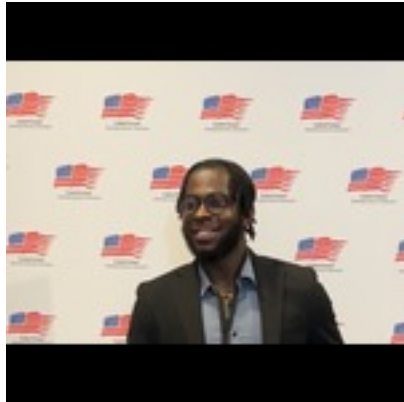# WAPH-Web Application Programming and Hacking

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Lab 0 - Development Environment Setup

WAPH-Web Application Programming and Hacking

Lab Overview

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

lab Folder

Report

Part 1

Steps to deploy Ubuntu 22.04 Virtual Machine

- Request Machine to be deployed
- Connect via Remote Console

Steps to install the required software

- Install net-tools to be able to view the IP adress sudo apt install net-tools)

- Install Apache2 ($Sudo apt install apache2)

- Install git ($Sudo apt install git)

- Install Sublime-text editor ($sudo apt install sublime-text –classic)

- Install Pandoc,pdflatex and its fonts to render PDF files

  -($Sudo apt install pandoc)

  -($Sudo apt-get install texlive-latex-base)

  -($sudo apt-get install texlive-fonts-recommended)

  -($sudo apt-get install texlive-latex-extra)
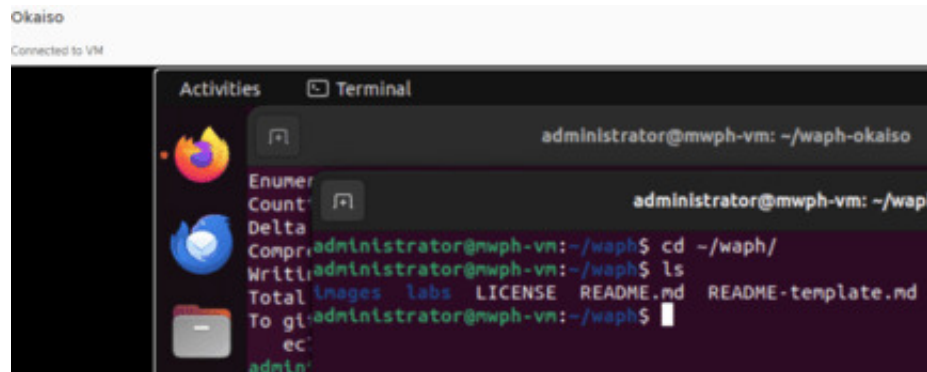
  -($sudo apt-get install texlive-fonts-extra)

-Install Chrome browser

Apache Web Server Testing

Part 2

The Course repository

Private repository

To create a Private Repository in GitHub you have to:

- Create a GitHub Account
- Click the New button which indicates a new repository
- Add your Repository name (waph-okaiso)
- Sharing my repository with the professor

  -Click to settings

  -click collaborators

  -click add people

  -add your collaborator (phungph-waph) My private Repository

Exercises

In this lab, I generated SSH keys to add to my GitHub account:

- Generate public key ($ssh-keygen)
- View public key (cat ~/ .ssh/id_rsa.pub)
- copy key
- go to settings
- go to SSH and GPG Keys
- Add the New SSH Key

In this Lab, I cloned my Remote Repository by using the "$git clone (URL)" command

I also had to configure git information before i could synchronize my code:

-$git config –global user.name "your-email"

-$git config –global user.name"Your Name"

I used the Sublime text editor to edit my README file in markdown format. For the required template I had to include a headshot image and to do that I created an Image folder and uploaded my screenshot. From there I just used Markdown language to link the image in my code: 'alt text