컴퓨터 네트워크 4 주차 과제

12191617 신동주

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deutan@DESKTOP-H9KA10L:~/network-2025/week4-assignment$ ./server 9090
 Connected client 1
 Client 1's IP : 127.0.0.1
 Client 1's Port : 60280
 Connected client 2
 Client 2's IP : 127.0.0.1
 Client 2's Port : 60286
 Connected client 3
 Client 3's IP: 127.0.0.1
 Client 3's Port: 48742
 Connected client 4
 Client 4's IP : 127.0.0.1
 Client 4's Port : 55986
 Connected client 5
 Client 5's IP: 127.0.0.1
 Client 5's Port : 55988
o deutan@DESKTOP-H9KA10L:~/network-2025/week4-assignment$
• deutan@DESKTOP-H9KA10L:~/network-2025/week4-assignment$ netstat -na | grep 9090
                                               0.0.0.0:*
                    0 0.0.0.0:9090
                    0 127.0.0.1:40428
                                               127.0.0.1:9090
                                                                         TIME_WAIT
  tcp
  tcp
                    0 127.0.0.1:51624
                                                127.0.0.1:9090
                                                                         TIME_WAIT
  tcp
                    0 127.0.0.1:40426
                                               127.0.0.1:9090
                                                                         TIME WAIT
                    0 127.0.0.1:60280
                                               127.0.0.1:9090
                                                                         ESTABLISHED
  tcp
                                                                         ESTABLISHED
                    0 127.0.0.1:9090
                                               127.0.0.1:60280
  tcp
             0
                    0 127.0.0.1:53194
  tcp
                                               127.0.0.1:9090
                                                                         TIME_WAIT
deutan@DESKTOP-H9KA10L:~/network-2025/week4-assignment$ netstat -na | grep 9090
  tcp
             0
                    0 0.0.0.0:9090
                                                0.0.0.0:*
                    0 127.0.0.1:40428
                                               127.0.0.1:9090
  tcp
                                                                         TIME_WAIT
                                               127.0.0.1:9090
  tcp
                    0 127.0.0.1:51624
                    0 127.0.0.1:40426
                                               127.0.0.1:9090
                                                                         TIME_WAIT
  tcp
  tcp
                    0 127.0.0.1:60280
                                               127.0.0.1:9090
                    0 127.0.0.1:60286
                                               127.0.0.1:9090
                                                                         ESTABLISHED
  tcp
  tcp
                    0 127.0.0.1:9090
                                               127.0.0.1:60286
                                                                         ESTABLISHED
 tcp
                    0 127.0.0.1:53194
                                               127.0.0.1:9090
                                                                         TIME_WAIT
deutan@DESKTOP-H9KA10L:~/network-2025/week4-assignment$ netstat -na | grep 9090
                    0 0.0.0.0:9090
                                               0.0.0.0:*
  tcp
                    0 127.0.0.1:40428
                                               127.0.0.1:9090
                                                                         TIME WAIT
  tcp
                    0 127.0.0.1:9090
                                               127.0.0.1:48742
                                                                         ESTABLISHED
  tcp
                    0 127.0.0.1:60280
                                               127.0.0.1:9090
                                                                         TIME_WAIT
  tcp
                    0 127.0.0.1:48742
                                               127.0.0.1:9090
                                                                         ESTABLISHED
  tcp
                    0 127.0.0.1:60286
                                               127.0.0.1:9090
                                                                         TIME_WAIT
  tcp
             0
                    0 127.0.0.1:53194
                                               127.0.0.1:9090
                                                                         TIME WAIT
  tcp
deutan@DESKTOP-H9KA10L:~/network-2025/week4-assignment$ netstat -na | grep 9090
                                               0.0.0.0:*
                                                                         LISTEN
                    0 0.0.0.0:9090
  tcp
             0
                    0 127.0.0.1:9090
                                               127.0.0.1:55986
                                                                         ESTABLISHED
  tcp
                    0 127.0.0.1:55986
                                               127.0.0.1:9090
                                                                         ESTABLISHED
  tcp
                    0 127.0.0.1:60280
                                               127.0.0.1:9090
                                                                         TIME WAIT
  tcp
                    0 127.0.0.1:48742
                                               127.0.0.1:9090
                                                                         TIME_WAIT
  tcp
                                               127.0.0.1:9090
                    0 127.0.0.1:60286
                                                                         TIME WAIT
  tcp
                    0 127.0.0.1:53194
                                               127.0.0.1:9090
                                                                         TIME_WAIT
             0
  tcp
deutan@DESKTOP-H9KA10L:~/network-2025/week4-assignment$ netstat -na | grep 9090
                    0 0.0.0.0:9090
                                                0.0.0.0:*
                                                                         LISTEN
  tcp
             0
                                               127.0.0.1:55988
  tcp
                    0 127.0.0.1:9090
                                                                         ESTABLISHED
                                                                         ESTABLISHED
                    0 127.0.0.1:55988
                                               127.0.0.1:9090
  tcp
                    0 127.0.0.1:55986
                                               127.0.0.1:9090
                                                                         TIME WAIT
             0
  tcp
                    0 127.0.0.1:60280
                                               127.0.0.1:9090
                                                                         TIME WAIT
  tcp
                    0 127.0.0.1:48742
                                               127.0.0.1:9090
                                                                         TIME WAIT
  tcp
                    0 127.0.0.1:60286
                                                127.0.0.1:9090
                                                                         TIME WAIT
  tcp
                    0 127.0.0.1:53194
                                                127.0.0.1:9090
                                                                         TIME_WAIT
  tcp
o deutan@DESKTOP-H9KA10L:~/network-2025/week4-assignment$ []
```

```
• deutan@DESKTOP-H9KA10L:~/network-2025/week4-assignment$ ./client 127.0.0.1 9090
 Connected.....
 Input message(Q to quit): Q
deutan@DESKTOP-H9KA10L:~/network-2025/week4-assignment$ ./client 127.0.0.1 9090
 Connected.....
 Input message(Q to quit): Q
deutan@DESKTOP-H9KA10L:~/network-2025/week4-assignment$ ./client 127.0.0.1 9090
 Connected.....
 Input message(Q to quit): Q
deutan@DESKTOP-H9KA10L:~/network-2025/week4-assignment$ ./client 127.0.0.1 9090
 Connected.....
 Input message(Q to quit): Q
• deutan@DESKTOP-H9KA10L:~/network-2025/week4-assignment$ ./client 127.0.0.1 9090
 Connected.....
 Input message(Q to quit): Q
o deutan@DESKTOP-H9KA10L:~/network-2025/week4-assignment$ □
```