Cheatography

GDB and PWNDBG Cheat Sheet

by superkojiman (cactuarnation) via cheatography.com/54418/cs/14584/

Disassembling

Disassemble a function	disassemble vuln
Disassemble at address	disassemble 0x400566

Running

Run until termination or breakpoint	r
Run and pause at main()	start
Run and provide arguments	r arg1 arg2
If binary prompts for input once through stdin, pass input via file	r < in.txt
If binary prompts for input more than once through stdin	r < <(echo "input1"; echo "input2")

Stepping

Continue execution	c
Execute next instruction and step over a function	ni
Execute instruction and step into a function	si

Breakpoints

Set breakpoint at function	bp vuln
Set breakpoint at address	bp 0x4005b5
Set breakpoint at function + offset	bp vuln+47
List breakpoints	bl
Delete all breakpoints	d br
Disable breakpoint 2	bd 2
Enable breakpoint 2	be 2

Examining data

Exmaine two 8-byte values at RBP in hex	x/2gx $rbp
Examine 10 instructions at main+25	x/10i *main+25
Examine 4-bytes of RAX in hex	x/wx $rax
Print R10 in decimal	p/d $r10
Print sum of 0x500 and 0x39 in decimal	p/d 0x500 + 0x39
Print the address of vuln()	p vuln

Using the **x** or **p** command followed by the **size** of the data to examine, and **format** letters

Sizes include **b**yte, **w**ord, **h**alfword, and **g**iant.

Format letters include **o**ctal, he**x**, **d**ecimal, **i**nstruction, **c**har, and **s**tring.

Modifying data

Set the RAX register to 5	set $rax = 5
Set the value pointed to by an address to 5	set *0x7fffff-ffe280 = 5
Set the value pointed to by RAX-8 to 5	set *($rax-8) = 5

Print out state of the program

context

Get address of saved return pointer

Return address of current stack frame	x/gx $rbp+8
Discovered return addresses on the stack	retaddr

Search for a string in memory

Look for "Hello"	search Hello

Get distance between addresses

Using p	p/d 0x7fffffffe278 - 0x7fffff-fe220
Using distance	distance 0x7fffffffe220 0x7fff-ffffe278

Note that using **distance** reverses the operands.

Print hexdump

hexdump $rbp

Display stack

View the stack	stack
View 30 rows of the stack	stack 30

Print virtual memory map pages

vmmap

Check security settings

checksec

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