

Bài tập Lập trình mạng ngày 05/06/2023

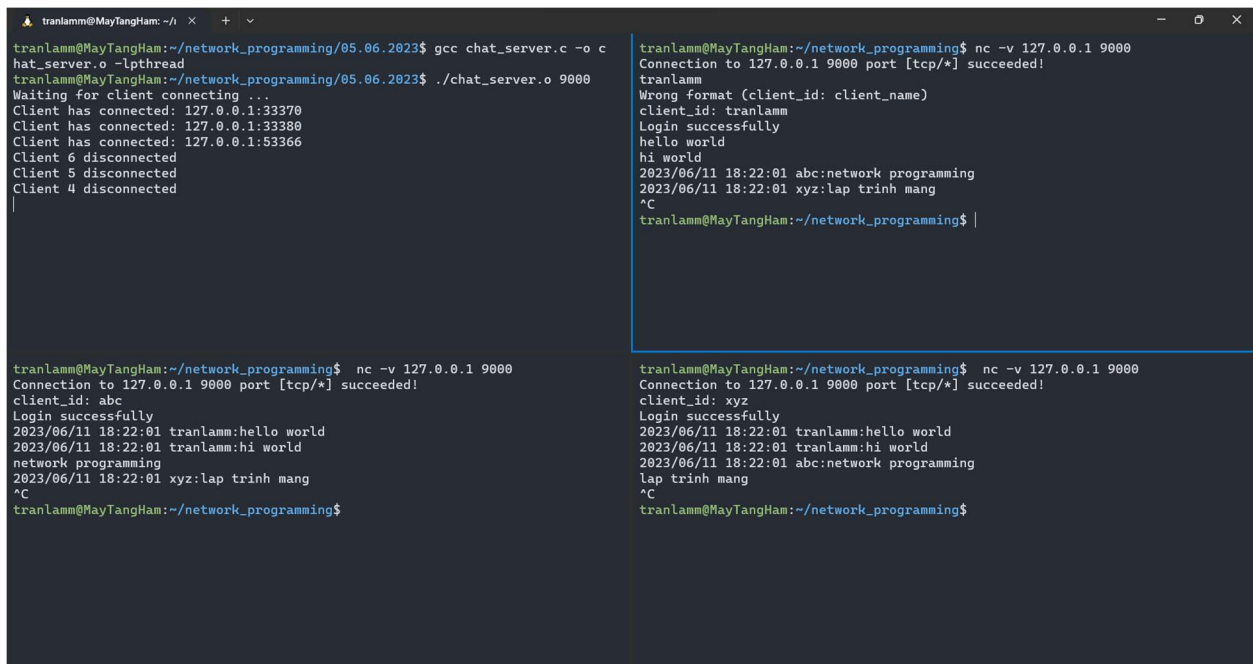
Trần Lâm – 20204759

IT4060 – 141337

Link Github:

https://github.com/tranlamm/network_programming/tree/main/05.06.2023

1. Ảnh chạy thử bài 1 (Chat server):



```
tranlamm@MayTangHam: ~/network_programming/05.06.2023$ gcc chat_server.c -o chat_server.o -lpthread
tranlamm@MayTangHam:~/network_programming/05.06.2023$ ./chat_server.o 9000
Waiting for client connecting ...
Client has connected: 127.0.0.1:33370
Client has connected: 127.0.0.1:33380
Client has connected: 127.0.0.1:53366
Client 6 disconnected
Client 5 disconnected
Client 4 disconnected
|

tranlamm@MayTangHam:~/network_programming$ nc -v 127.0.0.1 9000
Connection to 127.0.0.1 9000 port [tcp/*] succeeded!
client_id: abc
Login successfully
2023/06/11 18:22:01 tranlamm:hello world
2023/06/11 18:22:01 tranlamm:hi world
network programming
2023/06/11 18:22:01 xyz:lap trình mang
^C
tranlamm@MayTangHam:~/network_programming$

tranlamm@MayTangHam:~/network_programming$ nc -v 127.0.0.1 9000
Connection to 127.0.0.1 9000 port [tcp/*] succeeded!
client_id: xyz
Login successfully
2023/06/11 18:22:01 tranlamm:hello world
2023/06/11 18:22:01 tranlamm:hi world
2023/06/11 18:22:01 abc:network programming
lap trình mang
^C
tranlamm@MayTangHam:~/network_programming$
```

2. Ảnh chạy thử bài 2 (Telnet server):

```
tranlamm@MayTangHam: ~/ / + v
tranlamm@MayTangHam:~/network_programming/05.06.2023$ gcc telnet_server.c -o
telnet_server.o -lpthread
tranlamm@MayTangHam:~/network_programming/05.06.2023$ ./telnet_server.o 9000
user_database.txt cmd_output.txt
Waiting for client connecting ...
Client has connected: 127.0.0.1:51954
Client has connected: 127.0.0.1:51956
Client has connected: 127.0.0.1:51958
Client 4 disconnected
Client 5 disconnected
Client 6 disconnected
|

tranlamm@MayTangHam:~/network_programming$ nc -v 127.0.0.1 9000
Connection to 127.0.0.1 9000 port [tcp/*] succeeded!
guest nopass
Login successfully
mkdir 123.txt

ls
123.txt
chat_server.c
chat_server.o
cmd_output.txt
http_server.c
http_server.o
telnet_server.c
telnet_server.o
time_server.c
time_server.o
user_database.txt

tranlamm@MayTangHam:~/network_programming$ nc -v 127.0.0.1 9000
Connection to 127.0.0.1 9000 port [tcp/*] succeeded!
admin
Wrong format (acc pass)
admin admin
Login successfully
ls
chat_server.c
chat_server.o
cmd_output.txt
http_server.c
http_server.o
telnet_server.c
telnet_server.o
time_server.c
time_server.o
user_database.txt
^C
tranlamm@MayTangHam:~/network_programming$

tranlamm@MayTangHam:~/network_programming$ nc -v 127.0.0.1 9000
Connection to 127.0.0.1 9000 port [tcp/*] succeeded!
guest 123
Wrong account or password
guest nopass
Login successfully
dir
chat_server.c http_server.c telnet_server.o user_database.txt
chat_server.o http_server.o time_server.c
cmd_output.txt telnet_server.c time_server.o
^C
tranlamm@MayTangHam:~/network_programming$
```

3. Ảnh chạy thử bài 3 (Time server):

```
tranlamm@MayTangHam: ~/ / + v
tranlamm@MayTangHam:~/network_programming/05.06.2023$ gcc time_server.c -o t
ime_server.o -lpthread
tranlamm@MayTangHam:~/network_programming/05.06.2023$ ./time_server.o 9000
Waiting for client connecting ...
Client has connected: 127.0.0.1:38166
Client has connected: 127.0.0.1:38168
Client has connected: 127.0.0.1:38176
Receive from client 4: gettime
Receive from client 4: GETTIME dd/mm/yyyy
Receive from client 4: GET_TIME dd/mm/yyyy
Client 4 closed
Receive from client 6: GET_TIME mm/dd/yy
Client 6 closed
Receive from client 5: GET_TIME d/m/y
Receive from client 5: GET_TIME mm/dd/yyyy
Client 5 closed

tranlamm@MayTangHam:~/network_programming$ nc -v 127.0.0.1 9000
Connection to 127.0.0.1 9000 port [tcp/*] succeeded!
GET_TIME d/m/y
Wrong format
GET_TIME mm/dd/yyyy
06/11/2023

tranlamm@MayTangHam:~/network_programming$

tranlamm@MayTangHam:~/network_programming$ gcc time_server.c -o t
ime_server.o -lpthread
tranlamm@MayTangHam:~/network_programming/05.06.2023$ ./time_server.o 9000
Waiting for client connecting ...
Client has connected: 127.0.0.1:38166
Client has connected: 127.0.0.1:38168
Client has connected: 127.0.0.1:38176
Receive from client 4: gettime
Receive from client 4: GETTIME dd/mm/yyyy
Receive from client 4: GET_TIME dd/mm/yyyy
Client 4 closed
Receive from client 6: GET_TIME mm/dd/yy
Client 6 closed
Receive from client 5: GET_TIME d/m/y
Receive from client 5: GET_TIME mm/dd/yyyy
Client 5 closed

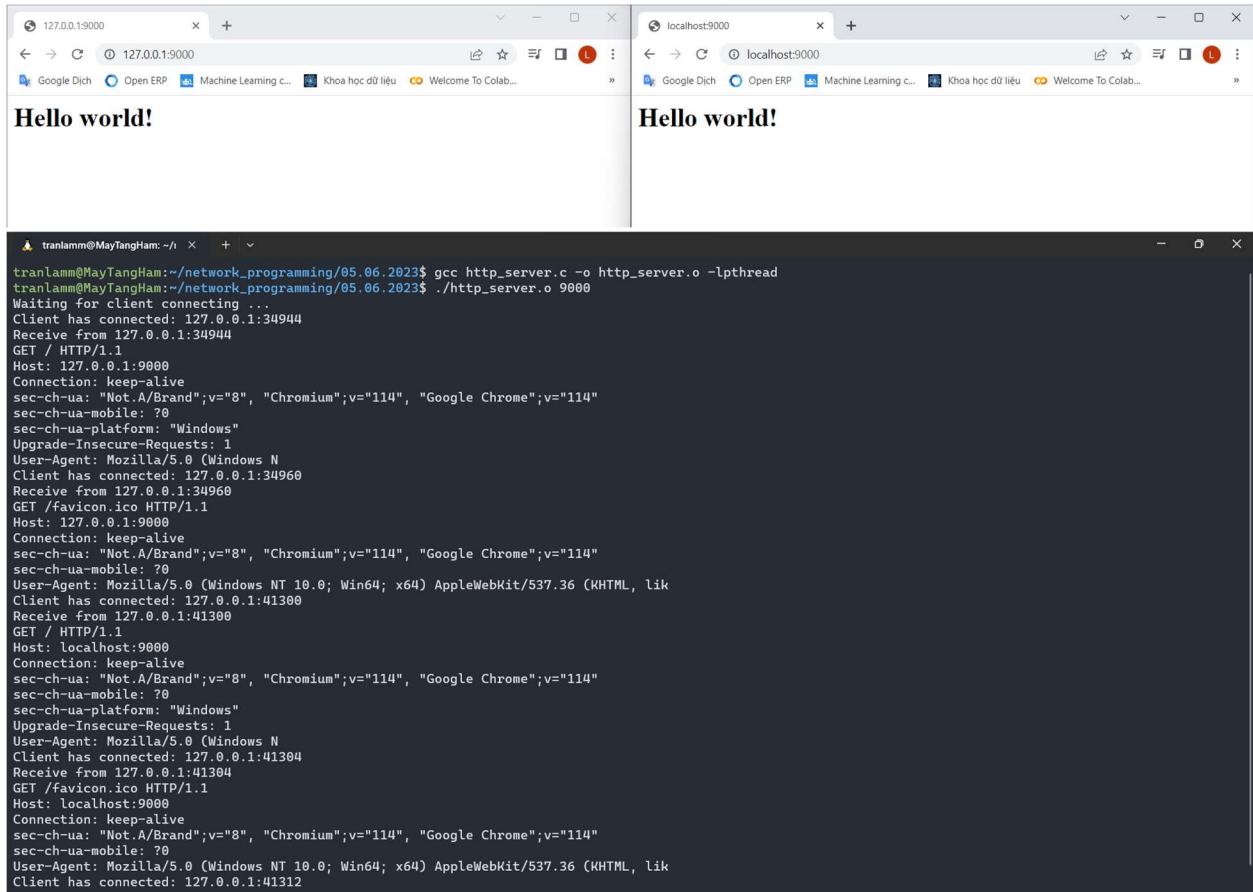
tranlamm@MayTangHam:~/network_programming$ nc -v 127.0.0.1 9000
Connection to 127.0.0.1 9000 port [tcp/*] succeeded!
gettime
Wrong format
GETTIME dd/mm/yyyy
Wrong format
GET_TIME dd/mm/yyyy
11/06/2023

tranlamm@MayTangHam:~/network_programming$

tranlamm@MayTangHam:~/network_programming$ nc -v 127.0.0.1 9000
Connection to 127.0.0.1 9000 port [tcp/*] succeeded!
GET_TIME mm/dd/yy
06/11/23

tranlamm@MayTangHam:~/network_programming$
```

4. Ảnh chạy thử bài 4 (HTTP server):



The image displays a screenshot of a computer screen with three windows. The top left window is a web browser at 127.0.0.1:9000 showing "Hello world!". The top right window is a web browser at localhost:9000 also showing "Hello world!". The bottom window is a terminal showing the execution of an HTTP server program.

```
tranlamm@MayTangHam: ~/network_programming/05.06.2023$ gcc http_server.c -o http_server.o -lpthread
tranlamm@MayTangHam:~/network_programming/05.06.2023$ ./http_server.o 9000
Waiting for client connecting ...
Client has connected: 127.0.0.1:34944
Receive from 127.0.0.1:34944
GET / HTTP/1.1
Host: 127.0.0.1:9000
Connection: keep-alive
sec-ch-ua: "Not.A/Brand";v="8", "Chromium";v="114", "Google Chrome";v="114"
sec-ch-ua-mobile: ?0
sec-ch-ua-platform: "Windows"
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/114.0.0.0 Safari/537.36
Client has connected: 127.0.0.1:34960
Receive from 127.0.0.1:34960
GET /favicon.ico HTTP/1.1
Host: 127.0.0.1:9000
Connection: keep-alive
sec-ch-ua: "Not.A/Brand";v="8", "Chromium";v="114", "Google Chrome";v="114"
sec-ch-ua-mobile: ?0
sec-ch-ua-platform: "Windows"
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/114.0.0.0 Safari/537.36
Client has connected: 127.0.0.1:41300
Receive from 127.0.0.1:41300
GET / HTTP/1.1
Host: localhost:9000
Connection: keep-alive
sec-ch-ua: "Not.A/Brand";v="8", "Chromium";v="114", "Google Chrome";v="114"
sec-ch-ua-mobile: ?0
sec-ch-ua-platform: "Windows"
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/114.0.0.0 Safari/537.36
Client has connected: 127.0.0.1:41304
Receive from 127.0.0.1:41304
GET /favicon.ico HTTP/1.1
Host: localhost:9000
Connection: keep-alive
sec-ch-ua: "Not.A/Brand";v="8", "Chromium";v="114", "Google Chrome";v="114"
sec-ch-ua-mobile: ?0
sec-ch-ua-platform: "Windows"
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/114.0.0.0 Safari/537.36
Client has connected: 127.0.0.1:41312
```