

Web Exploitation Demos Presented as CTF Challenges

1. Authorship

This project was done as part of the university course module "Erstellen und Validieren von IT-Sicherheitsdemos -- Prof. Dr. Martin Kappes – WiSe 21/22 -- [Frankfurt University of Applied Sciences](#)". It was done in collaboration of three people:

- Munkhzul Baatar
- Marco Peluso
- Yunus Söyleyici

For comprehensibility reasons in regards of grading here is a list of who did what, if not stated otherwise:

1.1 Munkhzul Baatar

- [docker-compose.yml](#) (in parts)
- Everything contained in [sql-injection/](#)

1.2 Marco Peluso

- [docker-compose.yml](#) (in parts)
- [README.md](#) (this file)
- [Installationsanleitung.md](#)
- [install-docker-kali.sh](#)
- [reset.sh](#)
- [start.sh](#)
- [stop.sh](#)
- Everything contained in [main-website/](#), [path-traversal/](#) and [path-traversal-hardened/](#)

1.3 Yunus Söyleyici

- [docker-compose.yml](#) (in parts)
- Everything contained in [command_injection/](#)

2. Setup

Detailed German instructions on how to set up a fresh [Kali Linux](#) virtual machine in VirtualBox are available in the file [Installationsanleitung.md](#).

If you just want to get this project running in any other kind of vm or system just perform the following steps:

- [Install Docker](#)
- Clone this project
- Run `docker-compose up` from the project's root directory
- Open <http://localhost> in your favorite browser and get started with the challenges

3. Sources:

3.1 Main Website

- Photo "light decorations in dark area" by [Aron Visuals](#) on [Unsplash](#)
- Photo "Forking forest path" by [Jens Lelie](#) on [Unsplash](#)
- Photo "command computer keyboard key" by [hannah joshua](#) on [Unsplash](#)
- Photo "person holding clear glass bottle" by [Diana Polekhina](#) on [Unsplash](#)
- Photo "pile of books" by [Bernd Klutsch](#) on [Unsplash](#)
- Photo "aerial photography of concrete roads" by [Denys Nevozhai](#) on [Unsplash](#)

3.2 Path Traversal

- [CTF 101: What is Directory Traversal](#) on 2022-01-29
- [OWASP® Foundation: Path Traversal](#) on 2022-01-29
- [Acunetix: Path traversal via misconfigured NGINX alias](#) on 2022-01-29
- Photo "An old brass key dropped in the woods." by [Michael Dziedzic](#) on [Unsplash](#)
- Photo "Forking forest path" by [Jens Lelie](#) on [Unsplash](#)
- Photo "brown and white cat on brown wooden shelf" by [Thomas Bormans](#) on [Unsplash](#)
- Photo "aerial photography of gray concrete road between assorted-color trees" by [Aaron Burden](#) on [Unsplash](#)
- Photo "black printed shirt" by [Hacker Noon](#) on [Unsplash](#)