

EE533
Network Processor
Design and Programming
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Goal:

For this lab, the goal is building up two VM and treat one as server one as client. Using socket program with fork function to set up connection in one subnet

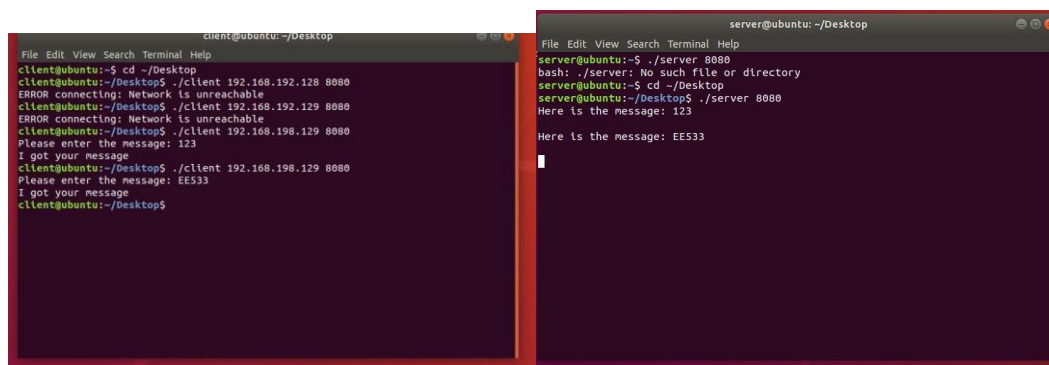
Steps:

Follow the lab manual, downloaded VM workstation, modify network adapter settings to ensure the both VM are in the same subnet.

Following the requirement, modified the source code of server.c provided by professor. Using fork() function to make sure the server can continually boots up and receiving messages from clients.

Also adding the sigchld_handler() function to handle the zombie process problems .

Results:



```
client@ubuntu: ~/Desktop
File Edit View Search Terminal Help
client@ubuntu:~/Desktop$ ./client 192.168.192.128 8080
ERROR connecting: Network is unreachable
client@ubuntu:~/Desktop$ ./client 192.168.192.129 8080
ERROR connecting: Network is unreachable
client@ubuntu:~/Desktop$ ./client 192.168.198.129 8080
Please enter the message: 123
I got your message
client@ubuntu:~/Desktop$ ./client 192.168.198.129 8080
Please enter the message: EE533
I got your message
client@ubuntu:~/Desktop$

server@ubuntu: ~/Desktop
File Edit View Search Terminal Help
server@ubuntu:~/Desktop$ ./server 8080
bash: ./server: No such file or directory
server@ubuntu:~/Desktop$ cd ~/Desktop
server@ubuntu:~/Desktop$ ./server 8080
Here is the message: 123
Here is the message: EE533
```