Stack 4 Continued

ash [111

/x opon #/

Push 0x7478 inou rax, 0x742eG7G16c662fde push rax,

of four lytes to ro East mov eax, 2 nou rdi, rsp -7 sets to 0 Yor esi, esi -> sets to of You edx, edx Sysall_opin

18 Soud file 8/

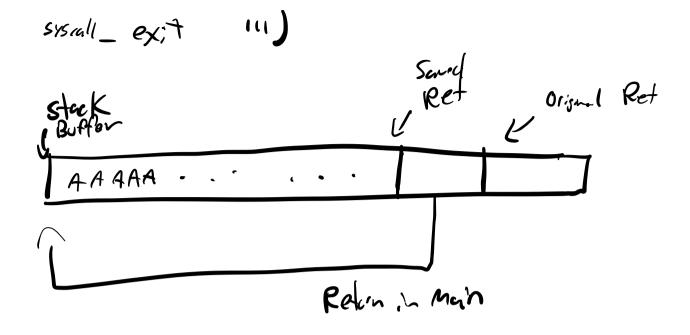
mov es; , eax mov eax, 40 -s sets to Std Out mou edi, 1 -5 sels to 0 Xov edt, edx

rou No, off

Sysall - send file

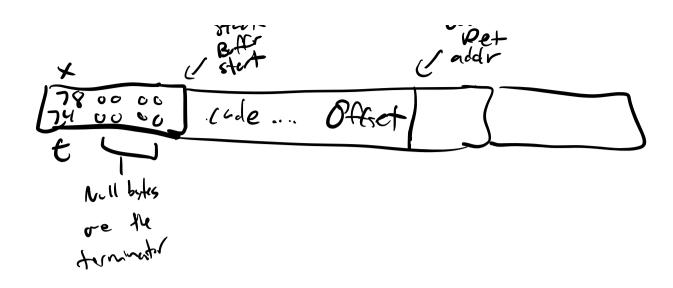
now any, 60

assort b'In not in code



- A system call done incorrectly will result in a negative number as its callback.
- to Put 2006 in a resider, we use dor instruction to issure null bytes since the fre string terminaturs
- · First Section of instructions put the flag flexame out the stock
- 0x7478 gets pushed onto the stack in front of the Suffer

alak

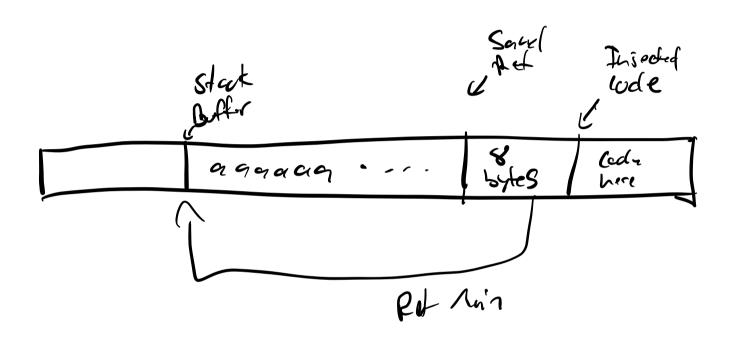


- · Stack addresses are very inconsistent
- · they routilely change which makes from hard to use from for an exploit

Debug astions

- 1.) Code could be hong
- 2.) Offset Could be wrong
- 3.) Buller Address could be wrong

4.) Failed Syscall / Impar Set Up 5.) Check if ASZR is on



Plat (& offset: buffr-adar + offset +83, code)

PIE = Position Judgelled Executable
15 wested for ASIR

NX bit allows you to declare pupers in the executable as non executable

X/gx & rsp to see autial layor in menongs

Chark & RAX to cleck if syscalls worked

. It you see not of:

BYTE PTR Crax], al

in grow you tour source van into g lot of nell bytes that its looky for

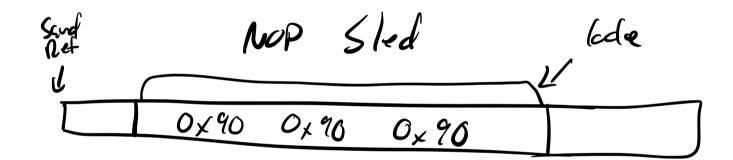
Lon use core file as 1st arsownt with gdb to see whee prom failed

1,4; # rip to see if any instrating

X/4; coddr) + # of 4/15

Suffer - addr + (# of Sytes off)

Alon use Nop Sted to bother truck & the exploit to hit our injected cooks



Nep Sted provides q buch of presible addresses that Lib veselt in a successful exploit

Offsot = 56 NUD = ash (shell caft. cholay. nupsy) × 90 Suffer_addr = 0x 00 - Cude = 95m (shall craft. and G4. 5h C))

Replied _ 8tr = Flat (Soffert: Suff + 6fts-1+83) (cade)

have,

P- soulline (axplit-str)

Printeractive ()

from puntiols impart *

Shell craft. and G4. sh()

- 1. 6' sh/x00' , XOV

Renaus nul Lutar push Oxololol 1 Ox6873 Refrs to Xer duch ptr Greo), ox ololol & orising value

{push sys_exec to avoid hall betes {pop rax as hell

Shelloraft.ond64. nops

If you see got EUF then you did not sunstally set note a shoul

he careful running off the botton of the stack with a nop stad

Places Environt laws for scrift

Environment Ur and New use a book of shed to hit it