

WAPH-Web Application Programming and Hacking

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Figure 1: Shivani Eli

Lab 0 - Development Environment Setup

Overview

In the Lab0 of WAPH course work, I have done the Ubuntu 22.04 VM setup in the sandbox of UC. Next, I have installed all the required software as given in the assignment Lab0, firstly installed apache2, next git, sublime text, and pandoc. Additionally installed a google chrome within the VM. After this, I have created a private git repository with my UC mail github account and shared the repository with the instructor and TA as mentioned. Next, cloned the repository using the git clone command, used the ssh key. Then, the README.md file was used as template and edited the details, performing the Lab0 exercises. Finally, this report was written in the Markdown, whose file was generated into PDF by using the pandoc tool.

Part I - Ubuntu Virtual Machine & Software Installation

First step I did was to open and login into my UC sandbox and then in the Web App programming and Hacking EECE 4005 VM I clicked on REQUEST for access. The VM user name elisi-VM was created. The VM deployment was completed. In the remote console, opened the terminal in the VM, using the key-tool commands for ipaddress, then apache2 installed then, installed software like git, pandoc. The Ubuntu VM was established.

Apache Web Server Testing

The apache2 was successfully tested with the ip address

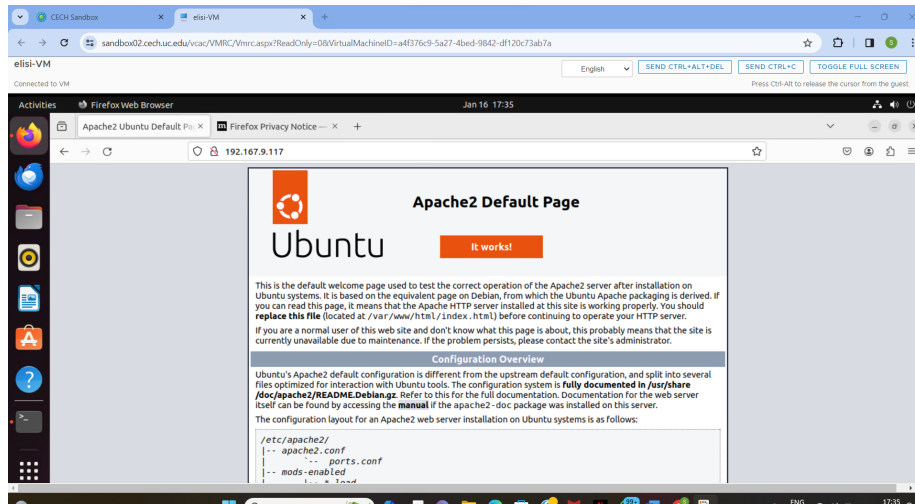
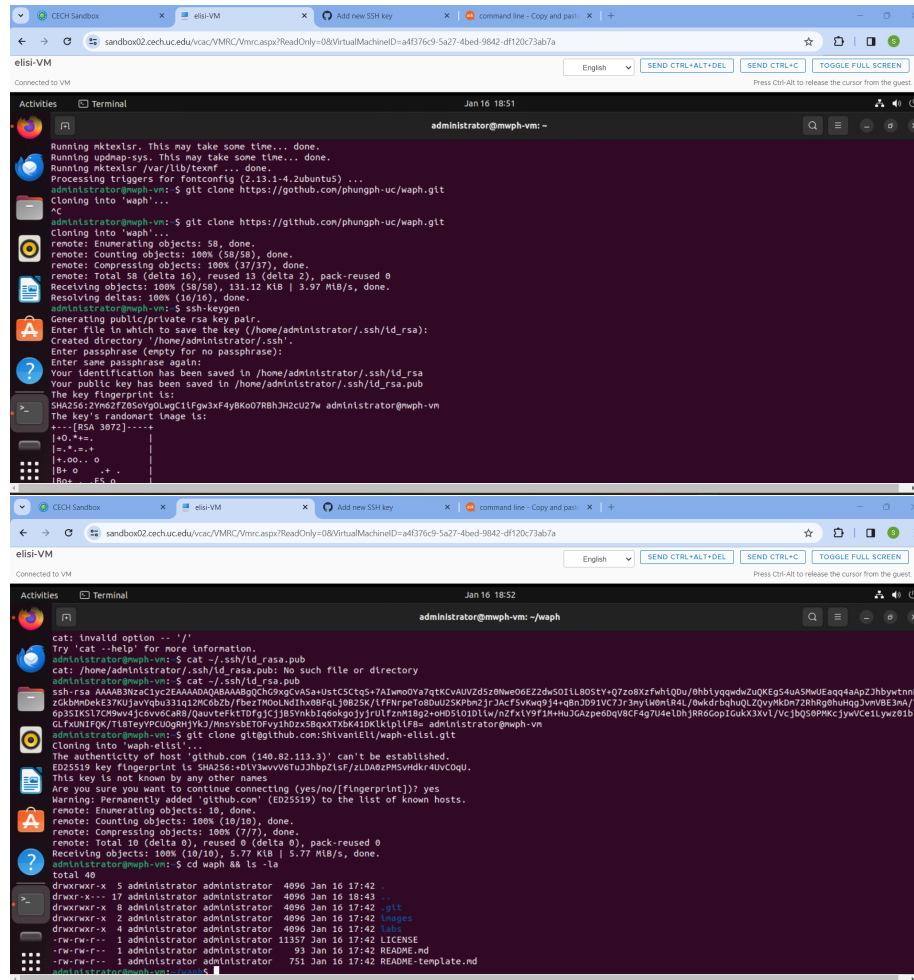


Figure 2: Apache web server testing

The course repository



Private Repository

In my github account, I created a new private repository- waph-elisi, liscensed with apache2.0. Then added phungph-waph as collaborator by clicking on to settings->collaborator->requested for phungph-waph as collaborator. Then successfully added as a collaborator. <https://github.com/ShivaniEli/waph-elisi>

For the SSH key, initially generated a ssh key using ssh key commands in the VM, then used the id_rsa.pub, where the ssh key was copied by marking and right clicking on it and copy, then in the git account repository, under the profile; settings->SSH and GPG keys -> add new SSH, where I added

the title as waph_public_key the pasted the ssh key in the KEY, added the New SSH key. Lastly, cloned the repository with the url. Once it was cloned to the local machine, then the README.md file was updated for the submission as markdown with headshot details as per the template and requirements. The image was uploaded by creating a folder within the repository and saving the image there. Then the image path was copied and pasted.

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elisi-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 22:30 administrator@mmph-vm: ~/waph-ellis/labs/lab0

Your branch is up to date with 'origin/main'.
nothing to commit, working tree clean
administrator@mmph-vm: ~/waph-ellis/labs/lab0$ git push
Everything up-to-date
administrator@mmph-vm: ~/waph-ellis/labs/lab0$ git add --all
administrator@mmph-vm: ~/waph-ellis/labs/lab0$ git commit -m "lab0"
On branch main
Your branch is up to date with 'origin/main'.
nothing to commit, working tree clean
administrator@mmph-vm: ~/waph-ellis/labs/lab0$ git push
To github.com:ShivaniEll/waph-ellis.git
! [rejected]        main -> main (fetch first)
error: failed to push some refs to 'github.com:ShivaniEll/waph-ellis.git'
hint: Updates were rejected because the remote contains work that you do
hint: not have locally. This is usually caused by another repository pushing
hint: to the same ref. You may want to first integrate the remote changes
hint: (e.g., 'git pull ...') before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.
administrator@mmph-vm: ~/waph-ellis/labs/lab0$ git push --force
Enumerating objects: 31, done.
Counting objects: 100% (31/31), done.
Delta compression using up to 2 threads
compressing objects: 100% (25/25), done.
Writing objects: 100% (31/31), 2.42 MiB | 16.02 MiB/s, done.
Total 31 (delta 2), reused 10 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), done.
To github.com:ShivaniEll/waph-ellis.git
+ 3f0a1f9...0193756 main -> main (forced update)
administrator@mmph-vm: ~/waph-ellis/labs/lab0$
```

The labs/lab0 folder and sub-folder were created, then the files were pushed after the changes.