

gdb + pwndbg Cheat Sheet

by superkojiman via cheatography.com/54436/cs/14586/

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	С
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 \boldsymbol{x} or \boldsymbol{p} command followed by the size of the data to examine, and format letters

Sizes include byte, word, halfword, and qiant.

Format letters include **o**ctal, he**x**, **d**ecimal, instruction, **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
Set the RIP register to another address	set \$rip = 0x4005b5

regs eflags

Set the ZF flag (bit 6)	set \$eflags = (1 << 6)
Clear the ZF flag (bit 6)	set \$eflags &= ~(1 << 6)
Carry: CF=0 Parity: PF=2 Adjust: AF=4 Zero: ZF=6	
Sign: SF=7 Interruption: IF=9 Direction: DF=10	

Display state of the program

context

Overflow: OF=11

FLAGS register
View FLAGS

register

Get address of saved return pointer

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



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Search for a string in memory

Look for "Hello" search Hello

Get distance between addresses

Using p p/d 0x7ffffffe278 - 0x7ffffff-

fe220

Using distance 0x7ffffffe220 0x7fff-

distance ffffe278

Print hexdump

Dump register hexdump \$rsp

Dump memory hexdump 0x7fffffff

address fe248

Display stack

View the stack stack

View 30 rows of the stack stack 30

Print virtual memory map pages

Display stack vmmap stack

Display program vmmap vuln01

Display heap vmmap heap

Check security settings

checksec

C

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