# NAME-CHINMAYEE RANA REGD NO.-2141018149

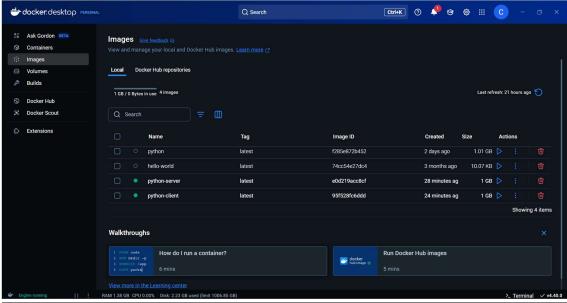
## **PYTHON-DOCKER**

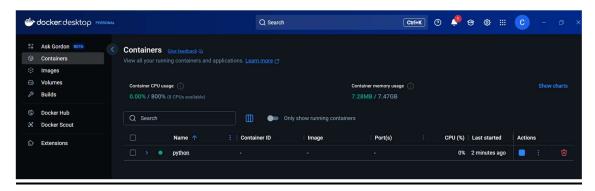
```
Windows PowerShell
Corporght (C Microsoft Corporation. All rights reserved.

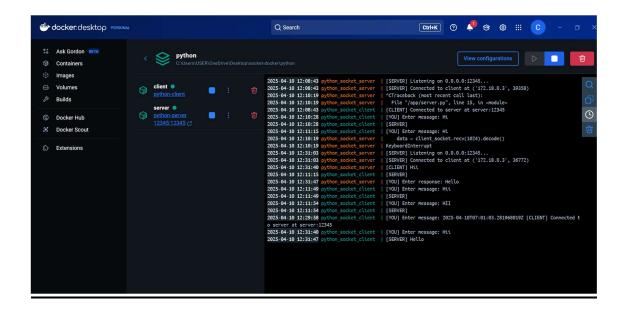
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\USER> docker attach python_socket_server
[CLIEN] Hii
[TOU] Enter response: Hello
```



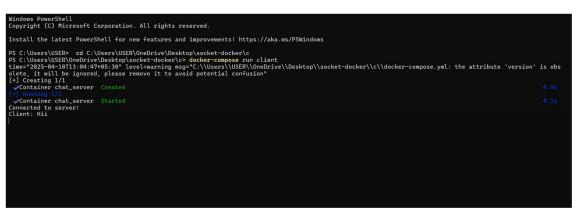


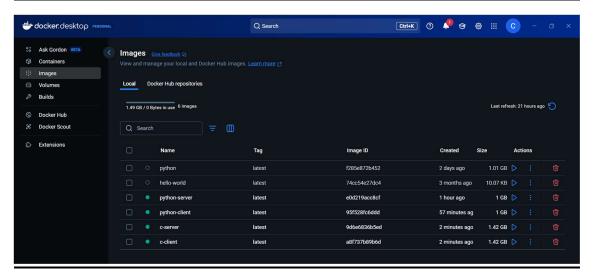


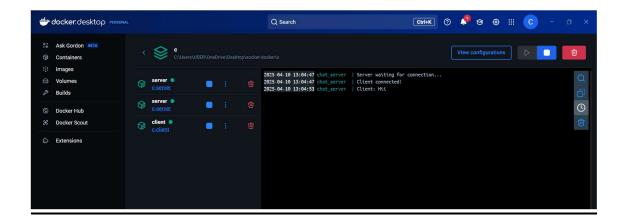


#### **C-DOCKER**

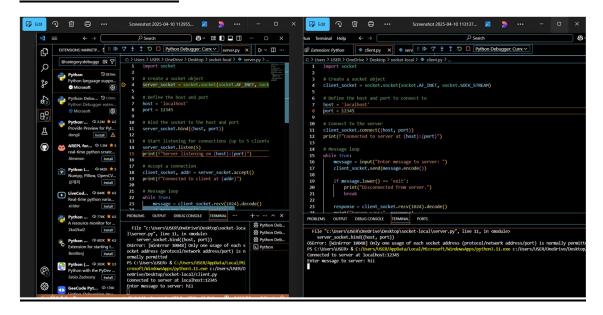
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failed to solve: gcc:latest: failed to resolve source metadata for docier.io/library/gcc:latest: failed to do request: Mead "https://registry-l.docker.io/v2/library/gcc/manifests/latest": net/http: TL5 handsh
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### **PYTHON-LOCAL**



#### C-LOCAL

```
server.c
#include <stdio.h>
#include <string.h>
#include <stdlib.h>
#include <unistd.h>
#include <arpa/inet.h>
#define PORT 8080
#define BUFFER_SIZE 1024
int main() {
     int server_fd, new_socket;
     struct sockaddr_in address;
int addrlen = sizeof(address);
     char buffer[BUFFER_SIZE] = {0};
     char message[BUFFER_SIZE];
     // Creating socket file descriptor
if ((server_fd = socket(AF_INET, SOCK_STREAM, 0)) == 0) {
    perror("Socket failed");
    exit(EXIT_FAILURE);
     address.sin_family = AF_INET;
address.sin_addr.s_addr = INADDR_ANY;
     address.sin_port = htons(PORT);
     // Binding the socket to the specified port
if (bind(server_fd, (struct sockaddr *)&address, sizeof(address)) < 0) {
    perror("Bind failed");</pre>
           close(server_fd);
           exit(EXIT_FAILURE);
     // Listening for incoming connections
if (listen(server_fd, 3) < 0) {</pre>
           perror("Listen failed");
           exit(EXIT FAILURE);
     printf("Server is listening on port %d\n", PORT);
      tr ((new_socket = accept(server_fd, (struct sockaddr *)&address,
```

```
clients
finclude <string.h>
finclude <string.h>
finclude <string.h>
finclude <arpa/inet.h>

finclude <arpa/inet.h</a>

finclude <arpa/inet.hotal.h</a>

finclude <arpa/inet.hotal.hotal.hotal.hotal.hotal.hotal.hotal.hotal.hotal.hotal.hotal.hotal.hotal.hotal.hotal.hotal.hotal.hotal.hotal.hotal.hotal.hotal.
```

// Reading message from server
memset(buffer, 0, BUFFER\_SIZE);

```
chinnayee@Chinnayee:-/socket-local/c

chinnayee@Chinnayee:-> mkdir socket-local
mkdir: cannot create directory 'socket-local': File exists
chinnayee@Chinnayee:-/socket-local': File exists
chinnayee@Chinnayee:-/socket-local'. S cd c
chinnayee@Chinnayee:-/socket-local'. S gedt server.c
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