

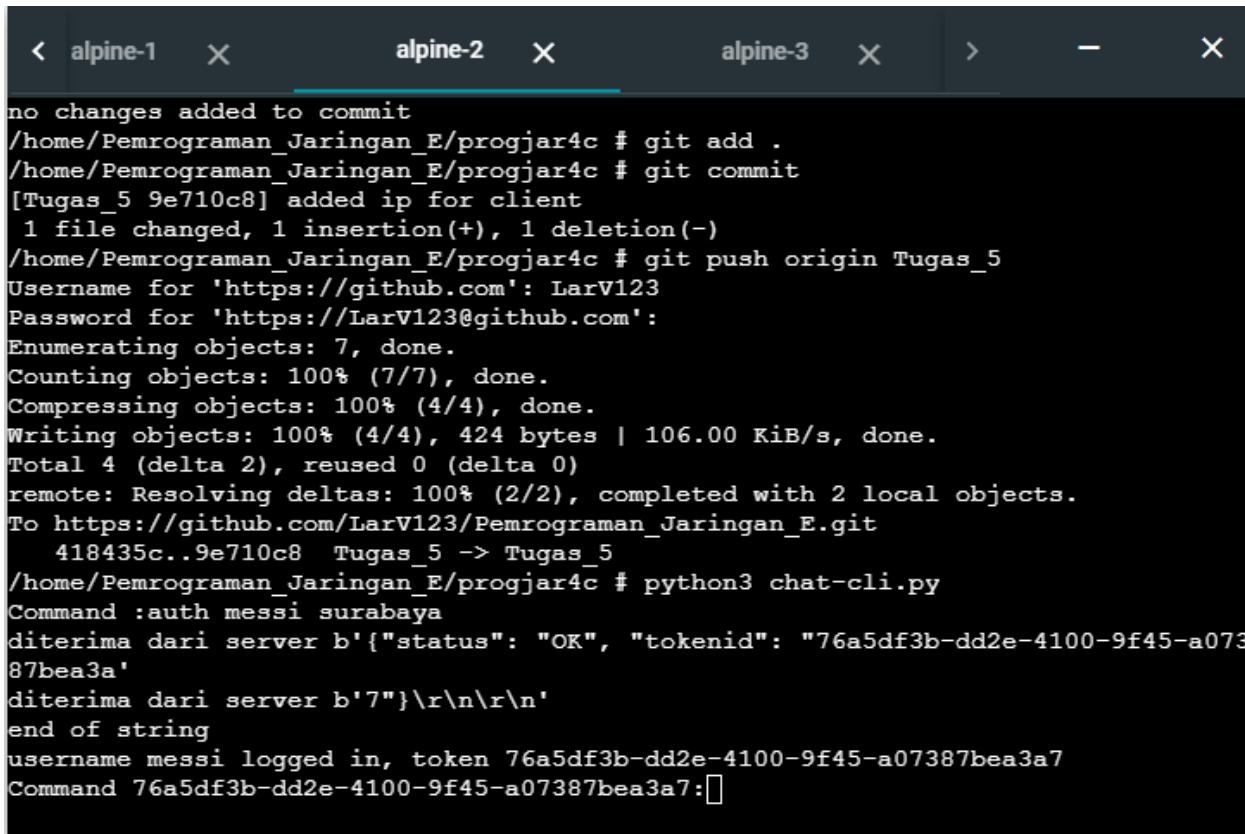
Geizka Wahyu Fahriza  
05111840000062  
Pemrograman Jaringan E

# Tugas 5 : Interaksi Chat

## Autentikasi user

### Client

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



The screenshot shows a terminal window with three tabs: alpine-1, alpine-2, and alpine-3. The alpine-2 tab is active, displaying the following command-line session:

```
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"
87bea3a'
diterima dari server b'7"\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-b5249b700cef'
diterima dari server b'f"\r\n\r\n'
end of string
username lineker logged in, token 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

```
< sole          alpine-1    X          alpine-2    X          al| >      -      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": "03a1ee05-40b3-4f16-9bf-b5249b700cef"}
```

## Mengirim pesan

### Client

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

Geizka Wahyu Fahriza  
05111840000062  
Pemrograman Jaringan E

```
< sole          alpine-1      X          alpine-2      X          al| >      -      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'
diterima dari server b'7"\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

```
< sole      alpine-1  X      alpine-2  X      al| >      -      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": "03a1ee05-40b3-4f16-9bf-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 fro
m 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": "03a1ee05-40b3-4f16-99bf-b5249b700cef'
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:inbox
diterima dari server b'{"status": "OK", "messages": {"messi": [{"msg_from": "Lionel 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": " haloo lineker \r\n"}]}
Command 03a1ee05-40b3-4f16-99bf-b5249b700cef:■
```

## Server

Server menerima command inbox dari alpine 3 / lineker

Geizka Wahyu Fahriza  
05111840000062  
Pemrograman Jaringan E

```
< Cole          alpine-1   X          alpine-2   X          al| >      -      X

WARNING:root:data dari client: auth lineker surabaya
WARNING:root:AUTH: auth lineker surabaya
WARNING:root:balas ke  client: {"status": "OK", "tokenid": "03a1ee05-40b3-4f16-9bf-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 fro
m 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_fro
m": "Lionel Messi", "msg_to": "Gary Lineker", "msg": " haloo lineker \r\n"}]}}

□
```