

WAPH-Web Application Programming and Hacking

Instructor: Dr. Phu Phung

Lab 0 - Development Environment Setup

Overview

This lab is covered in Lecture 2 with preparation homework in Lecture 1. In Part I, you need to deploy an Ubuntu 22.04 Virtual Machine on the provided online environment, and installed software and applications. In Part II, you will clone the course repository and your private repository, and completed git exercises to write the report.

Report

Your need to create a sub-folder `lab0` with a `README.md` file to write the report in Markdown format, and generate the report to PDF using the `pandoc` application. Your report should follow the template provided in Lecture 2 (<https://github.com/phungph-uc/waph/README-template.md>) which should include the course name and instructor, your name and email together with your headshot (150x150 pixels), and the the following sub-sections:

The lab's overview

Write an overview of the lab.

Also, include a direct clickable link to the lab folder on GitHub.com so that it can be viewed when grading, for example, <https://github.com/phungph-uc/waph-phungph/tree/main/lab0>.

Part I - Ubuntu Virtual Machine & Software Installation

A summary of steps you have performed to deploy your Ubuntu 22.04 virtual machine on CECH Sandbox (<https://sandbox02.cech.uc.edu/vcac>) and install the required software and applications.

No screenshot is required in this sub-section, however, it is welcome, and detailed information is encouraged.

Apache Web Server Testing

Include a **screenshot** to demonstrate that the Apache Web Server is running properly as it can be accessed in Google Chrome within your Ubuntu VM (with proper name as required) using its IP address.

Part II - git Repositories and Exercises

The course repository

Include a **screenshot** to show that you have cloned the course repository into the home directory in your VM.

Private Repository

Describe key steps to create your private repository on GitHub.com and share it with **phung-waph**. Also, include the full URL of this repository e.g., <https://github.com/phungph-uc/waph-phungph.git>.

Summarize hands-on exercises, such as generating SSH keys, and adding the public key to your GitHub account, cloning your remote repository into your VM, and editing the README.md following the provided template with my headshot.

Include a **screenshot** to illustrate that you committed the changes from your VM to your remote repository.