

# Wipro-Capstone-4

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## Python Local

```
Windows PowerShell
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PS D:\ADP Project\Git\Capstone\socket-local\python> python .\client.py
Connected to server at localhost:12345
Enter message to server: hello
Server says: hii
Enter message to server: How are you manyu
Server says: fine
Enter message to server: |

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PS D:\ADP Project\Git\Capstone\socket-local\python> python .\server.py
Server listening on localhost:12345
Connected to client at ('127.0.0.1', 61892)
Client says: hello
Enter reply to client: hii
Client says: How are you manyu
Enter reply to client: fine
```

This PC > Data (D:) > ADP Project > Git > Capstone > socket-local > python				
Sort View ...				
Name	Date modified	Type	Size	
client.py	10-04-2025 11:14	Python.File	1 KB	
server.py	10-04-2025 11:13	Python.File	1 KB	

# Python Docker

Windows PowerShell

```
=> [client] resolving provenance for metadata file
0.0s
[+] Running 4/4
✓client Built 0.0s
✓server Built 0.0s
✓Container python_socket_server Created 0.1s
✓Container python_socket_client Created 0.1s

Attaching to python_socket_client, python_socket_server
python_socket_server | [SERVER] Listening on 0.0.0.0:12345...
python_socket_client | [CLIENT] Connected to server at server:12345
python_socket_server | [SERVER] Connected to client at ('172.18.0.3', 44374)
)
python_socket_server | hello from manyu
python_socket_client | [YOU] Enter message: hello I am client
python_socket_server | [CLIENT] hello I am client
python_socket_client | [SERVER] hello from manyu
```

View in Docker Desktop View Config Enable Watch

Windows PowerShell

```
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PS D:\ADP Project\Git\Capstone\socket-docker\python> docker attach python_so
cket_server
hello from manyu
[CLIENT] hello I am client
[YOU] Enter response: |
```

Windows PowerShell

```
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PS D:\ADP Project\Git\Capstone\socket-docker\python> docker attach python_so
cket_client
hello I am client
[SERVER] hello from manyu
[YOU] Enter message: |
```

Name	Date modified	Type	Size
client	10-04-2025 12:25	File folder	
server	10-04-2025 11:46	File folder	
docker-compose.yml	10-04-2025 11:40	YML File	1 KB

Name	Date modified	Type	Size
client	10-04-2025 11:40	Python File	1 KB
Dockerfile	10-04-2025 11:40	File	1 KB

Name				Date modified	Type	Size
Dockerfile				10-04-2025 11:40	File	1 KB
server				10-04-2025 11:40	Python File	1 KB

## C Local

```
manyu@Manyu: ~/c
manyu@Manyu:~$ ls
c
manyu@Manyu:~$ cd c
manyu@Manyu:~/c$ gcc server.c -o server
manyu@Manyu:~/c$ ./server
Server is listening on port 8080
Message from client: hello from Manyu
Enter a message for client: hi manyu
|

manyu@Manyu: ~/c
manyu@Manyu:~$ ls
c
manyu@Manyu:~$ cd c
manyu@Manyu:~/c$ gcc client.c -o client
manyu@Manyu:~/c$ ./client
Enter a message for server: hello from Manyu
Message from server: hi manyu
Enter a message for server: |
```

# C Docker

```
manyu@Manyu: ~/C Docker f x + v  
=> [client internal] load .dockerignore      0.0s  
=> => transferring context: 2B                0.0s  
=> [client internal] load build context     0.0s  
=> => transferring context: 58B               0.0s  
=> CACHED [client 3/6] COPY server.c        0.0s  
=> CACHED [client 4/6] COPY client.c        0.0s  
=> CACHED [client 5/6] RUN gcc -o server.server.c 0.0s  
=> CACHED [client 6/6] RUN gcc -o client.client.c 0.0s  
=> [client] exporting to image              0.0s  
=> => exporting layers                        0.2s  
=> => exporting manifest sha256:3fd24c77ec8a4dac549427a176ca5e9e26af5bed4e6710c0a5fc2052c0621aae 0.0s  
=> => exporting config sha256:ba9a2146780b24ea1a01da738cbc281c7bc23536f225e8d816f2248607846870 0.0s  
=> => exporting attestation manifest sha256:874fee8d7b5442303d280d981ed02041c92c55987f4806ad8f9c42802d408f88 0.0s  
=> => exporting manifest list sha256:c15f5c370d9c545d5dbe12643c5aad73f1f4901c211b7adb4fc5d3dc465cb38 0.0s  
=> => naming to docker.io/library/cdockerfile-client:latest 0.0s  
=> => unpacking to docker.io/library/cdockerfile-client:latest 0.0s  
=> [client] resolving provenance for metadata file 0.0s  
[+] Building 2/2  
✓client Built 0.0s  
✓server Built 0.0s  
  
manyu@Manyu:~/C Docker File$
```

```
manyu@Manyu:~$ cd C\ Docker\ File/  
manyu@Manyu:~/C Docker File$ docker-compose run client  
WARN[0000] /home/manyu/C Docker File/docker-compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion  
[+] Creating 1/1  
✓Container chat_server Recreated 10.4s  
[+] Running 1/1  
✓Container chat_server Started 0.2s  
  
Connected to server!  
Client: hii from manyu server
```

```
manyu@Manyu:~$ cd C\ Docker\ File/  
manyu@Manyu:~/C Docker File$ docker-compose run server  
WARN[0000] /home/manyu/C Docker File/docker-compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion  
Server waiting for connection...  
hello from manyu server
```

English (India)

English (India)

To switch input methods, press Windows key + space.



