

# Secure Coding

C/C++ vulnerabilities Tutorial  
24<sup>th</sup> October 2014

## Tutorial Plan

1. Recap on C/C++ vulnerabilities from the lecture through examples.

- Download a PHP script and a list of vulnerable programs and copy them to your VM (under /var/www/c) from:

<https://www22.in.tum.de/fileadmin/teaching/ws2014/seccoding/tutorial-24-10-2014-files.zip>

- After copying, unzip it and to access the script go to <http://localhost/c> in the VMs browser.

2. Manual and automatic fuzz testing vulnerable binaries with ZAP.

- Try to input potentially dangerous inputs to the script for different programs.
- Automatize this process using ZAP as a fuzzer.

3. Debug vulnerable programs with Eclipse.

- We will see the internal workings of the memory when executing programs with malicious input.

**If you are done work on Phase 1!**