

# Introduction to Binary Reverse Engineering (IBRE)

A hands-on training course for beginners who want to understand (and experience) how compiled programs are reverse engineered.



## > target\_audience

- ▷ Software developers, programmers
- ▷ Cyber security engineers
- ▷ No pre-requisites, just know what you're getting into!

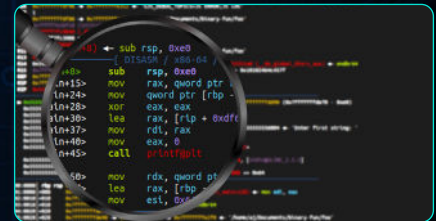
*Anyone who wants to experience a day in the life of a binary reverse engineer.*

## > course\_objectives

- ▷ Introduce basic to intermediate **computer science concepts** needed by reverse engineers
- ▷ Introduce **tools and techniques** for reverse engineering software and firmware
- ▷ Give students a **tangible appreciation** for what a binary (software/firmware) reverse engineer does

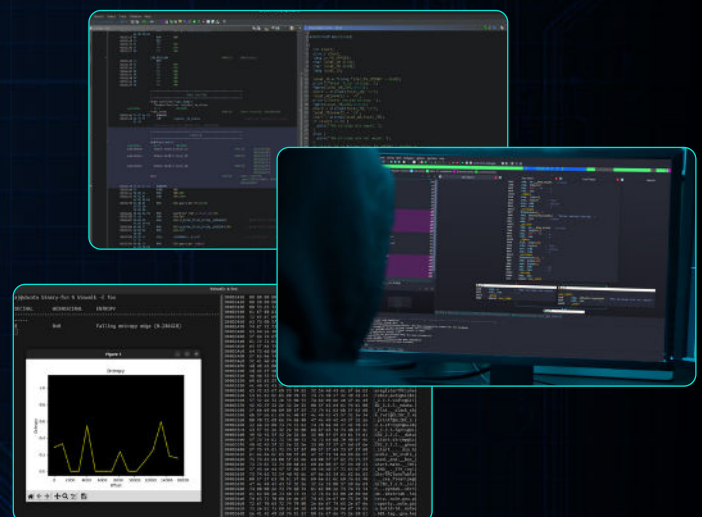
## > approach

- ▷ Virtual/live training over three days
- ▷ **Hands-on** – guide students through variety of hands-on exercises and scenarios
- ▷ Practical final exercise to demonstrate learning



## > topics

- ▷ Virtual Machines
- ▷ Binary Math
- ▷ Using The Command Line
- ▷ Python Basics
- ▷ IC & Assembly Basics
- ▷ Computer Architectures
- ▷ Compilation Process
- ▷ Static Analysis Tools
- ▷ Dynamic Analysis Tools



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