

WAPH-Web Application Programming and Hacking

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Figure 1: Tulasiram Nakkanaboina

Lab 0 - Development Environment Setup

Overview: As part of the Lab 0 of Web Application programming and Hacking course , I have setup the Ubuntu 22.04 virtual machine using the UC Sandox and installed the recommended software such as apache2 , git , sublime text , pandoc and chrome browser. Additionally created git private respository on github, shared it with the instructor and cloned it to the local machine . Moreover , the README.md was edited and Lab0 exerclies were performed. The Labs0 report was written in Markdown format and Pandoc tool was used to genearate the PDF report for submission.

<https://github.com/nakkantm-uc/waph-nakkantm/edit/main/labs/lab0> .

Part 1 : Ubuntu Virtual Machine and software Installation.

Looged on to (<https://sandbox02.cech.uc.edu/vcac>) and requested access to Web App Programming and Hacking EECE 4005 Virtual Machine. Once the deployment of the VM is done it was accessed through components and connected to the remote console which established the connection to the Ubuntu 22.04 Virtual Machine.

Apache Web Server Testing

Apache2 tested with IP address on google chrome

Part 2 - git Repositories and Exercises

The course repository

Web application programming and Hacking course repository on GitHub.

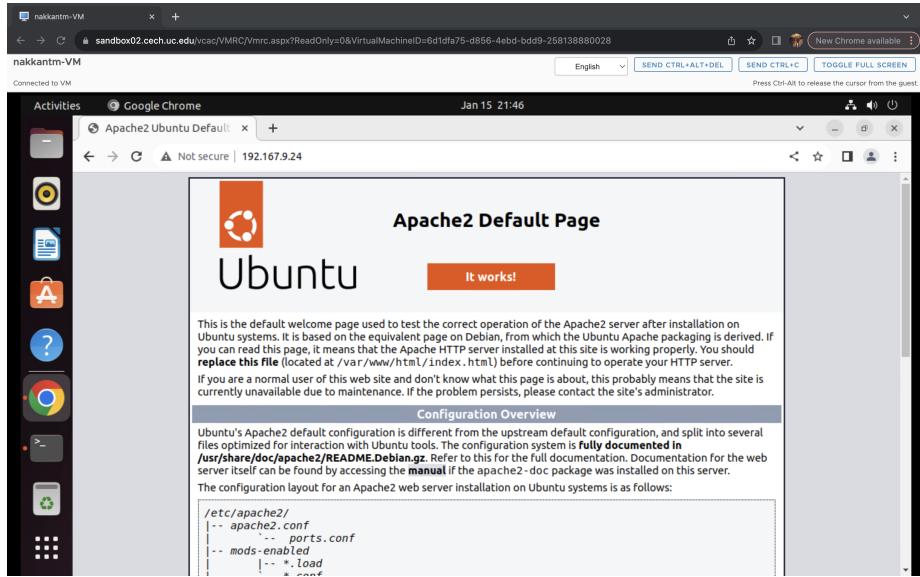


Figure 2: Apache web server testing in chrome

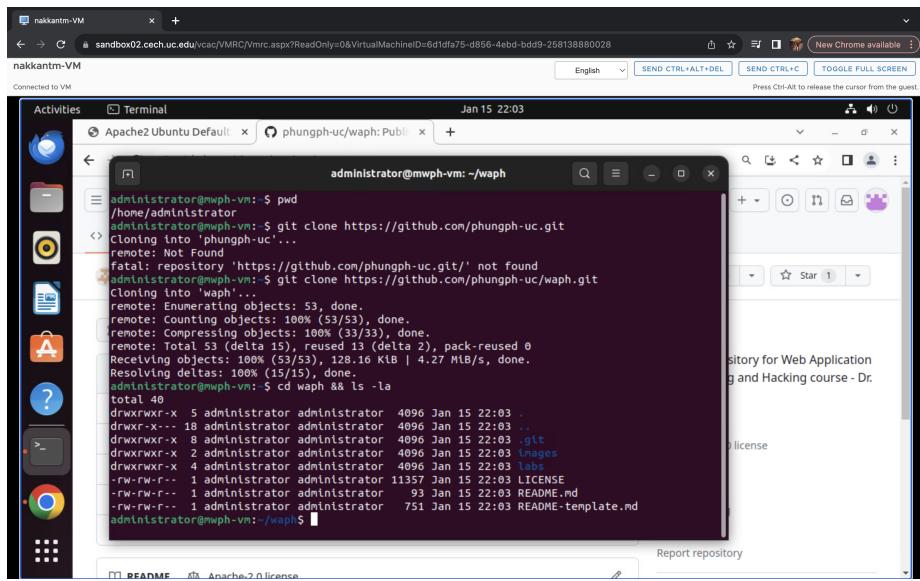


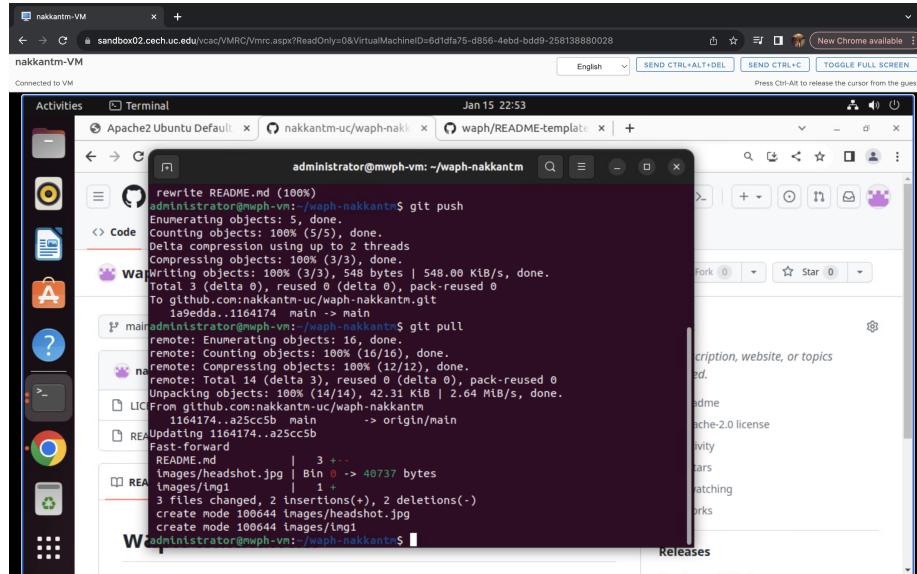
Figure 3: Github Course Repository phungph-uc/waph

Private Repository

In github.com clicked on the create new repository and named it as waph-nakkantm , made it private and initialized it with a README file. To add ‘phung-waph’ as a collaborator , I have clicked on the settings icon under the repository . Then clicked on the collaborator and requested phung-waph to add as a collaborator.

<https://github.com/nakkantm-uc/waph-nakkantm>.

To establish SSH authentication , I have generated the SSH key in the local machine and copied the id_rsa.pub public key to GitHub under Settings -> SSH and GPG keys -> New SSH key. Now cloned the repository using the SSH url. Once the repository is clonned to local , the README.md file is modified as per the template provided by the instructor and added a headshot image . This image was uploaded through github.com directly under images subfolder. All these changes were then staged and committed before pushing to the remote repository . Once the repository is pushed changes were then made on github by modifying the README.md file and these changes were then pulled into the local through terminal.



The screenshot shows a Linux desktop environment with a terminal window open. The terminal window title is "administrator@mwph-vm: ~ /waph-nakkantm". The terminal content shows the following command and its output:

```
administrator@mwph-vm: ~ /waph-nakkantm$ git push
Counting objects: 1000, done.
Delta compression objects: 5, done.
Writing objects: 100% (5/5), 548 bytes | 548.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To github.com:nakkantm-uc/waph-nakkantm.git
   1a9edda..1164174 main > main
Administrator@mwph-vm: ~ /waph-nakkantm$ git pull
remote: Enumerating objects: 16, done.
remote: Counting objects: 1000 (16/16), done.
remote: Compressing objects: 100% (12/12), done.
remote: Total 14 (delta 3), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (14/14), 42.31 KB / 2.64 MB/s, done.
Administrator@mwph-vm: ~ /waph-nakkantm$
```

Figure 4: Repository changes pushed

Post this Labs/Lab0 folder was created to accomodate the project report and the changes were pushed.