

waph-kanamala

WAPH-Web Application Programming and Hacking

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Student

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Short-bio: I am having interest towards data science and web development.



Figure 1: Lakhmi Narayana headshot

Repository Information

Repository's URL: <https://github.com/LakshmiNarayanaKanamarlapudi/waph-kanamala.git>

This is a private repository for Kanamarlapudi Lakshmi Narayana to store all code from the course. The organization of this repository is as follows.

Labs

Hands-on exercises in lectures

- <https://github.com/LakshmiNarayanaKanamarlapudi/waph-kanamala/tree/main/labs/lab1>: Foundations of the Web

Lab Overview

- Part 1 : The Web and HTTP Protocol. In this part we work with the wireshark and telnet.
- Part 2 : Basic Web Application Programming. This part we work with the web programming using C and php.

Lab 1

Part 1 The Web and HTTP Protocol

Task 1 Familiar with Wireshark tool and HTTP protocol

- Open the sandbox enviroment using the web browser.
- Then connect to the VM. And install the wireshark using terminal to do our work.
- Now open the wireshark using the following command " sudo wireshark &".
- In the wireshark we need to select the capturing options icon and click the any packet tracing.
- Now click on the start capturing option. So, then the tool will capture the packets.
- Then we can open a web browser and give some request.
- Now the wireshark will starts tarcning the packets.
- Then we can filter the http packets which are captured by the tool.
- Finally, this is how we work with the wireshark and HTTP protocol.

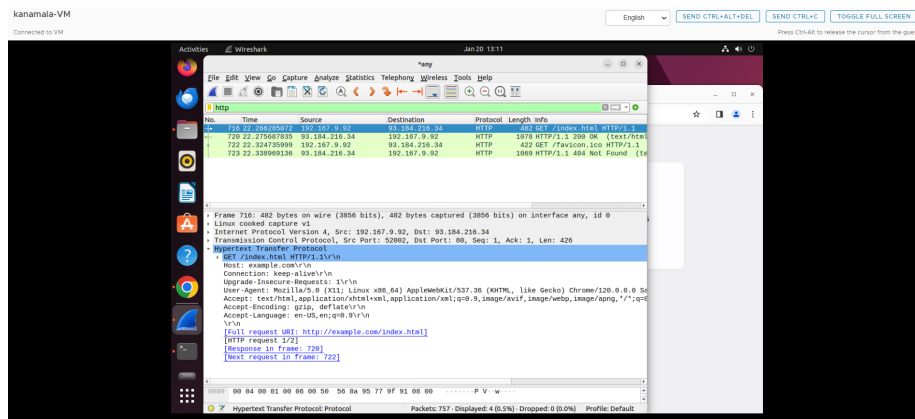


Figure 2: HTTP REQUEST

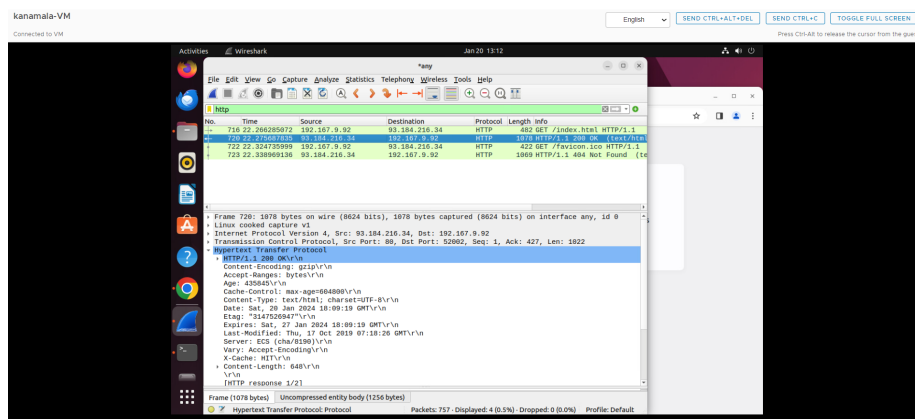


Figure 3: HTTP RESPONSE

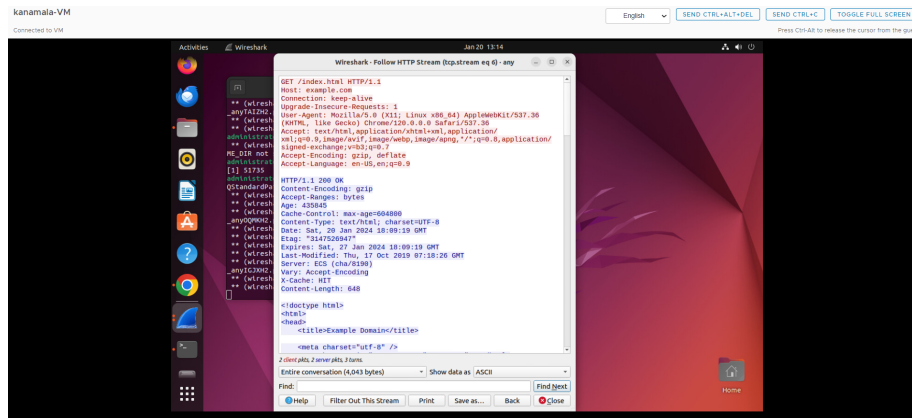


Figure 4: HTTP STREAM

Apache Web Server Testing

Part 2 Git Repositories and Exercises

- The course repository

Course Repository

- Private Repository
- One done with creating a github account.
- Create a private repository with the following naming convention is waph-uc(6+2).
- For that first open the github and login to your account.
- Then click on profile and navigate to the repositories and then create the private repository.
- And then from the collaborators section we need to add the professor to our repository.
- Private repository url : (<https://github.com/LakshmiNarayanaKanamarpudi/waph-kanamala.git>)
- Then we need to generate the ssh key using the “ssh-keygen” command
- We need to go the ssh key location and copy the key.
- Now open the github click the profile icon and select the settings
- Then select SSH and GPG keys and add the new ssh key by pasting the key copied from vm.
- Now we need to clone our repository into our VM using the following command “git clone git@github.com:LakshmiNarayanaKanamarpudi/waph-kanamala.git”.
- Finally i have used the template in the course repository and edit the readme file in my repository.

Screenshot of Changes from VM to Repository

Changes from VM to repository!