**Integrating VS code with K8s cluster**

* Install Visual Studio.
* In visual studio download Remote- SSH: Editing config files

Remote – SSH

Remote – Explorer

Install awstoolkit if needed.

Go to visual studio – In the sidebar click on Extensions (ctrl+shift+x) icon.



Then we will get the following page. In the search bar type as Remote –SSH, SSH: Editing config files, Explorer and download them. They will be looks like below







Open the terminal. We have two methods to open the terminal

* Go to the navigation bar – select terminal – new terminal



* Ctrl + shift + `

Now in the terminal Generate the key

# ssh-keygen.exe

After executing this command, it will ask you for then path where you want to store the ssh key. By default, it will show this path C:\Users\Admin/.ssh/id\_rsa as of now I’m ok with this path if you want you can change the path.

Then press enter two times



Now we need to copy this ssh-key to the VM. But visual studio is not accepting this command that ‘why we are getting the below error.



So, open the Git Bash which accepts the ssh-copy-id command.

List the file inside of .ssh and check is there public & private files are there or not

# ls -al .ssh/



Now copy the public key to the VM. Replace the <user> with the name of the VM user & <192.168.0.101> with the IP address of the VM to which you copy the key.

# ssh-copy-id [user@192.168.0.101](mailto:user@192.168.0.101)

After executing the command, it is showing Number of key(s) added: 1 means the IP is copied to the VM. Now on wards it doesn’t ask password everytime



Now after doing this we need to open the configuration file. If it is not there we need to create it. If you want to create the config file through GitBash we can use the below command

# vi .ssh/config

Host k8sn

HostName 192.168.0.101

user user

ForwardAgent yes

As of now I want to create the through visual studio.

Go to Header there is an option File click on it – click on new File

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In that file place the config file content. In that content HostName replace the IP with your VM IP address. User with your VM username.

Save the file (ctrl+s) or go to file – click on save.

In the left downside corner there is an icon like below click on it.



Then it will popup like below in that select connect to Host.. Remote Host option



Then it will show again like below in that click on k8sn.



Then it will open new visual studio window in that click on Linux. Then it will open the virtual machine terminal



So, now visual studio is successfully integrated with our Virtual machine.

