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Tugas 5

1. Menyambungkan Client ke server
 - a. Client berhasil terkoneksi ke dalam server

```
/Pemrograman_Jaringan_E/progjar4c/tugas5 # python3 server_thread_chat.py
WARNING:root:connection from ('192.168.122.157', 48044)
WARNING:root:connection from ('192.168.122.133', 51672)
█
```

2. Autentikasi
 - a. Mencoba login dengan akun yang tidak ada, akun dengan password yang salah, dan akun dengan password yang benar

```
/Pemrograman_Jaringan_E/progjar4c/tugas5 # python3 chat-cli.py
Command :auth michaelrick test
diterima dari server b'{"status": "ERROR", "message": "User Tidak Ada"}\r\n\r\n'
end of string
Error, User Tidak Ada
Command :auth hendersono surabaya
diterima dari server b'{"status": "ERROR", "message": "User Tidak Ada"}\r\n\r\n'
end of string
Error, User Tidak Ada
Command :auth henderson sby
diterima dari server b'{"status": "ERROR", "message": "Password Salah"}\r\n\r\n'
end of string
Error, Password Salah
Command :auth henderson surabaya
diterima dari server b'{"status": "OK", "tokenid": "d5d0814d-b715-4a19-9796-e5d9243f38a0"}\r\n\r\n'
diterima dari server b'0'\r\n\r\n'
end of string
username henderson logged in, token d5d0814d-b715-4a19-9796-e5d9243f38a0
Command d5d0814d-b715-4a19-9796-e5d9243f38a0:█
```

- b. Server logs

```

WARNING:root:data dari client: auth mess surabaya
WARNING:root:AUTH: auth mess surabaya
WARNING:root:balas ke client: {"status": "ERROR", "message": "User Tidak Ada"}

WARNING:root:data dari client: auth messi sby
WARNING:root:AUTH: auth messi sby
WARNING:root:balas ke client: {"status": "ERROR", "message": "Password Salah"}

WARNING:root:data dari client: auth messi surabaya
WARNING:root:AUTH: auth messi surabaya
WARNING:root:balas ke client: {"status": "OK", "tokenid": "e74a945c-55c0-4bea-be37-d714718a3742"}

WARNING:root:data dari client: auth michaelrick test
WARNING:root:AUTH: auth michaelrick test
WARNING:root:balas ke client: {"status": "ERROR", "message": "User Tidak Ada"}

WARNING:root:data dari client: auth henderso surabaya
WARNING:root:AUTH: auth henderso surabaya
WARNING:root:balas ke client: {"status": "ERROR", "message": "User Tidak Ada"}

WARNING:root:data dari client: auth henderson sby
WARNING:root:AUTH: auth henderson sby
WARNING:root:balas ke client: {"status": "ERROR", "message": "Password Salah"}

WARNING:root:data dari client: auth henderson surabaya
WARNING:root:AUTH: auth henderson surabaya
WARNING:root:balas ke client: {"status": "OK", "tokenid": "d5d0814d-b715-4a19-9796-e5d9243f38a0"}

```

3. Berkirim pesan antar user

a. Messi mengirim pesan ke henderson "Test 123"

```

Command e74a945c-55c0-4bea-be37-d714718a3742:send henderson Test 123
send e74a945c-55c0-4bea-be37-d714718a3742 henderson Test 123

diterima dari server b'{"status": "OK", "message": "Message Sent"}\r\n\r\n'
end of string
message sent to henderson

```

b. Henderson menggunakan "inbox" untuk mengecek pesan masuk

```

Command d5d0814d-b715-4a19-9796-e5d9243f38a0:inbox
diterima dari server b'{"status": "OK", "messages": {"messi": [{"msg_from": "Lionel Mes'
diterima dari server b'si", "msg_to": "Jordan Henderson", "msg": " Test 123 \r\n"}]}\r'
diterima dari server b'\n\r\n'
end of string
{"messi": [{"msg_from": "Lionel Messi", "msg_to": "Jordan Henderson", "msg": " Test 123 \r\n"}]}

```

c. Henderson mengirim pesan ke messi "Masuk gan"

```

Command d5d0814d-b715-4a19-9796-e5d9243f38a0:send messi Masuk gan
send d5d0814d-b715-4a19-9796-e5d9243f38a0 messi Masuk gan

diterima dari server b'{"status": "OK", "message": "Message Sent"}\r\n\r\n'
end of string
message sent to messi
Command d5d0814d-b715-4a19-9796-e5d9243f38a0:

```

d. Messi menggunakan "inbox" untuk mengecek pesan masuk

```

Command e74a945c-55c0-4bea-be37-d714718a3742:inbox
diterima dari server b'{"status": "OK", "messages": {"henderson": [{"msg_from": "Jordan'
diterima dari server b' Henderson", "msg_to": "Lionel Messi", "msg": "  Masuk gan \\r\\n"
diterima dari server b'}}}\\r\\n\\r\\n'
end of string
{"henderson": [{"msg_from": "Jordan Henderson", "msg_to": "Lionel Messi", "msg": "  Masuk gan \\r\\n"
}}}
Command e74a945c-55c0-4bea-be37-d714718a3742:

```

e. Server logs

```

WARNING:root:data dari client: send e74a945c-55c0-4bea-be37-d714718a3742 henderson Test 123
WARNING:root:SEND: session e74a945c-55c0-4bea-be37-d714718a3742 send message from messi to henderson
WARNING:root:balas ke client: {"status": "OK", "message": "Message Sent"}

WARNING:root:data dari client: inbox d5d0814d-b715-4a19-9796-e5d9243f38a0
WARNING:root:INBOX: d5d0814d-b715-4a19-9796-e5d9243f38a0
WARNING:root:balas ke client: {"status": "OK", "messages": {"messi": [{"msg_from": "Lionel Messi", "ms
g_to": "Jordan Henderson", "msg": "  Test 123 \\r\\n"}]}}

WARNING:root:data dari client: send d5d0814d-b715-4a19-9796-e5d9243f38a0 messi Masuk gan
WARNING:root:SEND: session d5d0814d-b715-4a19-9796-e5d9243f38a0 send message from henderson to messi
WARNING:root:balas ke client: {"status": "OK", "message": "Message Sent"}

WARNING:root:data dari client: inbox e74a945c-55c0-4bea-be37-d714718a3742
WARNING:root:INBOX: e74a945c-55c0-4bea-be37-d714718a3742
WARNING:root:balas ke client: {"status": "OK", "messages": {"henderson": [{"msg_from": "Jordan Henders
on", "msg_to": "Lionel Messi", "msg": "  Masuk gan \\r\\n"}]}}

```