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Security Workshop

In this security workshop the participants will change ends and take the role of a hacker attacking servers and services within a virtualized environment. We focuses on common real-life vulnerabilities and attacks - the ones that have great impact on both company networks and individuals using the Internet.

Every part of the workshop starts with a condensed introduction of the basics of the topic. We present vulnerabilities, exploits, and tools. After that, it's your turn! You have the opportunity to replay our demos and explore further techniques and possibilities of the exploit tools. Finally, you can attack and try to "pwn" servers with varying levels of difficulty in our lab environment. At the end of every unit we will discuss your findings and experiences together. This will lead to interesting insights on how to better protect yourself and your network.

During the workshop you will play with different web applications waiting to be hacked. Many web apps have striking bugs that in real-life threaten the data of millions of users. You will learn about SQL injection, scripting issues, request forgery and more.

Encrypted connections like HTTPS/SSL are safe, aren't they? Unfortunately, reality is not that easy: You will conduct an active man-in-the-middle attack and manipulate even encrypted connections to obtain the clear text of the conversation. There are powerful tools available that make man-in-the-middle attacks easy.

Finally, you will explore and use the Metasploit Framework, a tool that aids the hacker at choosing and running exploits against one or many targets.
Requirements for participants

The workshop targets everyone interested in IT security who wants to extend his knowledge by hacking vulnerable applications and playing with exploit tools. You should be familiar with the Unix command line and the concept of manpages. A thorough understanding of common web technologies and the ability to read scripting languages is necessary. Basic knowledge of TCP/IP and network services is also recommended.

The participants are required to bring their own device, preferably a laptop running some kind of Linux/Unix, but Windows-based computers are fine too.

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