

**EEE5390C: Full Custom VLSI Design**  
**Spring 2025**  
**Creating and Connecting via VNC Session**

## Introduction

MobaXterm does not allow running jobs/commands in the background. As a result the user must be present in front of the computer all the time to stop computer being in the sleep mode or disconnected. This mode of connection is ok for jobs that run fast but not feasible for prolonged tasks, such as, physical design steps. Hence, this manual will show you how to connect via VNC session. Follow the steps below to create and connect through a VNC session.

1. If you are working out of campus, connect to UCF vpn first.
2. Now, open MobaXterm and login to vlsi.eecs.ucf.edu server just like you used to.
3. Once you are logged into vlsi.eecs.ucf.edu server, invoke the following command to create a vnc session in this server. Please note that, you can change the vnc resolution based on your display resolution.

```
vncserver -depth 24 -geometry 1920x1080
```

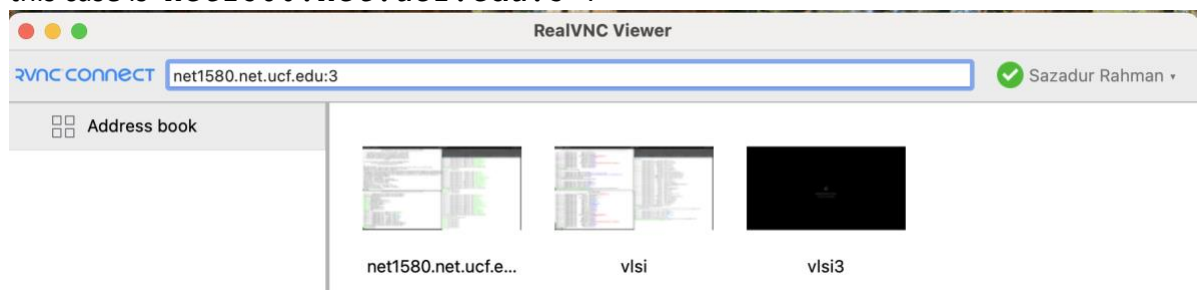
```
mo412323->vncserver -depth 24 -geometry 1920x1080
```

```
WARNING: vncserver has been replaced by a systemd unit and is now considered deprecated and removed in upstream.  
Please read /usr/share/doc/tigervnc/HOWTO.md for more information.
```

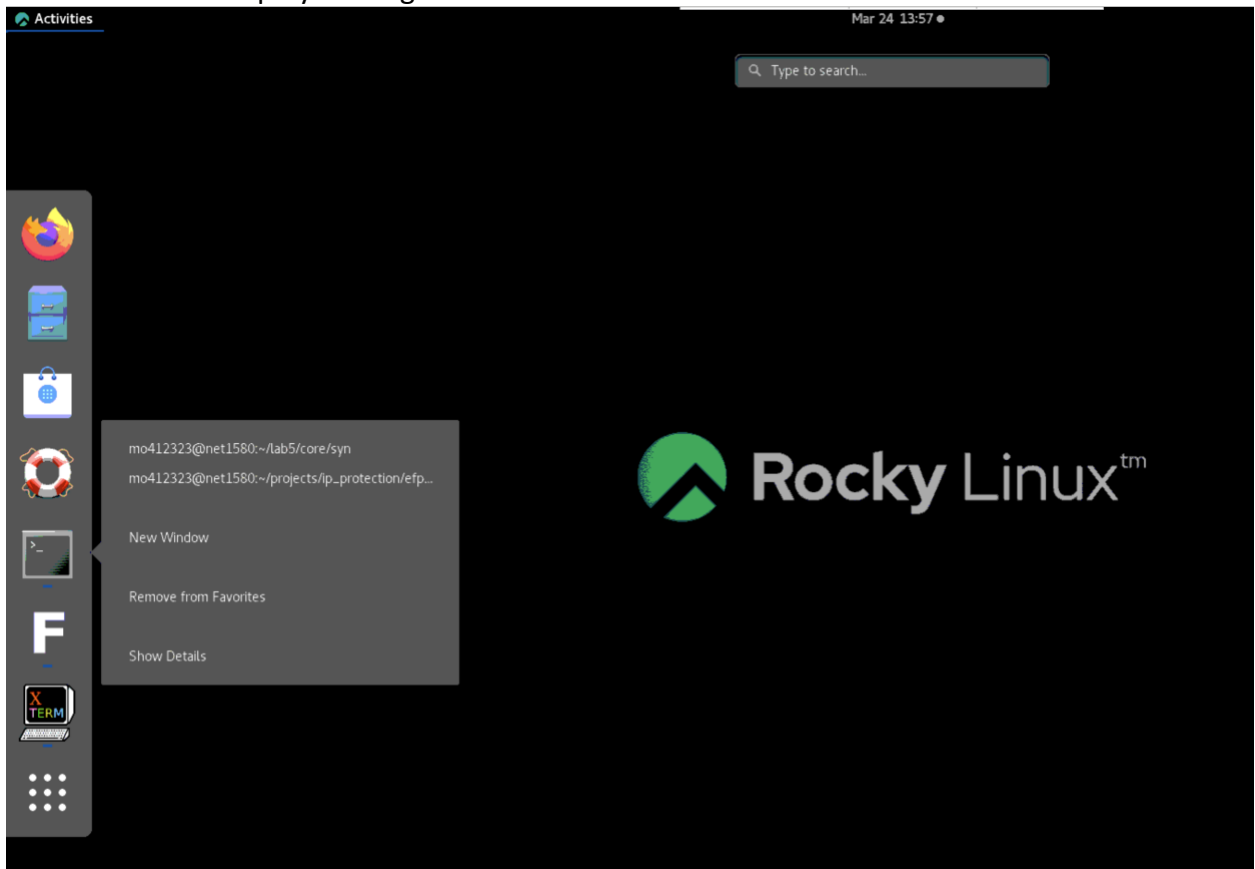
```
New 'net1580:3 (mo412323)' desktop is net1580:3
```

```
Starting applications specified in /home/net/mo412323/.vnc/xstartup  
Log file is /home/net/mo412323/.vnc/net1580:3.log
```

4. After the command is successfully completed, you should see new desktop being created with the name 'net1580:\$' which in this case is 'net1580:3'.
5. Now download and install VNC viewer from here –  
<https://www.realvnc.com/en/connect/download/viewer/>
6. Once the installation finishes, open the VNC Viewer application and type in the address name as – 'net1580.net.ucf.edu:\$' . Replace '\$' with the number you received, which in this case is 'net1580.net.ucf.edu:3'.



7. You might be asked to set a password. You can chose your desired password and save it.
8. Once you logged into VNC session, you can open gnome terminal or xterm from the 'Activities' menu bar on the top by clicking the 'New Window'.



9. Now, you can perform your desired tasks from the gnome terminal or xterm instead of MobaXterm. If you need to log out of computer, just close the VNC session and any command running in the gnome-terminal or xterm will keep running even if you turn off your local computer. **Do not close the gnome-terminal or Xterm where you are running a job.**