

WAPH-Web Application Programming and Hacking

Instructor: Dr. Phu Phung

Student

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Short-bio: I am international student from India, pursuing my masters in School of IT at University of Cincinnati. My Key skills are Microsoft .Net, MYSQL server, Iam also proficient with languages c, c#, Html, CSS.



Figure 1: Ruthvik Suvarnakanti

Repository Information

Repository's URL: <https://github.com/suvarnrk/suvarnrk-WAPH.git>

This is a private repository of Ruthvik Suvarnakanti to store all code from the course.

Lab 0 - Development Environment Setup

Overview

In the Web Application Programming and Hacking course, I used the UC Sandbox to put up a the latest version of Ubuntu virtual machine for Lab 0. I set up the necessary programs, including the Google chrome , the text editor Sublime Text, GitHub, the Apache server2, and Pandoc. I made a private Git repository on GitHub, shared it with the instructor, and cloned it locally to make cooperation easier. I made sure it was clear by actively amending README.md, which enhanced the project documentation. Lastly, I finished the Lab 0 activities and used Pandoc to create a well-formatted PDF report that demonstrated

my command of web development technologies and my ability to communicate effectively.

[<https://github.com/suvarnrk/waph-suvarnrk/edit/main/labs/lab0>] (<https://github.com/suvarnrk/waph-suvarnrk/edit/main/labs/lab0>)

Part I - Ubuntu Virtual Machine & Software Installation

I followed the instructor's guidance to access the CECH sandbox at the University of Cincinnati for using the Web Application Programming and Hacking virtual machine. After the VM deployment, I opened it through the remote console, establishing a connection to the Ubuntu VM.

Apache Web Server Testing

Testing the IP address of Apache server on google chrome

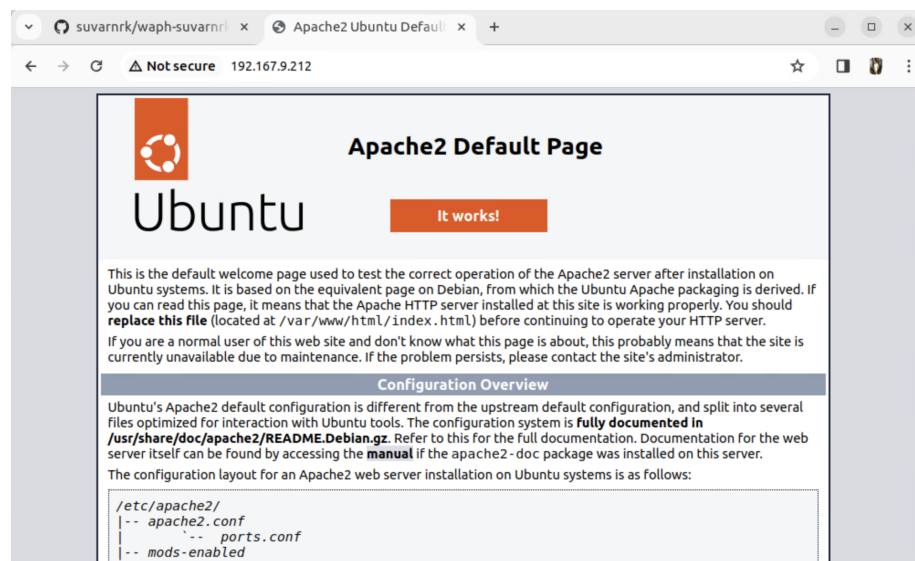


Figure 2: Testing Apache server

Part II - git Repositories and Exercises

the course Web Application programming and hacking course repository on Git

```
administrator@mwph-vm: ~
remote: Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (4/4), 4.50 KiB | 418.00 KiB/s, done.
administrator@mwph-vm:~$ git config --global user.email "suvarnrk2mail.uc.edu"
administrator@mwph-vm:~$ git config --global user.name "suvarnrk"
administrator@mwph-vm:~$ git clone https://github.com/phungph-uc/waph.git
Cloning into 'waph'...
remote: Enumerating objects: 53, done.
remote: Counting objects: 100% (53/53), done.
remote: Compressing objects: 100% (33/33), done.
remote: Total 53 (delta 15), reused 13 (delta 2), pack-reused 0
Receiving objects: 100% (53/53), 128.16 KiB | 4.13 MiB/s, done.
Resolving deltas: 100% (15/15), done.
administrator@mwph-vm:~$ git config --global user.email "suvarnrk@mail.uc.edu"
administrator@mwph-vm:~$ git config --global user.name "suvarnrk"
administrator@mwph-vm:~$ ifconfig
ens160: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.167.9.212 netmask 255.255.0.0 broadcast 192.167.255.255
    inet6 fe80::27d3:eb8e:19ee:c19e prefixlen 64 scopeid 0x20<link>
    ether 00:50:56:8a:dc:14 txqueuelen 1000 (Ethernet)
    RX packets 770606 bytes 1799759561 (1.7 GB)
    RX errors 0 dropped 9854 overruns 0 frame 0
    TX packets 170372 bytes 34922237 (34.9 MB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

The course repository

Private Repository

Created a new private repository with name suvarnrk-waph as suggested by the instructor and added professor as a collaborator using his username phung-waph and requested him.

<https://github.com/suvarnrk/waph-suvarnrk> I created an SSH key on my local computer and copied the id_rsa.pub public key to GitHub via Settings -> SSH and GPG keys -> New SSH key in order to enable SSH authentication. Using the SSH link, cloned the repository now.GitHub.

I inserted a headshot image and modified the README.md file using the instructor’s template after cloning the repository to my local computer. The picture was posted straight to github.com’s “images” subdirectory. I then committed and staged these changes before submitting them to the remote repository. I made more edits to the README.md file on GitHub after the push. I used the terminal to get the most recent updates from the remote repository and apply them locally. My local copy precisely reflected the most recent GitHub updates thanks to this procedure.

Submission

I used the **pandoc** tool to generate the PDF report for submission from the README.md file, and ensured that the report and contents are rendered properly.

```
administrator@mwpb-vm: ~/waph-suvarnrk/labs/Lab0
pandoc: /Images/Image1.JPEG: openBinaryFile: does not exist (No such file or directory)
administrator@mwpb-vm: ~/waph-suvarnrk/labs/Lab0$ pandoc README-template.md -o suvarnrk-waph-lab0.pdf
pandoc: /Images/headshot.JPEG: openBinaryFile: does not exist (No such file or directory)
administrator@mwpb-vm: ~/waph-suvarnrk/labs/Lab0$ pandoc README-template.md -o suvarnrk-waph-lab0.pdf
[WARNING] Could not fetch resource 'Images/Image1.JPEG': replacing image with description
administrator@mwpb-vm: ~/waph-suvarnrk/labs/Lab0$ pandoc README-template.md -o suvarnrk-waph-lab0.pdf
[WARNING] Could not fetch resource 'Images/Image1.JPEG': replacing image with description
administrator@mwpb-vm: ~/waph-suvarnrk/labs/Lab0$ git add --all
administrator@mwpb-vm: ~/waph-suvarnrk/labs/Lab0$ git commit -m "update_git"
[main c913a95] update_git
 0 files changed, 128 insertions(+)
 create mode 100644 labs/Lab0/README-template.md
 create mode 100644 labs/Lab0/README.md
 create mode 100644 labs/Lab0/Images/headshot.JPEG
 create mode 100644 labs/Lab0/Images/Image1.png
 create mode 100644 labs/Lab0/Images/Image2.png
 create mode 100644 labs/Lab0/suvarnrk-waph-lab0.pdf
administrator@mwpb-vm: ~/waph-suvarnrk/labs/Lab0$ git push
Enumerating objects: 12, done.
Counting objects: 100% (12/12), done.
Delta compression using up to 2 threads
Compressing objects: 100% (10/10), done.
Writing objects: 100% (11/11), 2.54 MiB | 13.13 MiB/s, done.
Total 11 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), done.
remote: this repository moved, please use the new location:
remote:  git@github.com:suvarnrk/waph-suvarnrk.git
To github.com:suvarnrk/suvarnrk-WAPH.git
 30fcd01..c913a95  main -> main
administrator@mwpb-vm: ~/waph-suvarnrk/labs/Lab0$
```

Figure 3: Repository changes pushed