Pre-Class Setup for Automating Infrastructure Provisioning and Configuration

Important: Please complete the following setup before you attend the course.

The setup assumes that you have completed the Pre-Course Assignment; that you have provisioned an instance of Ubuntu server that is setup and configured according to the assignment.

We will be using the server that you have set up for the course's workshop. If you have undeployed the server, please set it up again.

Software

Download and install the Visual Studio Code (VSC) (https://code.visualstudio.com/download) on your notebook.

Setup SSH Configuration

Create a directory called `.ssh` at your user's home directory.

For Windows this would be `C:\users\<your username>`

For OSX this would be `/Users/<your username>`

In the `.ssh` directory create a file called `config` without any suffix, if you don't already have one. Add the following to the `config` file
```
Host myserver

    HostName <IPaddress of your server>
    User fred
    IdentityFile <Full path to your private key>
```

For Windows, the full path should include the drive eg.

```
    C:\Users\fred\mykey
```

Also, note that if your username contains spaces eg.

```
C:\Users\fred flintstone\mykey
```

you will encounter an error when SSH tries to connect using `myserver` configuration. You will need to use another user without any spaces in the name.
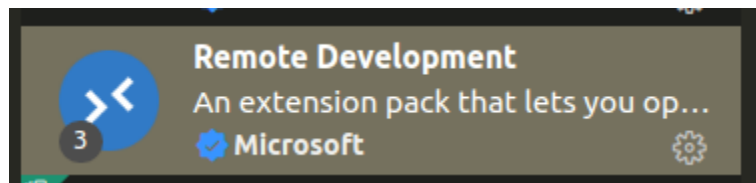
Test the configuration from a terminal by typing

```
ssh myserver
```

If you have setup the configuration correctly, you should be connected to your server using the parameters from `myserver` configuration.
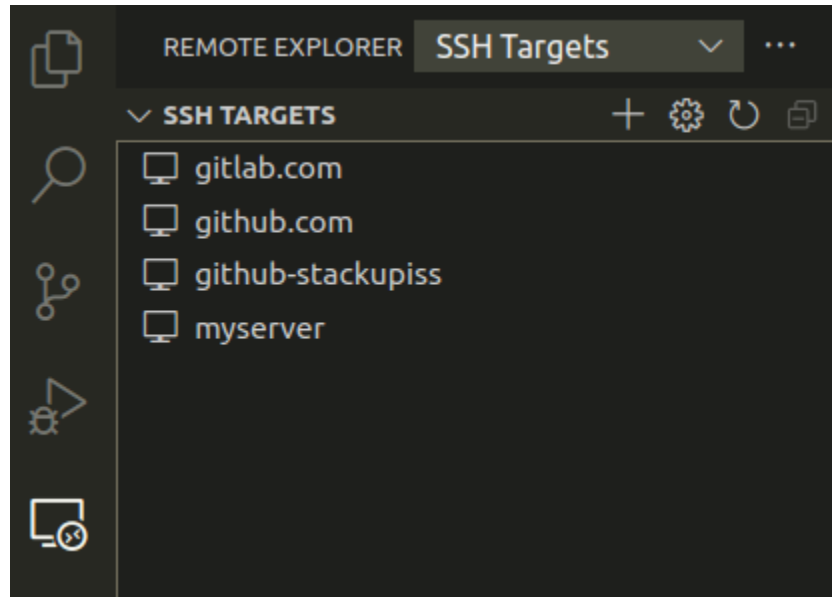
Setup SSH Configuration

Launch VSC. Click on the Extension icon on the left and search for Remote Development extension

Install the extension; restart VSC once the installation is complete.

Click on the Remote Explorer once VSC restarts. You should now see `myserver` in the SSH TARGETS window

If you don't see your server listed, select SSH Targets from the drop-down menu and click on Refresh (the circular arrow).

Right click on `myserver` and select 'Connect to Host in New Window'. The bottom left status should indicate that you have successfully connected to your server.
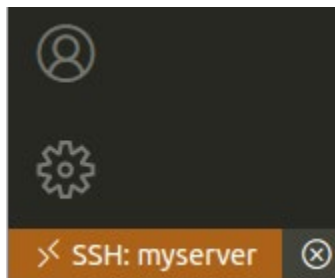
This is the end of the pre class setup.

Please do not hesitate to email me isslcm@nus.edu.sg if you have any queries.