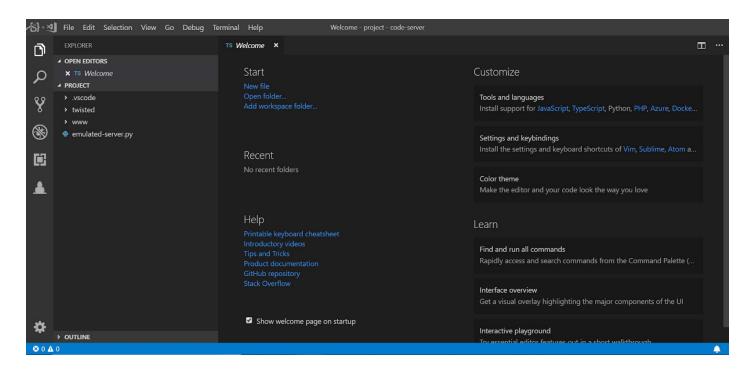
Name	HTTP Server Emulation
URL	https://attackdefense.com/challengedetails?cid=1215
Туре	Offensive Python : Server Emulation

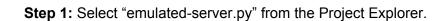
Important Note: This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on this topic. Also, note that the IP addresses and domain names might be different in your lab.

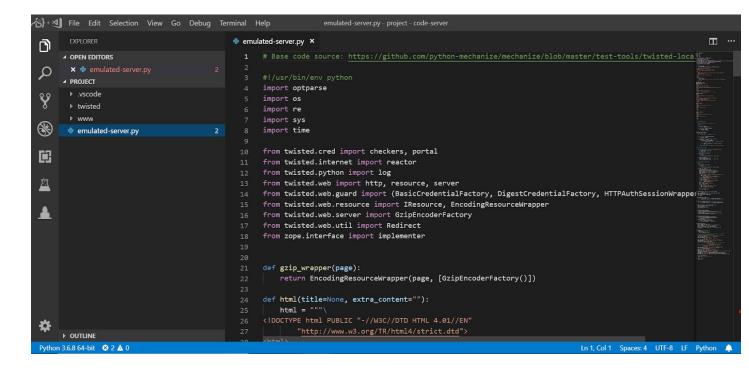
Objective: Modify the code, launch the server and use Kali Linux to interact/attack it.

Solution:

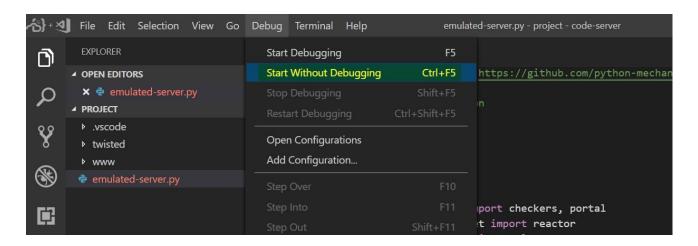
Landing Page:



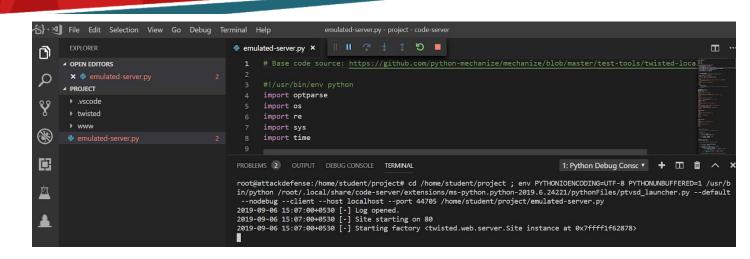




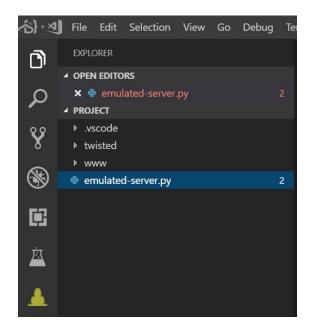
Step 2: Navigate to Debug Menu and click on "Start Without Debugging option" to run the program.



The python script will run and start HTTP Server on port 80.



Step 3: Click on the "Sessions" icon on the activity bar to gain access to Kali machine.



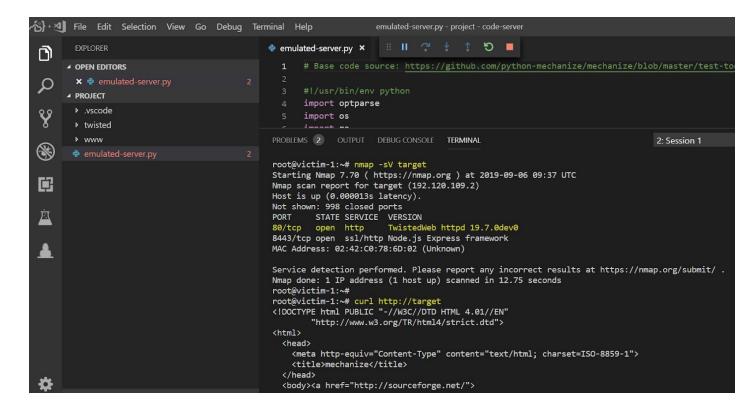
This will spawn a new Terminal "Session 1" which will provide a bash shell on a remote Kali machine.

Step 4: Perform Nmap scan from the Kali machine. Identify the services running on the machine on which the IDE (and code) is running. The IDE machine is mapped to "target" hostname. So, "target" can be used while launching scans or tools on this machine. Alternatively, the IP address of the both machines can be found by running "ip addr" command on respective machine. The IDE machine should be on 192.x.y.2 and Kali machine should be on 192.x.y.3.

Command: nmap -sV target

HTTP server is running on port 80 on the target machine. Curl can be used to make a GET request to the web server.

Command: curl http://target



References:

- 1. Visual Studio Code (https://code.visualstudio.com/)
- 2. VS Code Basic Editing (https://code.visualstudio.com/docs/editor/codebasics)
- 3. Twisted (https://www.twistedmatrix.com/trac/)