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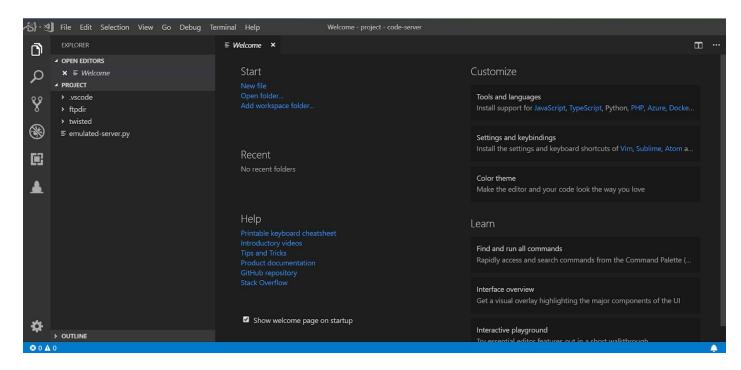
Name	FTP Server Emulation
URL	https://attackdefense.com/challengedetails?cid=1214
Туре	Offensive Python : Server Emulation

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:

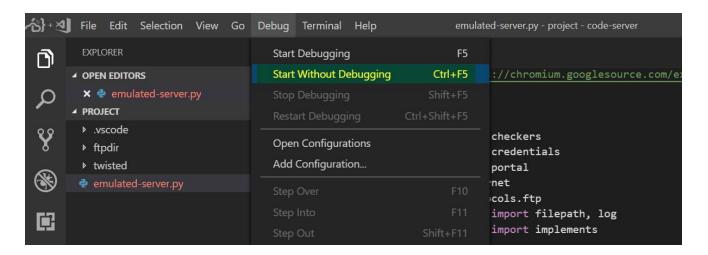


```
ঠ}+ৠ File Edit Selection View Go Debug Terminal Help
                                                                      emulated-server.py - project - code-server
         EXPLORER
                                                emulated-server.py ×
 N
                                                       # Code source: https://chromium.googlesource.com/external/github.com/
       △ OPEN EDITORS
         🗙 🍨 emulated-server.py
                                                       import optparse

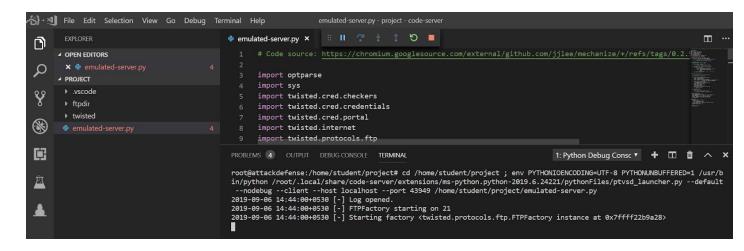
▲ PROJECT

                                                       import sys
         .vscode
                                                       import twisted.cred.checkers
         ▶ ftpdir
                                                       import twisted.cred.credentials
         twisted
                                                       import twisted.cred.portal
         emulated-server.py
                                                       import twisted.internet
                                                       import twisted.protocols.ftp
                                                       from twisted.python import filepath, log
 Ů.
                                                       from zope.interface import implements
  蒕
                                                       def make_ftp_shell(avatar_id, root_path):
                                                            if avatar_id is twisted.cred.checkers.ANONYMOUS:
                                                               return twisted.protocols.ftp.FTPAnonymousShell(root_path)
                                                                return twisted.protocols.ftp.FTPShell(root_path)
                                                       class FTPRealm(object):
                                                            implements(twisted.cred.portal.IRealm)
                                                            def __init__(self, root_path):
                                                                self._root_path = filepath.FilePath(root_path)
                                                            def requestAvatar(self, avatarId, mind, *interfaces):
                                                                for iface in interfaces:
                                                                    if iface is twisted.protocols.ftp.IFTPShell:
```

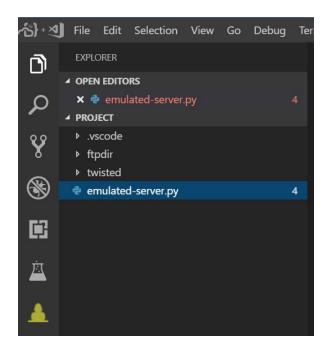
Step 2: Navigate to Debug Menu and click on "Start Without Debugging option" to run the program.



The python script will run and start an FTP Server on port 21.



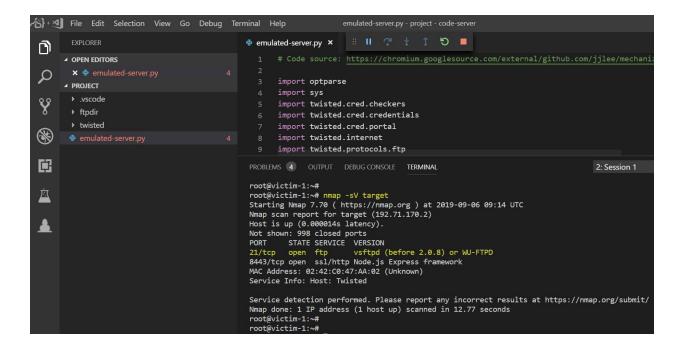
Step 3: Click on the "Sessions" icon on the activity bar to gain access to Kali machine.



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



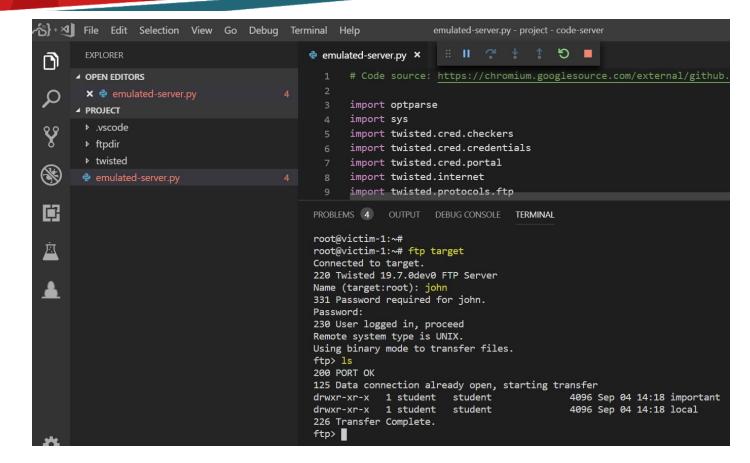
FTP server is running on port 21 on the target machine.

Step 5: Login to FTP server using username "john" and password "john". Alternatively, as anonymous login is enabled on the server, one can use that.

Command: ftp target

After successful authentication, an FTP shell will be provided to the user.





References:

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