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The image shows two screenshots of Windows PowerShell windows. The left window is running 'python server.py' and shows a chat server interface. It has a title bar 'Windows PowerShell' and a menu bar with 'File', 'Edit', 'View', 'Help'. The output shows the server is online at [127.0.0.1] and is receiving messages from Tony and Ezequiel. The right window is running 'python client.py' and shows a chat client interface. It has a title bar 'Windows PowerShell' and a menu bar with 'File', 'Edit', 'View', 'Help'. The output shows the client is connected to the server and is sending messages to the server. The client's name is Tony. The server's name is Ezequiel. The client is sending messages to the server and the server is responding to the client.

Two test cases in one Wireshark Capture file:

Test01) Server was not running.

1. Server, Running.
2. Clients, sending requests and getting the acknowledgments one by one.
3. After getting the name of the clients, Connection between them stabilshes.
4. After connection establishment finishes, the conversation between the clients is open.
5. The messages go from the clients to the server, the server sending the message to all the other clients except for the one sending the message.
6. After the conversation is over, the clients disconnect by typing “dive”

Server: 127.40.63.1 Port: 4063    Tony: 127.40.63.1 Port: 51403    Ezequiel: 127.40.63.1 Port: 51404

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Test02) The server was running from the last test case. The same loop went on for the second test case.

Server: 127.40.63.1 Port: 4063    a: 127.40.63.1 Port: 51416    b: 127.40.63.1 Port: 51415