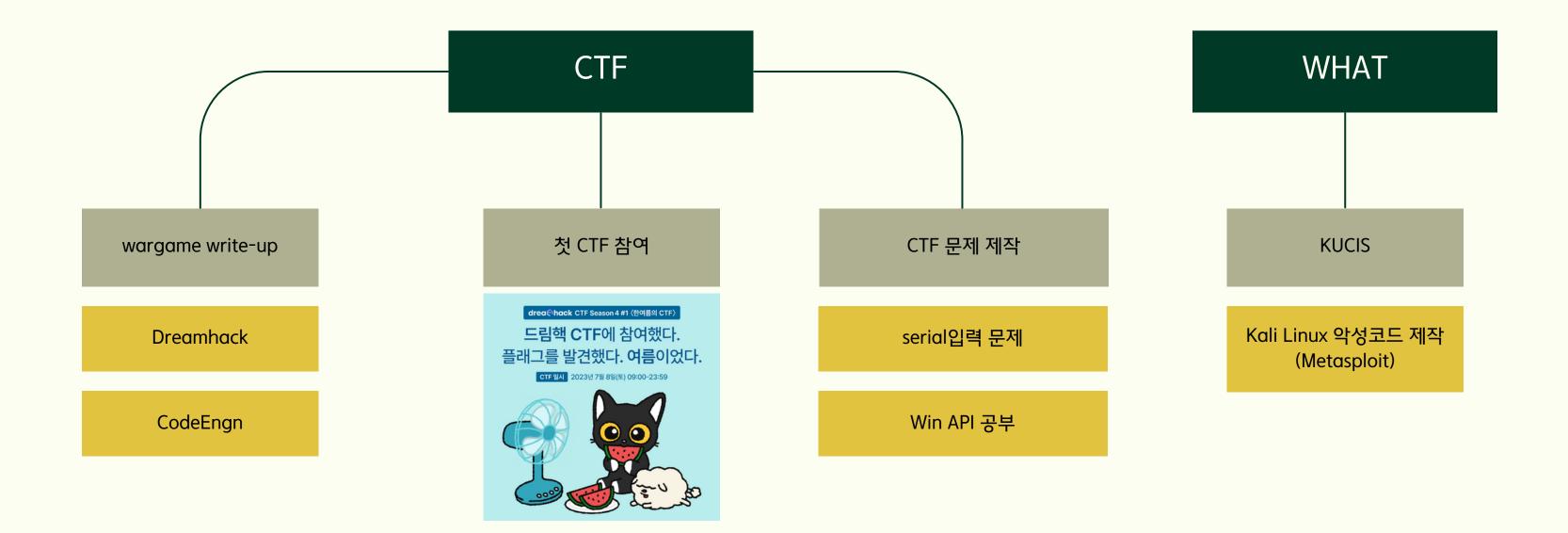
## **SV SCP**230712

### CTF + what

#### 230705 ~ 230712



#### why serial



기본..?



들어가는 코드와 수식에 따라 난이도 조절+ 다양한 변형 가능

#### 기본틀 코드

# @ sigma@DESKTOP-ILHADQ2: ~ #include <stdio.h> #include <string.h> #include <str

#### 실행시

```
sigma@DESKTOP-ILHADQ2:~$ ./ctftest_1
Input : test_test12t
collect
sigma@DESKTOP-ILHADQ2:~$ ./ctftest_1
Input : test_test123
wrong
```

#### what do this



- Name에 넣은 값을 반복문을 통해 serial 값 생성
- Key 값을 하나 주고 키값으로 반복문을 돌려 serial 생성
- + 패킹 후 키값을 언패 킹 전에 PUSH 하게 코 드이동(stolen byte)

#### 기본틀 문제점

```
0x5555554007fb <main+49>
                                               [rbp - 0x15]
                              MOV
0 \times 55555554007ff < main + 53 > 1
                                     byte ptr [rbp - 0x14],
                              MOV
                                     byte ptr [rbp - 0x13]
  <555555400803 <main+57>
                              MOV
                                     byte ptr [rbp - 0x12]
0x555555400807 <main+61>
                              MOV
<u>0x55555540080b <main+65></u>
                                               [rbp - 0x11]
                                     byte ptr
                              MOV.
                                               [rbp - 0x10]
                              MOV
0x555555400813 <main+73>
                                               [rbp - 0xf]
                              MOV.
 x555555400817 <main+77>
                                     byte ptr [rbp - Oxe]
                              MOV
0x55555540081b <main+81>
                                               [rbp = 0xd]
                                                             -0x74
                              MOV
0x55555540081f <main+85>
                                                           , 0x31
                                     byte ptr [rbp - 0xc]
                              MOV
0x555555400823 <main+89>
                                     byte ptr [rbp - 0xb]
                              MOV
```



배열의 flag값을 리버싱 툴 에서 바로 확인가능

```
0x00005555554007c8 in main ()
LEGEND: STACK | HEAP | CODE | DATA | <u>RWX</u> | RODATA
                                     — { REGISTERS / show-flags off / show-compact-regs off }—
RAX 0x0
RBX 0x0
RCX 0x0
RDX 0x7ffffffffe2f4 - 0xdaa11a0000007fff
RDI 0x7ffffffffe2f0 - 0x7ffff00000000
RSI 0x7fffffffe3e8 - 0x7fffffffe603 - '/home/sigma/ctf1_test'
R8 0x7ffff7dced80 (initial) - 0x0
R9 0x7ffff7dced80 (initial) - 0x0
R10 0x1
 R10 0x1
               155400630 (_start) ∢- xor ebp, ebp
       0x7ffffffffe3e0 ← 0x1
    0x0

0x0

0x0

0x7fffffffe300 → 0x555555400940 (__libc_csu_init) ← push r15

0x7fffffffe300 → 0x7fffffffe3e8 → 0x7ffffffe603 ← '/home/sigma/ctf1_test'

0x5555554007c8 (main+142) ← mov byte ptr [rbp - 0x6b], 0x73

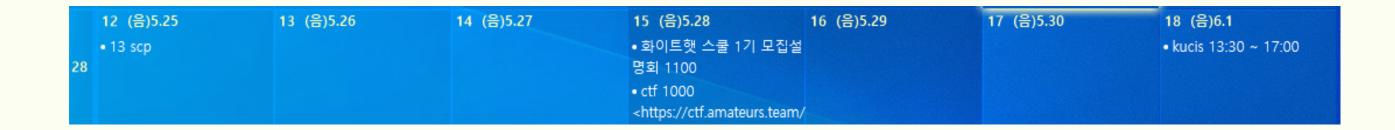
— f D[SASM / x86-64 / set emblate on ]
R14
R15
RBP
RSP
   0x5555554007b4 <main+122>
0x55555554007b8 <main+126>
                                                 byte ptr [rbp - 0x70], 0x70
byte ptr [rbp - 0x6f], 0x74
  0x55555554007bc <main+130>
0x55555554007c0 <main+134>
0x55555554007c4 <main+138>
                                                 byte ptr [rbp - 0x6e], 0x70
                                                 byte ptr [rbp - 0x6d]
                                                                             , 0x65
                                                 byte ptr
                                                              [rbp - 0x6c]
                                                                              0x70
                                                 byte ptr
                                                              [rbp - 0x6b]
                                                                             , 0x73
  0x5555554007cc <main+146>
0x5555554007d0 <main+150>
0x5555554007d4 <main+154>
0x5555554007d8 <main+158>
                                                              [rbp - 0x6a]
                                                                              0x70
                                                 byte ptr
                                                 byte ptr [rbp - 0x69]
                                                 byte ptr [rbp - 0x68]
                                                 byte ptr [rbp - 0x67]
   0x5555554007dc <main+162>
                                                 byte ptr [rbp - 0x66], 0x70
Ox7fffffffe268 ← OxO
Ox7fffffffe270 → Ox7fffffffb2a8 ← add byte ptr [rax], al /* 'J' */
Ox7fffffffe278 ← OxO
 03:0018
 0020 (
 05:0028
                 2 skipped
 ▶ 0 0x5555554007c8 main+142
        0x7fffff7a03c87 __libc_start_main+231
               rsp 0x7fffffffe250 → 0x7fffffffe3e8 → 0x7fffffffe603 ←
01:0008
                       0x7fffffffe258 - 0x100000000
                                               ) ← 0x1ffffffff
02:0010
03:0018
                                                04:0020
                       0x7fffffffe270 ← 0x65747fff00000000
05:0028
                       0x7fffffffe278 <- 'st_test12t'
06:0030
                       0x7fffffffe280 ◄-  0xa696e007432 /* '2t' */
                                                 ∢− 0x0
```

#### Win API



win API 를 사용하여 문제만들기 Win API 공부 중....

#### do next week



CTF

Win API 공부 + CTF문제 만들기 CTFtime | CTF 참여 wargame WHAT

KUCIS 강의 - 랜섬웨어 화이트햇 스쿨 1기 모집설명회

## End