Workshop Lab Environment Setup

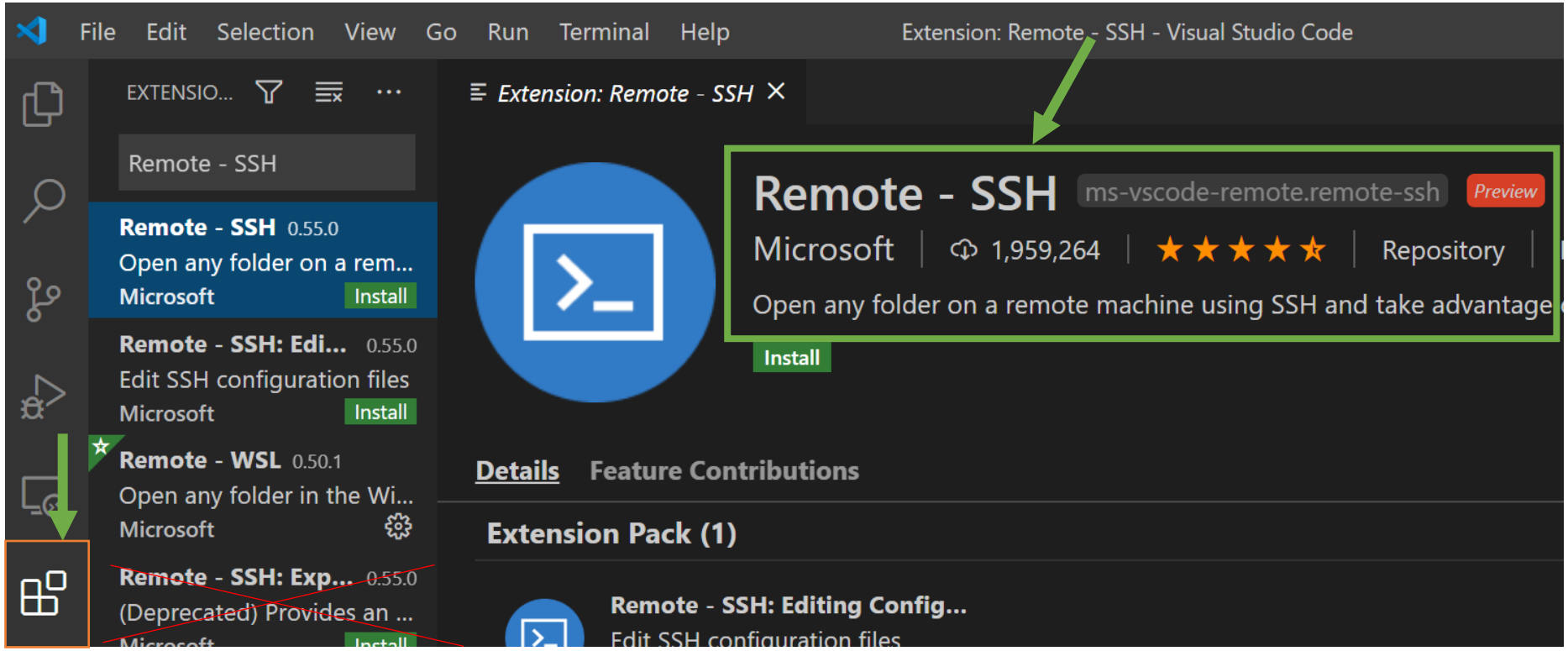
Requirements

- Visual Studio Code
  - https://code.visualstudio.com/download

Install **Remote – SSH** Extension for VS Code. This will be used to connect to the lab environment that's already created for you on a Linux Machine via SSH.

Make sure to install the correct extension as below (not the deprecated one).

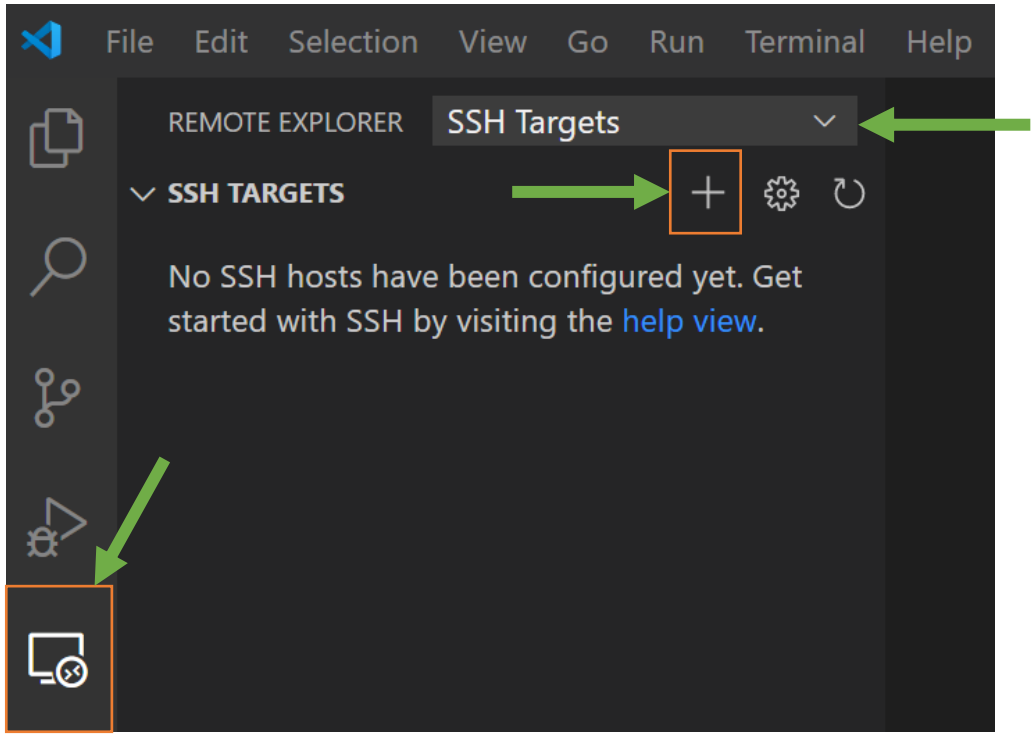
Reload VS Code if prompted.



Click on the **Remote Explorer** Icon (Monitor Icon) and ensure **SSH Targets** option is selected on the dropdown.

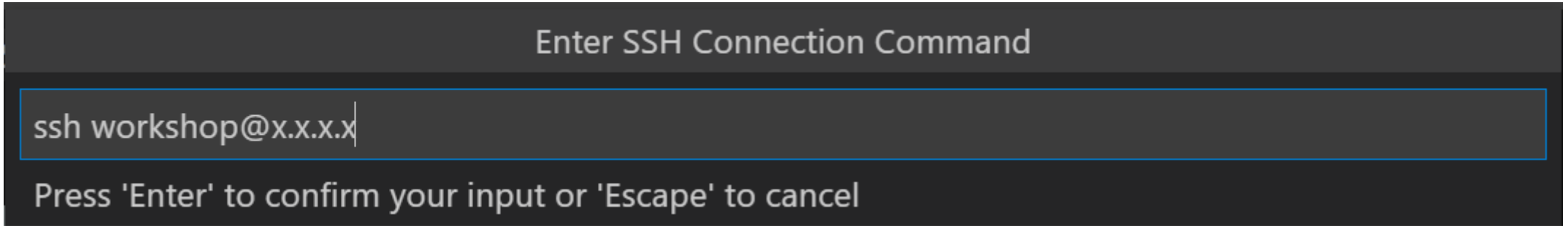
Hover just below the drop-down to see the buttons to Add a Target.

Click on the **+** button to add an SSH target.

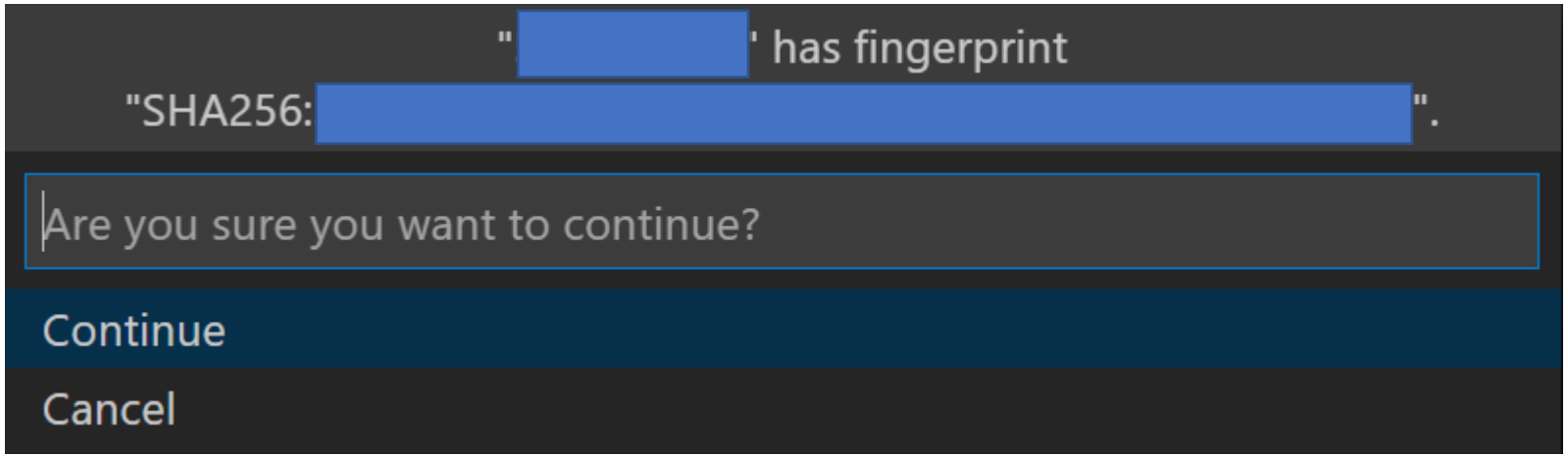


You will be prompted to connect to remote machine via SSH

Use the provided username and IP-Address in the format “ssh username@ip-address” and then press Enter

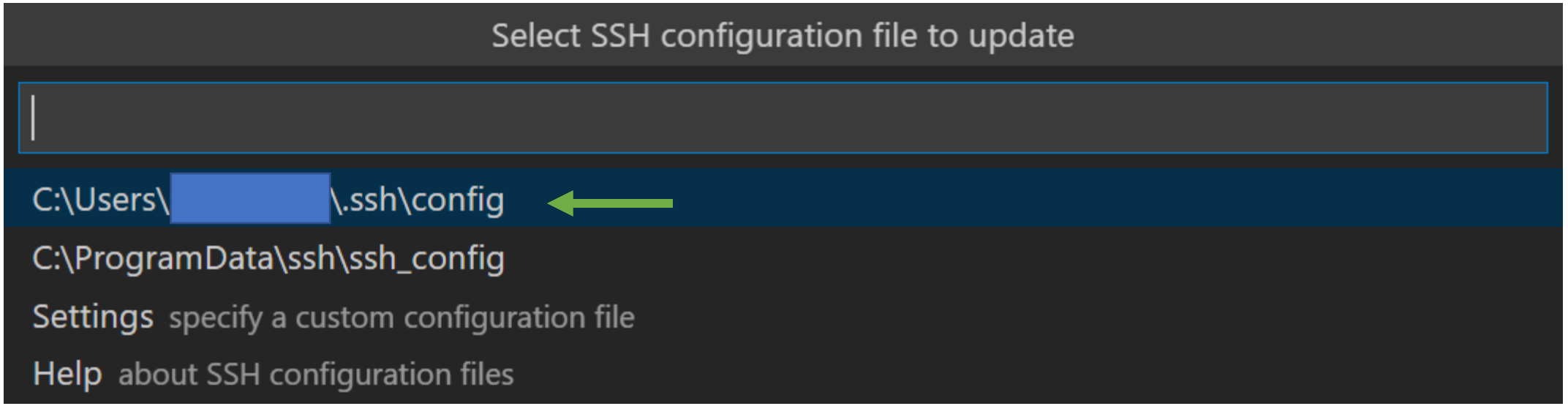


If prompted for SHA256 fingerprint configuration, choose **Continue**

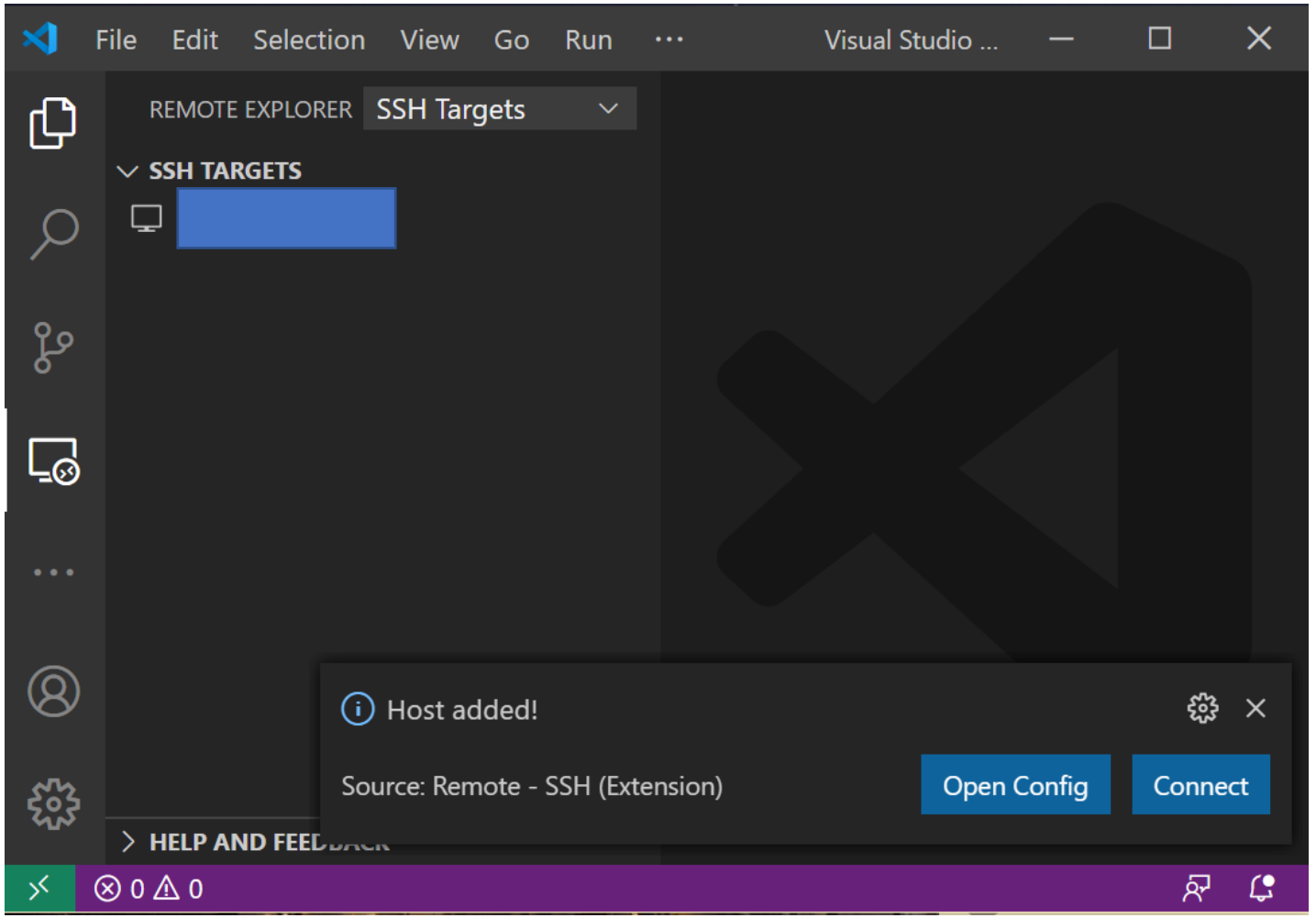


You will be asked about which SSH Config file to update. Remote Explorer uses this file to remember the SSH Targets when you launch VS Code next time.

Choose the first one or the one you prefer, and press Enter.

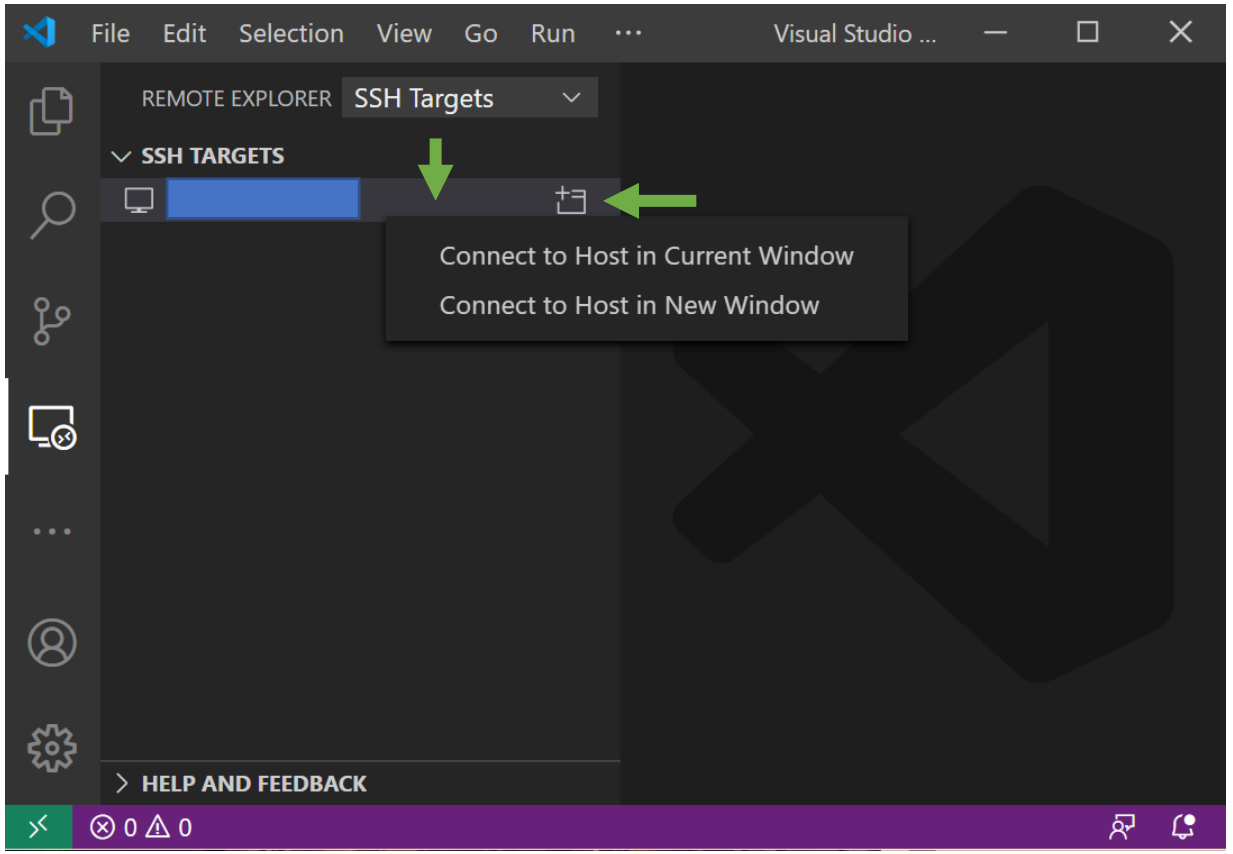


Once the Host is added, the Remote Target should now appear under SSH Targets along with a confirmation pop-up at the bottom- right as below.



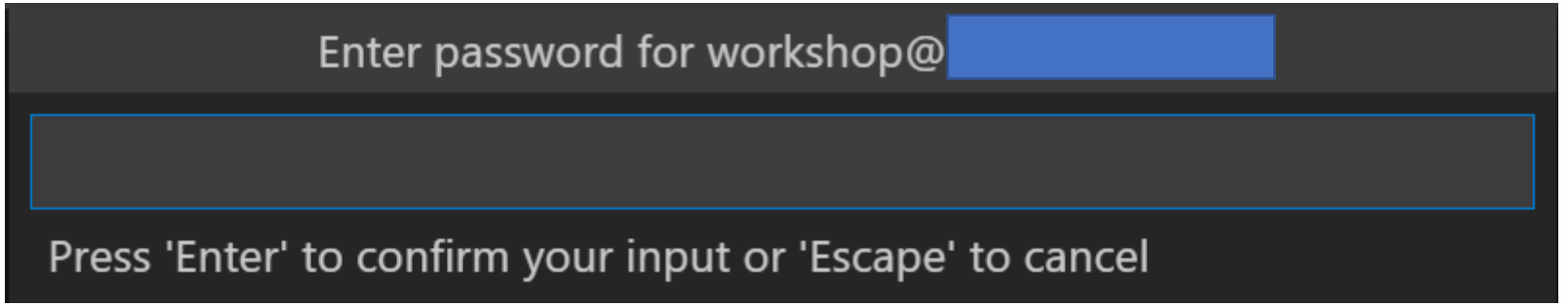
To Connect to the remote Host, **Right-click** next to the target and choose one of the options to either open it in same vs-code window or in a new window)

(or) Alternatively, you can also choose the connect icon on the right.



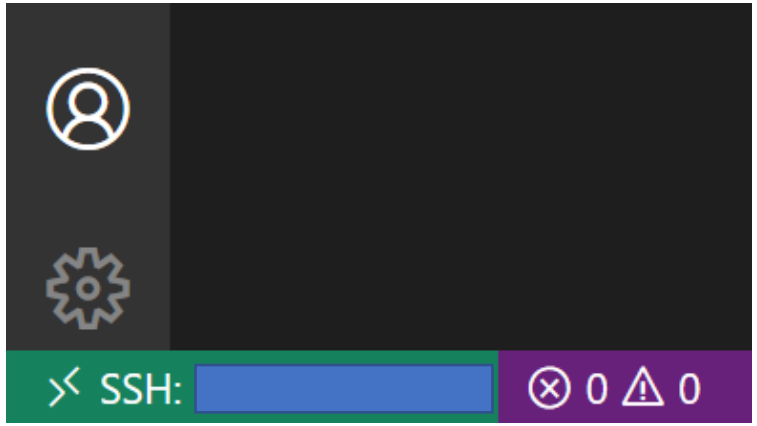
Choose **Linux** when prompted for the platform of Remote Host and then press Enter.

Enter the provided password when prompted and then press Enter

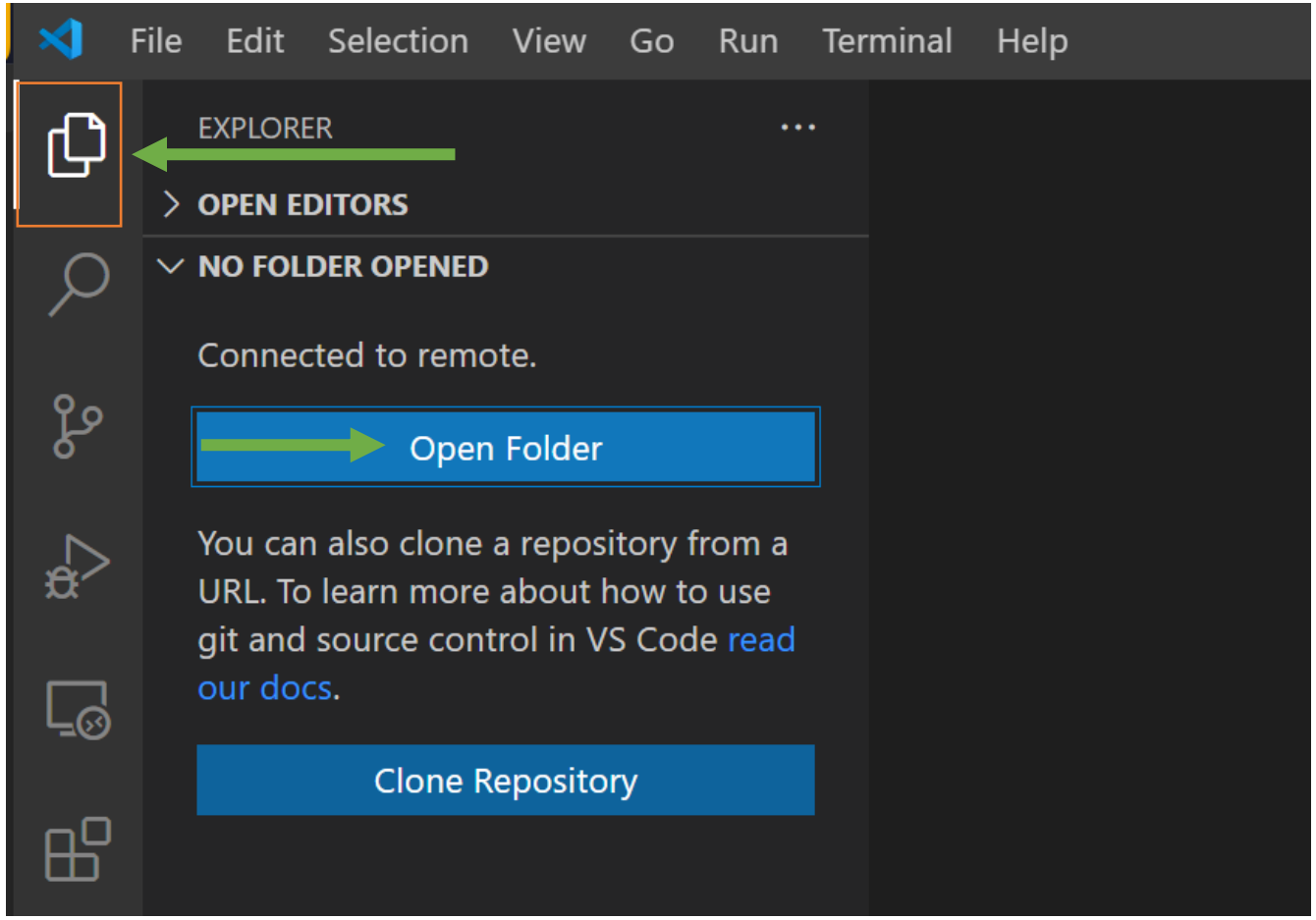


Once the connection is established, VS Code will show the Target (remote SSH host in this case) it's connected to on the bottom-left on status bar.

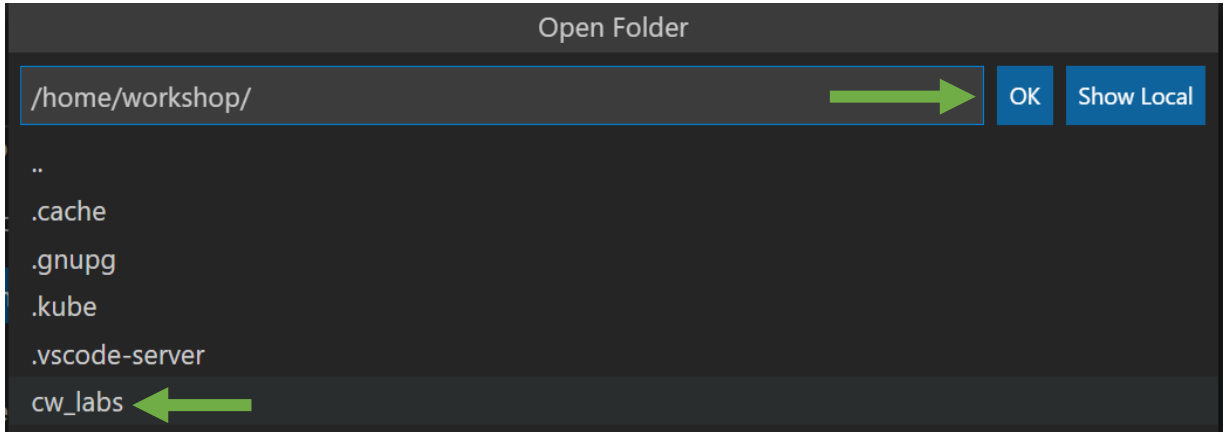
From here on, you can develop on the remote host just like you would on your local machine.

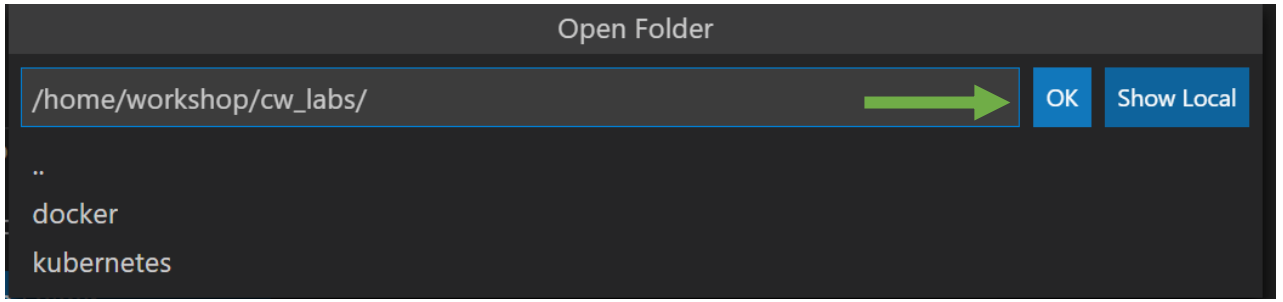


To open the file system on Remote Host, click on **Explorer icon** and then Choose **Open Folder**



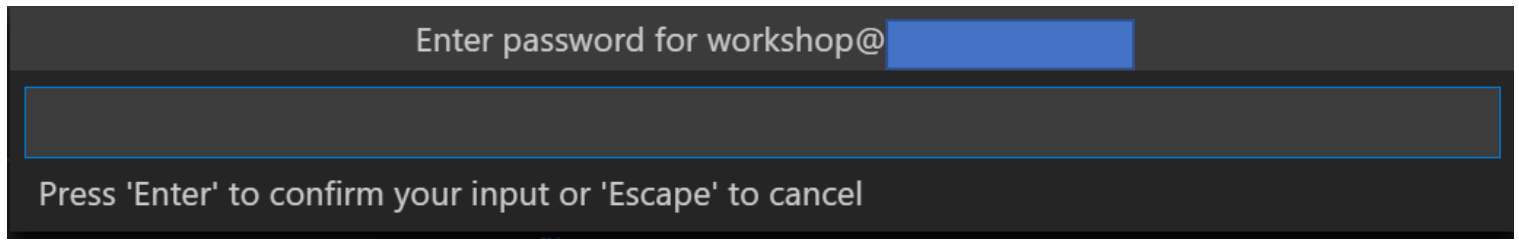
Choose the **cw_labs** directory and then click OK, and then OK again when prompted.





(or) Alternatively, to open home directory (one level up), you can click OK without choosing cw_labs.

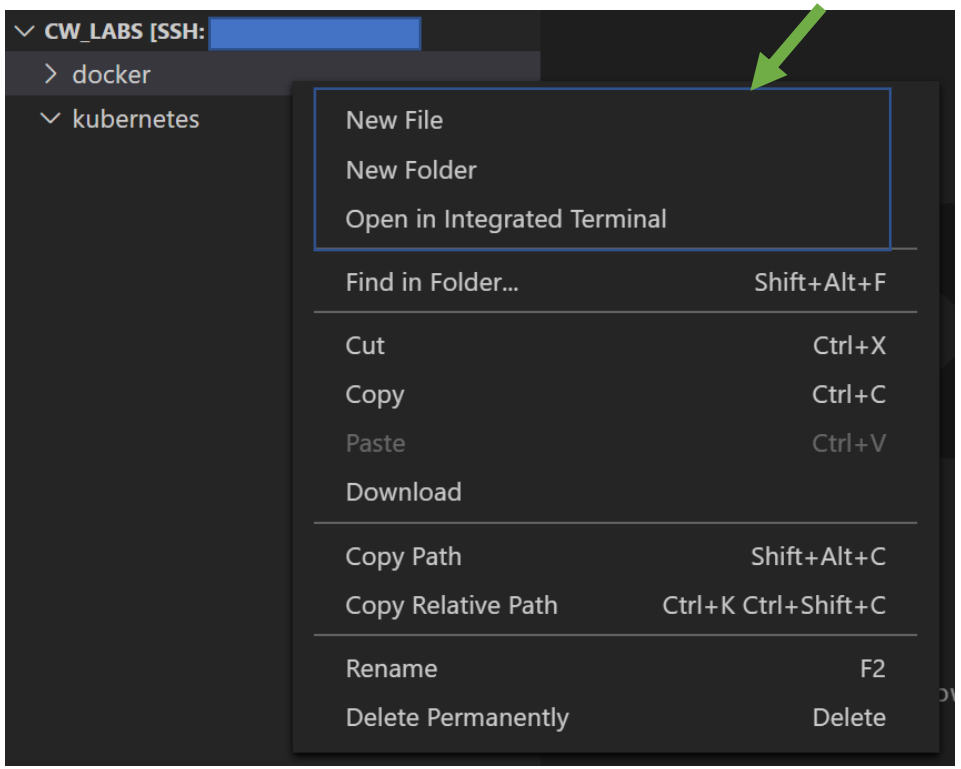
Enter the provided password when prompted.

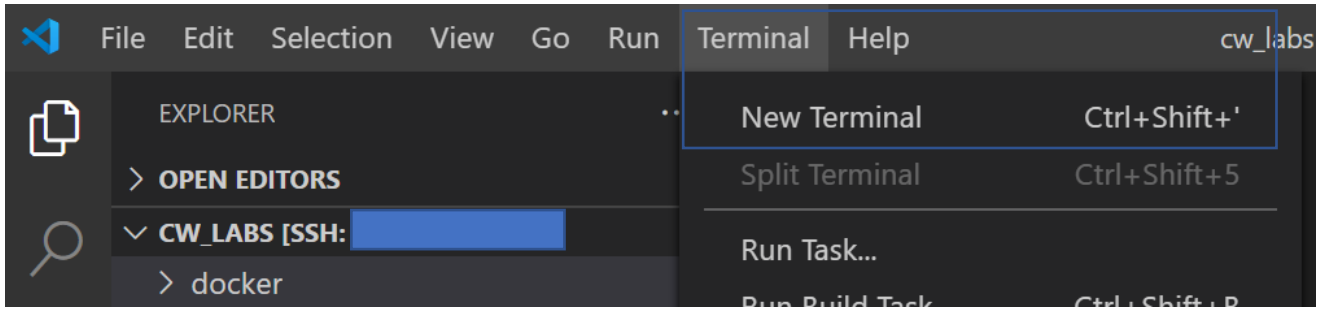


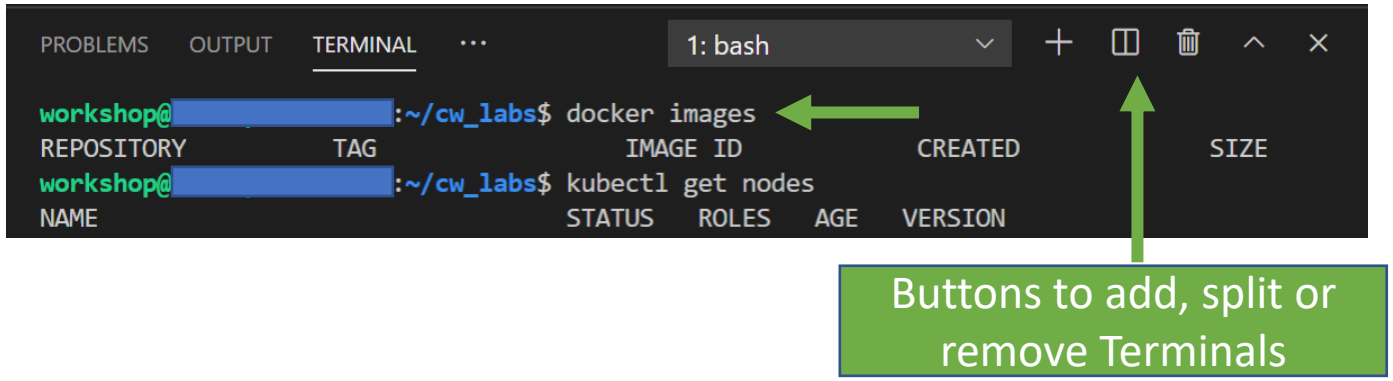
Now the explorer should open the directory as below.

From here onwards, it's very much like developing on local machine. You can create new files, directories or launch a terminal on the remote host all from VS Code.

All the essential tools for the lab are already installed for you on the remote host.



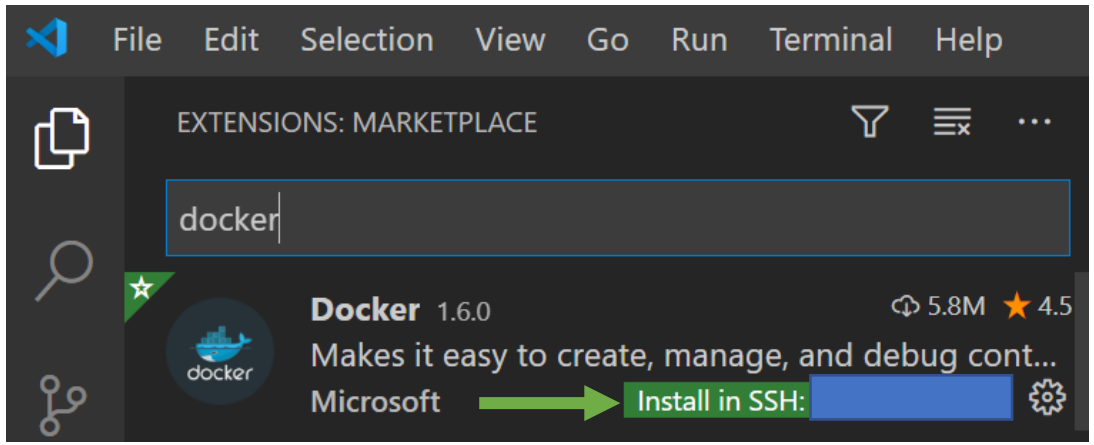


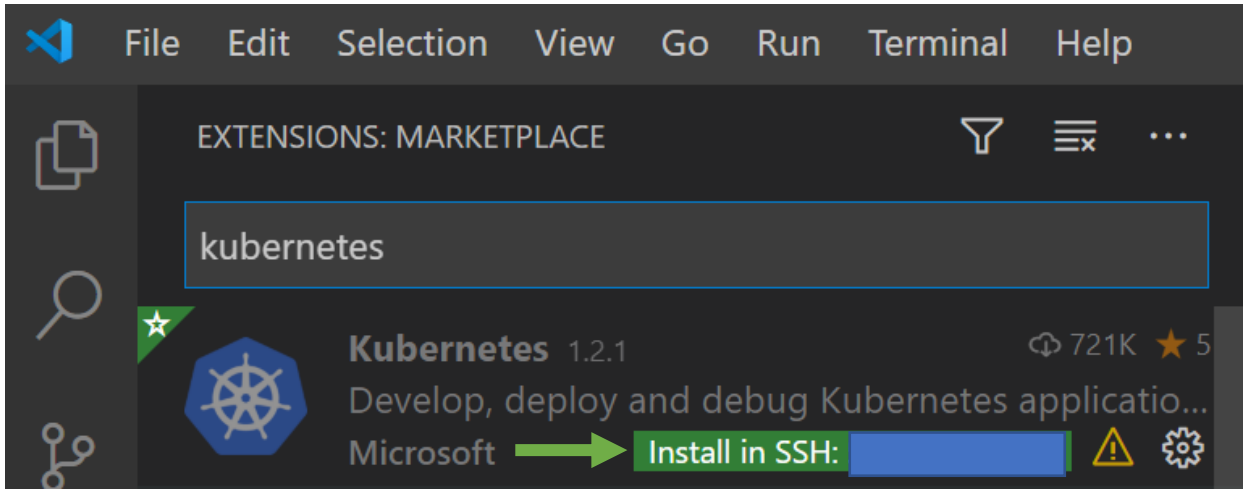


You can also install VS Code extensions you prefer on the remote host.

For this lab, Docker and Kubernetes extensions are recommended.

Make sure to install them on remote host as shown below. The “Install” button will show whichever SSH host you are connected to.





You are now all set to get started with labs.

If you are new to VS Code, take a quick look at link below to familiarise yourself.

- https://code.visualstudio.com/docs/getstarted/tips-and-tricks

To know more about Remote development on VS Code, see: https://code.visualstudio.com/docs/remote/ssh