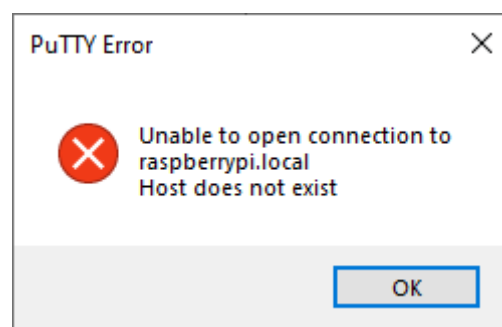


Connecting to the Raspberry Pi using Ethernet Cable:

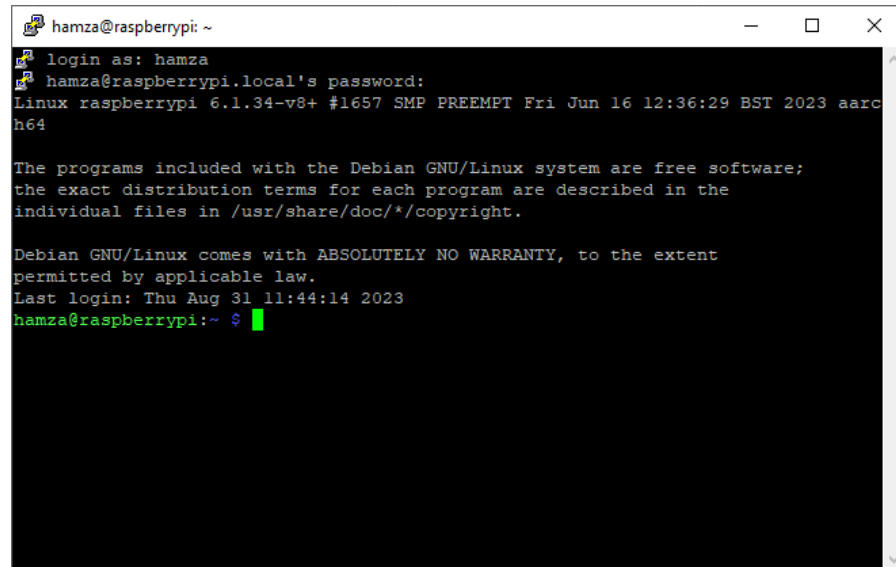
1. Connect the Ethernet cable to the Raspberry Pi and the computer.
2. Let the Raspberry Pi run for 1 minute to ensure it is booted up.
3. Run PuTTY from search bar "putty.exe". If the computer is not connected to Eduroam, the (UoN) puTTY, would not work. Therefore, default to normal putty executable.
4. In the Host Name (or IP address), write "raspberrypi.local". The Raspberry Pi has been configured to have SSH enabled. If it is flashed, then it will need to be reconfigured. If the following error occurs (in the figure below), then let the Raspberry Pi run for a bit to ensure that it is booted up.



5. If the connection is successful, this screen will show up:

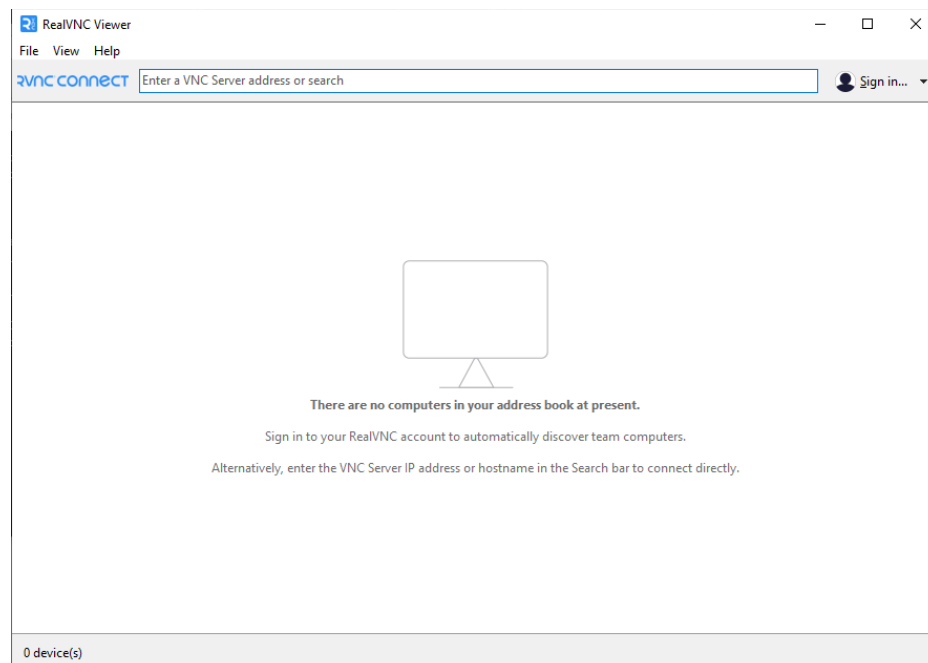


6. Use login as: "hamza" (this can be changed but will require a new flashed image) and password as "lab".
7. Once connected, it should show this:

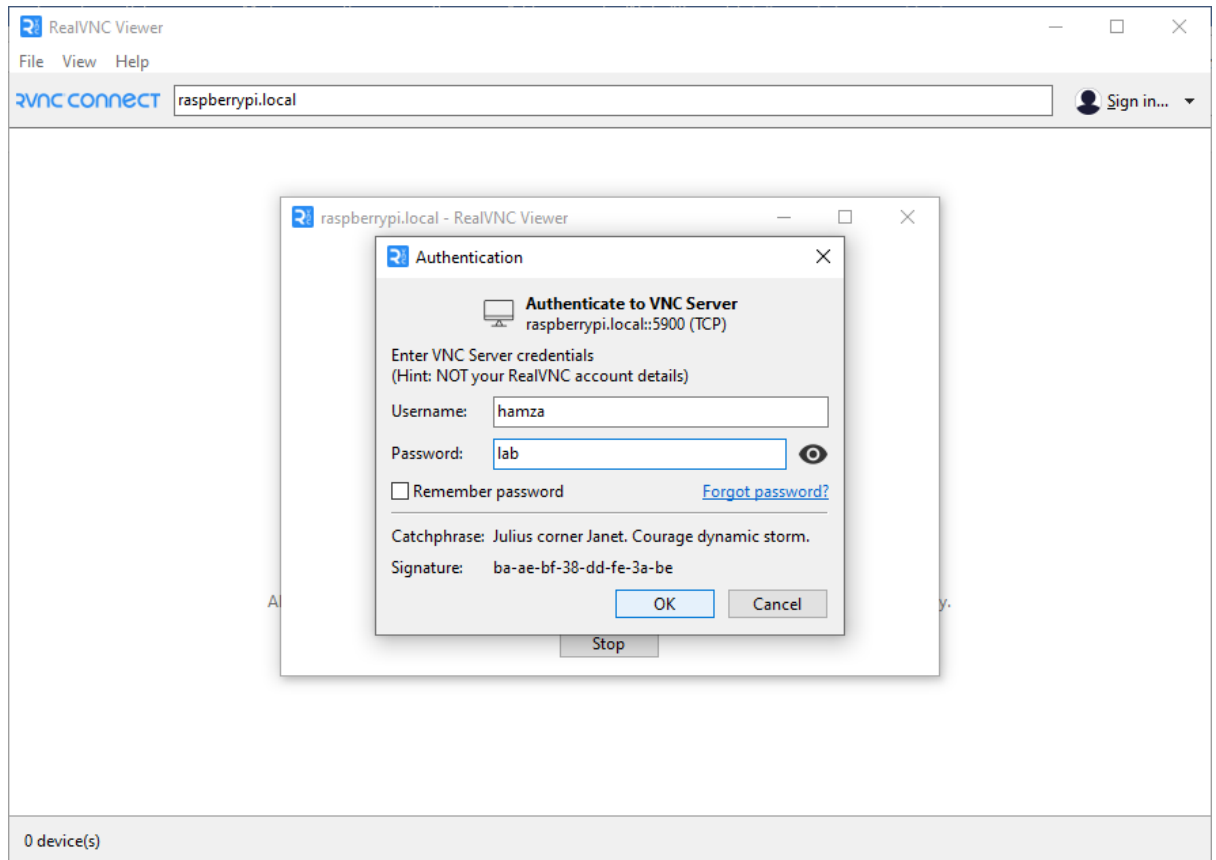


```
hamza@raspberrypi: ~  
login as: hamza  
hamza@raspberrypi.local's password:  
Linux raspberrypi 6.1.34-v8+ #1657 SMP PREEMPT Fri Jun 16 12:36:29 BST 2023 aarch64  
  
The programs included with the Debian GNU/Linux system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*/copyright.  
  
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent  
permitted by applicable law.  
Last login: Thu Aug 31 11:44:14 2023  
hamza@raspberrypi:~$
```

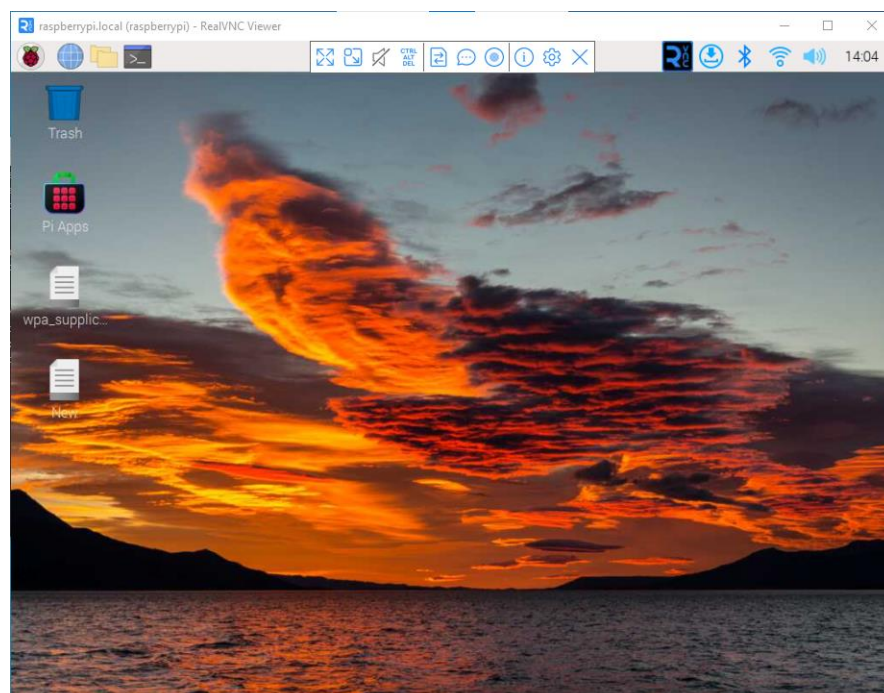
8. Now, you are connected to the Raspberry Pi CLI. To enable display, run "RealVNC Viewer" from the search bar. Again, (UoN) RealVNC Viewer would only work with Eduroam, so avoid that.
9. This should open up the following window:



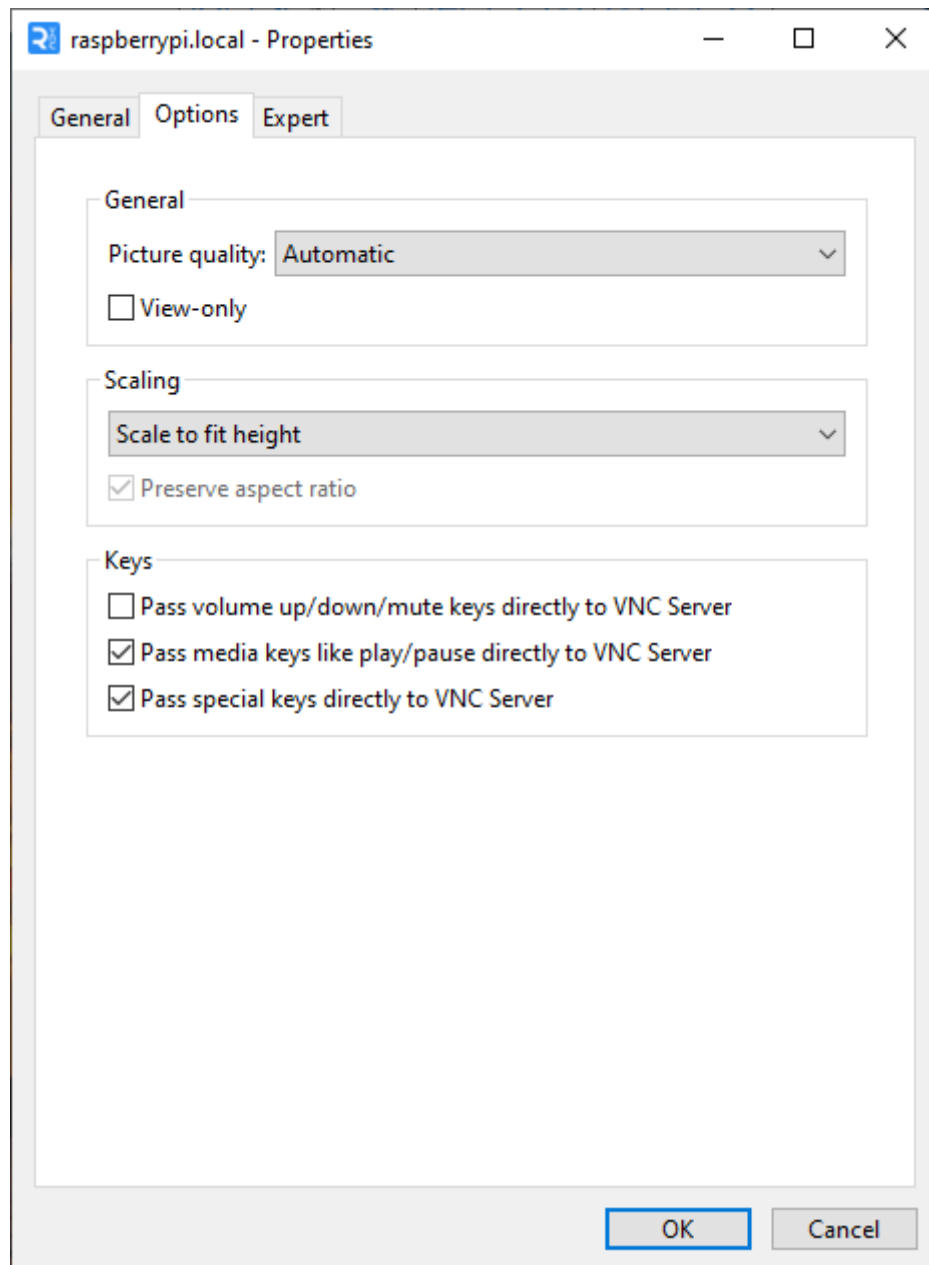
10. In the top search bar, enter the Raspberry Pi Host Name as before (raspberrypi.local). When successful, the following window will open:



11. Write the same username and password as before.
12. It should now display the Raspberry Pi, in the VNC window, looking like this:



13. Drag the mouse up, and go to the settings. Open the options, and set the scaling to fit height whilst preserving the aspect ratio (shown in figure). Once done, go to fullscreen.



14. For disconnection, just close the VNC, and the PuTTY window.