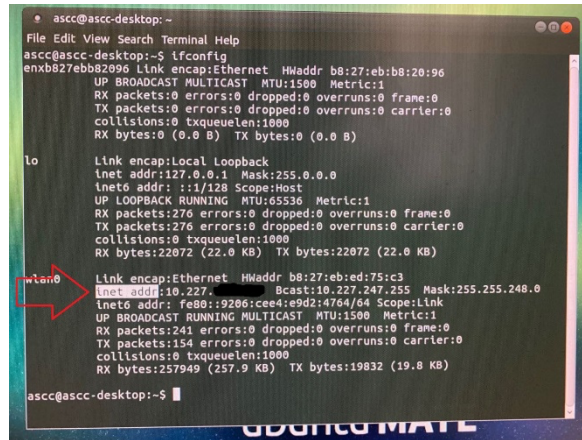


Set up SSH connection with Raspberry Pi using VS Code

1. Find your IP address.

In your Raspberry Pi, open a terminal, type: ifconfig, then you can find your ip address.



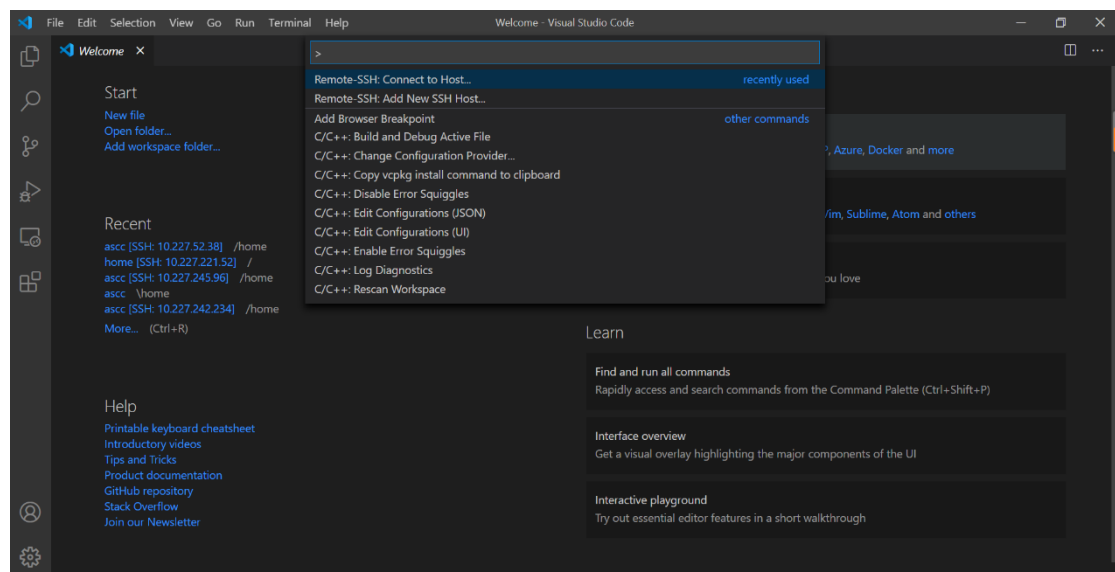
```
asc@asc-desktop: ~  
File Edit View Search Terminal Help  
asc@asc-desktop:~$ ifconfig  
enxb827ebb82096 Link encap:Ethernet HWaddr b8:27:eb:b8:20:96  
UP BROADCAST MULTICAST MTU:1500 Metric:1  
RX packets:0 errors:0 dropped:0 overruns:0 frame:0  
TX packets:0 errors:0 dropped:0 overruns:0 carrier:0  
collisions:0 txqueuelen:1000  
RX bytes:0 (0.0 B) TX bytes:0 (0.0 B)  
  
lo  
Link encap:Local Loopback  
inet addr:127.0.0.1 Mask:255.0.0.0  
inet6 addr: ::1/128 Scope:Host  
UP LOOPBACK RUNNING MTU:65536 Metric:1  
RX packets:276 errors:0 dropped:0 overruns:0 frame:0  
TX packets:276 errors:0 dropped:0 overruns:0 carrier:0  
collisions:0 txqueuelen:1000  
RX bytes:22072 (22.0 KB) TX bytes:22072 (22.0 KB)  
  
wlan0  
Link encap:Ethernet HWaddr b8:27:eb:ed:75:c3  
inet addr:10.227.247.255 Bcast:10.227.247.255 Mask:255.255.248.0  
inet6 addr: fe80::9206:cee4:e9d2:4764/64 Scope:Link  
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1  
RX packets:241 errors:0 dropped:0 overruns:0 frame:0  
TX packets:154 errors:0 dropped:0 overruns:0 carrier:0  
collisions:0 txqueuelen:1000  
RX bytes:257949 (257.9 KB) TX bytes:19832 (19.8 KB)  
  
asc@asc-desktop:~$
```

2. run the following command in the terminal:

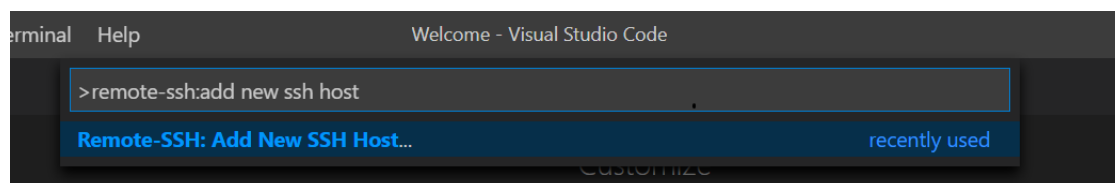
sudo service ssh start

3. Set up connection

a) Switch the monitor to DP mode. In Windows, open VS code. Press “shift+ctrl+p” to get this window.



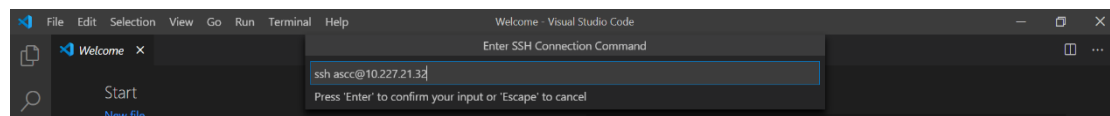
b) Then type: “remote-ssh:add new ssh host” and click it.



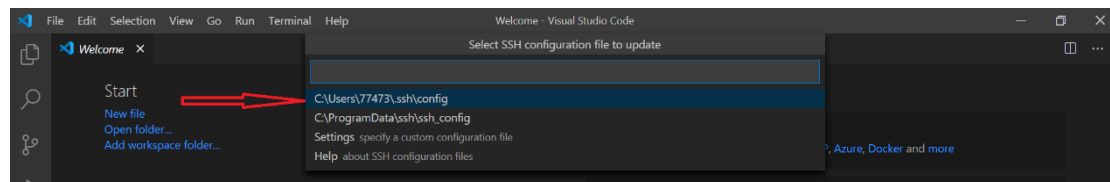
If you cannot find the ‘Remote-SSH’, Please install it as follows:



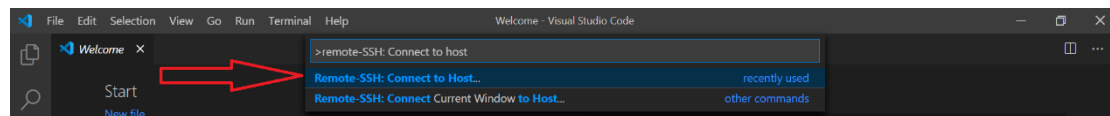
c) Input your information. For example, if your SSH host name is “ascc” and its IP is “10.227.21.32”, you need to input “ssh ascc@10.227.21.32”. Then press ‘Enter’. If you are using Raspberry Pi OS, the host name is “pi”.



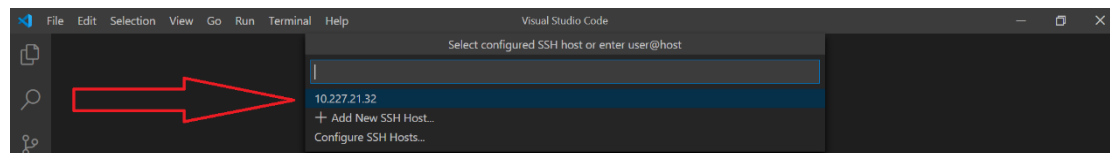
d) select ssh configuration file to update.



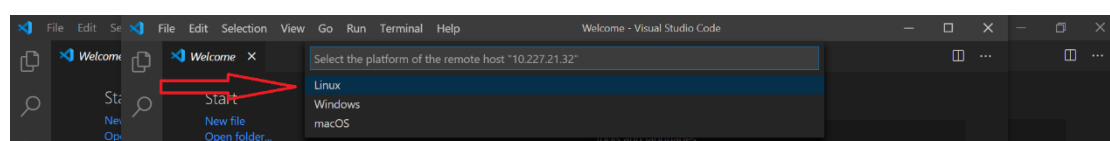
e) Press “shift+ctrl+p”, then search “remote-SSH: connect to host” and click it.



f) click your IP.



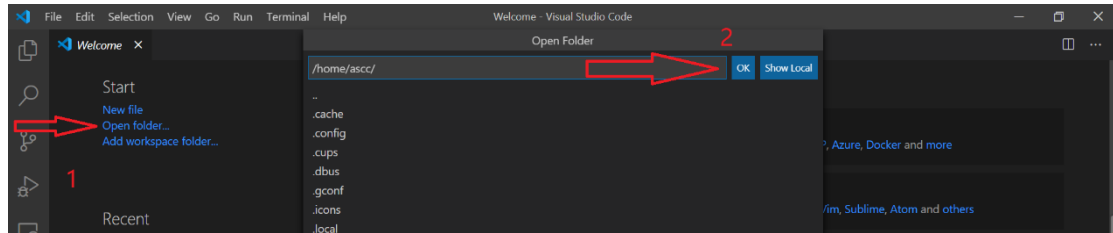
g) Chose “Linux”



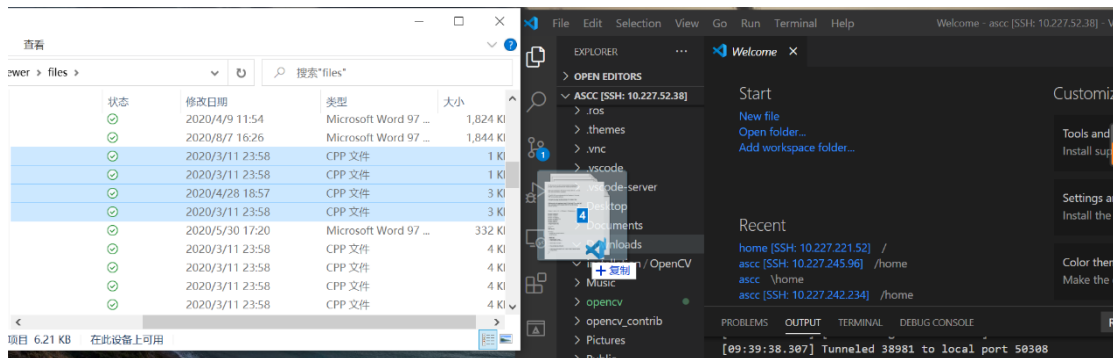
h) Input the password of your Pi, then done.

Upload and download code using VS Code

1. Once the SSH connection is built, click “open folder” and chose a folder, then click “OK”. After that you will be asked to input your password again.



2. Upload codes to VS Code from local machine to Raspberry Pi. Use your mouse to drag the files you need to a folder.



3. Download codes from VS Code to local machine. Select the file you need to download, right-click and click download.

