

Báo cáo Week 11 - Thực hành Lập trình mạng - Kỳ 2025.1

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Github: https://github.com/nammannam/IT4062_Network_Programming

File account.txt:

```
W9 > account.txt
1 admin admin123 admin@gmail.com google.com 0
2 namnk namnk123 namnk@gmail.com youtube.com 0
3 hungng 123hung hungng@hust.edu soict.hust.edu.vn 1
4 locdinh loc2004 123@gmail.com daotao.ai 0
5 quangvn quang123 quangvn22@gmail.com youtube.com 1
6 test2 test123 test2new@gmail.com youtube.com 1
7
```

Kết quả: Mô hình 1 Server -2 Clients

A. select()

- Login + Đổi mật khẩu

```
./server_b2_select.w9
Client 1 - Password received for: quangvn
Client 1 logged in as: quangvn
[Client #0] Received: hung123
Client 0 - Password received for: hungng
Incorrect password
You have 2 attempt(s) left
[Client #0] Received: 123hung
Client 0 - Username received: 123hung
[Client #0] Received: 1
Client 0 - Password received for: 123hung
Cannot find account
[Client #0] Received: hungng
[Client #0] Username received: hungng
[Client #0] Received: 123hung
Client 0 logged in as: hungng
[Client #0] Received: hung123abc
Password changed successfully.
[Client #1] Received: quang1a2a3dd
Password changed successfully.
[Client #1] Received: quang123
Password changed successfully.
[Client #0] Received: hung123
Password changed successfully.

namng@namng-ASUS:/mnt/01DC71B09F664680/Study/2025.1/THLTH/Code/W9$ ./client_b2 127.0.0.4 8789
Connected to server (127.0.0.4:8789)
quangvn
Server: Insert password:
quang123
Login successful.
Server: OK
quang1a2a3dd
Server:
123
quangaadd
quang123
Server:
123
quang
```

- Sai mật khẩu + Bị block

```
.Server_b2_select w9 x
[client #1] Received: t
Client 1 - Password received for: test
Cannot find account
[-] Client #1 disconnected
Client 1 disconnected (127.0.0.1:50236)
[+] New connection from 127.0.0.1:60418 (Client #1, Total: 2)
[client #1] Received: test2
Client 1 - Username received: test2
[client #1] Received: test
Client 1 - Password received for: test2
Incorrect password
You have 2 attempt(s) left
[client #1] Received: test2
Client 1 - Username received: test2
[client #1] Received: test
Client 1 - Password received for: test2
Incorrect password
You have 1 attempt(s) left
[client #1] Received: test2
Client 1 - Username received: test2
[client #1] Received: test
Client 1 - Password received for: test2
Incorrect password
Account is blocked due to 3 failed login attempts
[]

namngnamng-ASUS:/mnt/81DC71809F664680/Study/2025.1/THLTH/Code/W9S ./client_b2 127.0.0.3 8789
Connected to server (127.0.0.3:8789)
hungng
Server: Insert password:
hung123
Server: You have 2 attempt(s) left
123hung
Server: Insert password:
1
Server: Account not found
hungng
Server: Insert password:
123hung
Login successful.
Server: OK
hung123abc
Server:
123
hungabc
hung123
Server:
123
hung
Server:
[]

./client_b2 w9 x
namngnamng-ASUS:/mnt/81DC71809F664680/Study/2025.1/THLTH/Code/W9S ./client_b2 127.0.0.4 8789
Connected to server (127.0.0.4:8789)
test2
Server: Insert password:
test
Server: You have 2 attempt(s) left
test2
Server: Insert password:
test
Server: You have 1 attempt(s) left
test2
Server: Insert password:
test
Server: Account is blocked due to 3 failed login attempts
[]
```

```
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W9 > account.txt
1 admin admin123 admin@gmail.com google.com 0
2 namnk namnk123 namnk@gmail.com youtube.com 0
3 hungng hung123 hungng@hust.edu soict.hust.edu.vn 1
4 locdinh loc2004 123@gmail.com daotao.ai 0
5 quangvn quang123 quangvn22@gmail.com youtube.com 1
6 test2 test123 test2new@gmail.com youtube.com 0
7 ✨
```

```
./server_b2_select W9 X
[Client #1] Received: test
Client 1 - Password received for: test2
Incorrect password
You have 2 attempt(s) left
[Client #1] Received: test2
Client 1 - Username received: test2
[Client #1] Received: test
Client 1 - Password received for: test2
Incorrect password
You have 1 attempt(s) left
[Client #1] Received: test2
Client 1 - Username received: test2
[Client #1] Received: test
Client 1 - Password received for: test2
Incorrect password
Account is blocked due to 3 failed login attempts
[Client #0] Received: hung@123
[Client #0] Received: hung@@12@
[Client #0] Received: hung12@
[Client #1] Received: test2
Client 1 - Username received: test2
[Client #1] Received: test123
Client 1 - Password received for: test2
Account is blocked
□

./client_b2 W9 X
○ namng@namng-ASUS:/mnt/01DC71BD9F6646B0/Study/2025.1/THLTM/Code/W9$ ./client_b2 127.0.0.4 8789
Connected to server (127.0.0.4:8789)
test2
Server: Insert password:
test
Server: You have 2 attempt(s) left
test2
Server: Insert password:
test
Server: You have 1 attempt(s) left
test2
Server: Insert password:
test
Server: Account is blocked due to 3 failed login attempts
test2
Server: Insert password:
test123
Server: Account is blocked
█
```

- Sai format mật khẩu mới:

```
Dec 25 22:49

./server_b2_select w9 x
[-] Client #1 disconnected
Client 1 disconnected (127.0.0.1:50336)
[+] New connection from 127.0.0.1:60418 (Client #1, Total: 2)
[Client #1] Received: test2
Client 1 - Username received: test2
[Client #1] Received: test
Client 1 - Password received for: test2
Incorrect password
You have 2 attempt(s) left
[Client #1] Received: test2
Client 1 - Username received: test2
[Client #1] Received: test
Client 1 - Password received for: test2
Incorrect password
You have 1 attempt(s) left
[Client #1] Received: test2
Client 1 - Username received: test2
[Client #1] Received: test
Client 1 - Password received for: test2
Incorrect password
Account is blocked due to 3 failed login attempts
[Client #0] Received: hung@123
[Client #0] Received: hung@00120
[Client #0] Received: hung120
[]

./client_b2 w9 x
Server: You have 2 attempt(s) left
123hung
Server: Insert password:
1
Server: Account not found
hungng
Server: Insert password:
123hung
Login successful.
Server: OK
hung123abc
Server:
123
hungabc
hung123
Server:
123
hung
hung@123
Server: Error
hung@00120
Server: Error
hung120
Server: Error
[]
```

B. poll()

- Đăng nhập + Đổi mật khẩu + Đổi mật khẩu lỗi:

```
./server_b2_poll w9 x
naamg@naamg-ASUS:/mnt/01DC71809F664680/Study/2025.1/THLTH/code/W9$ ./server_b2_poll 8787
Server is listening on port 8787...
Using poll() for I/O multiplexing
Max clients: 100
=====
Client 0 added (127.0.0.1:40430) - Total clients: 1
Client 1 added (127.0.0.1:36852) - Total clients: 2
Password changed successfully.
Password changed successfully.
Password changed successfully.
Password changed successfully.
[]

./client_b2 w9 x
naamg@naamg-ASUS:/mnt/01DC71809F664680/Study/2025.1/THLTH/code/W9$ ./client_b2 127.0.0.4 8787
Connected to server (127.0.0.4:8787)
quangn
Server: Insert password
hung123
Login successful.
Server: OK
quang12304344
Server:
1234344
quangd
hung123
Server:
123
hung
hung12300
Server: Error
[]

./client_b2 w9 x
naamg@naamg-ASUS:/mnt/01DC71809F664680/Study/2025.1/THLTH/code/W9$ ./client_b2 127.0.0.4 8787
Connected to server (127.0.0.4:8787)
hungng
Server: Insert password
hung123
Login successful.
Server: OK
hung1a2a3
Server:
123
hungaa
hung123
Server:
123
hung
quang1200
Server: Error
[]
```

- Đăng xuất:

```

./server_b2_poll v9 x
namng@namng-ASUS:/mnt/01DC71809F664680/Study/2025.1/THLTH/Code/W9$ ./server_b2_poll 8787
=====
Server is listening on port 8787...
Using poll() for I/O multiplexing
Max clients: 100
=====
Client 0 added (127.0.0.1:40430) - Total clients: 1
Client 1 added (127.0.0.1:36852) - Total clients: 2
Password changed successfully.
Password changed successfully.
Password changed successfully.
User hungng signed out successfully.
User quangvn signed out successfully.
[]

./client_b2 v9 x
namng@namng-ASUS:/mnt/01DC71809F664680/Study/2025.1/THLTH/Code/W9$ ./client_b2 127.0.0.4 8787
Connected to server (127.0.0.4:8787)
quang123
Server: Insert password
quang123
Login successful.
Server: OK
quang1523d4344
Server:
1234344
quangsd
Server:
123
hung
hung123@
Server: Error
bye
Server: Goodbye
[]

./client_b2 v9 x
namng@namng-ASUS:/mnt/01DC71809F664680/Study/2025.1/THLTH/Code/W9$ ./client_b2 127.0.0.4 8787
Connected to server (127.0.0.4:8787)
hungng
Server: Insert password
hung123
Login successful.
Server: OK
hung1a2a3
Server:
123
hungaa
hung123
Server:
123
hung
quang128@
Server: Error
bye
Server: Goodbye
[]
```

- Khóa tài khoản nhập sai mật khẩu quá 3 lần:

```

./server_b2_poll v9 x
namng@namng-ASUS:/mnt/01DC71809F664680/Study/2025.1/THLTH/Code/W9$ ./server_b2_poll 8787
=====
Server is listening on port 8787...
Using poll() for I/O multiplexing
Max clients: 100
=====
Client 0 added (127.0.0.1:40430) - Total clients: 1
Client 1 added (127.0.0.1:36852) - Total clients: 2
Password changed successfully.
Password changed successfully.
Password changed successfully.
User hungng signed out successfully.
User quangvn signed out successfully.
Client 1 disconnected (127.0.0.1:36852)
Client 1 added (127.0.0.1:58636) - Total clients: 2
Client 1 disconnected (127.0.0.1:58636)
Incorrect password
You have 2 attempt(s) left
Incorrect password
You have 1 attempt(s) left
Incorrect password
Account blocked after 3 failed attempts
[]

./client_b2 v9 x
Connected to server (127.0.0.4:8787)
quang123
Login successful.
Server: OK
quang1523d4344
Server:
1234344
quangsd
Server:
123
hung
hung123@
Server: Error
bye
Server: Goodbye
hungng
Server: Insert password
123
Server: Not OK
hungng
Server: Not OK
123
Server: Not OK
123
Server: Account is blocked
[]
```

```

account.txt x server_b2_poll.c Lec09.IOMultiplexing_linhdt_2025.pdf server_b2_select.c
W9 > account.txt
1 admin admin123 admin@gmail.com google.com
2 namnk namnk123 namnk@gmail.com youtube.com
3 hungng hung123 hungng@hust.edu soict.hust.edu.vn
4 locdinh loc2004 123@gmail.com daotao.ai
5 quangvn hung123 quangvn22@gmail.com youtube.com 1
6 test2 test123 test2new@gmail.com youtube.com
7
```