WAPH-Web Application Programming and Hacking

Instructor: Dr. Phu Phung

Student

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Short-bio: Sai Sandeep is deeply passionate about ethical hacking and the development of secure software.

Figure 1: Sai Sandeep Pasham

Lab 0 - Development Environment Setup

Overview

"For Lab 0 in the Web Application Programming and Hacking course, I configured an Ubuntu 22.04 VM in UC Sandbox. I then installed all the specified software, including apache2, git, Sublime Text, along with the necessary fonts, Pandoc, and the Chrome browser.

Furthermore, I established a private Git repository linked to my Git account, registered with my UC email. This repository is a collaboration with the instructor and has been cloned to my local machine. Subsequently, I updated my README.md file and continued with my Lab 0 exercises.

Repository link: https://github.com/pashamsp/waph-pashamsp/tree/main/labs/lab0

Part 1 : Ubuntu Virtual Machine and software Installation.

I logged into https://sandbox02.cech.uc.edu/vcac

"I requested access to the Web App Programming and Hacking EECE 4005 Virtual Machine. Upon deployment, I accessed the VM through components and established a connection to the Ubuntu 22.04 Virtual Machine via the remote console."

Apache Web Server Testing

I tested the Apache2 web server using its IP address on Google Chrome.

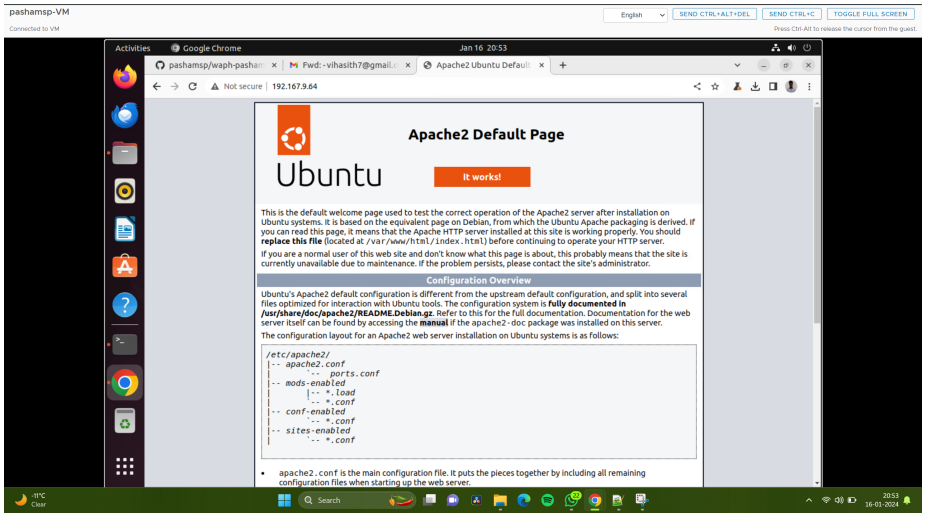

Figure 2: Apache web server testing in chrome

Part 2 - git Repositories and Exercises

The course repository

The course repository for Web Application Programming and Hacking is hosted on GitHub under the username phungph-uc with the repository name "waph".

Private Repository

I established a private repository on GitHub titled "waph-pashamsp." I initialized it with a README file and extended collaboration privileges to "phung-waph" by navigating to the repository settings, selecting Collaborators, and forwarding a collaboration request.

https://github.com/Vihasith137/waph-pashamsp.

"To enable SSH authentication, I generated an SSH key on my local machine and included the corresponding public key (id_rsa.pub) on GitHub by navigating to Settings -> SSH and GPG keys -> New SSH key. Following this, I cloned

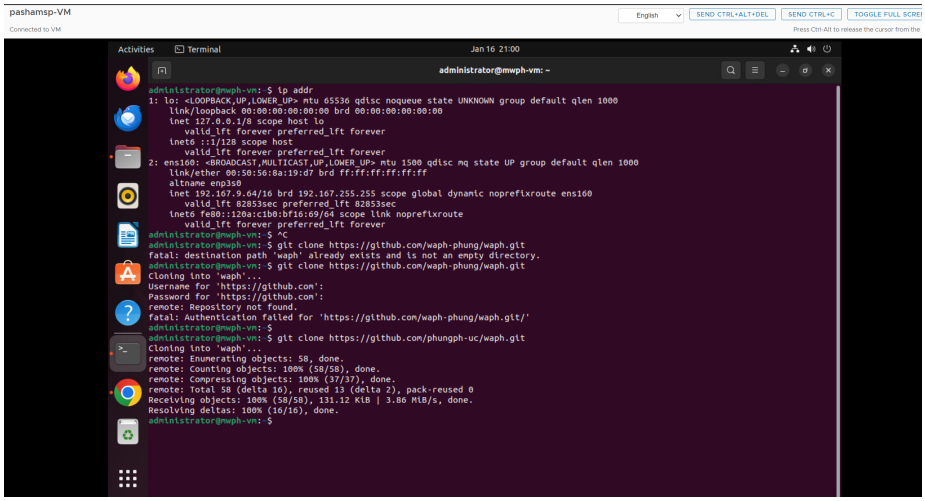

Figure 3: Github Course Repository phungph-uc/waph

the repository using the SSH URL. After cloning, I edited the README.md file based on the provided template and incorporated a headshot image uploaded directly through GitHub, placing it in the images subfolder. I then staged, committed, and pushed these changes to the remote repository. Later, I made additional modifications to the README.md file on GitHub and pulled these changes into the local repository through the terminal."

Subsequently, I established a "Labs/Lab0" folder to contain the project report, and I pushed these changes to the remote repository.

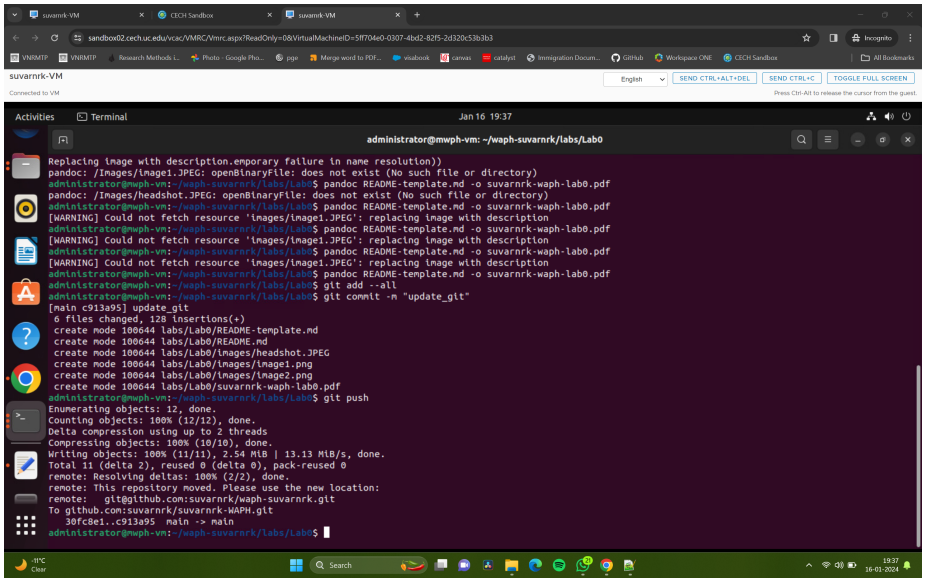

Figure 4: Repository changes pushed