

Reverse Engineering

Course Content:

Module:1 - Introduction

- 1.1 Introduction to reverse engineering
- 1.2 Applications of reverse engineering

Module:2 - Assembly Language

- 2.1 Introduction
- 2.2 Compilers
- 2.3 Registers
- 2.4 Data Structures
- 2.5 Binary Executables
- 2.6 IA - 32 Processor Architecture
- 2.7 Windows Architecture

Module:3 - Reversing Tools

- 3.1 Offline and Live Code Analysis
- 3.2 Disassemblers
- 3.3 Debuggers
- 3.4 Decompilers
- 3.4 Classification Tools
- 3.5 Summary Tools
- 3.6 System Monitoring Tools

Module:4 - Starting with IDA

- 4.1 Introduction to IDA
- 4.2 Launching and Loading IDA
- 4.3 IDA database files
- 4.4 IDA GUI
- 4.5 IDA tips and tricks
- 4.6 IDA Data Displays

Module:5 - IDA implementation in Reverse Engineering

- 5.1 Vulnerability Analysis
- 5.2 Password Recovery
- 5.3 IDA Scripting

Module:6 - Reverse Engineering in Action

- 6.1 Debugging
- 6.2 Anti - Reversing