

ApplicationsPlacesTerminal

CS164\_Lab4Python sockeWS Character Sethttp responsChristopher

mininet@mininet-vm: ~/CS164\_Lab4

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```
mininet@mininet-vm:~/CS164_Lab4$ ssh -X -p 2222 mininet@localhost
ssh: Could not resolve hostname localhost: Name or service not known

mininet@mininet-vm:~/CS164_Lab4$ ssh -X -p 2222 mininet@localhost
ssh: Could not resolve hostname localhost: Name or service not known

mininet@mininet-vm:~/CS164_Lab4$ ssh -X -p 2222 mininet@localhost
mininet@localhost's password:
Welcome to Ubuntu 14.04 LTS (GNU/Linux 3.13.0-24-generic x86_64)

 * Documentation:  https://help.ubuntu.com/
Last login: Fri Oct 25 18:34:47 2019 from 10.0.2.2
mininet@mininet-vm:~$ cd CS164_Lab4/
mininet@mininet-vm:~/CS164_Lab4$ python server.py
Socket Created
Socket Bind Complete
Socket now Listening
Connected with 127.0.0.1:[1]
mininet@mininet-vm:~/CS164_Lab4$
```

mininet@mininet-vm: ~/CS164\_Lab4

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```
mininet@mininet-vm:~/CS164_Lab4$ telnet localhost 8888
bash: telnet: command not found

mininet@mininet-vm:~/CS164_Lab4$ ssh -X -p 2222 mininet@localhost
mininet@localhost's password:
Welcome to Ubuntu 14.04 LTS (GNU/Linux 3.13.0-24-generic x86_64)

 * Documentation:  https://help.ubuntu.com/
Last login: Fri Oct 25 17:16:09 2019 from 10.0.2.2
mininet@mininet-vm:~$ cd CS164_Lab4/
mininet@mininet-vm:~/CS164_Lab4$ telnet localhost 8888
Trying 127.0.0.1...
Connected to localhost.
Escape character is '^'.
Connection closed by foreign host.
mininet@mininet-vm:~/CS164_Lab4$
```

And the server output will show

```
$ python server.py
Socket created
Socket bind complete
Socket now listening
Connected with 127.0.0.1:59954
```

So we can see that the client connected to the server. Try the above steps till you get it working perfect.

We accepted an incoming connection but closed it immediately. This was not very productive. There are lots of things that can be done after an incoming connection is established. Afterall the connection was established for the purpose of communication. So lets reply to the client.

Function `sendall` can be used to send something to the socket of the incoming connection and the client should see it. Here is an example :

Code

Python socket - network programm... [mininet [Running] - Oracle VM Virtu... [lab4connectdemo.odg - LibreOffice... mininet@mininet-vm: ~/CS164\_Lab4 mininet@mininet-vm: ~/CS164\_Lab4

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