Assignment 1 Bomblab

Computer Security Lab

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Bomblab Goal

An exercise in reading x86-64 assembly code.

Practice using state-of-art debugger, GDB.

Bomblab Overview

- You need to enter the appropriate string by analyzing the bomb binary.
 - If you enter the wrong answer, bomb explode! (you will get penalty!)

- Each bomb has 8 phases, 7 normal phases + 1 secret phases.
 - You need to find out how to enter the secret phase by analyzing the binary.

Each phase expects you to type a particular string on stdin or file.

Downloading Your Bomb

http://kayle.snu.ac.kr:15213

- Enter your student ID and email address
 - Please use **snu** domain email address

Your bomb is unique to you

How to copy bomb.tar into your container

copy host file to the container

```
> docker cp <SOURCE_PATH> <CONTAINER_NAME>:<DESTINATION_PATH>
```

copy container file to the host

```
> docker cp <CONTAINER_NAME>:<SOURCE_PATH> <DESTINATION_PATH>
```

Useful Commands

• gdb

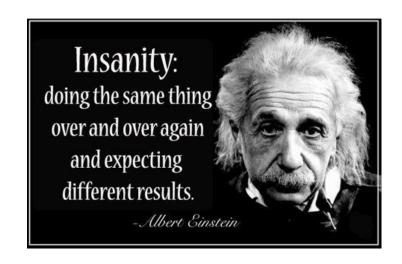
- strings
 - Prints all printable strings

- objdump
 - -d: disassembles the binary
 - -t: print out the symbol of the binary

Tips

Please read the bomblab.pdf carefully.

Don't forget to set up the breakpoints!



If you have any questions, feel free to ask TAs via eTL.

Evaluation

- Total Score : 110 pts
 - Phase 1 4 : 10 pts per each
 - Phase 5 6 : 15 pts per each
 - Phase 7 and secret phase : 20 pts per each
- If you exploded the bomb, you will get a little penalty (0.5pts per explosion).
 - Again, don't forget to set up the breakpoints!
 - We allow five mistakes. In other words, If you explode the bomb 8 times, you will get -1.5 pts penalty.
 - Maximum penalty is 20 pts.

You can check your score at http://kayle.snu.ac.kr:15213/scoreboard

Bomblab Demo