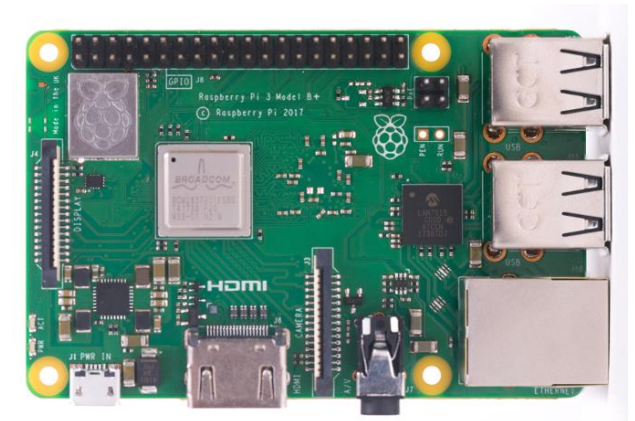# VS Code & Remote SSH

For developing on the Raspberry Pi
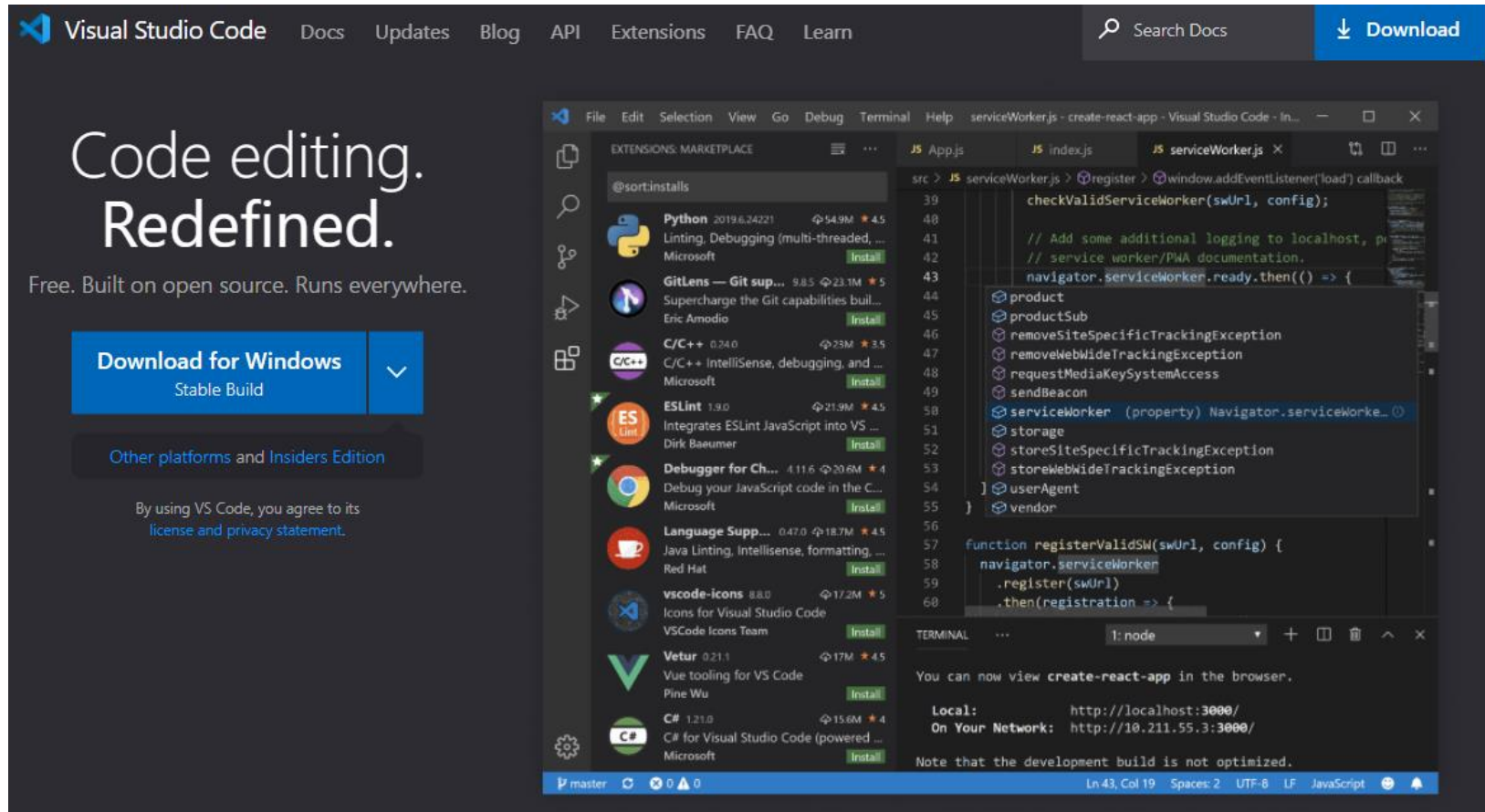
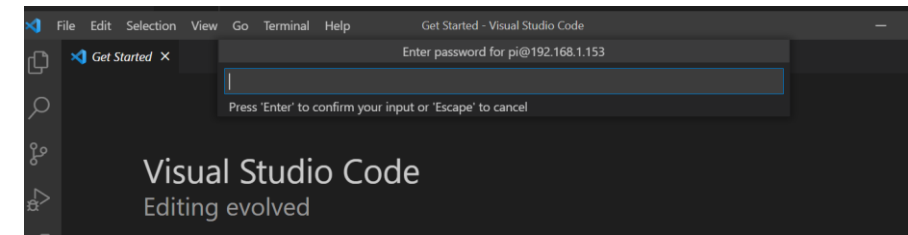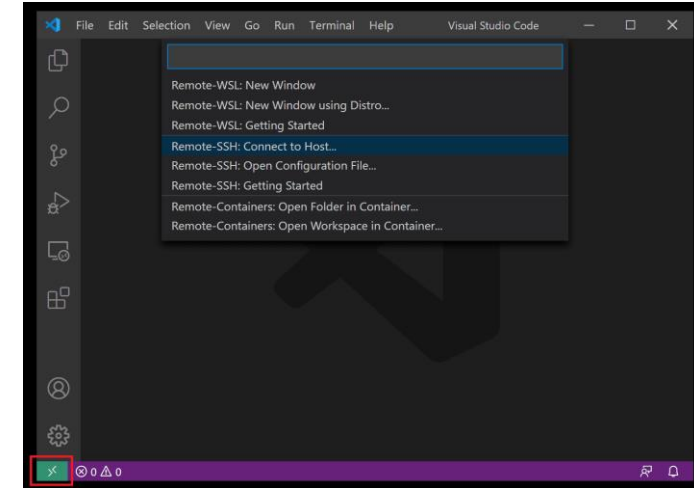# VS Code

- IDE that's Extension based

Visual Studio Code Remote - SSH

- The Remote - SSH extension lets you use any remote machine with a SSH server as your development environment.
- This can greatly simplify development and troubleshooting in a wide variety of situations. You can:
  - Develop on the same operating system you deploy to or use larger, faster, or more specialized hardware than your local machine.
  - Quickly swap between different, remote development environments and safely make updates without worrying about impacting your local machine.
  - Access an existing development environment from multiple machines or locations.
  - Debug an application running somewhere else such as a customer site or in the cloud.
- Official Tutorial Here: https://code.visualstudio.com/docs/remote/ssh-tutorial
- **INSTALL IT IF YOU WANT TO USE IT!**

Connect using SSH

- When installed, an indicator will appear on the bottom-left corner of the Status bar. This indicator tells you in which context VS Code is running (local or remote). Click on the indicator to bring up a list of Remote extension commands.

- Choose the **Remote-SSH: Connect to Host** command and connect to the host by entering connection information for your Raspberry Pi in the following format: pi@192.168.1.234 (use your pi's IP address.

- You'll be prompted for the password (and asked if you trust the cert)

- VS Code will open a new window (instance).
- You'll then see a notification that the "VS Code Server" is initializing on the SSH Host. This might take a few minutes
- You'll know you're connected to the Rpi by looking at the indicator in the Status bar. It'll shows the hostname/IP address of your Rpi when connected.

Remote File Explorer

- Click on the Explorer icon and select "Open Folder" to connect the explorer to the Rpi

- You should then be able to see/interact with your file system on the RPi
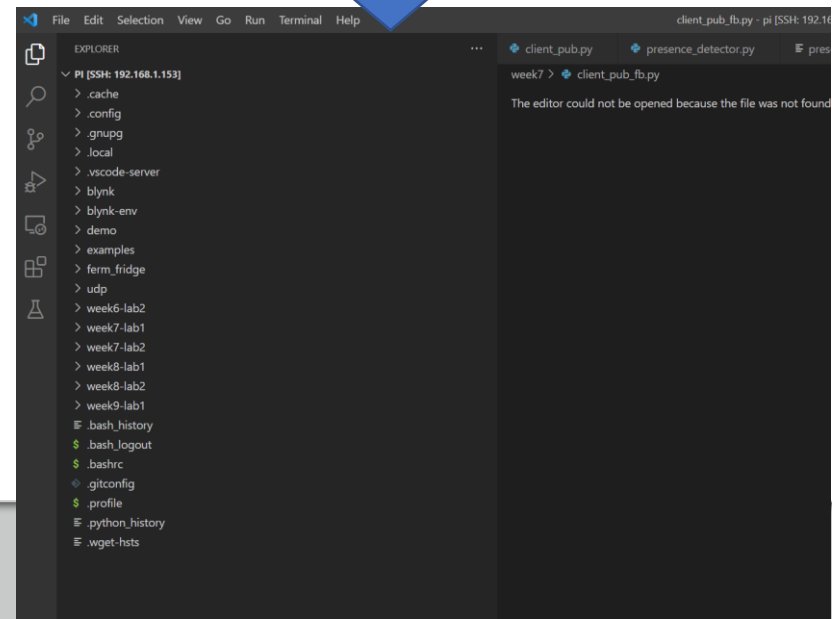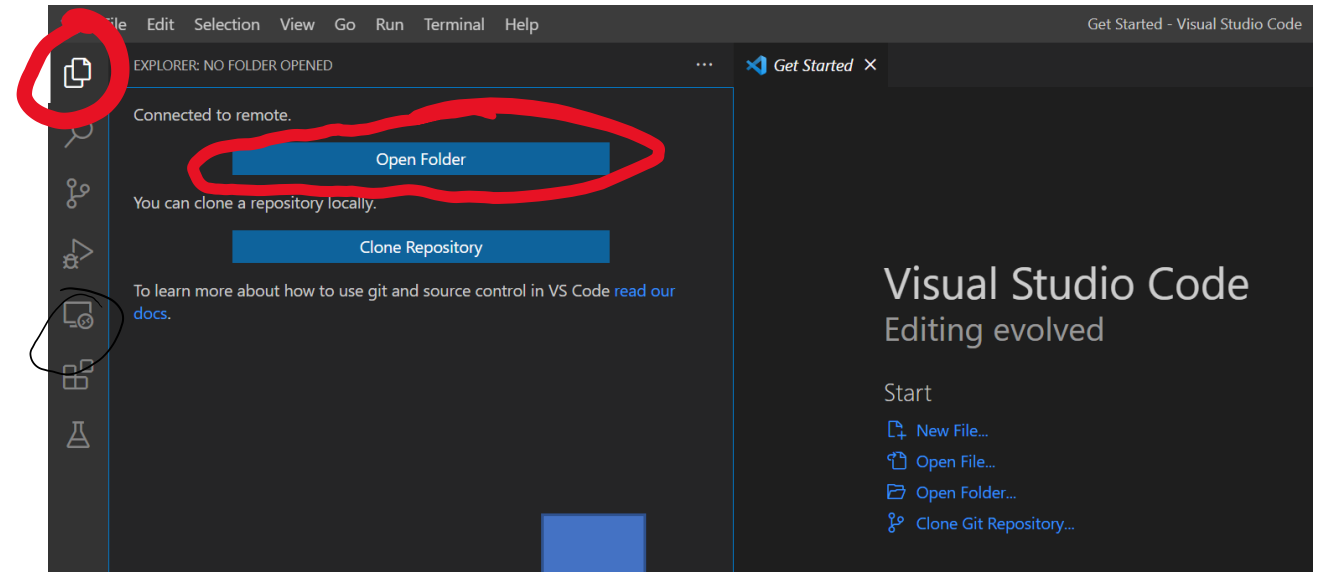
Finally!!!

File System on Rpi.
Navigate folders
Create/Delete files
Select Files to edit

Edit Remote Files
like it's on your
local host

Remote Terminal
on the RPi