119, 77, 68, 65, 119, 77, 68, 69, 119, 77, 8
4, 69, 119, 77, 84, 69, 120, 77, 84, 69, 120, 77, 68, 69, 120, 77, 86, 120, 117, 77, 84, 69, 119, 77, 84, 69, 11
9, 77, 68, 69, 120, 77, 68, 69, 119, 77, 84, 69, 119, 77, 84, 65, 119, 77, 84, 69, 119, 77, 68, 65, 120, 77, 68,
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7, 68, 65, 120, 77, 84, 65, 119, 77, 68, 69, 120, 77, 84, 65, 119, 77, 68, 69, 120, 77, 68, 65, 120, 77, 68, 65,
119, 77, 68, 65, 120, 77, 68, 69, 119, 77, 84, 65, 119, 77, 70, 120, 117, 77, 84, 65, 119, 77, 84, 69, 119, 77,
84, 69, 120, 77, 84, 69, 119, 77, 84, 69, 120, 77, 68, 69, 120, 77, 68, 65, 120, 77, 68, 65, 120, 77, 84, 69, 1
20, 77, 84, 69, 119, 77, 84, 65, 120, 77, 84, 69, 119, 77, 86, 120, 117, 77, 84, 69, 119, 77, 84, 69, 119, 77, 6
8, 65, 120, 77, 68, 69, 120, 77, 84, 65, 119, 77, 68, 65, 119, 77, 68, 69, 119, 77, 84, 69, 120, 77, 68, 69, 120
, 77, 68, 65, 119, 77, 84, 65, 120, 77, 84, 65, 120, 77, 70, 120, 117, 77, 68, 65, 120, 77, 84, 65, 119, 77, 84,
65, 119, 77, 68, 69, 120, 77, 84, 69, 119, 77, 84, 69, 119, 77, 68, 65, 120, 77, 84, 69, 120, 77, 68, 69, 119,
77, 68, 69, 119, 77, 68, 69, 120, 77, 84, 69, 119, 77, 86, 120, 117, 77, 68, 69, 119, 77, 84, 65, 119, 77, 68, 6
5, 119, 77, 84, 69, 120, 77, 68, 69, 119, 77, 84, 69, 120, 77, 68, 69, 120, 77, 68, 69, 119, 77, 84, 69, 120, 77
, 84, 69, 120, 77, 68, 69, 119, 77, 68, 65, 120, 77, 70, 120, 117, 77, 68, 69, 119, 77, 84, 65, 120, 77, 84, 65,
120, 77, 84, 65, 119, 77, 84, 65, 119, 77, 84, 65, 119, 77, 68, 65, 119, 77, 68, 69, 120, 77, 68, 69, 119, 77,
68, 65, 120, 77, 68, 65, 120, 77, 84, 69, 120, 77, 86, 120, 117, 77, 68, 69, 120, 77, 68, 69, 119, 77, 68, 65, 1
20, 77, 68, 65, 119, 77, 84, 69, 120, 77, 68, 65, 120, 77, 68, 69, 120, 77, 68, 65, 120, 77, 84, 65, 120, 77, 84
, 69, 120, 77, 84, 65, 119, 77, 84, 69, 119, 77, 70, 120, 117, 77, 68, 69, 120, 77, 84, 65, 119, 77, 84, 69, 120
, 77, 84, 69, 119, 77, 68, 65, 119, 77, 68, 65, 120, 77, 68, 69, 120, 77, 68, 69, 120, 77, 68, 69, 120, 77, 84,
65, 119, 77, 84, 69, 120, 77, 84, 69, 119, 77, 70, 120, 117, 77, 68, 69, 119, 77, 68, 69, 120, 77, 68, 65, 120,
77, 68, 69, 120, 77, 68, 65, 120, 77, 68, 69, 119, 77, 68, 65, 120, 77, 68, 69, 120, 77, 84, 65, 120, 77, 84, 65
, 119, 77, 68, 65, 119, 77, 68, 65, 119, 77, 70, 120, 117, 77, 84, 69, 120, 77, 84, 69, 120, 77, 84, 69, 119, 77
, 84, 65, 120, 77, 84, 65, 119, 77, 84, 69, 120, 77, 68, 65, 120, 77, 84, 69, 119, 77, 68, 69, 119, 77, 84, 65,
120, 77, 84, 69, 119, 77, 84, 65, 120, 77, 86, 120, 117, 77, 68, 65, 119, 77, 68, 65, 119, 77, 68, 69, 120, 77,
84, 65, 119, 77, 68, 69, 120, 77, 84, 65, 120, 77, 84, 65, 120, 77, 68, 69, 120, 77, 68, 65, 119, 77, 84, 65, 12
0, 77, 68, 69, 119, 77, 68, 69, 119, 77, 70, 120, 117, 77, 68, 69, 120, 77, 84, 69, 120, 77, 68, 69, 120, 77, 84
, 69, 120, 77, 84, 65, 119, 77, 84, 69, 119, 77, 70, 120, 117, 77, 68, 69, 120, 77, 84, 69, 120, 77, 68, 69, 120,
77, 84, 69, 120, 77, 68, 69, 119, 77, 68, 65, 120, 77, 84, 69, 119, 77, 84, 69, 120, 77, 84, 65, 119, 77, 68,
69, 120, 77, 68, 69, 120, 77, 70, 120, 117, 77, 68, 65, 119, 77, 68, 65, 119, 77, 68, 69, 120, 77, 84, 69, 120,
77, 84, 65, 120, 77, 84, 69, 120, 77, 68, 69, 120, 77, 68, 65, 119, 77, 68, 65, 119, 77, 68, 69, 119, 77, 68, 6
5, 120, 77, 84, 65, 119, 77, 65, 61, 61]
for i in s:
    print(chr(i),end='')
```

得到base64，解码是01串，明显的二维码


```
<?php define('IK1Sux1227', __FILE__); $DusPFR=base64_decode("
bJf6Y19tYTVcdnQwaTI4LBx4dXF5KjZscmtkzZ1fZWhjc3dvNctmMzdqZHF0z3lP2VBVY1VaTH8DdUhuYm1ndkZz1NhUF1sUpCtmpSvmtLeFFeFVdJcnpFb1hHaA=="); $arCiCL=$
DusPFR[3].$DusPFR[6].$DusPFR[33].$DusPFR[30]; $VvUrBZ=$DusPFR[33].$DusPFR[10].$DusPFR[24].$DusPFR[10].$DusPFR[24]; $DEomKk=$VvUrBZ[0].$DusPFR[18].$
DusPFR[3].$VvUrBZ[0].$VvUrBZ[1].$DusPFR[24]; $LnpnVY=$DusPFR[7].$DusPFR[13]; $arCiCL.=$DusPFR[22].$DusPFR[36].$DusPFR[29].$DusPFR[26].$DusPFR[30].$
DusPFR[32].$DusPFR[35].$DusPFR[26].$DusPFR[30]; eval($arCiCL("JFZDQlPRVz0iZ29NVFFoZXfPvYVpWdJtWwZSS1Nya1d0bmrFc1BaR2pBS3BDVnRCSUh3REZ4Y3pYTGx2eV1UY
21VdVbuZ3BzeXFib09saGpGSvP0U3d6bU1R3ZEeHRrWfZvZkQUpFc1JLTCNCUwV1Sj1BcGR4Wud2Vm9WtjVcDfH6WmhCdXvWmZyY0RmM2p1cmpGmNjPekXzcmNEZjN0aU1aR21qbmKw0WpITm
p1UjzZm1NF0VpHT1NRR3ZzVGZvamSoRedHcG1CME5WaE5PMmhxc0x6dVzWtjBpRXVYU3Z0T2hEVkNwQmtLTzIxMHAXazZidkdwVj11bk9LU1p6WjVkenYxU1BvaHJPMXo0ekV6cW1EVkdjMUdVnYv
xQXMXu3ZVMjvZKvRvVFZaVkl1VkvMR0vRG3CZktMWHVBek5tQXpkEkZ0Vmtc09ycG1xek9mRlhwVktCd1ZEV1podkVMc0JHaUdLMD1mZ1o3am1rM2JadTFWszBaR21qbmKw0Wp0S1N6Q2d0w1Vv
a0hpMEjIu0IwclWp2aFhWwJ1IR1ZNS2MxMHFqdmHycFo5SEZWTUtjRTA3amRHaG12emRGSzBaR21qbmKw0Wp0S2NLTEY0Wkdtdam5pMD1qTktTQuXGNFpHbWpuaTA5ak5LzjBMRjRaR21qbmKw0Wp0S
21BTEY0Wkdtdam5pMD1qTktTQuXGNFpHbWpuaTA5ak5LzjBMRjRaR21qbmKw0Wp0S2NLTEY0WncpCRWNHMHpDTktXekNnaDjzc3J3aDBhYmNMFqdmHycFo5SEZWTWTRTA3anYxVWRXZPSzBaR21qbmKw0Wp0S3p6Q2d0w1Vva0hpMEjIY21Ten11aHR6MjVme1ZScUHGaFpVb2tIaTBCYmNEanpD2haVW9rSGkwQmJjS0d6Q2d0w1Vva0hpMEjIY0RCEkN
naFpVb2tIaTBCYmNER3pD2haVW9rSGkwQmJjS1d6Q2d0w1Vva0hpMEjIY0tqekNnaFpVb2tIaTBCYmNLVnpD2haVW9rSGkwQmJjREd6Q2d0w1Vva0hpMEjIY0tXenkyVjJPTkFUam1rM2JadTFW
ZV1nr1pwcG1WVHJszGt0cERXa1ZFVjBSQIR1U0xoc2h0ck1ZtnJwcEjQ105vQ1p0tmhFR05hVE9WR05HbWpajVFUS1YwenZVMphUEVWRzETV0WnpBaHZmZXBfa1Zjb3JpczJyTVNFVUtoWj1Wa
FzqS1Z2NU16V1RBekVXZ2h0dUZPS2pwcZFaS05CekJidmhTV1pWexBwQk5SS1dwVks5yTk9EV05oMVZkykVoZ1ZOVUtWRXVYUHZWZHNQC1pWb3J1czIxQVBORUv0wmpCc69yTVZCVjRwd1ZwaEJ1eW
hKZ2tP52p0Y0JCTHoyOXRF1JRndaMHAXu3FHZFzPrkVHT0YwU0ZjQ1ZUWHY1RmNkU1FGWkdNyk5qZk5Eak5VMnpJc29hNGJcenFpQnpjVTFqMhNCVnZzQmphaUxTdGhLRXZzVkd2aDFCNXAZU3Rob3JhT1p1cGNCR0pHMmfGcDN1cVYyNX1WMHJtVUXtdGhLRXZzVkd2aDFCNXAZV0NzMK0zZmdaa31LOct1Sj1B
cGR4Wud2Vm9WtjVcDfH6Zed0U3RicrY0RmM2p1cmpGmNjPekXzcmNEZjN0aU1aEJRUVBtaJBITmp1UjzZm1NF0VpHT1NRR3ZzVGZvamSoRedHcG1CME5WaE5PMmhxc0x6dVzWtjBpRXVYU3Z0T
2hEVkNwQmtLTzIxMHAXazZidkdwVj11bk9LU1p6WjVkenYxU1BvaHJHc1ZaVnZtZVNMEkRiRV0yT0tFrk52aGFwMmhWp1HME90MVR0TKVPYkVFNWoc1VzS1dGekJFSWjTYU5WMEduc1ZzMXBwa1
ZwZFNWRm1HdXNVNUZjVmhkTm81c3NpMDmZ1o3anYxvYydw1G5jBaaEJRUVBtaJbOS1N6Q2dodk5v0TRVd2hiU0IwclwptR3BIM3VYekVNS2MxMHFqbUdwYjN1WhpFTUtjRTA3akVHR1YyUzRHSjB
aaEJRUVBtaJbOS2NLTEY0WmCa1FQbWlWktTQuXGNFpOqmtRUG1qME5LzjBMRjRaaEJRUVBtaJbOS21BTEY0WmCa1FQbWlWktTQuXGNFpOqmtRUG1qME5LzjBMRjRaaEJRUVBtaJbOS3p6Q2dodk5v0TRVd2hiY21Ten11a
WhpFTX3SRTBxam1HcG1ZdVh6RU1LTYE0W1ZCQkXP3VaTktXekNnaE50VnpEUHJz0YmNMFHqBUDwYjN1WHPFTWTRTA3anZClnoyc1NzSbAaeJRUVBtaJbOS3p6Q2dodk5v0TRVd2hiY21Ten11a
GF1QnpUczBZUHGaH0zbx0VxdoYmNEanpD22h2Tm85NFV3aGjJSD6Q2dodk5v0TRVd2hiY0RCEkNnaH20bzK0VXdoYmNLVnpD22h2Tm85NFV3aGjJSD6Q2dodk5v0TRVd2hiY0tqekNnaH20bz
K0VXdoYmNLVnpD22h2Tm85NFV3aGjJREd6Q2dodk5v0TRVd2hiY0tXenkyVjJPTkFUanYxvYydw1GwF1nr1p6cHmXvNfzRGHhUERXa1ZOYTRpMhJY21oQmJ0dw1Zwz3Z0RUZCekZj0d1czF
1WnpWazRjTEJnaEjQ1TnNpZBob0VMR3YxQ1ZvcnJWavN5UEVFT1VaYVpObwpczB6TnBFenZHZGpnYzFmXMXek1S01pya18R1ZzRzRPREVGT1ZWRUd2ckZWtGhKvM1zcnMjU2RTVmp0Y0JR53Na
R01oRWhJTNdrWmMEbTJMEdwY0JTFZJQZ50RUXwcz11dHN2RWRzRGpovNzYsNfMNU5Mlmp2VkJTRFZCanZPMmFMTVjJQX1za2dWm2hmTzFwdHB2U0xprFN0Mv1ac1zenZzMD1PukVHRMzNzAMP
Fd0cDJqRWmQM1WS1zj0RTd1UxQk9ob2twY1o1NXmXUjF1bTFuYmRfC05FR2pVkdORkVaZVN0dVpjm1dLtm9ydeZvVnFpd0JpV1o1Y3NaUjFVSWmpR0VfEwhMaGZwC2hGaUjmc1V3RUZORUd1c2
1qTnMyU05pWkd0Y3ZyQVZVjRjRwNvKxCR2MzV3PmMewUjJWRUzVYmHjZGhHm9heXB2aE5VQmt0Vks5oMudKvZBGRWpzaE3HVNAYTNzMK00U05FSXptdwdiTFd2c0RFV2N2amR0bZ1naExoYVZ
vYX1pdmhPUMrTaNkCa0XzaVcwY1ZHSW1LacnBIZfZdc0JHTWHFEVFWQ1dTVnNreUdFe1RwMvNnaG1Wk5FamhHBUdORnMwclJKV0dWmWt5VKV6Nhp2am5HdjFMVKJrbXNLanBWMW1BenYxTnAwNWN0
b3JwaEjV1ZCRXVi1C1Y1VnMwEYxVUtoREdYp1pra09vMTRGRVnKR3Z1U2J2UzVzMXVfU05FRVZCV21WmN1J2c0RFWnAXU22oaVzTKVqaEdtR05GczByUmRXR1Yxa31WRXo0enZfBUd2MUxWQmttC
0tqcFYxUBf6dJf0cDA1SE5CekZORW1TKj6AGnkaGfWb2F5aXz0VnBkVnNORUd0c29ytk5CR01iRUVTYm1mMk8za2pTVkdFemR1WmgycmNzW1ZNT1ZVZVNOcnBjZGg0TKRqdeZzXF0d0VpY0VqdE
9WR05zRU9BaUjQ38CanfZS1NaU29qRXP2MU5wMDVjR0VowF1xa01iRXp0Y2RoVYVYXRpQ1VbcEPhaXBLQmVzaVd0aVZwZfJka1NjMwprVkJoaMfbbWwQmhaaEVUMFZEajBVmUd0aFprWmJFR3B
zaWp0Y1ZG1k5aaG1jQmt1AUrQcE5CR01pWnJwYkVrbXNLanBWMW11aEJTVmhtan1PMmFU1ZjZU5aNVpJMDU1Tk5rT1NTMU55bXJOYzBzMYVwKfzb2h2c3dqVmh2dW50VmhFU1ZzZXptak5wMgt1
c1ZHQkYRTZGd3WntN1NU9v0a05T1N1U0v0FqKZtazFpQnVUUE5qbmJtQ1ZjM1dLc0tqcFYxUBf6SKVTadN1SE5cmh5c0JuenZYmJzR0tGMFNEQzFXa08zVnRoS0UxVkrQVZFUF0pHMf0YnZyT
05pU1RwMGFKc291cGJFT2VWREVoYjBrZE5CUZ1iQmYwTkcXMB3AyRUxZRFNnaG1fC0Yya2p5bXJkC291cGJFT2VWREVoYjBrZE5CUZ1iQmYwTkcXMB3AyRUxZRFNnaG1fC21tU0ZSRWtmR2RTc1ZaMu
FpbVNGcEVrTVZEak5jKvRR1p6cHmXvNfzRGHhUERXaE6M21EU0ZSRWtmR2RTc1ZaMUFGMVNUm05M0hpMgd0R1o3SEs0PS17ZXZhbCgnPz4nLiRhckNpQ0woJFZ2VXJcWiGkREVvBtrKCRWQ0JaUvC
sJExcG52WsoyKSwkREVvBtrKCRWQ0JaUvCsJExcG52WswkTg5WbnZJSwKREVvBtrKCRWQ0JaUvCsMcwKtG5WbnZKSKpKTs="));?>
```

CSDN @是Mumuzi

百度找一个解php混淆的，除去广告第一个就是<https://www.zhaoyuanma.com/phpjm.html>

解密得到flag

```
C:\Users\mumuzi\AppData\Local\Temp\Index-1.php - Sublime Text
文件(F) 编辑(E) 选择(S) 查找(I) 查看(V) 转到(G) 工具(T) 项目(P) 首选项(N) 帮助(H)
OPEN FILES
shell(1).php
shell.php
Index.php
Index-1.php
1 <?php
2 //加密方式：php源码混淆类加密。免费版地址：https://www.zhaoyuanma.com/phpjm.html 免费版不能解密，可以使用V
3 //此程序由[找源码]http://www.ZhaoYuanMa.Com（免费版）在线逆向还原，QQ：7530782
4 ?>
5 <?php
6 namespace app\controller;
7
8 use app\BaseController;
9
10 class Index extends BaseController
11 {
12     public function index()
13     {
14         if(!empty($_GET['pop'])){
15             unserialize(base64_decode($_GET['pop']));
16         }
17         return "Welcom to CAZT! Xi'an Come On!";
18     }
19
20     public function C4zyC0m30n()
21     {
22         return 'cazy{PHP_ji4m1_1s_s00000_3aSyYYYYYYYYYYY}';
23     }
24 }
25 ?>
```

CSDN @是Mumuzi

```
cazy{PHP_ji4m1_1s_s00000_3aSyYYYYYYYYYYY}
```

picpic (赛后)

能够确信bmp中插入了一个png，补齐png的头且删除掉多余的数据，得到一张png

chal.bmp		chal.png x																													
0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
:	89	50	4E	47	0D	0A	1A	0A	00	00	00	0D	49	48	44	52	%PNG.....IHDR														
:	00	00	0F	00	00	00	08	70	08	02	00	00	00	1F	DC	5Cp.....\														
:	25	00	00	20	00	49	44	41	54	78	01	24	C1	49	CC	AEIDATx.\$ÁIÎ@														
:	69	7A	18	E4	FB	99	9F	77	7E	BF	E9	1F	CE	39	35	74	iz.äû™ÿw~¿é.Î95t														
:	B5	ED	72	CB	C6	B6	2C	0C	C6	12	76	6C	12	01	12	22	µírĒÆŒ, .Æ.vl..."														
:	0C	C6	B0	47	58	08	24	B6	80	58	B0	62	91	05	8A	25	.Æ°GX.\$ŒEX°b`.š%														
:	36	51	E4	20	B1	63	B4	48	02	2B	3B	86	20	85	28	84	6Qä ±c'H.+;† ... („														
:	78	8A	BB	DB	3D	55	77	9D	AA	F3	4F	DF	F4	8E	CF	3C	xš»Û=Uw.*ó0ßóžĪ<														
:	70	BA	B8	2E	F4	B3	DF	F8	A5	97	97	97	FB	FB	DB	79	pCSDN@是Mumuzi														
:	D2	29	A5	FD	7E	F7	F2	F2	52	8A	62	BF	DF	3E	3C	3E	ò)xy~÷òòRšb;ß?<>														



CSDN @是Mumuzi

用stegsolve查看通道，能在b0看到很明显的线条



导出b0，发现开头俩字节是D9 FF，正好是jpg文件尾反过来的字节

chal.bmp	chal.png	flag
D9 FF	3F 70	C0 01 07 1C
07 1C	70 C0	01 07 1C 70
1C 70	C0 01	07 1C 70 C0
70 C0	01 07	1C 70 C0 01
C0 01	07 1C	70 C0 01 07
01 07	1C 70	C0 01 07 1C

于是搜索FFD8FF

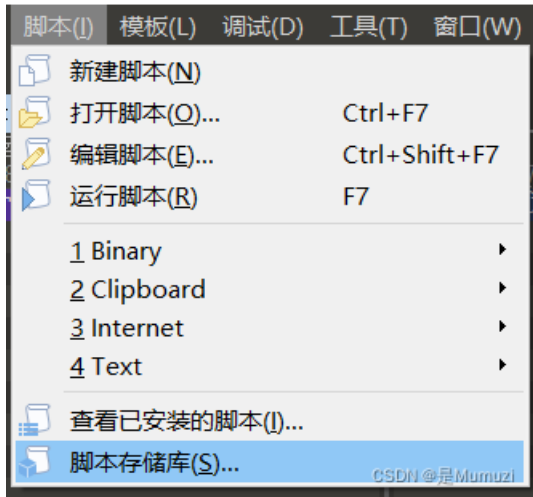
0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F	0123456789ABCDEF
03	03	03	03	02	02	01	02	02	02	01	01	02	01	01	01
01	01	01	01	03	03	03	03	03	03	03	03	03	03	02	02
02	02	02	02	02	02	02	02	02	01	01	01	01	01	01	01
01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01
01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01
01	01	01	01	00	84	00	DB	FF	D8	FF	11	CF	D9	0B	FB,Ûÿÿ.ïÙ.ú
34	86	5E	F6	F6	2E	48	1F	89	4D	90	1C	50	E5	13	90	4†^oo.H.%M..På..
49	B9	B4	B0	48	E3	1D	24	09	BE	87	AF	B5	24	C8	98	I¹'°Hã.ş.¼+µ\$È~
6C	BB	1B	02	C5	44	90	27	0E	A3	C8	13	90	BE	4E	85	l»..ÅD.'fÈ..¼N...
C3	9A	5C	35	9F	AC	0D	67	69	63	6E	5C	E3	88	2F	C8	Ãš\5CSDN@是Mèmuzi

删除掉后面的无关数据

然后写脚本反转一下字节即可

```
f = open('flag.jpg', 'wb').write(open('flag', 'rb').read()[::-1])
```

当然，如果不想打开python还有别的方法
选择脚本，脚本存储库



搜索reverse，下载stringreverse即可



运行脚本只需要点击脚本-Text-StringReverse即可

得到flag

flag{e0ca4ccd3586700e59eb87a4bd3527b5}

```
flag{e0ca4ccd3586700e59eb87a4bd3527b5}
```

Crypto

no_cry_no_can

就单纯的异或，通过格式cazy{找出key的值

```
key = b'\x5f\x11\x32\xff\x61'  
s = b'<pH\x86\x1a&"m\xce\x12\x00pm\x97U1uA\xcf\x0c:NP\xcf\x18~1'  
for i in range(len(s)):  
    print(chr(key[i%5]^s[i]),end='')
```

```
cazy{y3_1s_a_h4nds0me_b0y!}
```

no_can_no_bb

单纯的爆破key,给了key的范围是 $1,1 \ll 20$, 还好简单, 要不然就不会做了

```
from Crypto.Util.number import *
from Crypto.Cipher import AES
from tqdm import tqdm

def pad(m):
    tmp = 16-(len(m)%16)
    return m + bytes([tmp for _ in range(tmp)])

enc=b'\x9d\x18K\x84n\xb8b|\x18\xad4\xc6\xfc\xec\xfe\x14\x0b_T\xe3\x1b\x03Q\x96e\x9e\xb8MQ\xd5\xc3\x1c'
for i in tqdm(range(1<<20)):
    key=pad(long_to_bytes(i))
    aes=AES.new(key,AES.MODE_ECB)
    s = aes.decrypt(enc)
    if b'cazy{' in s:
        print(s)
```

no_math_no_cry

真就太久没学数学呗, 还有负根, 一开始都忘干净了, 果然我不适合做cry, 但还好这三道和密码学关系不是特别的大。

```
from Crypto.Util.number import*

import gmpy2
s = 107150860718626732094842504906000181056140481170553360744375038837035105112482116714891454004711300497129471
8850561218422071194997468927531634565607953858338909586981894281712724527860169512427162666804525047687772663818
2396614587807925457735428719972874944279172128411500209111406507112585996098530169
s -= 0x0338470
s = gmpy2.iroot(s,2)[0]
s = -s
s += (1<<500)
print(long_to_bytes(s))
```

```
cazy{1234567890_no_m4th_n0_cRy}
```

Reverse

combat_slogan

jdgui打开看main就看见加密的flag了, 上面函数明显的rot13

在线rot13解一下就行了, 然后套上flag{}

```
flag{We_w1ll_f1ght_t0_end_t0_end_cazy}
```

cute_doge

IDA打开ctf1.exe, 搜字符串, 看见ZmxhZ3tDaDFuYV95eWRzX2Nhenl9

base64解码就是flag

```
flag{Ch1na_yyds_cazy}
```

hello_py

```
uncomple6 easy_py.cpython-38.pyc > easy_py.py
```

出来一个py文件，看了下，首先进encrypt1进行异或，再进入encrypt2进行异或，然后输出和Happy进行比较

既然是这样，那不妨反过来，把num从9到0改成从0到9，把该减的地方改成加，该执行的顺序也换一下。

```

# uncompile6 version 3.7.4
# Python bytecode 3.8 (3413)
# Decompiled from: Python 3.8.7 (default, Dec 22 2020, 10:37:26)
# [GCC 10.2.1 20201207]
# Embedded file name: C:\Users\Administrator\Desktop\easy_py.py
# Compiled at: 2021-12-28 15:45:17
# Size of source mod 2**32: 1099 bytes
import threading, time

def encode_1(n):
    global num
    while True:
        if num <= 9:
            flag[num] = flag[num] ^ num
            num += 1
            time.sleep(0.1)
        if num > 9:
            break

def encode_2(n):
    global num
    while True:
        if num <= 9:
            flag[num] = flag[num] ^ flag[(num + 1)]
            num += 1
            time.sleep(0.1)
        if num > 9:
            break

while True:
    Happy = [
        44, 100, 3, 50, 106, 90, 5, 102, 10, 112]
    num = 0
    f = input('Please input your flag:')
    if len(f) == 10:
        print('Your input is illegal')
    else:
        flag = [44, 100, 3, 50, 106, 90, 5, 102, 10, 112]
        if(1 == 2):
            print('crazymumuzi!')
        else:
            print("flag to 'ord':", flag)
            t1 = threading.Thread(target=encode_1, args=(1, ))
            t2 = threading.Thread(target=encode_2, args=(2,))
            t2.start()
            t1.start()
            t1.join()
            t2.join()

            for i in flag:
                print(chr(i),end='')
            if flag == Happy:
                print('Good job!')
            else:
                print('No no no!')

```

okay decompiling easy_py.cpython-38.pyc

得到flag,包上flag{}即可

```
flag{He110_cazy}
```