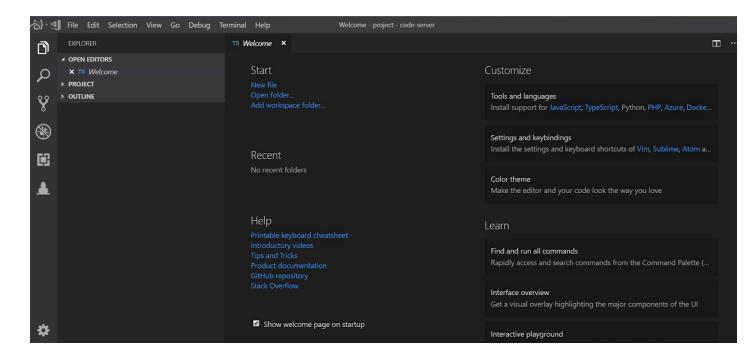


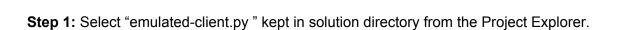
**Important Note:** This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on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

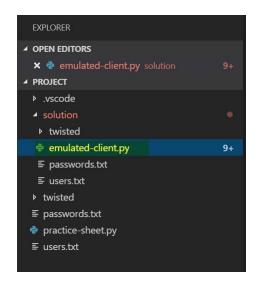
**Objective:** Use Python <u>twisted</u> library to login into the mail account of user "netadmin" and fetch subjects of all his mails.

## Solution:

## **Landing Page:**







**Step 2:** This script takes two arguments i.e. username and password list. If we check the comments on top of solution script file, it directs us to add given line to .vscode > launch.json file.

```
File Edit Selection View Go Debug Terminal Help emulated-client.py - project - code-server

EXPLORER

OPEN EDITORS

* PROJECT

| To pass arguments to the program, add the following line to Python configuration
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| To pass arguments to the program and the following line to Python configuration | To pass arguments | To pass
```

Make the suggested changes to launch.json file.

```
{} launch.json •
      ▲ OPEN EDITORS 1 UNSAVED
                                                             // Hover to view descriptions of existing attributes.
        • {} launch.json .vscode
                                                              "configurations": [
        {} launch.json
        start.sh
                                                                      "name": "Python",

    solution

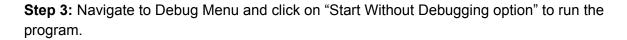
                                                                       "request": "launch",
▶ twisted
                                                                       "program": "${file}",
        emulated-client.py
                                                                       "console": "integratedTerminal",

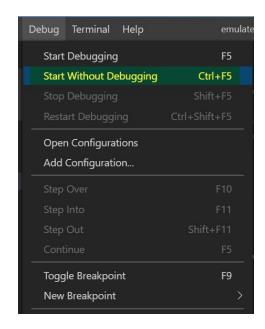
≡ passwords.txt

                                                                       "pythonPath": "/usr/bin/python",

≡ users.txt

                                                                       "args" : ["users.txt", "passwords.txt"]
```





Step 3: Script will run and print all credentials it is trying and stops on getting the correct pair.

```
PROBLEMS (2) OUTPUT DEBUG CONSOLE TERMINAL

root@attackdefense:/home/student/project# cd /home/student/project; env PYTHONIOENCODING=UTF-8 PYTHONUNBUFFERED=1 /usr/bin/python /root/.1 --port 33475 /home/student/project#solution/test.py users.txt passwords.txt
Trying credential pair: ('admin', 'admin')
Trying credential pair: ('admin', '123456')
Trying credential pair: ('admin', '123456')
Trying credential pair: ('admin', '123456')
Trying credential pair: ('admin', '123456'89')
Trying credential pair: ('admin', 'piassword')
Trying credential pair: ('admin', 'piassword')
Trying credential pair: ('admin', 'piassword')
Trying credential pair: ('admin', '12345678')
Trying credential pair: ('admin', '10veu')
Trying credential pair:
```

In this case, the correct credential pair is admin:tigger. The script was able to login for this pair and stopped after finding this.



## References:

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