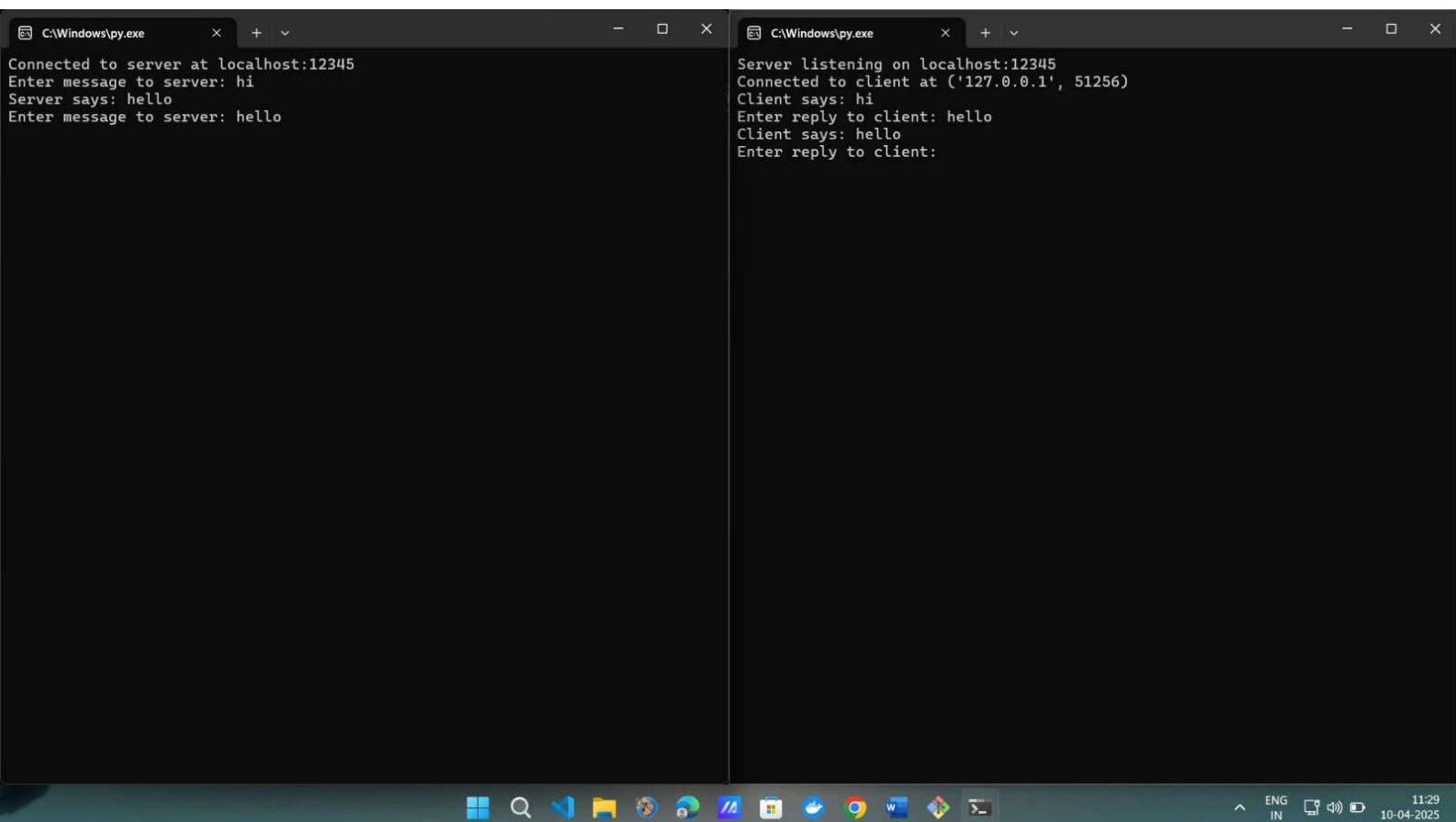


```
MINGW64/C:/Users/aditi raj/OneDrive/Pictures/Desktop/socket-local/python
aditi raj@aditiraj MINGW64 ~/OneDrive/Pictures/Desktop/socket-local
ls
python/
aditi raj@aditiraj MINGW64 ~/OneDrive/Pictures/Desktop/socket-local
cd python/
aditi raj@aditiraj MINGW64 ~/OneDrive/Pictures/Desktop/socket-local/python
touch server.py
aditi raj@aditiraj MINGW64 ~/OneDrive/Pictures/Desktop/socket-local/python
touch client.py
aditi raj@aditiraj MINGW64 ~/OneDrive/Pictures/Desktop/socket-local/python
```





The image shows two side-by-side terminal windows, both titled "C:\Windows\py.exe". The left window displays the output of a client program, and the right window displays the output of a server program.

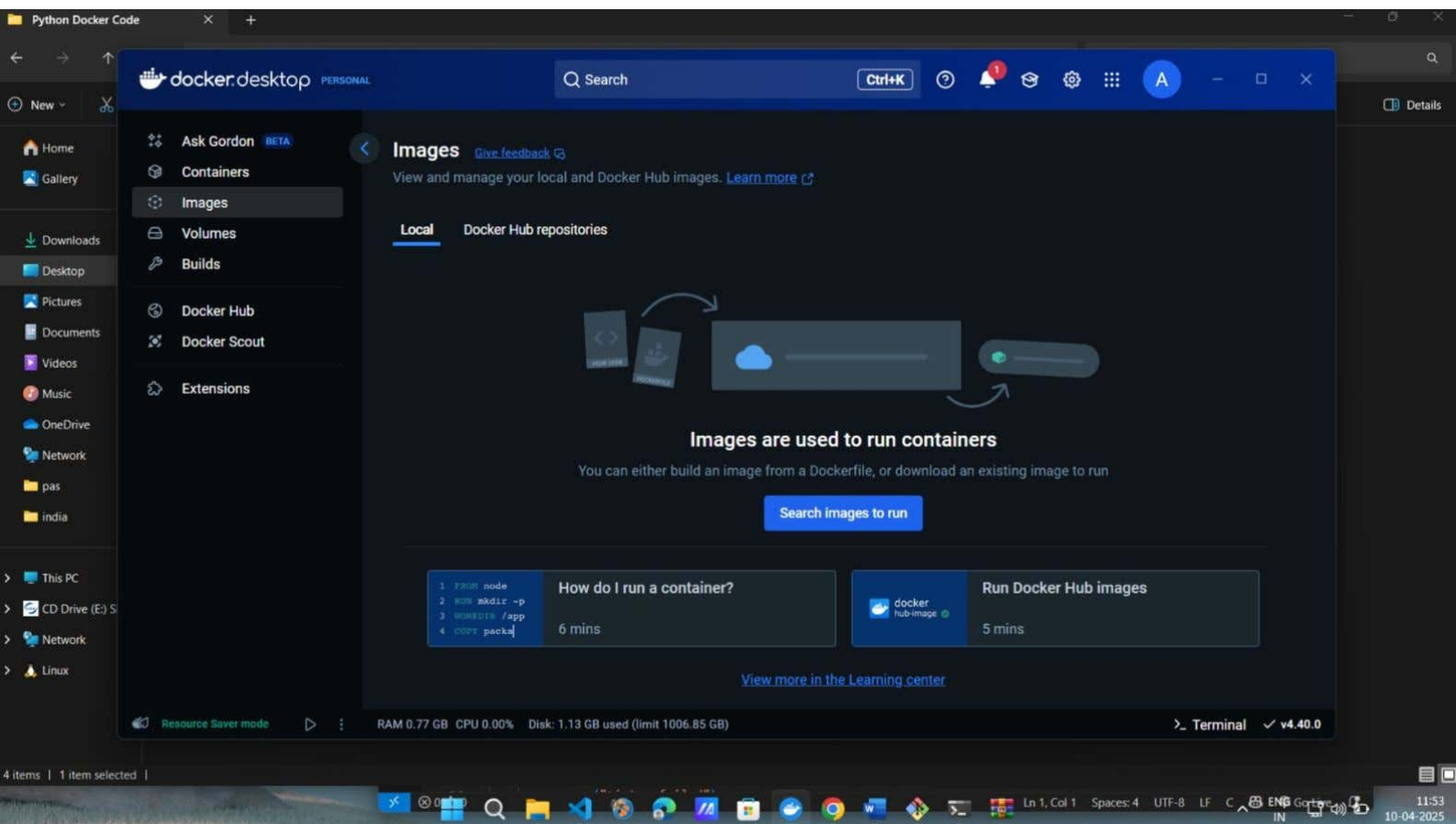
Left Window (Client):

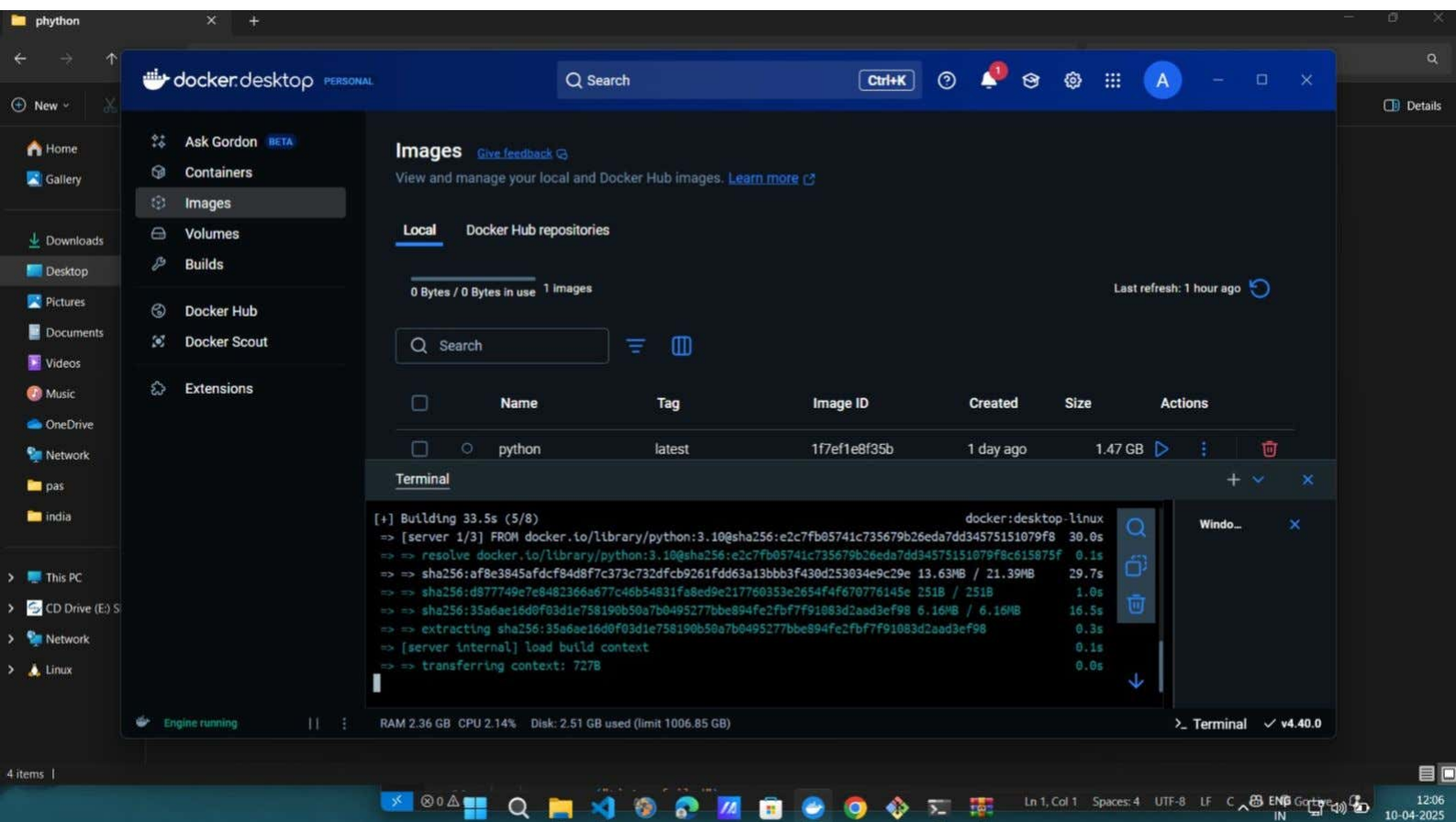
```
Connected to server at localhost:12345
Enter message to server: hi
Server says: hello
Enter message to server: hello
```

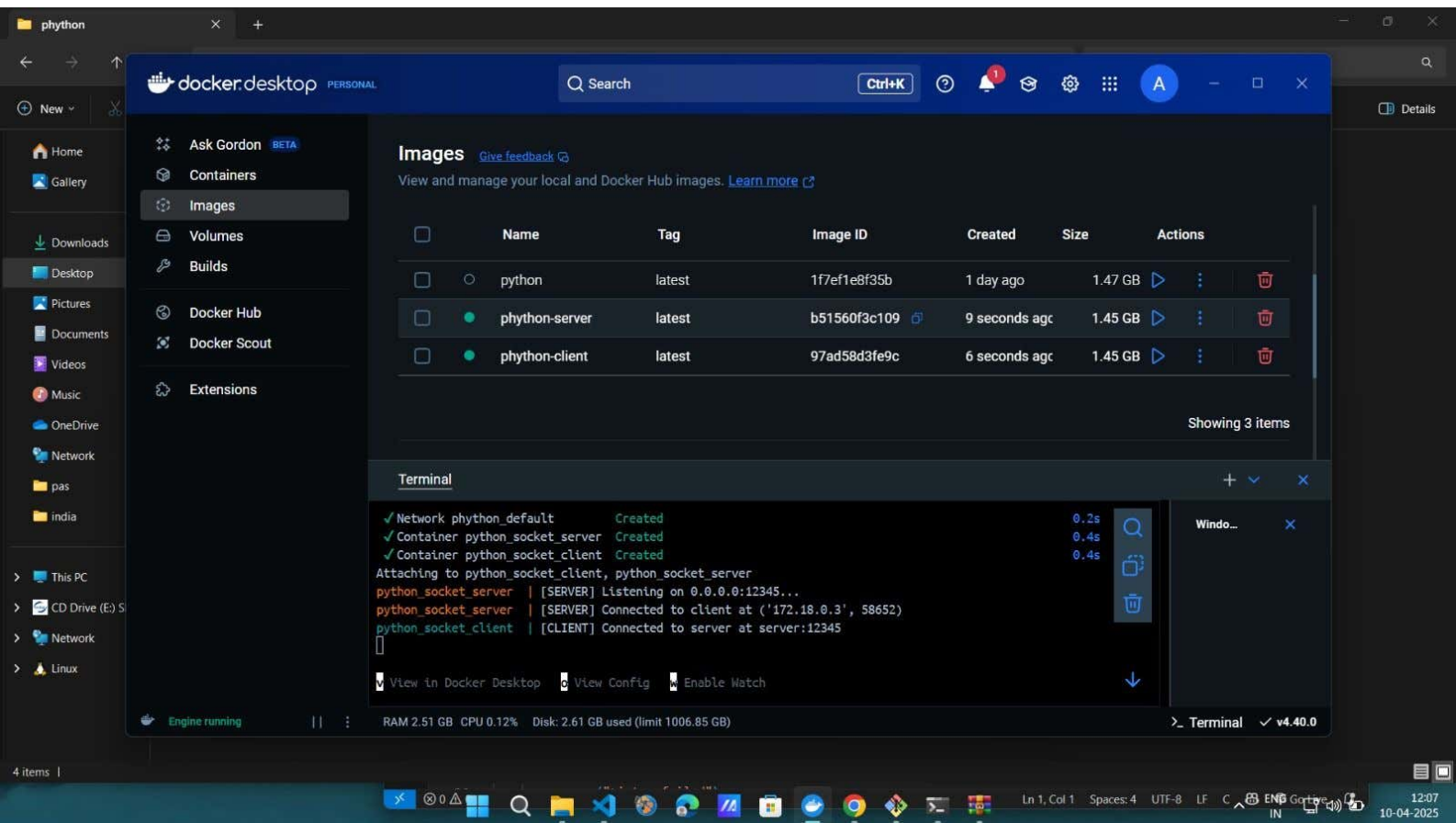
Right Window (Server):

```
Server listening on localhost:12345
Connected to client at ('127.0.0.1', 51256)
Client says: hi
Enter reply to client: hello
Client says: hello
Enter reply to client:
```

The Windows taskbar is visible at the bottom, showing the Start button, search icon, and several application icons. The system tray on the right indicates the language is "ENG IN", and the date and time are "10-04-2025 11:29".







- Ask Gordon BETA
- Containers
- Images
- Volumes
- Builds
- Docker Hub
- Docker Scout
- Extensions

Containers [Give feedback](#)

View all your running containers and applications. [Learn more](#)

Container CPU usage

0.00% / 800% (8 CPUs available)

Container memory usage

14.19MB / 7.43GB

[Show charts](#)

Search



Only show running containers

<input type="checkbox"/>	Name	Container ID	Image	Port(s)	CPU (%)	Last started	Actions
<input type="checkbox"/>	python	-	-	-	0%	5 minutes ago	
<input type="checkbox"/>	python_socket_server	1b74466edf2e	python-server	12345:12345	0%	5 minutes ago	
<input type="checkbox"/>	python_socket_client	dad09f1801cf	python-client		0%	5 minutes ago	

Showing 3 items

Terminal

```
✓ Network python_default Created 0.2s
✓ Container python_socket_server Created 0.4s
✓ Container python_socket_client Created 0.4s
Attaching to python_socket_client, python_socket_server
python_socket_server | [SERVER] Listening on 0.0.0.0:12345...
python_socket_server | [SERVER] Connected to client at ('172.18.0.3', 58652)
python_socket_client | [CLIENT] Connected to server at server:12345
```

View in Docker Desktop View Config Enable Watch

Engine running

RAM 0.93 GB CPU 9.31% Disk: 2.61 GB used (limit 1006.85 GB)

Terminal v4.40.0



Command Prompt - docker a

Microsoft Windows [Version 10.0.26100.3476]
(c) Microsoft Corporation. All rights reserved.

C:\Users\aditi raj>cd C:\Users\aditi raj\OneDrive\Pictures\Desktop\socket-docker\python

C:\Users\aditi raj\OneDrive\Pictures\Desktop\socket-docker\python>docker attach python_socket_server
[CLIENT] hyy
[YOU] Enter response: hello
|

Command Prompt - docker a

Microsoft Windows [Version 10.0.26100.3476]
(c) Microsoft Corporation. All rights reserved.

C:\Users\aditi raj>cd C:\Users\aditi raj\OneDrive\Pictures\Desktop\socket-docker\python

C:\Users\aditi raj\OneDrive\Pictures\Desktop\socket-docker\python>docker attach python_socket_client
hyy
[SERVER] hello
[YOU] Enter message:

Ln 1, Col 1 Spaces: 4 UTF-8 LF C ENG Gorty IN 12:21 10-04-2025

- Ask Gordon BETA
- Containers
- Images**
- Volumes
- Builds
- Docker Hub
- Docker Scout
- Extensions

Images [Give feedback](#)

View and manage your local and Docker Hub images. [Learn more](#)

Local Docker Hub repositories

1.07 GB / 0 Bytes in use 3 Images

Last refresh: 2 hours ago [Refresh](#)

Search



<input type="checkbox"/>	Name	Tag	Image ID	Created	Size	Actions
<input type="checkbox"/>	python	latest	1f7ef1e8f35b	1 day ago	1.47 GB	Run More Delete
<input type="checkbox"/>	python-server	latest	b51560f3c109	17 minutes ag	1.45 GB	Run More Delete
<input type="checkbox"/>	python-client	latest	97ad58d3fe9c	17 minutes ag	1.45 GB	Run More Delete

Terminal

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\aditi raj> cd OneDrive\Pictures\Desktop\socket-docker\python
PS C:\Users\aditi raj\OneDrive\Pictures\Desktop\socket-docker\python> docker attach python_socket_client
hy
[SERVER] hello
[YOU] Enter message: 
```



- Windo... [X](#)
- Windo... [X](#)
- Windo... [X](#)

```
Microsoft Windows [Version 10.0.26100.3476]
(c) Microsoft Corporation. All rights reserved.

C:\Users\aditi raj>cd C:\Users\aditi raj\OneDrive\Pictures\Desktop\socket-docker\python

C:\Users\aditi raj\OneDrive\Pictures\Desktop\socket-docker\python>docker at
tach python_socket_server
[CLIENT] hyy
[YOU] Enter response: hello
[CLIENT] hyy
[YOU] Enter response: hello
[SERVER] Connection closed.

C:\Users\aditi raj\OneDrive\Pictures\Desktop\socket-docker\python>

0.0s
=> [client] exporting to image
0.1s
=> => exporting layers
0.0s
=> => exporting manifest sha256:edc230c9a0cddba976f9d4c885d3a53
495e7 0.0s
=> => exporting config sha256:c742bf05939e450ad00162b6dc824a8e8
c06d1 0.0s
=> => exporting attestation manifest sha256:01ccba807e660cbe4a9
a96ed 0.0s
=> => exporting manifest list sha256:97334fd967192fb3acd40e4bc3
ele21 0.0s
=> => naming to docker.io/library/python-client:latest
0.0s
=> => unpacking to docker.io/library/python-client:latest
0.0s
=> [client] resolving provenance for metadata file
0.0s
[+] Running 4/4
✓client Built
0.0s
✓server Built
0.0s
✓Container python_socket_client Recreated
11.1s
✓Container python_socket_server Recreated
0.3s
Attaching to python_socket_client, python_socket_server
python_socket_server | [SERVER] Listening on 0.0.0.0:12345...
python_socket_server | [SERVER] Connected to client at ('172.18
.0.3', 42004)
python_socket_client | [CLIENT] Connected to server at server:1
2345
```

Activities terminal Apr 10 14:25

Extract + Docker-main.zip

student@D001-38: ~/Downloads/C Local Code

student@D001-38: ~/Downloads/C Local Code

student@D001-38:~/Downloads/C Local Code\$ gcc server.c -o s
student@D001-38:~/Downloads/C Local Code\$./s
Server is listening on port 8080
Message from client: hi
Enter a message for client: |

student@D001-38:~/Downloads/C Local Code\$ gcc client.c -o c
student@D001-38:~/Downloads/C Local Code\$./c
Enter a message for server: hi

AutoSave Off Working Procedure - Protected View - Saved Search

File Command Prompt - docker-c + -

Microsoft Windows [Version 10.0.26100.3476]
(c) Microsoft Corporation. All rights reserved.

C:\Users\aditi raj>cd C:\Users\aditi raj\OneDrive\Pictures\Desktop\socket-docker c\c

C:\Users\aditi raj\OneDrive\Pictures\Desktop\socket-docker c\c>docker-compose run server
time="2025-04-10T13:13:51+05:30" level=warning msg="C:\\Users\\aditi raj\\OneDrive\\Pictures\\Desktop\\socket-docker c\\c\\docker-compose.yml: the attribute 'version' is obsolete, it will be ignored, please remove it to avoid potential confusion"
[+] Creating 1/1
✓Network c_chatnet Created 0.1s
Server waiting for connection...

3. Start the server (in one terminal):
docker-compose run server
4. Then start the client (in another terminal):
docker-compose run client
5. To Stop All Containers
docker-compose down

Search












View in Desktop View in Focus ENG IN 13:13 10-04-2025

- Ask Gordon BETA
- Containers
- Images
- Volumes
- Builds
- Docker Hub
- Docker Scout
- Extensions

<  C C:\Users\aditi.raj\OneDrive\Pictures\Desktop\socket-docker\c\c

View configurations



 server c-server				server	Server waiting for connection... Server waiting for connection... Client connected!
 server c-server				client	Connected to server!
 client c-client				server	Client: hi
				client	Client: hi

Terminal

```
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSHWindows

PS C:\Users\aditi.raj> cd OneDrive\Pictures\Desktop\socket-docker\python
PS C:\Users\aditi.raj\OneDrive\Pictures\Desktop\socket-docker\python> docker attach python_socket_client
hyh
[SERVER] hello
[YOU] Enter message:
PS C:\Users\aditi.raj\OneDrive\Pictures\Desktop\socket-docker\python>
```

Engine running RAM 0.99 GB CPU 0.13% Disk: 3.22 GB used (limit 1006.85 GB)

Terminal v4.40.0




```
Command Prompt - docker-c
Microsoft Windows [Version 10.0.26100.3476]
(c) Microsoft Corporation. All rights reserved.

C:\Users\aditi raj>cd C:\Users\aditi raj\OneDrive\Pictures\Desktop\socket-docker\python

C:\Users\aditi raj\OneDrive\Pictures\Desktop\socket-docker\python>docker-compose up --build
time="2025-04-10T12:26:12+05:30" level=warning msg="C:\\Users\\aditi raj\\OneDrive\\Pictures\\Desktop\\socket-docker\\python\\docker-compose.yml: the attribute 'version' is obsolete, it will be ignored, please remove it to avoid potential confusion"
Compose can now delegate builds to bake for better performance.
To do so, set COMPOSE_BAKE=true.
[+] Building 3.5s (16/16) FINISHED                                docker:desktop-linux
=> [server internal] load build definition from Dockerfile      0.0s
=> => transferring dockerfile: 116B                             0.0s
=> [client internal] load metadata for docker.io/library/python:3.10 2.6s
=> [server auth] library/python:pull token for registry-1.docker.io 0.0s
=> [server internal] load .dockerignore                          0.0s
=> => transferring context: 2B                                    0.0s
=> [client 1/3] FROM docker.io/library/python:3.10@sha256:e2c7fb0574 0.1s
=> => resolve docker.io/library/python:3.10@sha256:e2c7fb05741c73567 0.0s
=> [server internal] load build context                          0.0s
=> => transferring context: 31B                                    0.0s
=> CACHED [client 2/3] WORKDIR /app                             0.0s
=> CACHED [server 3/3] COPY server.py .                          0.0s
=> [server] exporting to image                                  0.1s
=> => exporting layers                                           0.0s
=> => exporting manifest sha256:a32482c85f030b21e6b6c3215f159a1658db 0.0s
=> => exporting config sha256:9c69088db1c7e052f9f92da85c3ecd192ecfc1 0.0s
=> => exporting attestation manifest sha256:b3e47907beb52afb7642428b 0.0s
=> => exporting manifest list sha256:85345b8f3063feaea2bc33ebb7cb5e7 0.0s
=> => naming to docker.io/library/python-server:latest          0.0s
=> => unpacking to docker.io/library/python-server:latest       0.0s
=> [server] resolving provenance for metadata file              0.0s
=> [client internal] load build definition from Dockerfile      0.0s
=> => transferring dockerfile: 116B                             0.0s
=> [client internal] load .dockerignore                          0.0s
=> => transferring context: 2B                                    0.0s
=> [client internal] load build context                          0.0s
=> => transferring context: 31B                                    0.0s
=> CACHED [client 3/3] COPY client.py .                          0.0s
=> [client] exporting to image                                  0.1s
=> => exporting layers                                           0.0s
```



```
Command Prompt
=> => extracting sha256:ea589c0b318a435eaaa443207f64cbb47ec482575de53c1b3ad00642ab59c4b4 0.0s
=> [server internal] load build context 0.1s
=> => transferring context: 2.93kB 0.0s
=> CACHED [client 2/6] WORKDIR /app 0.6s
=> [server 3/6] COPY server.c . 0.2s
=> [server 4/6] COPY client.c . 0.1s
=> [server 5/6] RUN gcc -o server server.c 0.8s
=> [server 6/6] RUN gcc -o client client.c 0.5s
=> [server] exporting to image 0.9s
=> => exporting layers 0.5s
=> => exporting manifest sha256:e6545af4c26c2ef9db3377ebb46757c5f5d531420391c9b8c56848af6868dba3 0.0s
=> => exporting config sha256:85489770ae653479a341031dfe3f57a16e2d07e48e965c3e8228e213f68c9614 0.0s
=> => exporting attestation manifest sha256:a2688ce86b57a3e86c41714fb90b407aa44db8b575b288337766bb163442e99e 0.1s
=> => exporting manifest list sha256:3099b7db898f8d3cbabf46eb47fe7340c0f84b08df68e2f22da89cbe3237fb02 0.0s
=> => naming to docker.io/library/c-server:latest 0.0s
=> => unpacking to docker.io/library/c-server:latest 0.2s
=> [server] resolving provenance for metadata file 0.0s
=> [client internal] load build definition from Dockerfile 0.1s
=> => transferring dockerfile: 291B 0.0s
=> [client internal] load .dockerignore 0.1s
=> => transferring context: 2B 0.0s
=> [client internal] load build context 0.1s
=> => 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 0.7s
=> => exporting layers 0.0s
=> => exporting manifest sha256:81095f01cc756e41d862fd9158d59ed4935785ee4b6e3c81d55cee080094fba3 0.1s
=> => exporting config sha256:3803e583024cd3a4ba17dd74ab465f1119813cbe3d2390941b534841554b99a1 0.1s
=> => exporting attestation manifest sha256:f55cfb0db9db36c86bb5d8c4730bc49d33bb03b433dda1cb0fa87b5da5c9a901 0.2s
=> => exporting manifest list sha256:3ee2d2bf5cdb9d24413e1ef74ff204c670f39b384798d1d024e5e9f05388645a 0.1s
=> => naming to docker.io/library/c-client:latest 0.0s
=> => unpacking to docker.io/library/c-client:latest 0.0s
=> [client] resolving provenance for metadata file 0.0s
[+] Building 2/2
✓client Built 0.0s
✓server Built 0.0s
C:\Users\aditi raj\OneDrive\Pictures\Desktop\socket-docker c\c>
```

