

# WAPH-Web Application Programming and Hacking

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**Student**

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Figure 1: Lakshma Reddy Bandi

## Lab 0 - Development Environment Setup

### Overview

For the Lab0 submission, I have completed the Ubuntu VM in the UC sandbox under the Web Application programming and Hacking EECE course. Then the required software like apache2, git, sublime text and pandoc were installed using the git commands. Further in the VM installed the chrome browser. Within the github.com account created a private repository waph-bandild, and shared it with the instructor and TA as mentioned. After this, cloned the repository to the local. Then the README.md file was modified along with performing the Lab0 exercises. This report was written in the Markdown Format then this report PDF was generated using the pandoc tool within the VM.

### 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-bandild/tree/main/labs/lab0>.

## Part I - Ubuntu Virtual Machine & Software Installation

Step1: Open and logged into the UC sandbox. Step2: Clicked on REQUEST under Web app programming and hacking EECE VM. Step3: After the VM deployment, opened the VM terminal and performed the key -tool command to get the IP address then, in the remote console installed the required apache2, git and pandoc, a successful Ubuntu 22.04 VM was established.

### Apache Web Server Testing

The Apache2 was tested with the IP address

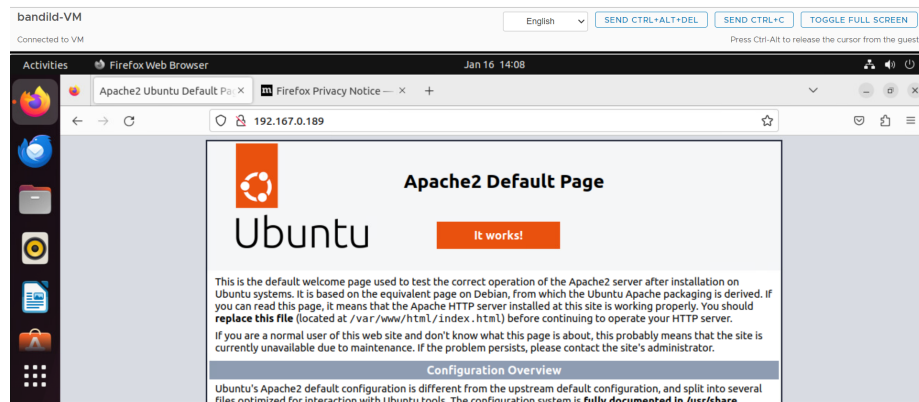


Figure 2: Apache2 Web server testing

## Part II - git Repositories and Exercises

### The course repository

The GITHUB repository for the course

### Private Repository

First logging into the github account and create the new repository then clone the private repository into virtual machine by using SSH keys this ssh is generated in the vm by using ssh commands. Then performs some git commands and generated the pdf by using the pandoc key and named as lab0.pdf

```
banditd-VM
Connected to VM
English SEND CTRL+ALT+DEL SEND CTRL+C TOGGLE FULL SCREEN
Press Ctrl-Alt to release the cursor from the guest.

Activities Terminal Jan 16 17:30
administrator@mwph-vm: ~/waph

administrator@mwph-vm: $ git clone https://github.com/phungph-uc/waph.git
Cloning into 'waph'...
remote: Enumerating objects: 58, done.
remote: Counting objects: 100% (58/58), done.
remote: Compressing objects: 100% (37/37), done.
remote: Total 58 (delta 16), reused 13 (delta 2), pack-reused 0
Receiving objects: 100% (58/58), 131.12 KiB | 4.10 MiB/s, done.
Resolving deltas: 100% (16/16), done.
administrator@mwph-vm: $ cd waph && ls -la
total 40
drwxrwxr-x 5 administrator administrator 4096 Jan 16 17:23 .
drwxr-x--- 15 administrator administrator 4096 Jan 16 17:23 ..
drwxrwxr-x 8 administrator administrator 4096 Jan 16 17:23 .git
drwxrwxr-x 2 administrator administrator 4096 Jan 16 17:23 images
drwxrwxr-x 4 administrator administrator 4096 Jan 16 17:23 labs
-rw-rw-r-- 1 administrator administrator 11357 Jan 16 17:23 LICENSE
-rw-rw-r-- 1 administrator administrator 93 Jan 16 17:23 README.md
-rw-rw-r-- 1 administrator administrator 751 Jan 16 17:23 README-template.md
administrator@mwph-vm: ~/waph$
```

Figure 3: Github repository for the web application programming and hacking phungph-uc/waph

```
banditd-VM
Connected to VM
English SEND CTRL+ALT+DEL SEND CTRL+C TOGGLE FULL SCREEN
Press Ctrl-Alt to release the cursor from the guest.

Activities Terminal Jan 17 00:32
administrator@mwph-vm: ~/waph-banditd

Already up to date.
administrator@mwph-vm: ~/waph-banditd$ pandoc README.md -o lab0.pdf
administrator@mwph-vm: ~/waph-banditd$ git status
On branch main
Your branch is up to date with 'origin/main'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   README.md
        modified:   lab0.pdf

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        images/Screenshot 2024-01-16 140906.png
        images/Screenshot 2024-01-16 173047.png

no changes added to commit (use "git add" and/or "git commit -a")
administrator@mwph-vm: ~/waph-banditd$ git add -all
error: did you mean '--all' (with two dashes)?
administrator@mwph-vm: ~/waph-banditd$ git add --all
administrator@mwph-vm: ~/waph-banditd$ git commit -m "updated information"
[main f29538d] updated information
```

Figure 4: Repository changes pushed