

# Workshop MOSS 2016

“How to evaluate the security of cloud applications using open source tools”

## Description:

The purpose of this workshop is to give participants a quick tour of some of the open source tools which can be used to evaluate the security of applications in cloud.

The training will start with a brief overview of different cloud architectures and application deployment options. Further on, we will discuss the attack surface for the applications in cloud and we will introduce the Kali Linux distribution, which contains many of the tools for security testing.

Multiple vulnerability discovery exercises will be performed on a dedicated test environment: an Internet Banking application hosted in cloud - written especially for training purposes.

The areas that will be covered by the security evaluation and the associated tools are:

- Network testing – Nmap
- Operating system testing – OpenVAS
- Web server testing - Arachni, W3AF, Nikto
- Web application testing - ZAP Proxy

The approach of this workshop is to discover vulnerabilities in a "black box" manner, meaning that we simulate an external attacker who does not have any prior information about the target systems.

## Workflow:

- The instructor will have a test environment ready in the cloud
- The students will perform multiple exercises against the test environment
- All the exercises and tools will be introduced and explained by the instructor

## Student requirements:

- Laptop with administrative rights
- A working Kali Linux operating system (preferably a VMware or VirtualBox image from here <https://www.kali.org/downloads/> )

## Duration:

2 hours

## **Intended audience:**

- Web application developers and testers
- System administrators
- Security enthusiasts

## **Skill level:**

Intermediate

## **Instructor:**

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