

[illegible]

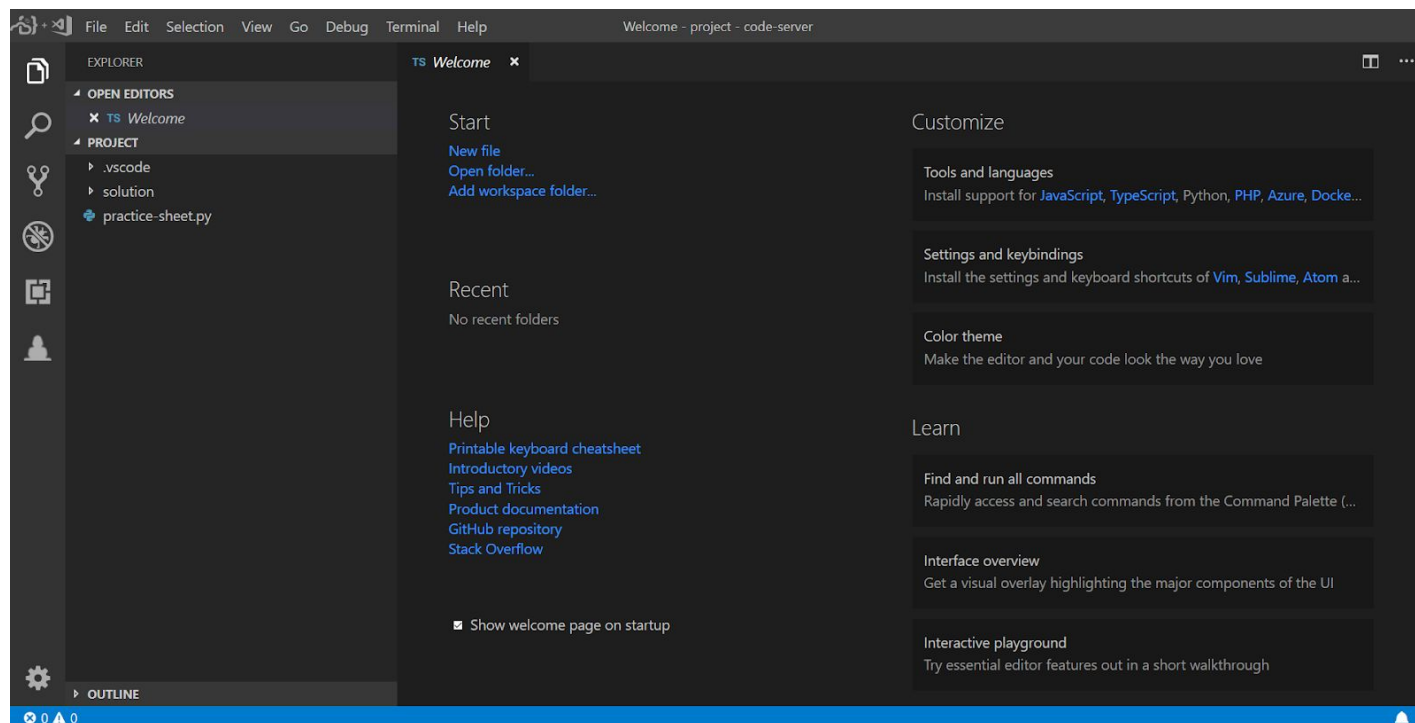
Name	Samba Client Emulation I
URL	https://attackdefense.com/challengedetails?cid=1217
Type	Offensive Python : Client Emulation

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.

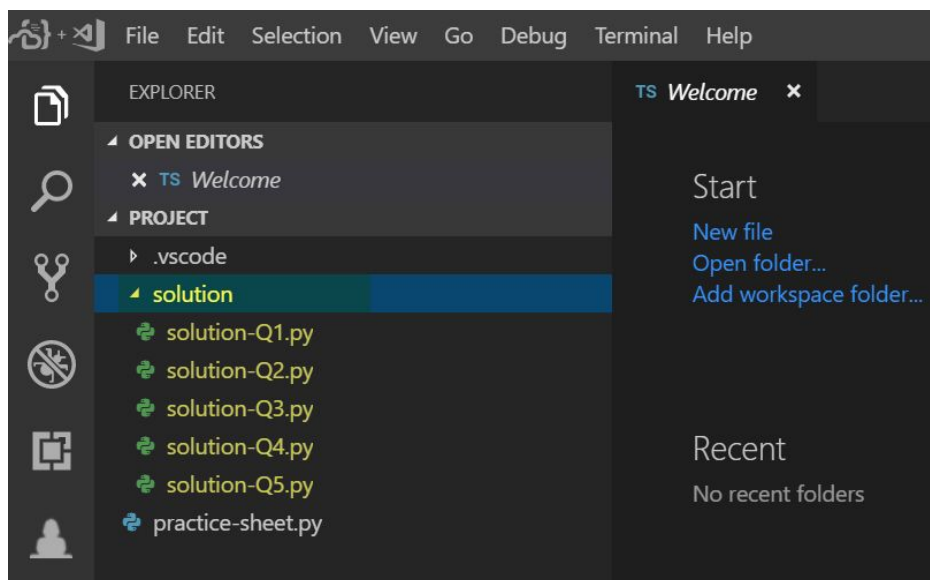
Objective: Use Python impacket library to interact with the samba server and perform the mentioned task.

Solution:

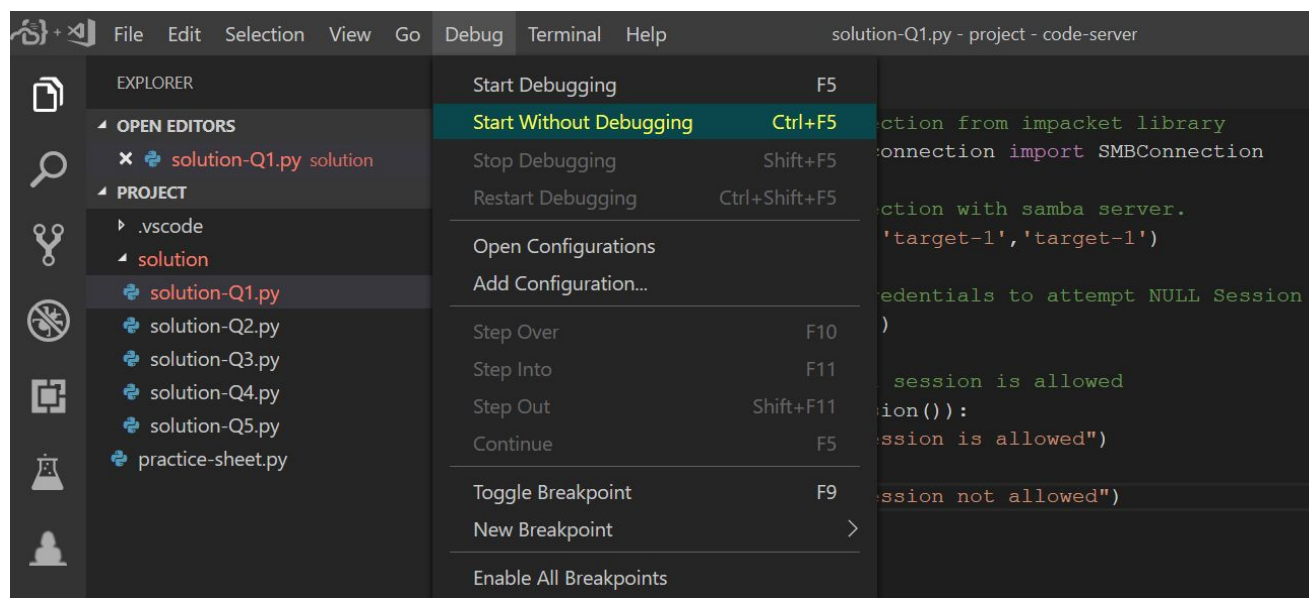
Landing Page:



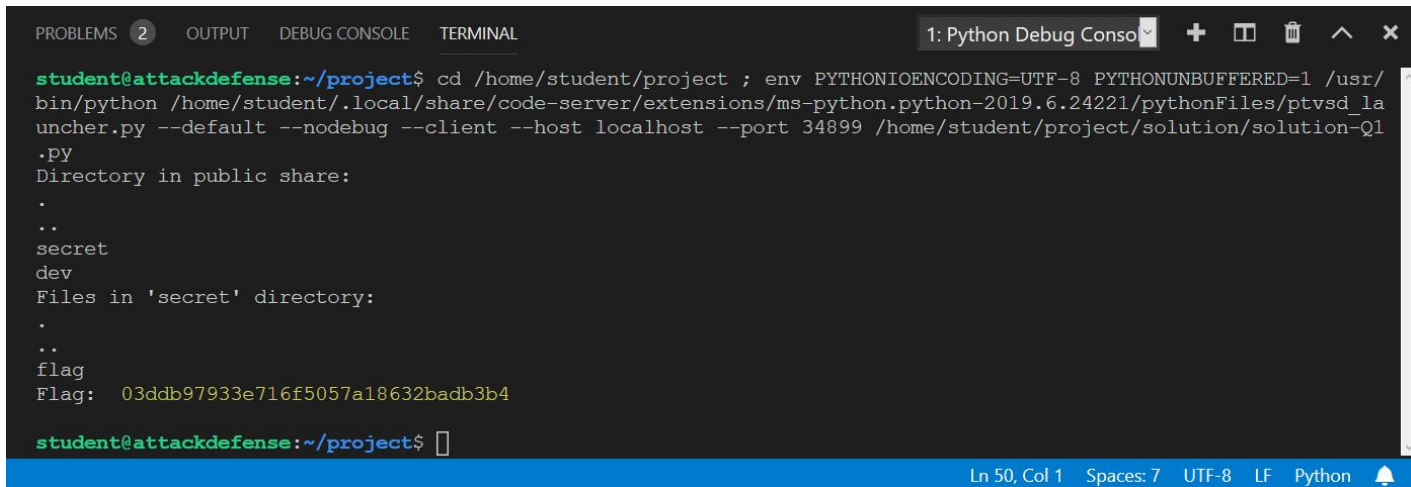
Step 1: Solutions code for all five tasks is given under the solution directory listed in Project Explorer.



Step 2: Open solution-Q1.py. Navigate to Debug Menu and click on “Start Without Debugging option”.



The python script will be executed and the output will be displayed on the integrated terminal. In this case, the python script dumps the flag present in secret directory in the public share.

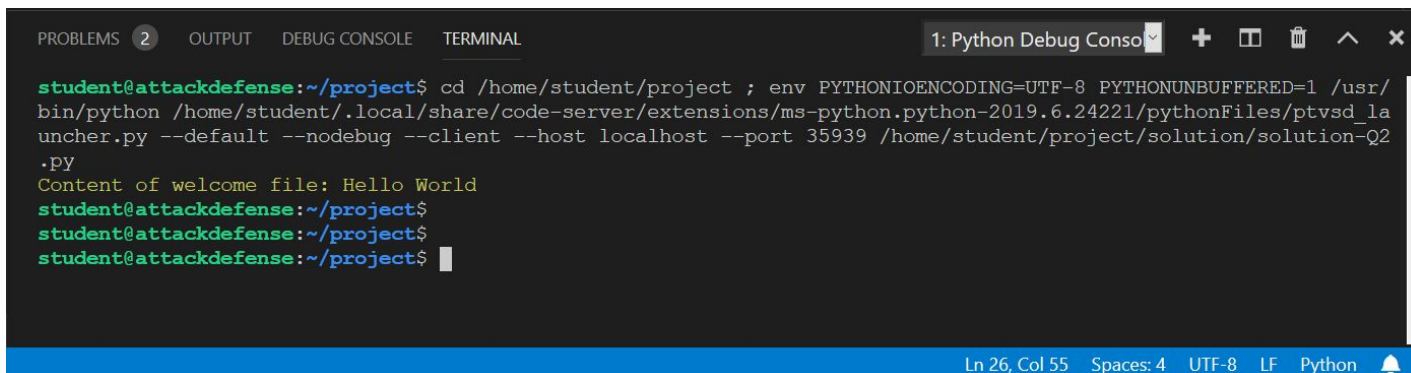


```
PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL 1: Python Debug Conso + [ ] [X] ^ X
student@attackdefense:~/project$ cd /home/student/project ; env PYTHONIOENCODING=UTF-8 PYTHONUNBUFFERED=1 /usr/
bin/python /home/student/.local/share/code-server/extensions/ms-python.python-2019.6.24221/pythonFiles/ptvsd_la
uncher.py --default --nodebug --client --host localhost --port 34899 /home/student/project/solution/solution-Q1
.py
Directory in public share:
.
..
secret
dev
Files in 'secret' directory:
.
..
flag
Flag: 03ddb97933e716f5057a18632badb3b4

student@attackdefense:~/project$
```

Step 3: Similarly, open solution code for other tasks and run the code to see the output.

a. **solution-Q2.py:** Upload a file with "Hello World" content on the 'public' share.



```
PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL 1: Python Debug Conso + [ ] [X] ^ X
student@attackdefense:~/project$ cd /home/student/project ; env PYTHONIOENCODING=UTF-8 PYTHONUNBUFFERED=1 /usr/
bin/python /home/student/.local/share/code-server/extensions/ms-python.python-2019.6.24221/pythonFiles/ptvsd_la
uncher.py --default --nodebug --client --host localhost --port 35939 /home/student/project/solution/solution-Q2
.py
Content of welcome file: Hello World
student@attackdefense:~/project$
student@attackdefense:~/project$
student@attackdefense:~/project$
```

The File named "welcome" was uploaded successfully.

b. **solution-Q3.py**: Delete the file which was uploaded in the previous task.

```
PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL 1: Python Debug Conso + [ ] [X] ^ X
student@attackdefense:~/project$ cd /home/student/project ; env PYTHONIOENCODING=UTF-8 PYTHONUNBUFFERED=1 /usr/
bin/python /home/student/.local/share/code-server/extensions/ms-python.python-2019.6.24221/pythonFiles/ptvsd_la
uncher.py --default --nodebug --client --host localhost --port 34317 /home/student/project/solution/solution-Q3
.py
Files and Directories in public share:
.
..
secret
dev
welcome
Files and Directories in public share after deletion:
.
..
secret
dev
student@attackdefense:~/project$
student@attackdefense:~/project$
```

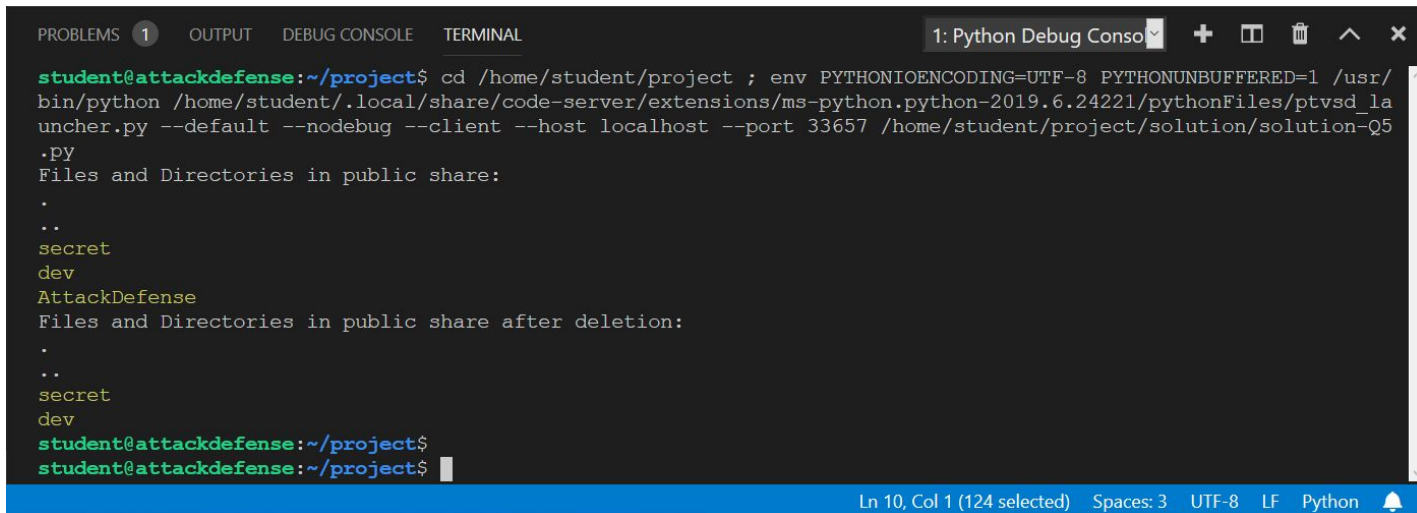
The “welcome” file was deleted successfully.

c. **solution-Q4.py**: Create a directory named AttackDefense on the public share.

```
PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL 1: Python Debug Conso + [ ] [X] ^ X
student@attackdefense:~/project$ cd /home/student/project ; env PYTHONIOENCODING=UTF-8 PYTHONUNBUFFERED=1 /usr/
bin/python /home/student/.local/share/code-server/extensions/ms-python.python-2019.6.24221/pythonFiles/ptvsd_la
uncher.py --default --nodebug --client --host localhost --port 42175 /home/student/project/solution/solution-Q4
.py
Files and Directories in public share:
.
..
secret
dev
Files and Directories in public share after directory creation:
.
..
secret
dev
AttackDefense
student@attackdefense:~/project$
student@attackdefense:~/project$
```

Directory AttackDefense was created on the samba public share.

d. **solution-Q5.py**: Delete the directory "AttackDefense" created in the previous task.



```
PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL 1: Python Debug Console + [ ] [X] ^ X
student@attackdefense:~/project$ cd /home/student/project ; env PYTHONIOENCODING=UTF-8 PYTHONUNBUFFERED=1 /usr/
bin/python /home/student/.local/share/code-server/extensions/ms-python.python-2019.6.24221/pythonFiles/ptvsd_la
uncher.py --default --nodebug --client --host localhost --port 33657 /home/student/project/solution/solution-Q5
.py
Files and Directories in public share:
.
..
secret
dev
AttackDefense
Files and Directories in public share after deletion:
.
..
secret
dev
student@attackdefense:~/project$
student@attackdefense:~/project$
```

Ln 10, Col 1 (124 selected) Spaces: 3 UTF-8 LF Python

Directory AttackDefense was deleted from the samba public share.

References:

1. Impacket (<https://github.com/SecureAuthCorp/impacket>)
2. Visual Studio Code (<https://code.visualstudio.com/>)
3. VS Code Basic Editing (<https://code.visualstudio.com/docs/editor/codebasics>)