Practical Sessio程婚成写代做 CS编程辅导

Objectives

1. Interpret and code via hardware debugging techniques

2. Apply reverse es to identify main software flaws

Basic commands o

- 1. objdump -d bi
- 2. strings binary.file: show all strings
- 3. gcc file.c -o binary.file -g -O0/3
- 4. gcc file.c -S as Where Chat: cstutores

Basic commands on gdb

Please see this link http://sourcesappen/edh/curr Provinces/gd/Exam Help

- 1. set disassembly-flavor intel: show intel syntax instead of AT&T
- 2. break or b : set a break point
 - b main: beamail finctutores @ 163.com
 - b *0x0342FA0230 : break to this program address
- 3. run: goes to the first breakpoint
- 4. continue : run et treakpoin 9476
- 5. return: step out of the function by cancelling its execution
- 6. si: Execute on a machine instruction, then stop and return to the debugger
- 7. x/s: show the content of specific memory address
 - x/s 0x402400 or x/s \$rax
- 8. info registers or ir: show the content of the registers, e.g., ir \$rip shows the next instruction to be executed (%rip register holds the next instruction)
- 9. disas: show the assembly code at this point, or use 'disas function1' to display the assembly of this function
- 10. print : display individual register value
 - print /d \$rax : display the value of rax register in decimal
 - print /t \$rax : display the value of rax register in binary
 - print /x \$rax : display the value of rax register in hexadecimal
- 11. The "x" command is used to display the values of specific memory locations: "x/nyz"
 - "n" is the number of fields to display
 - "y" is the format of the output, 'c' for character, 'd' for decimal and 'x' for hexadecimal
 - "z" is the size of the field to be displayed, 'b' for byte, 'h' for 16-bit word, 'w' for 32-
 - 'x/10xw \$rsp': displays in hex first 10 32-bit contents of the stack



Task - Bomb Lab, 1

This week you will reverse to lab game and try to defuse the bomb. This is an original source of exercise from the latest part of the latest part

This game consists of a phases threach phase, you must enter the right password otherwise the bomb explodes. *In this practical, you will define just the first phase*

How to run it: You can just type './bomb' or type './bomb inputs.txt', where in 'inputs.txt' the input strings are.

Assignment Project Exam Help

How to start defusing the bomb: First, you must use "objdump –d bomb" command to generate its assembly. You can use "objdump –d bomb > output.txt" command to redirect the output to a .txt file. You can also run the command is ringt pound poutput to to the strings of the binary; a password might be stored there, which is a serious software flaw (actually it does). Part of the C-code is also provided in bomb.c file, to better understand the structure of the code. After you have had an idea of the program's functions, it is time to start reverse epgineering phase1 routine (in this practical you will defuse only the first phase of the game). Lanyou identify where the input message is read? Use gdb and start studying phase1 routine step by step trying to understand what the code does. Make sure you understand what every instruction does.

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