

Keeping an SSH connection alive - Vscode connection

Do you get disconnected from your SSH session often?

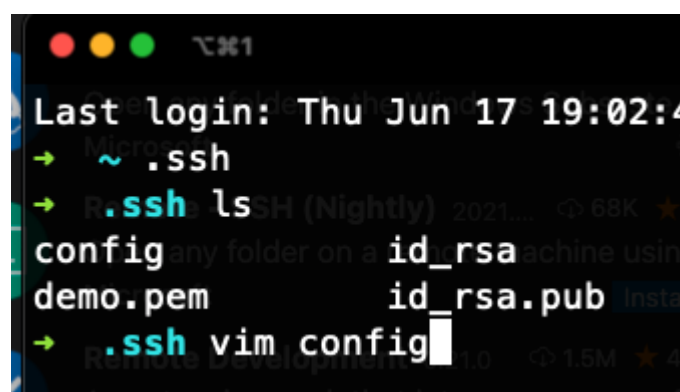
In your ~/.ssh/config we'll utilize the ServerAliveInterval declaration.

1. Go to terminal open .ssh directory (most probably for mac it is under /Users/<username> or for windows under C:\Users\<username>)



```
~ % cd .ssh
~/.ssh % ls
config          id_rsa
demo.pem        id_rsa.pub
~/.ssh %
```

2. use your editor open config



```
Last login: Thu Jun 17 19:02:4
~/.ssh % ls
config          id_rsa
demo.pem        id_rsa.pub
~/.ssh % vim config
```

3. write then save below script.

```
Host *
    TCPKeepAlive yes
    ServerAliveInterval 120
```

That declaration will send a packet every 120 seconds if the connection goes idle.

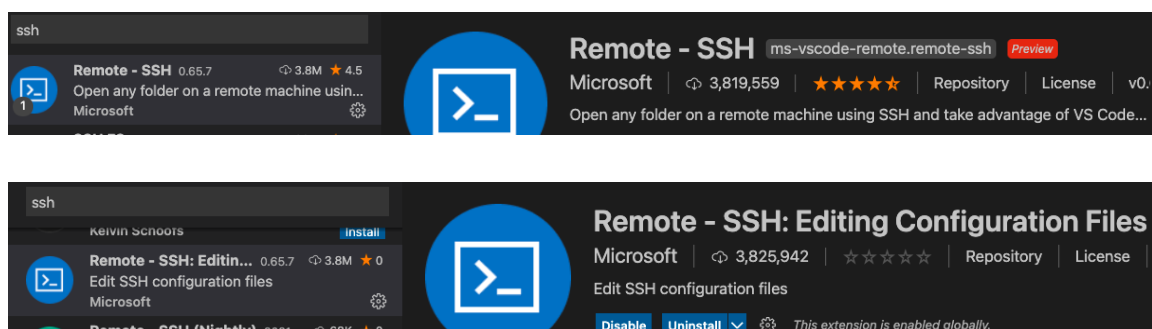
4. it is better to keep your *.pem files under .ssh directory. Copy your pem keys to under .ssh directory.

```
→ .ssh ls *.pem
demo.pem    web_key.pem
→ R. ssh
```

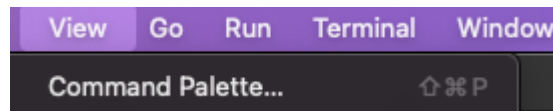
From this point, that will keep alive your ssh connection and it will ensure the connection stays open.

You can use your VSCODE to connect directly your EC2 (instances)

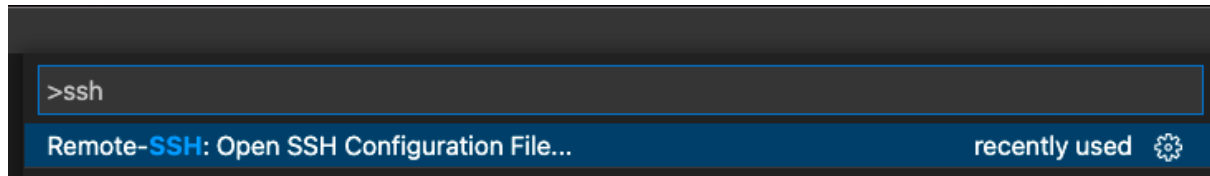
1. Open your Vscode and enable extensions



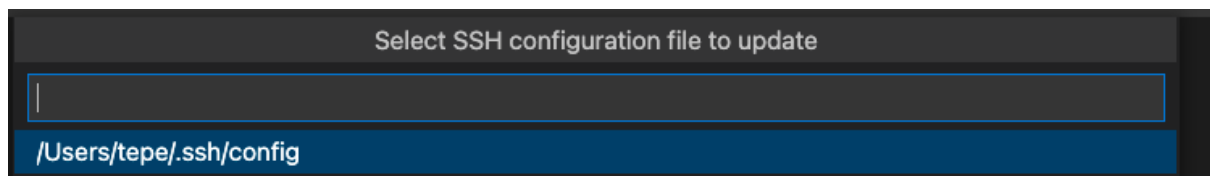
2. Click View ==> Command Palette



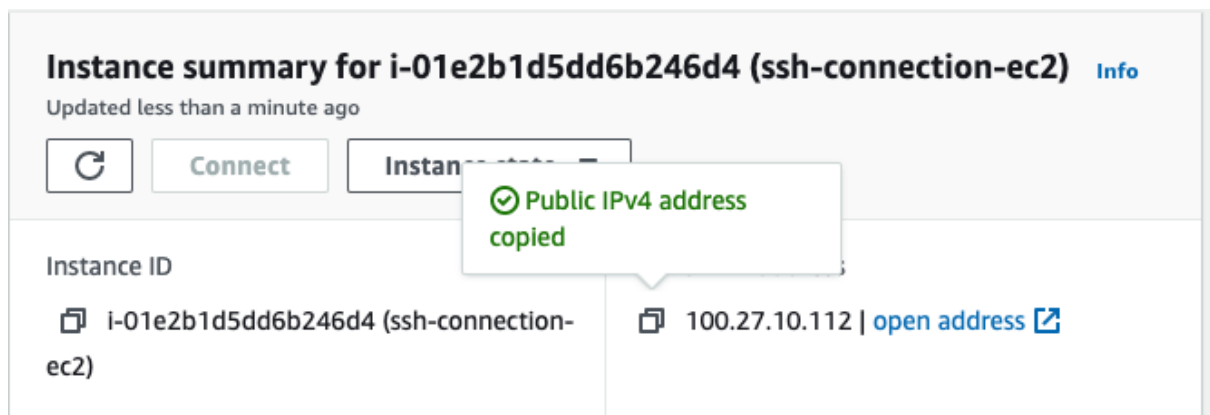
3. on command palette write ssh then choose below option



4 . Chose below option (It is the same file we reconfigured at the begining by using Terminal, this is another way by using Vscode!

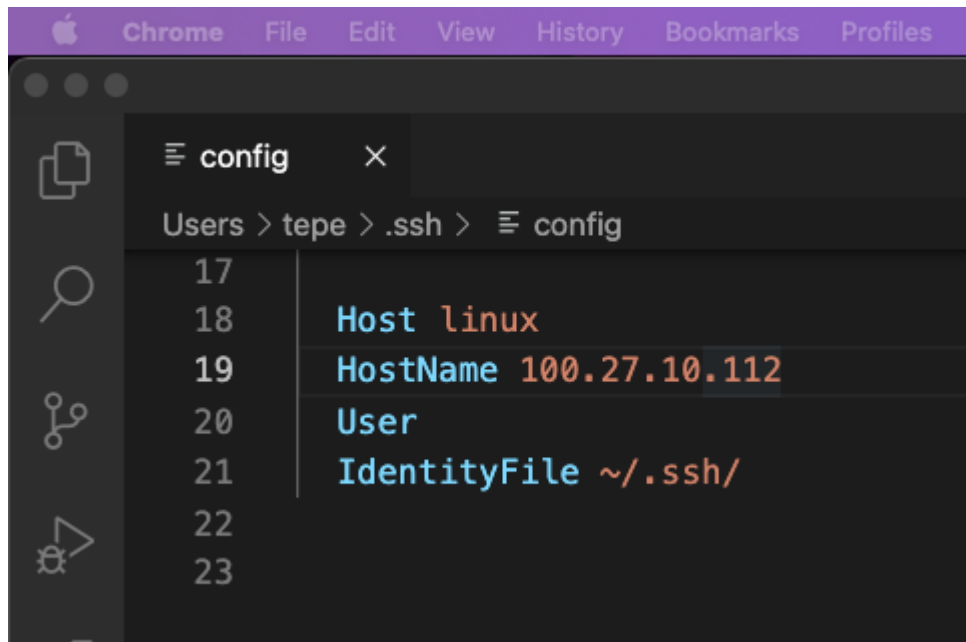


5 . Now, open your EC2 and copy Public IPv4 and go next step



6. Write below script in your .ssh/config file (same we did at the beginning)

EC2 is linux so I will write Host linux, paste ipv4 number next to host number



```
17
18 Host linux
19 HostName 100.27.10.112
20 User
21 IdentityFile ~/.ssh/
22
23
```

7. Now copy from AWS your user name

Connect to instance [Info](#)

Connect to your instance i-01e2b1d5dd6b246d4 (ssh-connection-ec2) using any of these options


EC2 Instance Connect

Session Manager


SSH client

EC2 Serial Console

Instance ID

 i-01e2b1d5dd6b246d4 (ssh-connection-ec2)

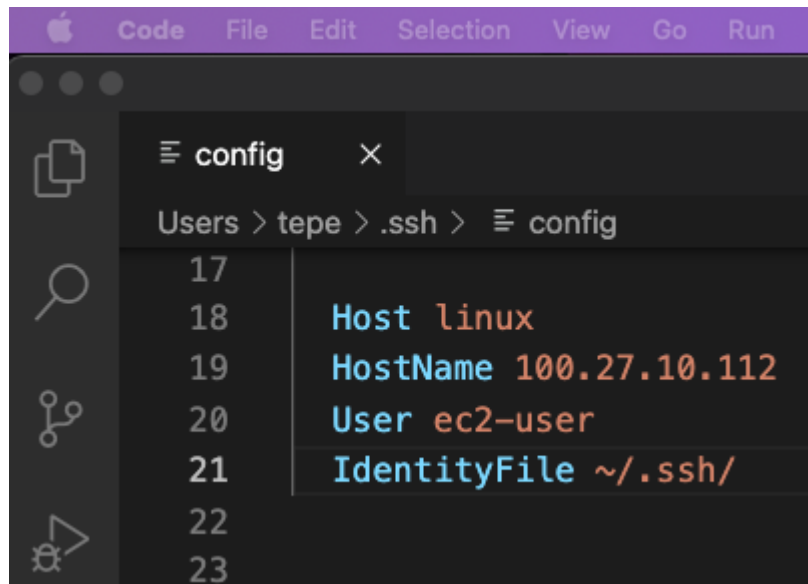
Public IP address

 100.27.10.112

User name

Connect using a custom user name, or use the default user name ec2-user for the AMI used to launch the instance.

8. paste next to User



The image shows a VS Code editor window with a purple title bar. The menu bar includes Apple logo, Code, File, Edit, Selection, View, Go, and Run. The file explorer on the left shows a folder structure: Users > tepe > .ssh > config. The editor displays the content of the config file:

```
17  
18 Host linux  
19 HostName 100.27.10.112  
20 User ec2-user  
21 IdentityFile ~/.ssh/  
22  
23
```

9. my pem key is \Rightarrow demo.pem (I saved it under .ssh directory)

Connect to instance [Info](#)
Connect to your instance i-01e2b1d5dd6b246d4 (ssh-connection-ec2) using any of these options


EC2 Instance Connect

Session Manager


SSH client

EC2 Serial Console

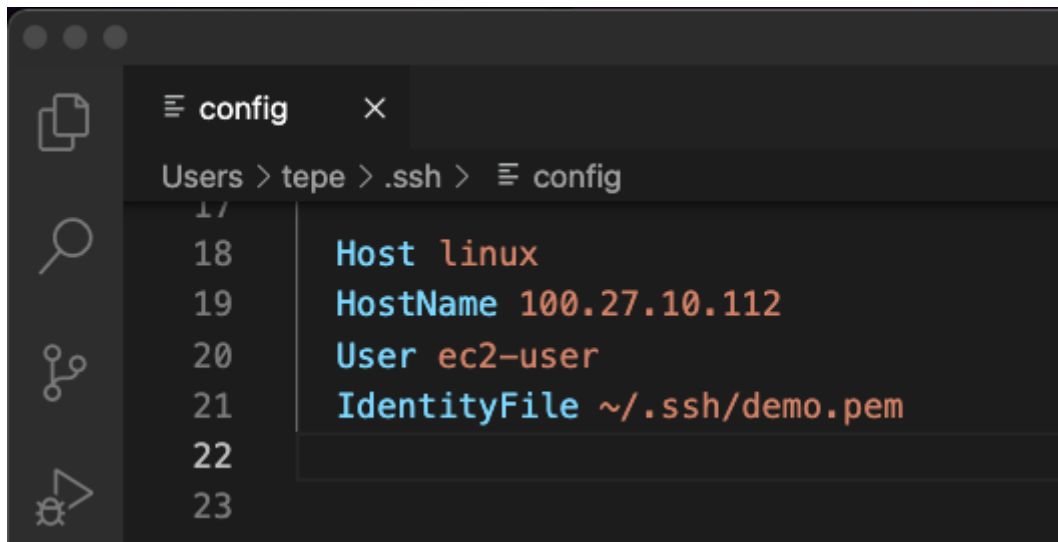
Instance ID

 [i-01e2b1d5dd6b246d4](#) (ssh-connection-ec2)

1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is demo.pem
3. Run this command, if necessary, to ensure your key is not publicly viewable.

 `chmod 400 demo.pem`

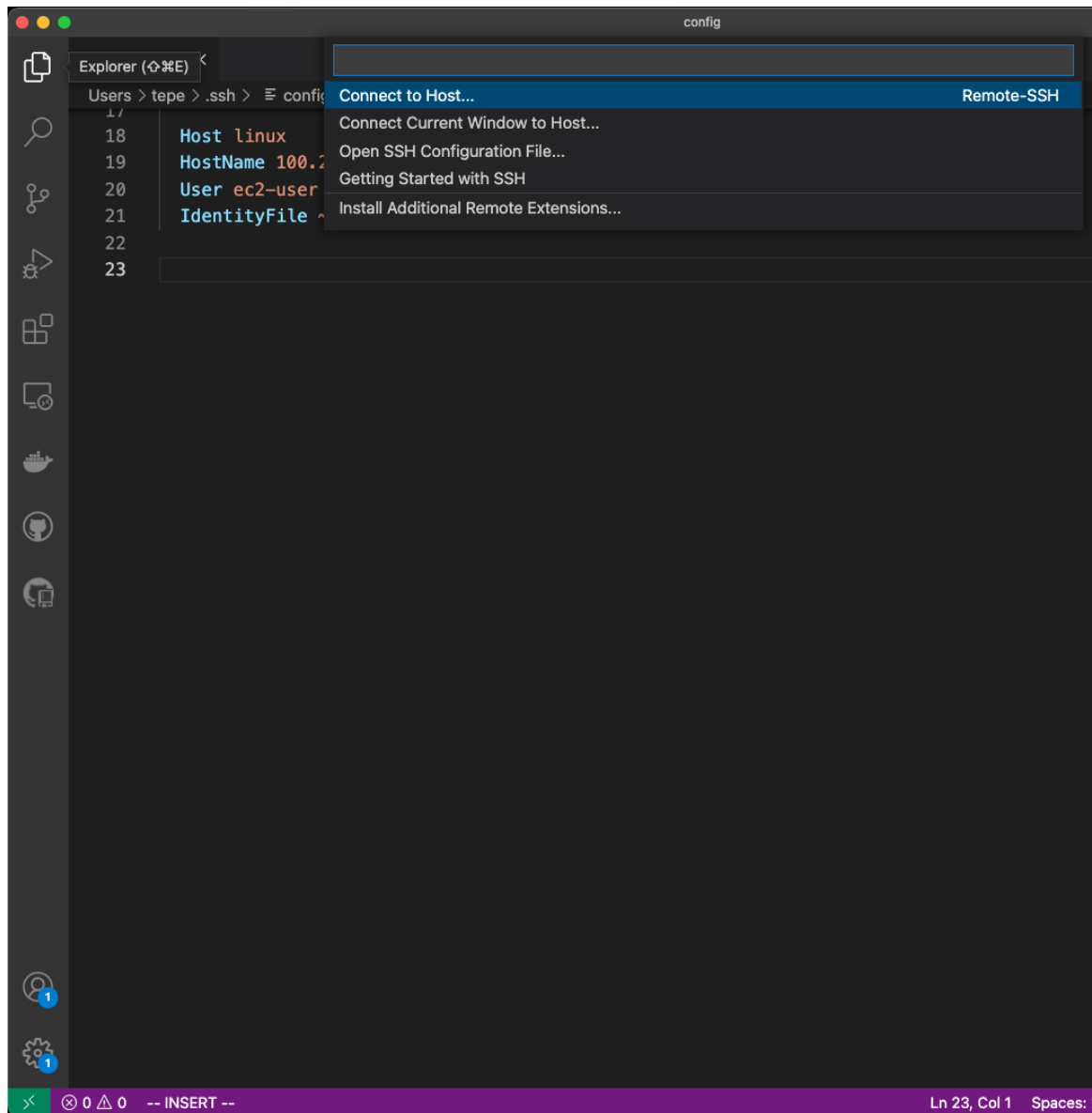
10. Now copy and demo.pem key next to IdentityFile and save it.



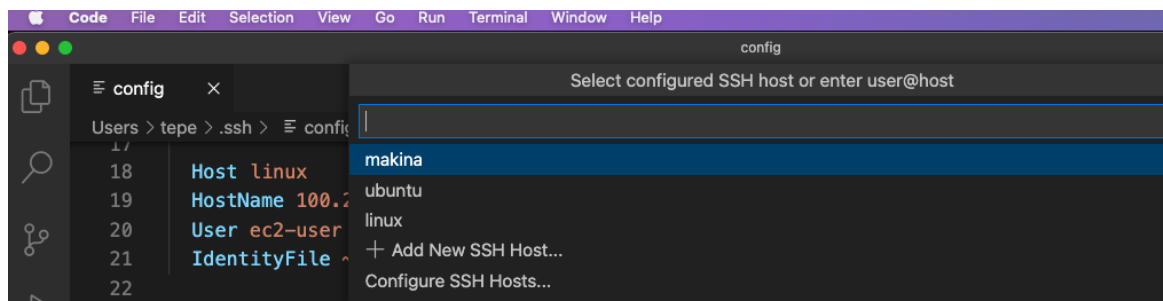
The image shows a VS Code terminal window with a dark theme. The terminal has a title bar with a hamburger menu icon, the text 'config', and a close button. Below the title bar is a breadcrumb navigation path: 'Users > tepe > .ssh > config'. The terminal content shows line numbers 18 through 23 on the left, and the following configuration on the right: 'Host linux', 'HostName 100.27.10.112', 'User ec2-user', and 'IdentityFile ~/.ssh/demo.pem'. The terminal also features a sidebar on the left with icons for Explorer, Search, Source Control, and Run and Debug.

```
≡ config ×  
Users > tepe > .ssh > ≡ config  
18 Host linux  
19 HostName 100.27.10.112  
20 User ec2-user  
21 IdentityFile ~/.ssh/demo.pem  
22  
23
```

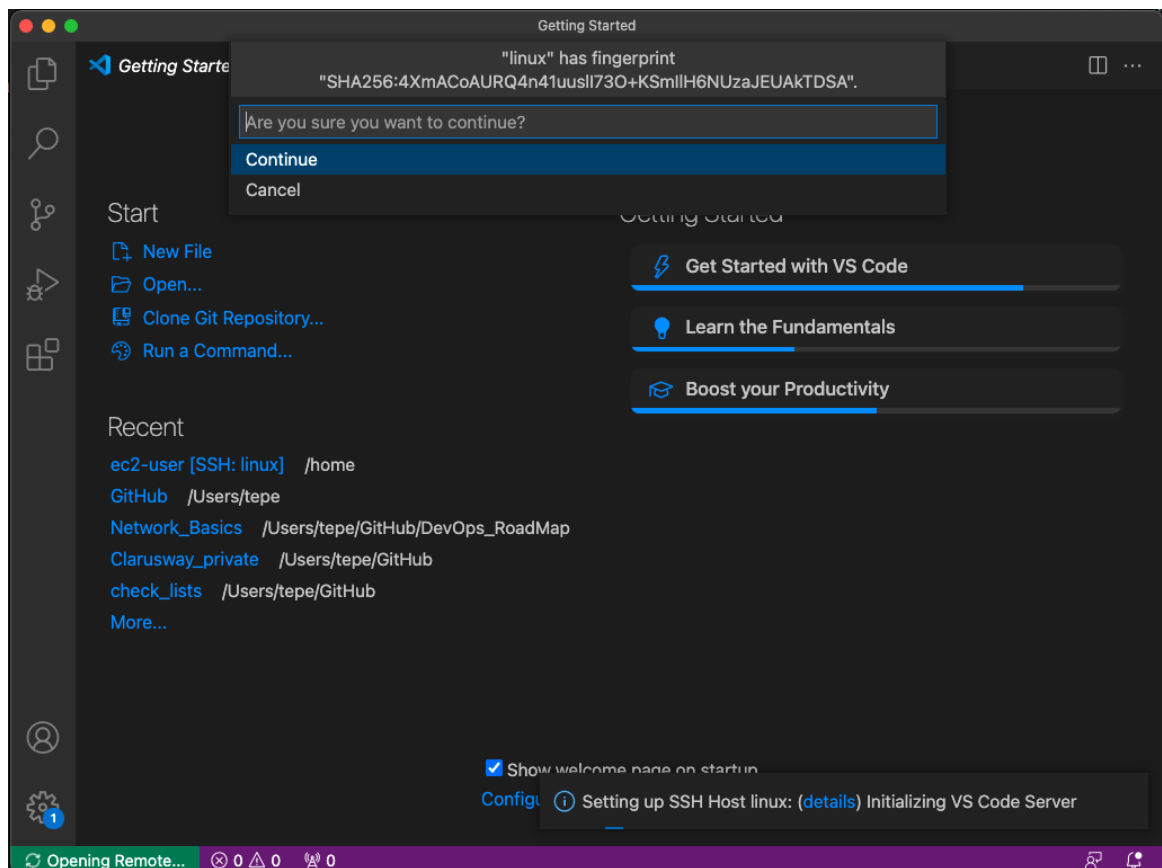
11. Click the left green corner at the bottom then click Connect to Host



12. You will see your host names and in this example is our is linux click it.

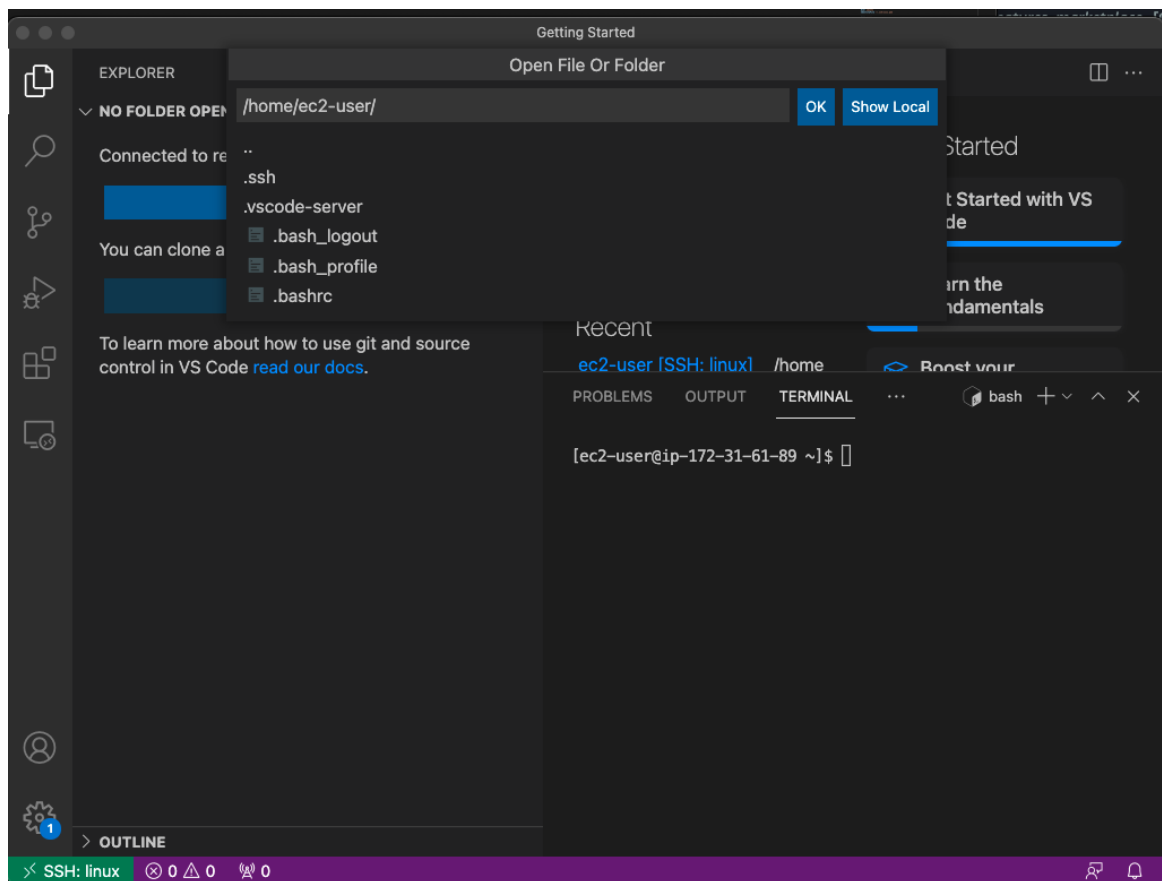


13. Great! Here a new Vscode window open and click Continue!

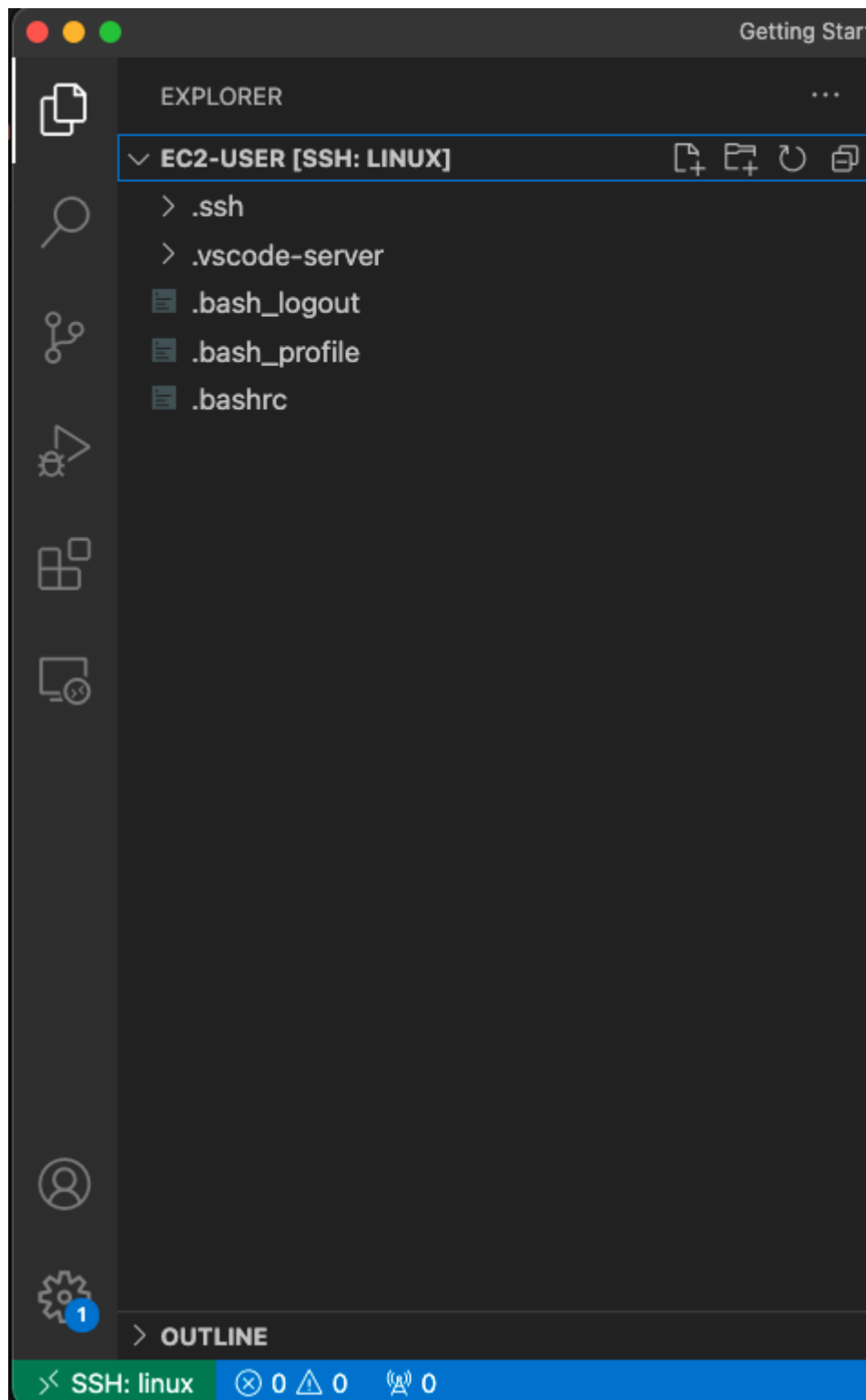


14. Click Open and you will see at the top \Rightarrow `/home/ec2-user/`

Click OK, check green corner you will see SSH-linux connection. Now, we have connected our EC2 by using VScode



15. As you can see we are in EC2. Check your directory and files.



16. As you know when we stop our instance we will loose our ip address so next time you open vscode the only thing you need to do change your IP addres in config file (look step 6!)

ps. of course, if you have enough budget then you can use Elastic Ip service
::))

prepared by <https://github.com/fatihtepe>