

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 install software and applications. In Part II, you will clone the course repository and your private repository and complete git exercises to write the report.

Report

Created a sub-folder `labs/lab0` with a `README.md` file to write the report in Markdown format and generated the report to PDF using the `pandoc` application.

The lab's overview

In this lab we have covered setting up softwares in the Ubuntu Virtual Machine and setting up git repository in the Virtual Machine and performing git operation on our private repository

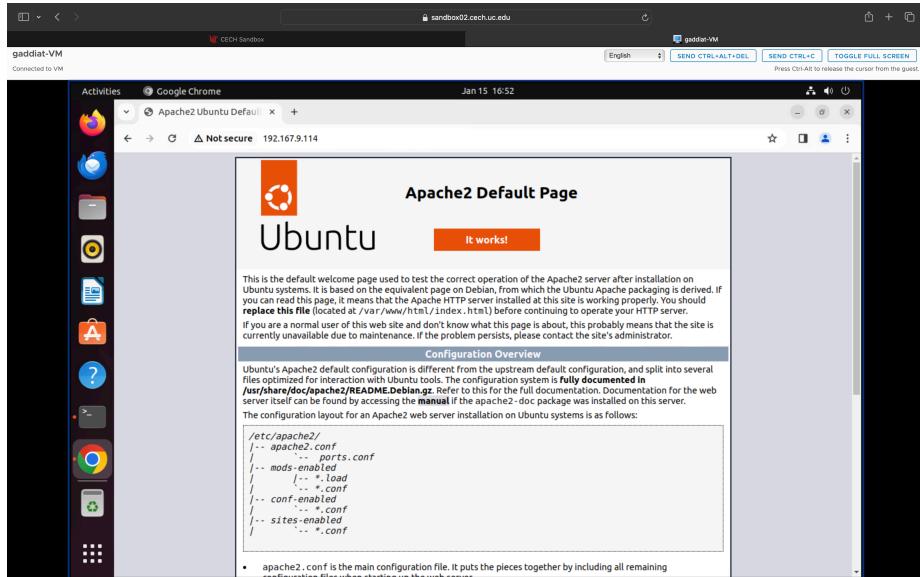
<https://github.com/gaddiat/waph-gaddiat/tree/main/labs/lab0>

Part I - Ubuntu Virtual Machine & Software Installation

Steps- 1,Opened the sand box 2,Deployed my virtual machine 3,Installed the softwares required as in the pdf shared using apt command.

Apache Web Server Testing

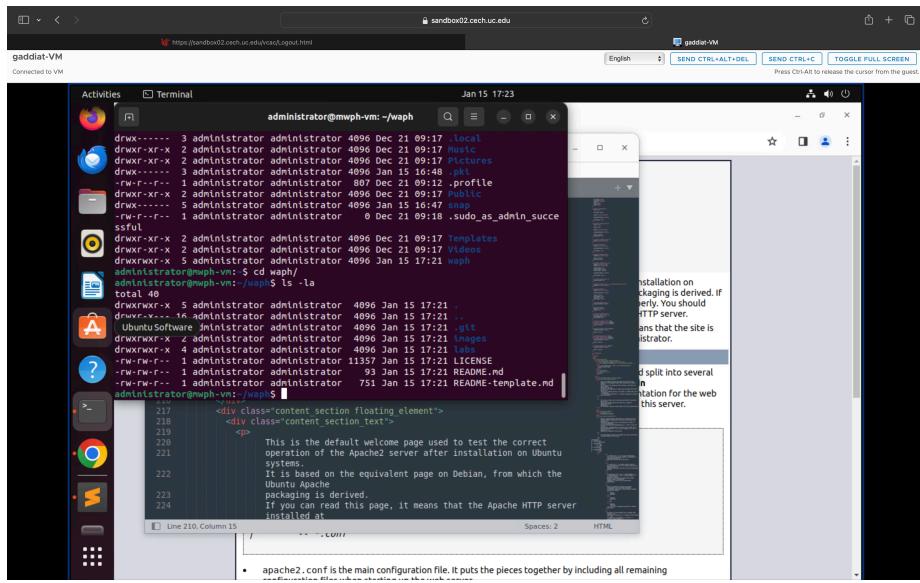
After installing the Apache sever 2, finding out my ip address and using it in the browser to check Apache server



Part II - git Repositories and Exercises

The course repository

Using git commands and ssh cloned the repository.



Private Repository

Created a private repository from the github website.

<https://github.com/gaddiat/waph-gaddiat.git>

First created SSH using the ubuntu terminal and then using the SSH code clone the repository in the machine. performed changes on README markdown file.

The screenshot shows a Linux desktop environment with a dark theme. In the top panel, there are icons for a terminal, a browser, and a file manager. The terminal window is open to a directory named 'waph/README-template'. It displays a command-line session where the user is committing changes to a 'README.md' file. The commit message includes details about the changes made, such as adding a bio for Amit Gaddi and modifying the README file. The terminal also shows the output of a 'git push' command, which successfully uploaded the changes to a GitHub repository. Below the terminal, a browser window is open to the GitHub page for the repository 'gaddiat/waph-gaddiat'. The page shows the repository's README file, which contains sections like 'About', 'Releases', and 'Packages', along with the updated content from the terminal session.

Submission

Use the pandoc tool to generate the PDF report for submission from the README.md file, and ensure the report and contents are rendered properly.

The PDF file should be named `your-username-waph-lab0.pdf`, e.g., `phungph-waph-lab0.pdf`

I have used the ‘`pandoc -f markdown-implicit_figures README.md -pdf-engine=xelatex -t latex -o lab0.pdf`’ command to generate by pdf as I was getting an error.