# How To Test Group 29 Chat

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## A. Setting up

- 1. Make sure you follow the commands on README
- 2. You should start 2 terminal, one for backend, one for frontend

This will be the expectation (Server listening on...)

```
Terminal Local × Local(2) × + ∨

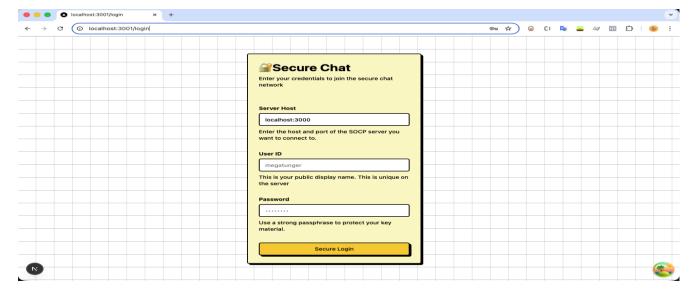
XPTx7r0do69IRNMd9cCSyjV0kfL7s4bu0hizq@ca3DElqV0TIJpdbHsu142QsKl02wIo33UfqwUEBJnunX
9_9KHFIzEromU7Uu0_lqo9f5f3jqK0ztjEhr61U6JZyxzU2kywTEwibVrIJYE6H573kiHW6Ji4V2@d-0Q5
Sa6Zx4V5fAbcz5To_g37J2Yyj9MX7d1SYHwZIpQ7a9epDgspByJh0pwTRo7maH-F9_b2DdJyF3l3qEhl
ZmPjpQRZDrocaIS90Dahq@4be4UPt6f0vEZFcBn8p0Cewu_HbsEHA6qLPjAXQbblmWM7JVUKSZUP_HZUxi
uQCacyJECAwEAA"
}

[21:49:17.903] INF0 (63440): Server listening at http://127.0.0.1:3000
[21:49:17.904] INF0 (63440): Server listening at http://[::1]:3000
[21:49:17.910] INF0 (63440): Listening on ws://localhost:3002/chat
[21:49:17.913] ERROR (63440): WebSocket error while connecting to localhost:3002
err: {

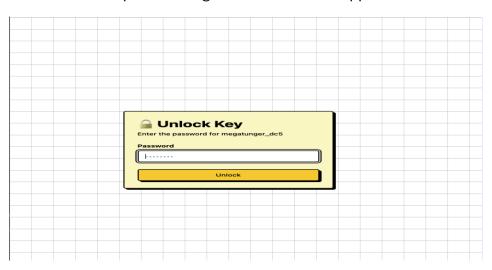
"type": "AggregateError",
"message": "",
"stack":

Q in 44 mins Coding, 21mins Withing Docs (2) & up-to-date Blamer Hoang 1/10/25, 01:56 19:3 (37 chars) ≥ LF_UTF-8 (24 spaces % main_rd) C
```

3. On the browser, open the link localhost:3001. Enter user ID, password. Keep the server host is 3000 as it is, because we gonna test same server first

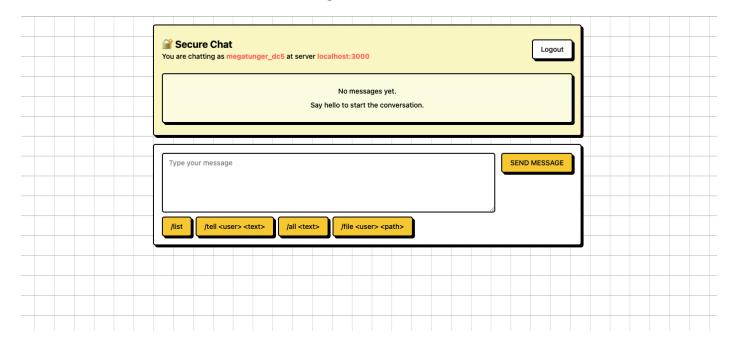


4. Enter the password again to start use the app



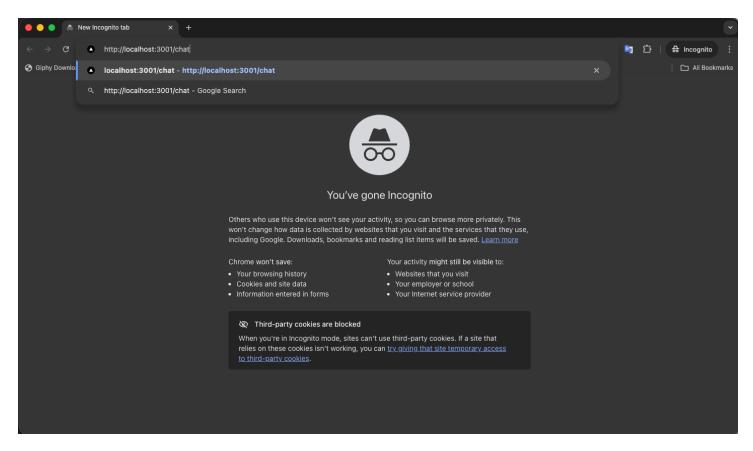
### 5. UI the app

You can click on the commands to start using

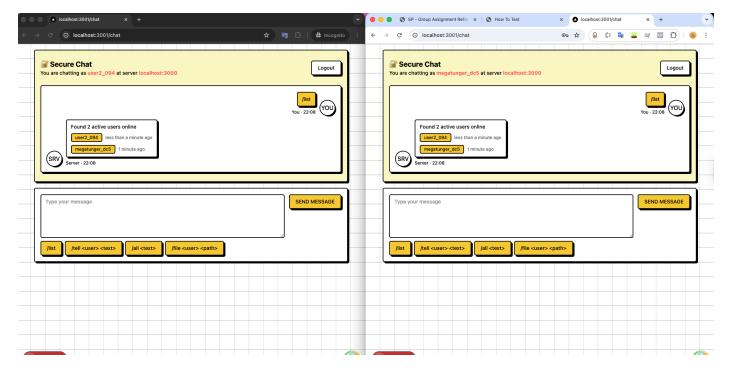


### B. Test send direct messages between users on the same server

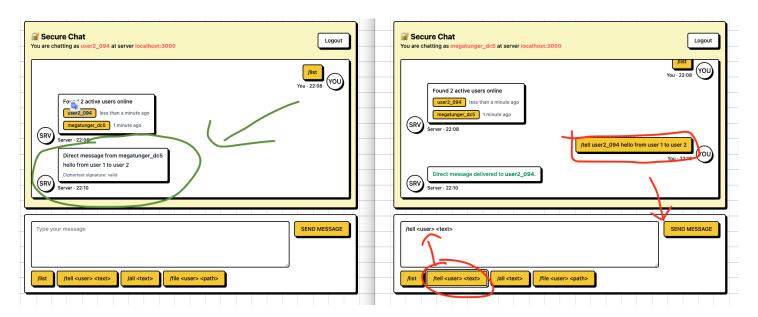
1. Keep the above window, open a new incognito tab and open the frontend again. You should use different browser or using incognito mode because user credentials (private key, password is stored in local storage), so you won't messed up with the session



- 2. Follow the same login steps above
- 3. After that, you will have 2 different users connect to same server. You can type /list to see 2 users is online



4. Let's try to send a message from 1 person to another

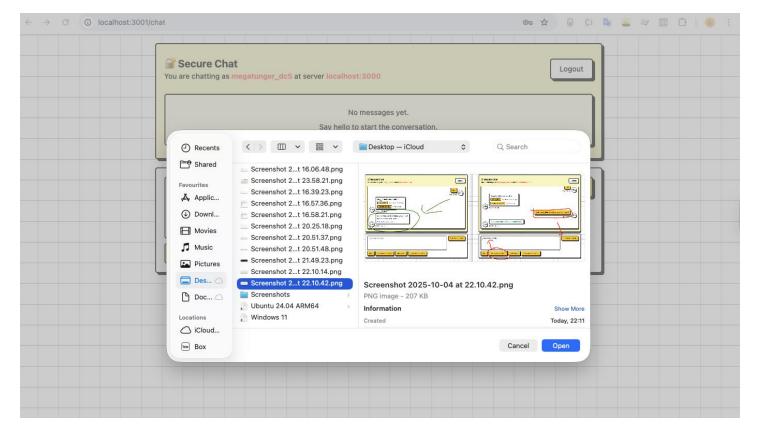


To send message, press on /tell to quickly fill in text box. Then grab the username you want to send to and the message, separated by a SPACE.

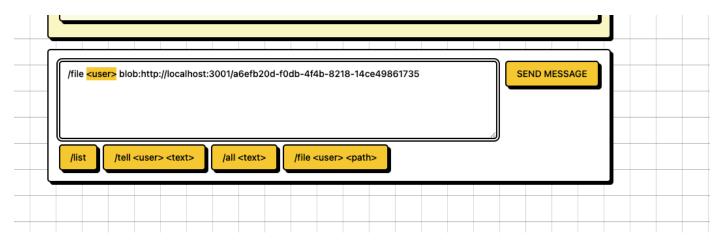
You should expect to receive the message, as the green annotation

## C. Sending a file

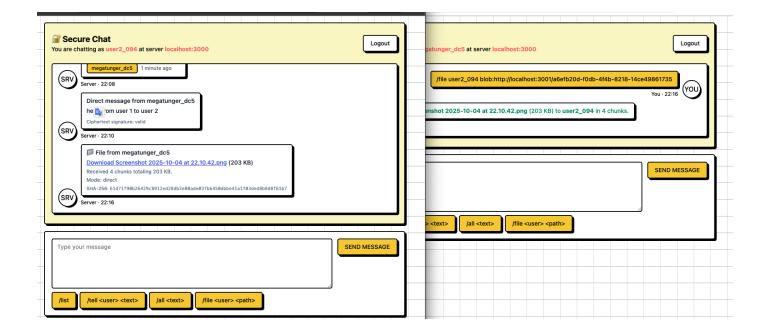
1. Press on /file button, you should be prompted to select a file



2. Change the recipient only, DO NOT CHANGE blob url!



3. User B should receive as below



#### D. Public Channel messaging

### Using the command /all

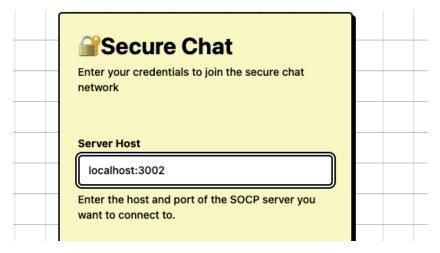


The public channel feature is limited implement to the protocol. It may miss some advanced part on upgrade channel keys, put acceptable secure.

### E. Server-Server Tests

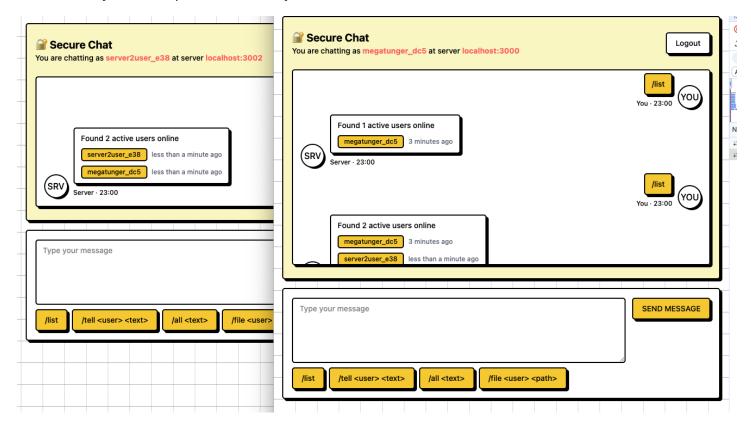
Due to bugs, the server-server is expected to run on 2 features: List down the users on both server and sending a direct message of users that on different servers. This interopability was tested by running another instance of our code

- 1. To start 2<sup>nd</sup> server, you should **duplicate** the code folder, make sure
- Clear database (yarn prisma migrate reset) on 2<sup>nd</sup> folder
- Generate new private key (yarn generate:key). Grab the public key
- Replace the public key in bootstrap.yaml, below port:3002 on both folder (the 2<sup>nd</sup> server expect to run at localhost:3002)
- Restart the server 1, then start the server 2 (yarn dev:server2)
- 2. You can reuse the opened browser window, but changing server host need to logout.

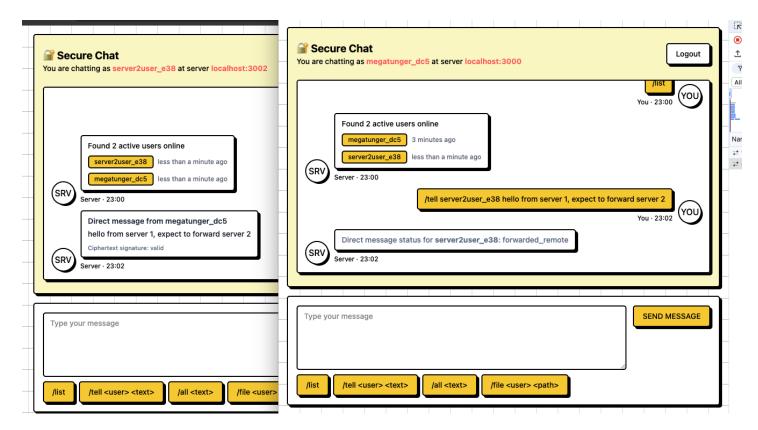


Make sure you put localhost:3002

3. Then you can expect, when /list you should see users from both server.



This is a known bug: you may need to /list 2 times to see correct users list



And you can send message from one server to another server