### SIGPwny @ UIUC Fall 2017

#### Announcements

# UIUCTF Took 4th at CSAW Finals

- Congratulations to Ankur, Ben, Matt, and Paul
- Trail of Bits <u>Winter Internships</u>
- Nadia Heninger Talk @ 10am **Tomorrow**

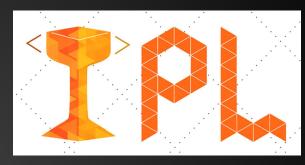
SIG-ICPC Visit

### **Illinois Programming League**

- Hone your algorithmic skills
- Ace your coding challenges
- Breeze through coding interviews
- It's never too late to get on board!
- Students of all levels are welcomed to show up and solve problems

### •ON: Mondays 7-9pm •AT: Siebel 0218

Brought to you by the Illinois competitive programming team (ACM SIG-ICPC)

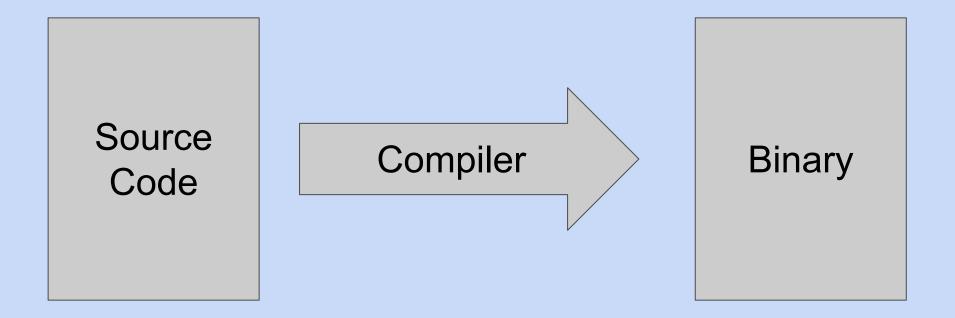


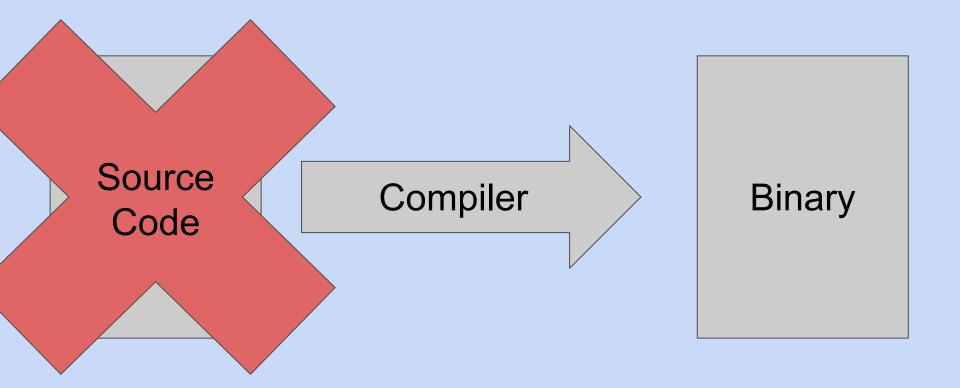
### **News of the Week**

- Accepted CCS Papers
- FaceID Security Under Suspicion
- Shadow Brokers Impacts
- <u>757 Audit</u>
- OnePlus Backdoor

## Modern Binary Exploitation

- Ran at RPI last two springs
- "how2pwn" the class
- everything's on github.com/RPISEC/MBE
- I'm learning it for funsies





Analysis Types

Static

"stare at disassembly until your eyes bleed"

r2 lab1A or open it in binja Dynamic

"run the program"

./lab1A



#### 5. ubuntu@ip-172-31-29-114: ~/MBE/src/lab

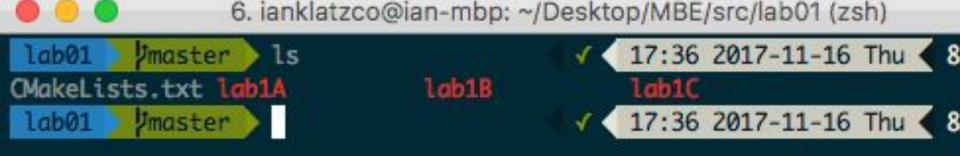
Imaster ?

ubuntu@ip-172-31-29-114 | lab01 | master ? ./lab1A

|----- RPISEC -----|
+ SECURE LOGIN SYS v. 3.0 +
~-- Enter your Username: ~-
ianklatzco

!!! NEW ACCOUNT DETECTED !!!
!--- Input your serial: ~-!

123456 ubuntu@ip-172-31-29-114 > lab01



your turn!

- what does it do?
- figure it out!
- get shell

klatz.co/sigpwny/mbe-day1.tar.gz klatz.co/sigpwny/mbe-day1.zip