



SERVER EMULATION

Live Interaction

A python program with help of respective Python libraries can behave/respond like a server. This kind of code can be modified and deployed as a custom honeypot to lure the attackers. In this section, the labs cover the emulation of SSH, HTTP, and FTP servers. In each lab the user is provided with skeleton code in IDE and terminal access to a Kali machine, the user can run the code to deploy the server and then interact with it using the Kali attacker machine.

What will you learn?

- Server emulation using various Python libraries

References:

1. Twisted library (<https://github.com/twisted/twisted>)

Labs Covered:

- [Server Emulation Lab Warmup](#)
In this lab, you will learn to create a basic HTTP server, deploy it and then interact with it using a Kali machine. This is a warm-up lab for this section.
- [SSH Server Emulation](#)
In this lab, you will learn to modify the provided skeleton code to deploy an SSH honeypot and then use the provided Kali machine to interact with it. Python twisted library is used in the program.
- [FTP Server Emulation](#)
In this lab, you will learn to modify the provided skeleton code to deploy an FTP honeypot and then use the provided Kali machine to interact with it. Python twisted library is used in the program.
- [HTTP Server Emulation](#)
In this lab, you will learn to modify the provided skeleton code to deploy an HTTP honeypot and then use the provided Kali machine to interact with it. Python twisted library is used in the program.



Server Emulation Lab Warmup



SSH Server Emulation



FTP Server Emulation

