

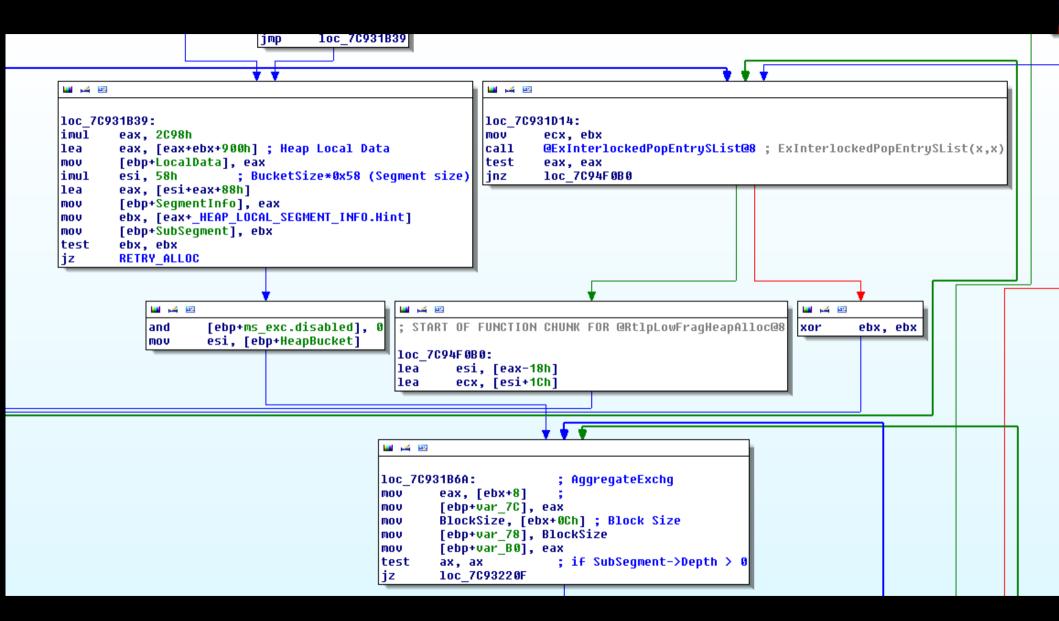
My name is Nico Waisman and I have an obsession







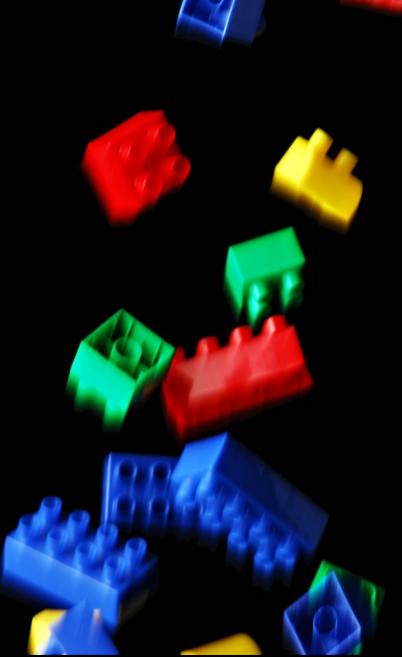
Heap dump 0x00150000				
Address	Chunks			
Address 0x00000000 0x00150000 0x00150000 0x00150000 0x00000000 0x00000000 0x00000000	Chunks #### Imwunity's Heapdung ### Dumping heap: 0:000150000 Flags: 0:00000000 Total Free Size 0:0000002 Forceflags: 0:00000000 SegmentIB: 0:00000000000000000000000000000000000			
0x001cb348 0x026f4848 0x035cf848 0x035ce048 0x02e00008 0x02e00008 0x026c2448 0x026c2448 0x026c9568 0x040d9008 0x03e1cc70 0x03e1cc70 0x03e1cc70	0x00100416 -> [0x00104326 ; 0x00195028] (00000040) 0x00195028 -> [0x0010418 ; 0x00195028] (00000040) 0x001c5348 -> [0x00105348 ; 0x02664848] (00000061) 0x02664848 -> [0x001c5348 ; 0x035c6488] (00000068) 0x035cc648 -> [0x001c5348 ; 0x035cc6488] (00000068) 0x035cc648 -> [0x035cc6488 ; 0x035cc6488] (000000160) 0x02662448 -> [0x035cc6048 ; 0x026c2448] (00000100) 0x026c2448 -> [0x022600088 ; 0x026c2448] (00000100) 0x026c2448 -> [0x022600088 ; 0x026c2448] (00000100) 0x026c2448 -> [0x026c2448 ; 0x026c268] (00000100) 0x026c2448 -> [0x026c2448 ; 0x026c268] (00000100) 0x026c2668 -> [0x026c268 ; 0x026c268] (00000100) 0x026c268 -> [0x026c268 ; 0x026c268] (00000100) 0x026c268 -> [0x026c268 ; 0x026c268] (00000100) 0x026c268 -> [0x026c268 ; 0x026c268] (00000150; 0x026c268 -> [0x026c268 ; 0x026c268] (00000120; 0x026c268 -> [0x026c268 ; 0x026c268] (000000208;			



🏠 Immunity VisualSploit - Project: webex_test1						
	ws czeaR	9				
CONNECT IN LOCE Program Flow CONNECT IN TCP: connect(127.0.0.1:5000) #1 SEND Send(Buffer 1) #1 Recv E CREATE Maine $VAite$ Value IF ELSC PRINT E FAILED X Send(Buffer 1)	Buffer 1 - Size 1042 bytes String #2 String: A Length: 1 bytes - Repeat String 436 times Total Size: 436 ETP Integer #1 Value: 7FFE0FF0 type: Little Endian Ju/AP String: #3 String: BBBB Length: 4 bytes Integer #2 Value: 7E47BCAF type: Little Endian Pap2LEA Shellcode #1 Win32Shellcode Size: 592 String #1 String #1 String #1 String #1 String #2					
b0x/s0x/ ?						
Results exploit log connection log						

			-	
	12/04/2009		237 more.txt	
	09/29/2009	12:56 PM	0 New Text Document.txt	
	12/03/2009	02:21 PM	<dir> Old</dir>	
	09/02/2009		1,515 Paint.lnk	
	02/03/2009	10:32 AM	3,550,592 procexp.exe	
	11/03/2009	09:08 AM	2,989,416 Procmon.exe	
	03/16/2009	12:16 PM	150,888 Tcpvcon.exe	
	03/16/2009	12:16 PM	198,504 Tcpview.exe	
	12/03/2009	05:36 PM	<dir> Uploads</dir>	
	12/03/2009	02:55 PM	100 VS.bat	
			051,084 bytes	
	5 Dir(s) 3,266,154,496 bytes free			
1				

Once upon a time in Mexico...



Konsole

zbO@podridito:"/research/bug-lbfd\$ gcc test.c -o test zbO@podridito:"/research/bug-lbfd\$./mtravecao -f test looking for section table at: 7e0 size: 8193 - alargado a : 12289 -284-804a5b4 804a498 shellcode @ 0x080d7828 (281) zbO@podridito:"/research/bug-lbfd\$ /usr/local/bin/objdump -R test /usr/local/bin/objdump: test: Invalid argument Did you teletubbie? • 🗆 🗙

-

test: file format elf32-i386

DYNAMIC RELOCATION RECORDS

OFFSET TYPE VALUE 08049574 R_386_GLOB_DAT __gmon_start__ 08049564 R_386_JUMP_SLOT __register_frame_info 08049568 R_386_JUMP_SLOT __deregister_frame_info 0804956c R_386_JUMP_SLOT __libc_start_main 08049570 R_386_JUMP_SLOT printf

zb0@podridito:~/research/bug-lbfd\$ /usr/local/bin/objdump -R test

test: file format elf32-i386

DYNAMIC RELOCATION RECORDS

OFFSET	TYPE	• XALUE
08049574	R_386_GLOB_DAT	gmon_start
08049564	R_386_JUMP_SLOT	register_frame_info
08049568	R_386_JUMP_SLOT	deregister_frame_info
0804956c	R_386_JUMP_SLOT	libc_start_main
08049570	R_386_JUMP_SLOT	printf

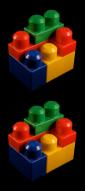
zbO@podridito:~/research/bug-lbfd\$





Advance Dougs Lea's malloc exploits Vudo - An object superstitiously believed to embody magical powers Once upon a free()





Wuftpd glob/site exec

Gobbles openssh exploit (FUCKYOUTHEO)



Pserverd - 4c1d61tch3z



Solar Designer Netscape JPEG exploit



Understand your exploitation domain

Reverse, Reverse and

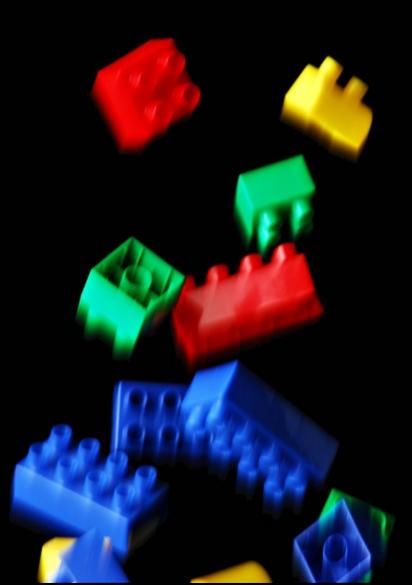
Reverse a little

6it more





Debug, Debug and Debug a little 6it more



Five Ws





00:27 < connection> I've been looking into starting to bindiff Patch Tuesday patches in order to get used to finding sploits just haven't had the time. Any recommendations on windows diffing tools? 00:27 <@jduck> save yourself the heartache and frustration, just kill yourself now 00:27 < connection> haha :P 00:28 < connection> on *nix systems I'm good with diff/patch I'm just ignorant to the windows equiv. 00:28 <@jduck> its nowhere near the same game 00:28 < connection> that drastic of a change eh? 00:29 <@hdm> you spend an hour just getting the patches extracted, another half and hour loading into ida, then umpteenthousandhours going through tens of thousands of changed functions based on the asm alone 00:30 <@hdm> and when you finally win, you only know what changed, not even how to trigger it 00:30 <@hdm> so you spend another umpteen hours trying to trace the code path to that changed bit of code 00:30 <@hdm> only to realize 2 days later it was the wrong change and the one youre looking at is unexploitable 00:30 <@hdm> then you kill yourself 00:30 <@hdm> then you kill yourself 00:30 <@hdm> so like jduck said, skip a step :P





Everyone's Uploads

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From mariomaster

View: Small Medium





From kassch



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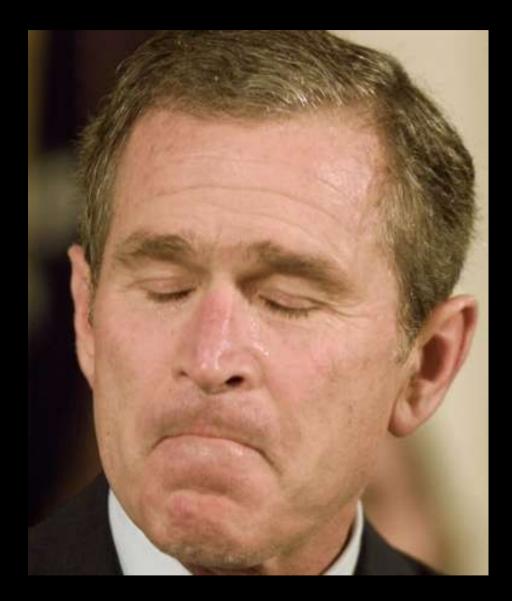
Why is HD Moore Sad?

Disclaimer: The imagery used in this Slide may have been altered or modified to some degree from the original image

Exploits are hard...

When was the last time you saw a real public exploit?





Bindiff Exploits



Post Mortem Exploits

Dry Humping Exploits

Excilement

Juccess









Reduced from high precision heap manipulation to just "trying stuff" in iPhone exploit. #somebugssuck

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Appe is not a



Exploits are hard...

....but it was always being









Metadata encryption

Cookies

The clement of



Team vs Individuals





You don't need a researcher,

you need a unicorn













Windows 2000

1d: Triggering the bug 2-4d: Understanding the heap layout 2-5d: Finding Soft and Hard Memleaks 5-8d : Finding a reliable Write4 1-2d: Function Pointers and Shellcode

Windows Vista

1 d: Triggering the bug

1-2d: Understanding the heap layout

2-5d: Finding Soft and Hard Memleaks

10-30d : Overwriting a the correct memory

2-5 days: Function pointer and Shellcode



Windows 2000

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10-30d : Overwriting a the correct memory

2-5 days: Function pointer and Shellcode



Protection never target

what we always

ain for

Bug classes die Primitives dont



Nowladays exploitation techniques ate chumbs of the '90 areat banquet





nico@immunityinc.com anicowaisman