

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	
Examine 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 **byte**, **word**, **halfword**, and **giant**.

Format letters include **octal**, **hex**, **decimal**, **instruction**, **char**, and **string**.

Modifying data	
Set the RAX register to 5	set \$rax = 5
Set the value pointed to by an address to 5	set *0x7ffff-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

FLAGS register	
View FLAGS register	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 Interrupt: IF=9 Direction: DF=10 Overflow: OF=11	

Display 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



By superkojiman

cheatography.com/superkojiman/

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Search for a string in memory

Look for "Hello"	search Hello
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Get distance between addresses

Using p	p/d 0x7fffffffe278 - 0x7fffffffe220
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Using distance	distance 0x7fffffffe220 0x7fffffffe278
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Print hexdump

Dump register	hexdump \$rsp
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Dump memory address	hexdump 0x7fffffffe248
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Display stack

View the stack	stack
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View 30 rows of the stack	stack 30
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Print virtual memory map pages

Display stack	vmmap stack
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Display program	vmmap vuln01
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Display heap	vmmap heap
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Check security settings

checksec



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