

Assignment Project Exam Help

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BUILDING ON BASICS

SEC204

Overview

- Defuse the Bom signment Project Exam Help
- Building on basics

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DEFUSE THE BALL OF THE BALL OF

DEFUSE THE BOMB EXERCISE

- Ok, lets recap on everything we have done so far and play the 'Defuse the Bomb' gameAssignment Project Exam Help
 - Ubuntu: Desktop/Labs/bomb_lab
 - Hints to solve the lab: http://csapp.cs.cmu.edu/public/bomblab.pdf
 - Original source of exercise:

 Bryant and O'Hallaron, Computer Systems: A Programmer's Perspective, Carnegie Melon University, <a href="https://csapp.december.2016/https
- \$strings bomb
- \$objdump -d bomb
- \$qdb bomb

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BUILDING WHAT A SHOCK

Outline

- File Access
- File Permissions Assignment Project Exam Help
- User IDs

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• Pseudo-random numbers

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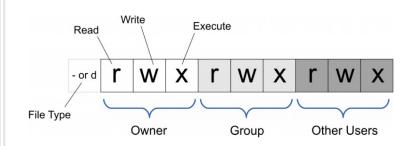
FILE ACCESS

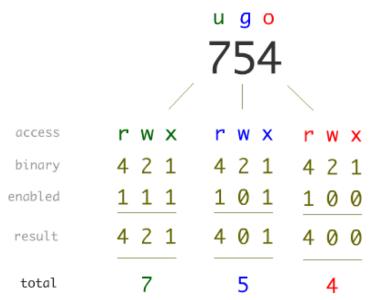
- To access files in C, we use file descriptors or filestreams
- File descriptors (fd) are unique integer numbers used to reference open files

 Open files
 - No other open file will have the same file descriptor
- They use 4 common functions. For all, the error return code is -1
 - open() opens file to the following the f
 - close() takes as input argument the fd
 - read() input arguments: fd, pointer to data to read, the number of bytes to read
 - write() input arguments: fd, pointer to data to write, the number of bytes to write

FILE PERMISSIONS

- Read, Write, Execute
- Weight 4, 2, 1 respectively Project Exam Help
- Can be set for file owner group: // nd to hers.com
- Change file permissions with chmod
 - chmod 754 filename. We Chat: cstutorcs





USER IDs

- Real User ID
 - The owner of the process
- Effective UID
- Assignment Pro
- The uid used by the O/S to make access control decision
- Saved UID
 - Stores previous uid so it can be restored later
 - Usually set to EUID when a SETUID program starts
- Lets run the notetaker.c and notesearch.c from the hacking VM

```
qcc -o notetaker notetaker.c
$ sudo chown root:root ./notetaker
             "this is a test of multiuser notes"
$ sudo cat /var/notes
 sudo chown root:root ./notesearch
 sudo chmod u+s ./notesearch
  ./notesearch
$ sudo su jose
  ./notesearch
 ./notetaker "This is another note for the
reader user"
$ ./notesearch
```

PSEUDO RANDOM NUMBERS

- True random number generation is an unsolved problem
- Pseudo random numbers can be spect Exam Help gec randexample.c \$./a.out
 - The generator must be seeded with a maximum value, RAND MAX maximum value, RAND MAX
- Lets run the rand_example.c from the hacking VM

FURTHER READING

• Hacking: The art of exploitation, section 0x280, pg 81-114

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