

```
Terminal
yaroslav@yaroslav-VirtualBox: /media/vboxshared/Lab/lab4
client.c: In function 'setup_tcp_communication':
client.c:56:6: warning: format '%s' expects argument of type 'char *', but argument 2 has type 'char (*)[50]' [-Wformat=]
scanf("%s", &client_data.name);
^
client.c:58:6: warning: format '%s' expects argument of type 'char *', but argument 2 has type 'char (*)[50]' [-Wformat=]
scanf("%s", &client_data.age);
^
client.c:60:6: warning: format '%s' expects argument of type 'char *', but argument 2 has type 'char (*)[50]' [-Wformat=]
scanf("%s", &client_data.group);
^
Enter name: ?
Yaroslav
Enter age: ?
20
Enter group: ?
BS17-07
No of bytes sent = 150
No of bytes received = 150
Result received = Yaroslav 20 BS17-07 ~ PIDOR
Enter name: ?

Terminal
yaroslav@yaroslav-VirtualBox: /media/vboxshared/Lab/lab4
blocked on select System call...
^C
yaroslav@yaroslav-VirtualBox: /media/vboxshared/Lab/lab4$ gcc server.c -o server.out
&& ./server.out
server.c: In function 'setup_tcp_server_communication':
server.c:114:16: warning: format '%s' expects argument of type 'char *', but argument 2 has type 'int' [-Wformat=]
inet_ntoa(client_addr.sin_addr), ntohs(client_addr.sin_port));
^
server.c:132:24: warning: format '%s' expects argument of type 'char *', but argument 3 has type 'int' [-Wformat=]
inet_ntoa(client_addr.sin_addr), ntohs(client_addr.sin_port)
);
^
blocked on select System call...
New connection recieved recvd, accept the connection. Client and Server completes TCP-3 way handshake at this point
Connection accepted from client : 192.168.8.2:48620
Server ready to service client msgs.
Server recvd 0 bytes from client 192.168.8.2:48620
blocked on select System call...
New connection recieved recvd, accept the connection. Client and Server completes TCP-3 way handshake at this point
Connection accepted from client : 192.168.8.2:48620
Server ready to service client msgs.
Server recvd 150 bytes from client 192.168.8.2:48620
Server sent 150 bytes in reply to client
Server ready to service client msgs.

64 bytes from 192.168.4.2:
^C
--- 192.168.4.2 ping statis
4 packets transmitted, 4 received, 0% packet loss, time 0.011s
rtt min/avg/max/mdev = 0.011/0.011/0.011/0.000 ms
yaroslav@yaroslav-VirtualBox: /media/vboxshared/Lab/lab4$
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Terminal
yaroslav@yaroslav-VirtualBox: /media/vboxshared/Lab/lab4
Enter group: ?
20
No of bytes sent = 150
No of bytes received = 150
Result received = Ilusha Prokoplev 20 ~ PIDOR
Enter name: ?
^C
yaroslav@yaroslav-VirtualBox: /media/vboxshared/Lab/lab4$ gcc client.c -o client.out
&& ./client.out
client.c: In function 'setup_tcp_communication':
client.c:56:6: warning: format '%s' expects argument of type 'char *', but argument 2 has type 'char (*)[50]' [-Wformat=]
scanf("%s", &client_data.name);
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client.c:58:6: warning: format '%s' expects argument of type 'char *', but argument 2 has type 'char (*)[50]' [-Wformat=]
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client.c:60:6: warning: format '%s' expects argument of type 'char *', but argument 2 has type 'char (*)[50]' [-Wformat=]
scanf("%s", &client_data.group);
^
Enter name: ?

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yaroslav@yaroslav-VirtualBox: /media/vboxshared/Lab/lab4$ gcc server.c -o server.out
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^
server.c:132:24: warning: format '%s' expects argument of type 'char *', but argument 3 has type 'int' [-Wformat=]
inet_ntoa(client_addr.sin_addr), ntohs(client_addr.sin_port)
);
^
blocked on select System call...
New connection recieved recvd, accept the connection. Client and Server completes TCP-3 way handshake at this point
Connection accepted from client : 192.168.8.2:48618
Server ready to service client msgs.
Server recvd 150 bytes from client 192.168.8.2:48618
Server sent 150 bytes in reply to client
Server ready to service client msgs.
Server recvd 150 bytes from client 192.168.8.2:48618
Server sent 150 bytes in reply to client
Server ready to service client msgs.
Server recvd 0 bytes from client 192.168.8.2:48618
blocked on select System call...
^C
yaroslav@yaroslav-VirtualBox: /media/vboxshared/Lab/lab4$ gcc server.c -o server.out
&& ./server.out
server.c: In function 'setup_tcp_server_communication':
server.c:114:16: warning: format '%s' expects argument of type 'char *', but argument 2 has type 'int' [-Wformat=]
inet_ntoa(client_addr.sin_addr), ntohs(client_addr.sin_port));
^
server.c:132:24: warning: format '%s' expects argument of type 'char *', but argument 3 has type 'int' [-Wformat=]
inet_ntoa(client_addr.sin_addr), ntohs(client_addr.sin_port)
);
^
blocked on select System call...
New connection recieved recvd, accept the connection. Client and Server completes TCP-3 way handshake at this point
Connection accepted from client : 192.168.8.2:48620
Server ready to service client msgs.

64 bytes from 192.168.4.2:
^C
--- 192.168.4.2 ping statis
4 packets transmitted, 4 received, 0% packet loss, time 0.011s
rtt min/avg/max/mdev = 0.011/0.011/0.011/0.000 ms
yaroslav@yaroslav-VirtualBox: /media/vboxshared/Lab/lab4$
```

```
Terminal
yaroslav@yaroslav-VirtualBox: /media/vboxshared/Lab/lab4
Enter group: ?
BS17-07
No of bytes sent = 150
No of bytes received = 150
Result received = Yaroslav 20 BS17-07 ~ PIDOR
Enter name: ?
^C
yaroslav@yaroslav-VirtualBox: /media/vboxshared/Lab/lab4$ ping 192.168.4.2
PING 192.168.4.2 (192.168.4.2) 56(84) bytes of data:
64 bytes from 192.168.4.2: icmp_seq=1 ttl=63 time=0.579 ms
64 bytes from 192.168.4.2: icmp_seq=2 ttl=63 time=0.544 ms
64 bytes from 192.168.4.2: icmp_seq=3 ttl=63 time=0.743 ms
64 bytes from 192.168.4.2: icmp_seq=4 ttl=63 time=0.698 ms
64 bytes from 192.168.4.2: icmp_seq=5 ttl=63 time=0.634 ms
64 bytes from 192.168.4.2: icmp_seq=6 ttl=63 time=0.685 ms
64 bytes from 192.168.4.2: icmp_seq=7 ttl=63 time=0.769 ms
64 bytes from 192.168.4.2: icmp_seq=8 ttl=63 time=0.690 ms
64 bytes from 192.168.4.2: icmp_seq=9 ttl=63 time=0.717 ms
64 bytes from 192.168.4.2: icmp_seq=10 ttl=63 time=0.694 ms
^C
--- 192.168.4.2 ping statistics ---
10 packets transmitted, 10 received, 0% packet loss, time 8999ms
rtt min/avg/max/ndev = 0.544/0.675/0.769/0.069 ms
yaroslav@yaroslav-VirtualBox: /media/vboxshared/Lab/lab4$

Terminal
yaroslav@yaroslav-VirtualBox: /media/vboxshared/Lab/lab4
Server ready to service client msgs.
Server recvd 150 bytes from client 192.168.8.2:48620
Server sent 150 bytes in reply to client
Server ready to service client msgs.
Server recvd 0 bytes from client 192.168.8.2:48620
Blocked on select system call...
^C
yaroslav@yaroslav-VirtualBox: /media/vboxshared/Lab/lab4$ ping 192.168.8.2
PING 192.168.8.2 (192.168.8.2) 56(84) bytes of data:
64 bytes from 192.168.8.2: icmp_seq=1 ttl=63 time=0.547 ms
64 bytes from 192.168.8.2: icmp_seq=2 ttl=63 time=0.572 ms
64 bytes from 192.168.8.2: icmp_seq=3 ttl=63 time=0.537 ms
64 bytes from 192.168.8.2: icmp_seq=4 ttl=63 time=0.653 ms
64 bytes from 192.168.8.2: icmp_seq=5 ttl=63 time=0.843 ms
64 bytes from 192.168.8.2: icmp_seq=6 ttl=63 time=0.635 ms
64 bytes from 192.168.8.2: icmp_seq=7 ttl=63 time=0.551 ms
64 bytes from 192.168.8.2: icmp_seq=8 ttl=63 time=0.614 ms
64 bytes from 192.168.8.2: icmp_seq=9 ttl=63 time=0.710 ms
64 bytes from 192.168.8.2: icmp_seq=10 ttl=63 time=0.787 ms
64 bytes from 192.168.8.2: icmp_seq=11 ttl=63 time=1.22 ms
64 bytes from 192.168.8.2: icmp_seq=12 ttl=63 time=0.659 ms
64 bytes from 192.168.8.2: icmp_seq=13 ttl=63 time=0.657 ms
64 bytes from 192.168.8.2: icmp_seq=14 ttl=63 time=0.612 ms
64 bytes from 192.168.8.2: icmp_seq=15 ttl=63 time=0.655 ms
^C
--- 192.168.8.2 ping statistics ---
15 packets transmitted, 15 received, 0% packet loss, time 13999ms
rtt min/avg/max/ndev = 0.537/0.683/1.221/0.167 ms
yaroslav@yaroslav-VirtualBox: /media/vboxshared/Lab/lab4$
64 bytes from 192.168.4.2:
^C
--- 192.168.4.2 ping statis
4 packets transmitted, 4 re
rtt min/avg/max/ndev = 0.0
yaroslav@yaroslav-VirtualBo
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