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YCSC Lab **Exploitation Basics**

ASLR Bypass +
Stack Pivoting
Part 5.1

Assumptions



- Knowledge of
 - Assembly level language
 - Kali Linux
 - Peach Fuzzer
 - Immunity Debugger

What to do if I need to learn above?

Check out the resources mentioned at the end of this video

Module Structure



- Introduction
- Fuzzing
- PoC Creation
- Bad Character Analysis
- Controlling the execution
- Cracking the shell

Grabbing the control



- Identify the location of character which overwrites EIP register
- Verify the location
- Redirect the execution to EBP
 - Hard code EBP address OR
 - Find an accessible, reliable address in memory that contains an instruction such as JMP EBP
 - Pre-requisites for the memory address
 - Should not be affected by DEP or ASLR
 - Should not contain bad characters
- Jump forward, if required

Learning Resources



- **Kali Linux** Kali Linux Revealed by Offensive Security (https://www.kali.org/download-kali-linux-revealed-book/)
- Metasploit Metasploit: The Penetration Tester's Guide by David Kennedy, Jim O'Gorman, Devon Kearns,
 Mati Aharoni
- Assembly Language SLAE course by SecurityTube (https://www.pentesteracademy.com/course?id=3)
- Peach Fuzzer Peach 3 Documentation (http://community.peachfuzzer.com/v3/PeachQuickStart.html)
- Immunity Debugger Immunity Debugger basics (https://sgros-students.blogspot.com/2014/05/immunity-debugger-basics-part-1.html)
- Exploit Development https://www.fuzzysecurity.com/tutorials.html



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