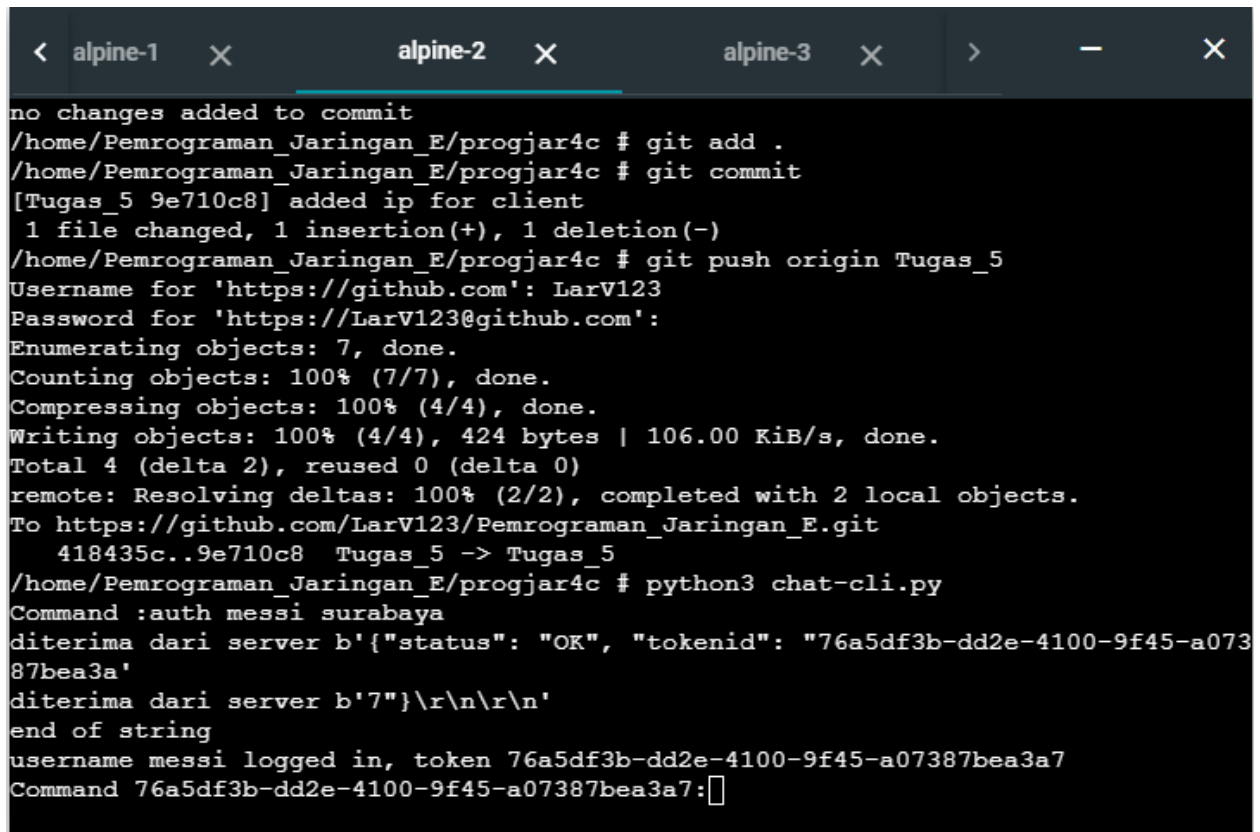


Tugas 5 : Interaksi Chat

Autentikasi user

Client

Client (alpine 2) melakukan autentikasi ke server dengan akun messi dan password surabaya



```
< alpine-1 x alpine-2 x alpine-3 x > - x
no changes added to commit
/home/Pemrograman_Jaringan_E/progjar4c # git add .
/home/Pemrograman_Jaringan_E/progjar4c # git commit
[Tugas_5 9e710c8] added ip for client
1 file changed, 1 insertion(+), 1 deletion(-)
/home/Pemrograman_Jaringan_E/progjar4c # git push origin Tugas_5
Username for 'https://github.com': LarV123
Password for 'https://LarV123@github.com':
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 424 bytes | 106.00 KiB/s, done.
Total 4 (delta 2), reused 0 (delta 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/LarV123/Pemrograman_Jaringan_E.git
418435c..9e710c8 Tugas_5 -> Tugas_5
/home/Pemrograman_Jaringan_E/progjar4c # python3 chat-cli.py
Command :auth messi surabaya
diterima dari server b'{"status": "OK", "tokenid": "76a5df3b-dd2e-4100-9f45-a07387bea3a7"}\r\n\r\n'
end of string
username messi logged in, token 76a5df3b-dd2e-4100-9f45-a07387bea3a7
Command 76a5df3b-dd2e-4100-9f45-a07387bea3a7:
```

Client (alpine 3) melakukan autentikasi ke server dengan akun lineker dan password surabaya

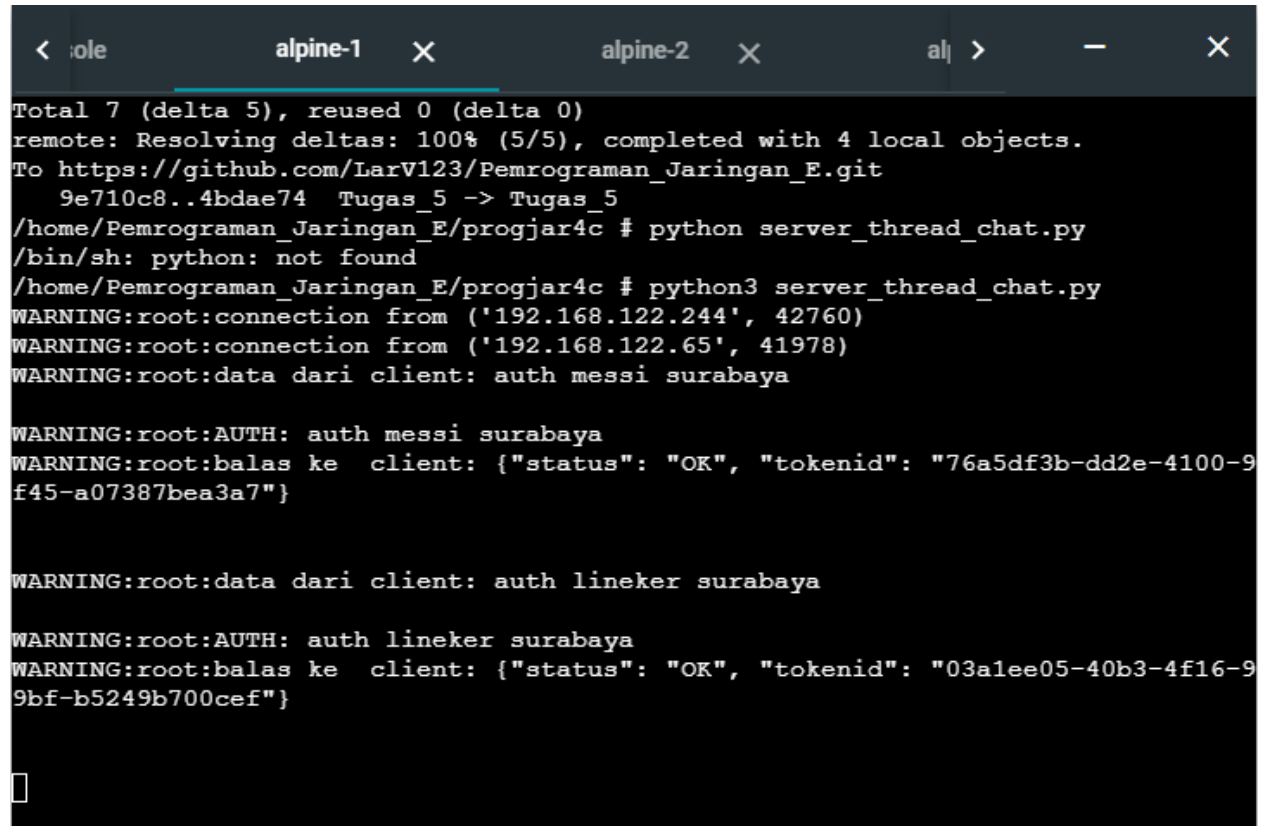
Geizka Wahyu Fahriza
05111840000062
Pemrograman Jaringan E

```
< alpine-1 x alpine-2 x alpine-3 x > - x
remote: Compressing objects: 100% (2/2), done.
remote: Total 4 (delta 2), reused 4 (delta 2), pack-reused 0
Unpacking objects: 100% (4/4), done.
From https://github.com/LarV123/Pemrograman_Jaringan_E
* [new branch] Tugas_5 -> origin/Tugas_5
Already up to date.
/home/Pemrograman_Jaringan_E # git checkout Tugas_5
Branch 'Tugas_5' set up to track remote branch 'Tugas_5' from 'origin'.
Switched to a new branch 'Tugas_5'
/home/Pemrograman_Jaringan_E # git pull origin Tugas_5
From https://github.com/LarV123/Pemrograman_Jaringan_E
* branch Tugas_5 -> FETCH_HEAD
Already up to date.
/home/Pemrograman_Jaringan_E # cd progjar4c
/home/Pemrograman_Jaringan_E/progjar4c # python chat-cli.py
/bin/sh: python: not found
/home/Pemrograman_Jaringan_E/progjar4c # python3 chat-cli.py
Command :auth lineker surabaya
diterima dari server b'{"status": "OK", "tokenid": "03a1ee05-40b3-4f16-99bf-b5249b700ce"'
diterima dari server b'f"}\r\n\r\n'
end of string
username lineker logged in, token 03a1ee05-40b3-4f16-99bf-b5249b700cef
Command 03a1ee05-40b3-4f16-99bf-b5249b700cef:[]
```

Server

Server menerima command autentikasi dari alpine 1 dan 2, lalu memberikan session token id

Geizka Wahyu Fahriza
05111840000062
Pemrograman Jaringan E

A terminal window with a dark background and light-colored text. The window has three tabs at the top: 'ole', 'alpine-1', and 'alpine-2'. The 'alpine-1' tab is active. The terminal output shows a successful git pull operation, followed by an attempt to run 'python server_thread_chat.py' which fails with 'python: not found'. Then, 'python3 server_thread_chat.py' is run, resulting in several warning messages about connections and authentication for 'messi surabaya' and 'lineker surabaya'. The output for 'messi surabaya' includes a status of 'OK' and a tokenid. The output for 'lineker surabaya' also includes a status of 'OK' and a tokenid. The terminal ends with a cursor on a new line.

```
< ole alpine-1 X alpine-2 X alj > - X
Total 7 (delta 5), reused 0 (delta 0)
remote: Resolving deltas: 100% (5/5), completed with 4 local objects.
To https://github.com/LarV123/Pemrograman_Jaringan_E.git
 9e710c8..4bdae74 Tugas_5 -> Tugas_5
/home/Pemrograman_Jaringan_E/progjar4c # python server_thread_chat.py
/bin/sh: python: not found
/home/Pemrograman_Jaringan_E/progjar4c # python3 server_thread_chat.py
WARNING:root:connection from ('192.168.122.244', 42760)
WARNING:root:connection from ('192.168.122.65', 41978)
WARNING:root:data dari client: auth messi surabaya

WARNING:root:AUTH: auth messi surabaya
WARNING:root:balas ke client: {"status": "OK", "tokenid": "76a5df3b-dd2e-4100-9f45-a07387bea3a7"}

WARNING:root:data dari client: auth lineker surabaya

WARNING:root:AUTH: auth lineker surabaya
WARNING:root:balas ke client: {"status": "OK", "tokenid": "03a1ee05-40b3-4f16-99bf-b5249b700cef"}

█
```

Mengirim pesan

Client

Client (alpine 2 / messi) mengirim pesan ke lineker / alpine 3

Geizka Wahyu Fahriza
05111840000062
Pemrograman Jaringan E

```
< role      alpine-1  X      alpine-2  X      alj  >      -      X
Username for 'https://github.com': LarV123
Password for 'https://LarV123@github.com':
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 424 bytes | 106.00 KiB/s, done.
Total 4 (delta 2), reused 0 (delta 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/LarV123/Pemrograman_Jaringan_E.git
    418435c..9e710c8  Tugas_5 -> Tugas_5
/home/Pemrograman_Jaringan_E/progjar4c # python3 chat-cli.py
Command :auth messi surabaya
diterima dari server b'{"status": "OK", "tokenid": "76a5df3b-dd2e-4100-9f45-a07387bea3a7"}\r\n\r\n'
end of string
username messi logged in, token 76a5df3b-dd2e-4100-9f45-a07387bea3a7
Command 76a5df3b-dd2e-4100-9f45-a07387bea3a7:send lineker haloo lineker
send 76a5df3b-dd2e-4100-9f45-a07387bea3a7 lineker  haloo lineker

diterima dari server b'{"status": "OK", "message": "Message Sent"}\r\n\r\n'
end of string
message sent to lineker
Command 76a5df3b-dd2e-4100-9f45-a07387bea3a7:
```

Server

Server (alpine 1) saat menerima pesan dari client (alpine / messi)

Geizka Wahyu Fahriza
05111840000062
Pemrograman Jaringan E

```
< role      alpine-1  X      alpine-2  X      alpine-3  X  >  -  X
WARNING:root:connection from ('192.168.122.65', 41978)
WARNING:root:data dari client: auth messi surabaya

WARNING:root:AUTH: auth messi surabaya
WARNING:root:balas ke client: {"status": "OK", "tokenid": "76a5df3b-dd2e-4100-9f45-a07387bea3a7"}

WARNING:root:data dari client: auth lineker surabaya

WARNING:root:AUTH: auth lineker surabaya
WARNING:root:balas ke client: {"status": "OK", "tokenid": "03a1ee05-40b3-4f16-99bf-b5249b700cef"}

WARNING:root:data dari client: send 76a5df3b-dd2e-4100-9f45-a07387bea3a7 lineker
haloo lineker

WARNING:root:SEND: session 76a5df3b-dd2e-4100-9f45-a07387bea3a7 send message from messi to lineker
WARNING:root:balas ke client: {"status": "OK", "message": "Message Sent"}
```

Membaca pesan

Client

Client (alpine 3 / lineker) mengecek inbox dimana akan berisi pesan dari messi

Geizka Wahyu Fahriza
05111840000062
Pemrograman Jaringan E

```
< alpine-1 x alpine-2 x alpine-3 x > - x
/home/Pemrograman_Jaringan_E # git pull origin Tugas_5
From https://github.com/LarV123/Pemrograman_Jaringan_E
* branch      Tugas_5      -> FETCH_HEAD
Already up to date.
/home/Pemrograman_Jaringan_E # cd progjar4c
/home/Pemrograman_Jaringan_E/progjar4c # python chat-cli.py
/bin/sh: python: not found
/home/Pemrograman_Jaringan_E/progjar4c # python3 chat-cli.py
Command :auth lineker surabaya
diterima dari server b'{"status": "OK", "tokenid": "03alee05-40b3-4f16-99bf-b5249b700ce"
end of string
username lineker logged in, token 03alee05-40b3-4f16-99bf-b5249b700cef
Command 03alee05-40b3-4f16-99bf-b5249b700cef:inbox
diterima dari server b'{"status": "OK", "messages": {"messi": [{"msg_from": "Lio
nel Mes'
diterima dari server b'si", "msg_to": "Gary Lineker", "msg": "  haloo lineker \\\
r\\n"}]]}'
diterima dari server b'\\r\\n\\r\\n'
end of string
{"messi": [{"msg_from": "Lionel Messi", "msg_to": "Gary Lineker", "msg": "  halo
o lineker \\r\\n"}]}
Command 03alee05-40b3-4f16-99bf-b5249b700cef:█
```

Server

Server menerima command inbox dari alpine 3 / lineker

Geizka Wahyu Fahriza
05111840000062
Pemrograman Jaringan E

```
< role alpine-1 X alpine-2 X alpine-3 X
WARNING:root:data dari client: auth lineker surabaya
WARNING:root:AUTH: auth lineker surabaya
WARNING:root:balas ke client: {"status": "OK", "tokenid": "03a1ee05-40b3-4f16-99bf-b5249b700cef"}
WARNING:root:data dari client: send 76a5df3b-dd2e-4100-9f45-a07387bea3a7 lineker haloo lineker
WARNING:root:SEND: session 76a5df3b-dd2e-4100-9f45-a07387bea3a7 send message from messi to lineker
WARNING:root:balas ke client: {"status": "OK", "message": "Message Sent"}
WARNING:root:data dari client: inbox 03a1ee05-40b3-4f16-99bf-b5249b700cef
WARNING:root:INBOX: 03a1ee05-40b3-4f16-99bf-b5249b700cef
WARNING:root:balas ke client: {"status": "OK", "messages": {"messi": [{"msg_from": "Lionel Messi", "msg_to": "Gary Lineker", "msg": " haloo lineker \r\n"}]}}
```