RK3399pro 通过 VScode ssh 远程调试

1. 查看开发板的 ip

```
toybrick@debian10:~

File Edit Tabs Help

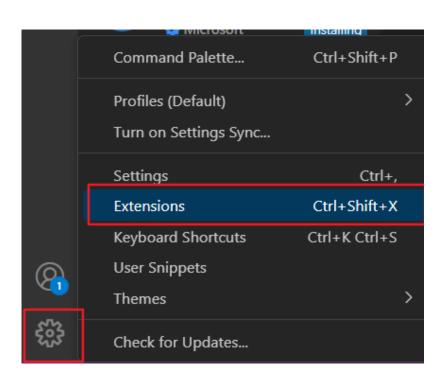
toybrick@debian10:~5 ip a

1: lo: <loOPBACK,UP,LOWER UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
    valid lft forever preferred lft forever
    inet6::1/128 scope host
    valid lft forever preferred lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER UP> mtu 1500 qdisc pfifo_fast state UNKNOWN group default qlen 1000
    link/ether 96:e9:fc:67:4e:c8 brd ff:fff:fff:fff
    inet 192.168.69.2/24 brd 192.168.69.255 scope global dynamic noprefixroute eth0
    valid lft 83122sec
    inet6 fe80:c372:885b:5b13:ad28/64 scope link noprefixroute
    valid lft forever preferred lft forever

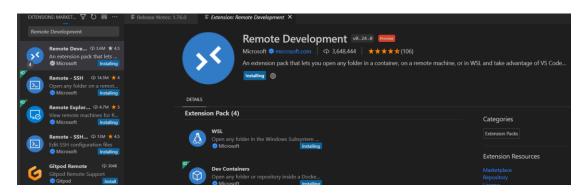
3: wlan0: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc mq state DOWN group default qlen 1000
    link/ether 9a:cc:74:d6:2d:c0 brd ff:ff:ff:ff:ff:ff
4: p2p0: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc mq state DOWN group default qlen 1000
    link/ether ae:70:b0:51:5d:29 brd ff:ff:ff:ff:ff:ff

toybrick@debian10:~$
```

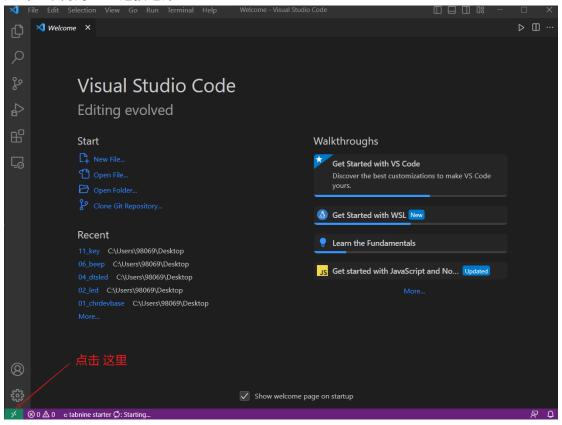
- 2. 确定本机(win10)安装了 ssh 服务(ssh 客户端和 ssh 服务器)并开启,这里本地 win10 使用 ssh 客户端, RK3399Pro 作 ssh 服务器。
- 3. 在并在 vscode 中安装 ssh 插件。点击 vsode 左下角设置图标选择 Extension 选择。

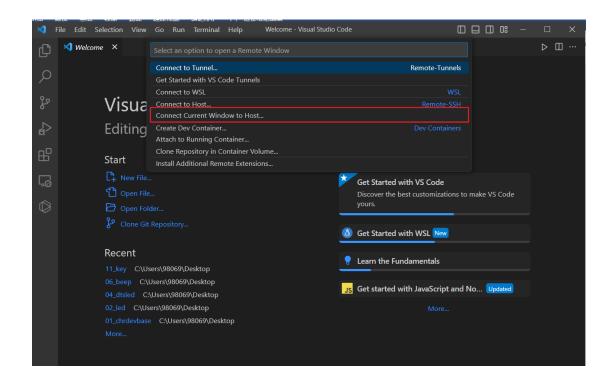


4. 搜索 Remote Development 并安装

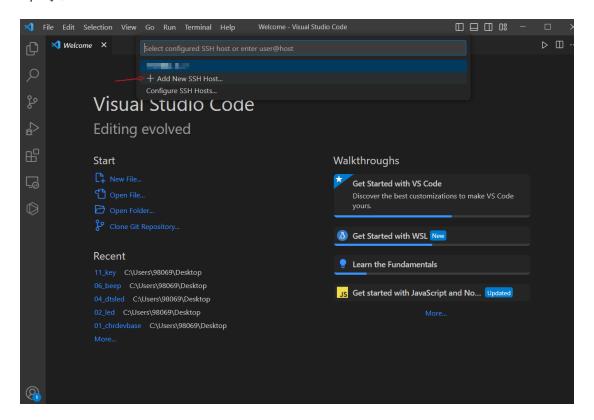


点击左下角的 ssh 连接选择:





5. 选择添加 ssh,按照格式填写用户名@IP 地址回车,等待输入密码即可。



连接过程中若出现下列问题:

```
oybrick@192.168.69.2's passwo
[14:41:10.076] Showing password prompt
[14:41:10.563] Got password response
[14:41:10.563] "install" wrote data to terminal: ""
[14:41:10.577] >
[14:41:10.596] > toybrick@192.168.69.2: Permission denied (publickey,password).
 > 过程试图写入的管道不存在。
[14:41:11.926] "install" terminal command done
[14:41:11:927] Install terminal quit with output: 过程试图写入的管道不存在。
[14:41:11:927] Received install output: 过程试图写入的管道不存在。
 14:41:11.927] Failed to parse remote port from server output
[14:41:11.929] Resolver error: Error:
   at m.Create (c:\Users\98069\.vscode\extensions\ms-vscode-remote.remote-ssh-0.98.0\out\extension.js:1:584388)
    {\tt at t.handleInstallOutput (c:\Wers\98069\.vscode\).} is: 1:582948)
    at t.tryInstall (c:\Users\98069\.vscode\extensions\ms-vscode-remote.remote-ssh-0.98.0\out\extension.js:1:681793)
    at async c:\Users\98069\.vscode\extensions\ms-vscode-remote-remote-ssh-0.98.0\out\extension.js:1:644041
    at async t.withShowDetailsEvent (c:\Users\98069\.vscode\extensions\ms-vscode-remote-remote-ssh-0.98.0\out\extension.js:1:647359)
    at async t.resolve (c:\Users\98069\.vscode\extensions\ms-vscode-remote.remote-ssh-0.98.0\out\extension.js:1:645091) at async c:\Users\98069\.vscode\extensions\ms-vscode-remote.remote-ssh-0.98.0\out\extension.js:1:720839
[14:41:11.948] ---
```

在 RK3399Pro 中进行 sshd 配置文件的修改:

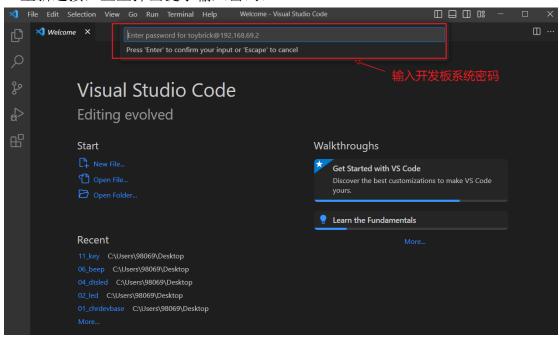
执行:

sudo vim /etcc/ssh/sshd config

打开配置文件后,找到 PasswordAuthentication yes 选项,将前面的#去掉即可。我这里的配置文件默认是 yes,若是 no,先修改为为 yes 再取消注释。保存退出。

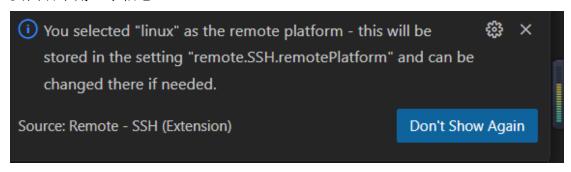
```
#MaxSessions 10
#PubkeyAuthentication yes
# Expect .ssh/authorized_keys2 to be disregarded by default in future.
#AuthorizedKeysFile
                       .ssh/authorized keys .ssh/authorized keys2
#AuthorizedPrincipalsFile none
#AuthorizedKeysCommand none
#AuthorizedKeysCommandUser nobody
# For this to work you will also need host keys in /etc/ssh/ssh known hosts
#HostbasedAuthentication no
 Change to yes if you don't trust ~/.ssh/known hosts for
 HostbasedAuthentication
#IgnoreUserKnownHosts no
Don't read the user's ~/.rhosts and ~/.shosts files
#IgnoreRhosts yes
# To disable tunneled clear text passwords, change to no here!
PasswordAuthentication yes <
PermitEmptyPasswords no
 Change to yes to enable challenge-response passwords (beware issues with
# some PAM modules and threads)
ChallengeResponseAuthentication no
# Kerberos options
```

6. 重新连接,直至弹出提示输入密码:



7. 连接成功

页面右下角显示信息



vscode 中进入 RK3399Pro 终端显示,,上面工具栏可选择文件代码进行编辑调试:

