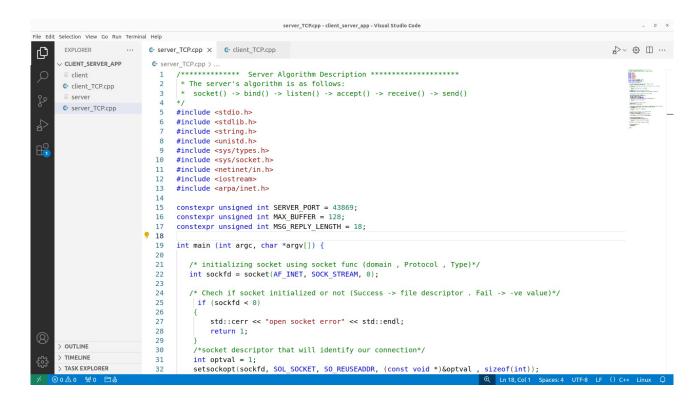
Client-Server Application

Server Test cases:

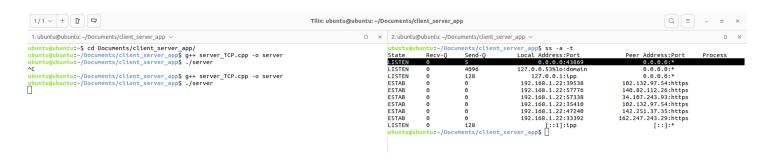
1- Verify that the server starts correctly and begins listening on the specified port

Steps:

1. Configure the server with a specific port number.(43869)



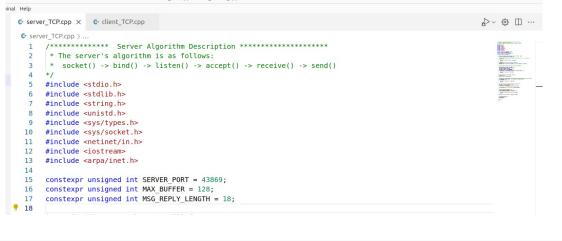
- 2. Start the server.
- 3. Check if the server is listening on the specified port (ss -a -t)

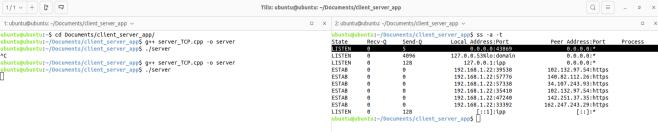


2- Ensure that the server correctly listens on different specified ports.

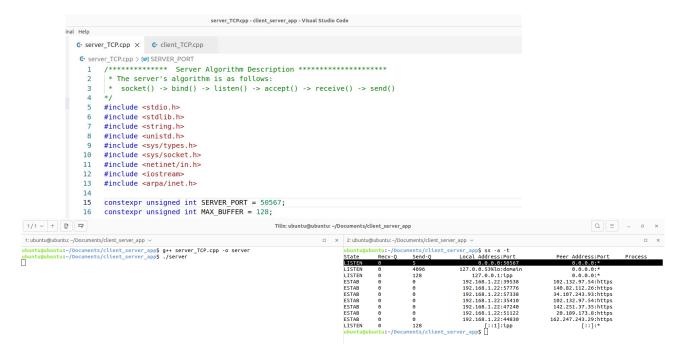
Steps:

- 1. Start the server with port (43869).
- 2. Verify the server is listening on port (43869).



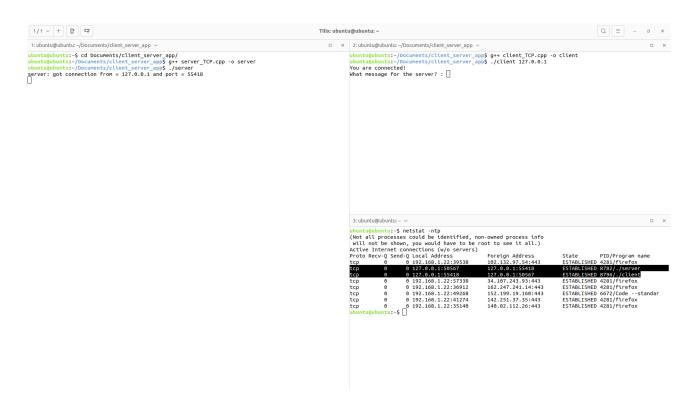


- 3. Stop the server and restart it with port (50567)
- 4. Verify the server is listening on port (50567)



3- Confirm that the server accepts incoming connections. Steps:

- 1.Start the server.
- 2. Use a client to attempt a connection to the server.
- 3. Check the server logs or use a monitoring tool to verify the connection was accepted. (netstat -ntp)

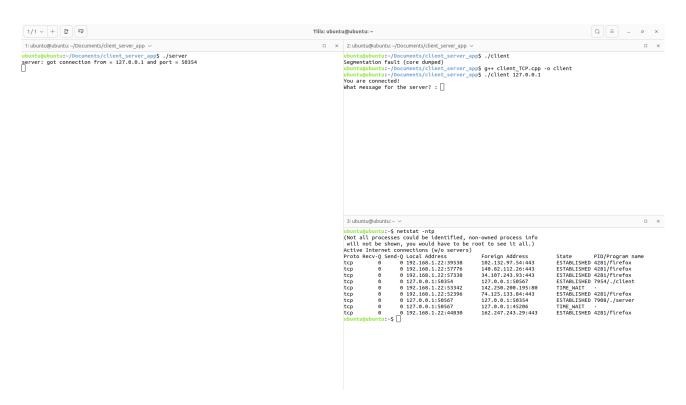


Client Test cases:

1- Ensure the client starts correctly and attempts to connect to the server.

Steps:

- 1.Start the client with a valid server IP and port number.
- 2. Check if the client sends a connection request to the server. (netstat -ntp)



- 2- Ensure the client correctly handles cases where the server is unavailable or refuses the connection.
- **Steps:**
- 1. Start the client with a server IP and port where no server is running.
- 2. Observe how the client reacts to the failed connection attempt.



Running State of Application:

