

Training:

Windows & Linux Binary Exploitation

Date of the training: **March 18–19, 2019** in Heidelberg, Germany

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Overview

In this hands-on two-day workshop, the participants will learn about the fundamentals of low-level software exploitation on modern Linux and Windows systems.

Participants will get an introduction into the x86 architecture in general and the characteristics of Windows and Linux operating systems. After initial exercises involving the exploitation of classic stack-based buffer overflows, modern defense mechanism such as DEP and ASLR are presented and analyzed for weaknesses. The participants will learn how these defense mechanisms can be bypassed and will develop exploits targeting real world applications.

This is an exercise heavy course. Attendees should be prepared to spend a lot of time inside a debugger, calculating memory addresses, and watching their exploits crash.

Requirements

- Basic understanding of Linux and Windows operating systems.
- Basic experience with a scripting language such as Python or Ruby.
- A laptop computer capable of running a Windows 7 and Ubuntu VM. At least 4GB of memory and 40GB of free disk space.
- VT-x should be enabled in BIOS/UEFI to ensure that 64-bit virtual machines can be run.

About the Speaker: Oliver Matula

Oliver is an IT security researcher and practitioner at ERNW and has extensive experience on the offensive side of IT security (e.g. by means of penetration tests and research) and the defensive side (e.g. by means of consulting in large corporate environments).

About the Speaker: Dennis Mantz

Dennis is a pentester and Security Researcher at ERNW focusing on mobile and embedded security. His fields of interest include firmware reverse engineering, binary exploitation and software defined radios. In his free time, he enjoys participating in, and sometimes also hosting Capture The Flag (CTF) competitions.

Booking

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Contact

Need assistance? Don't hesitate to call us. We are fluent in English and German.

Zögern Sie nicht uns zu kontaktieren. Wir sprechen fließend Englisch und Deutsch.

Troopers Organization Team

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