

A. Pre-requisites for doing hands-on on Blockchain.

You can use either of the two Options:

Option -1

Make your own environment on any Linux system or for windows make virtual machine of Ubuntu 18.0.4 using Oracle VM box. The steps to make the environment are:

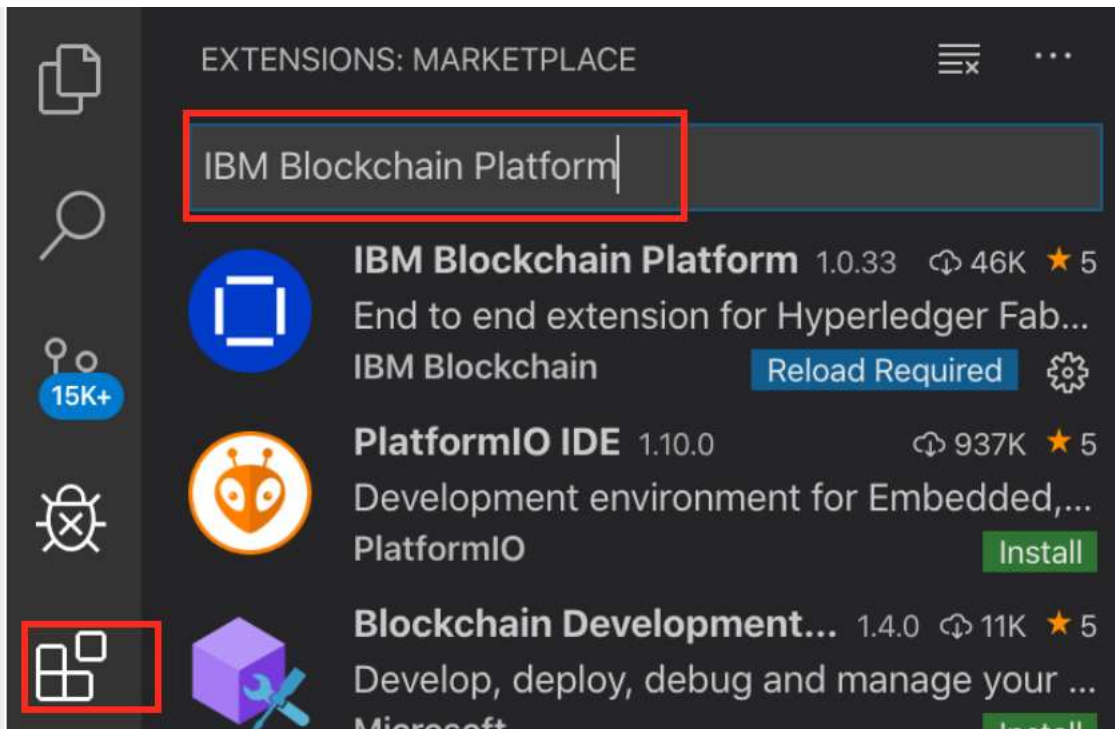
Install the following pre-requisites:(Please download only the mentioned versions)

- Install VS Code 1.39 using <https://code.visualstudio.com/download>
- Install Docker v17.06.2-ce - <https://www.docker.com/get-started>
- Install Docker compose v1.14.0 - <https://docs.docker.com/compose/install/>
- Install Node v8.x and npm v6.x - <https://nodejs.org/en/download/>
- Install Golang in '/usr/local' directory - <https://golang.org/dl/>
- Download samples in \$HOME directory using the following command -
curl -sSL <https://bit.ly/2ysbOFE> | bash -s -- 1.4.6 1.4.6 0.4.20
- Set PATH in your linux/ubuntu box to access it using terminal. Copy the following commands in \$HOME/.bashrc or \$HOME/.bash_profile using 'vi' editor:
 - a. export PATH=\$PATH:/usr/local/go/bin
 - b. export GOPATH=/usr/local/go
 - c. mkdir \$HOME/chaincode
 - d. export GOPATH=\$HOME/chaincode
 - e. export PATH=\$HOME/fabric-samples/bin:\$PATH
- Open terminal and run following command:
echo \$GOPATH → it should return the path as set above.
- Refer to Dependency Installation section once in the link.
<https://marketplace.visualstudio.com/items?itemName=IBMBlockchain.ibm-blockchain-platform&ssr=false#user-content-dependency-installation>

It will be helpful if there is any specific OS related dependency to install.

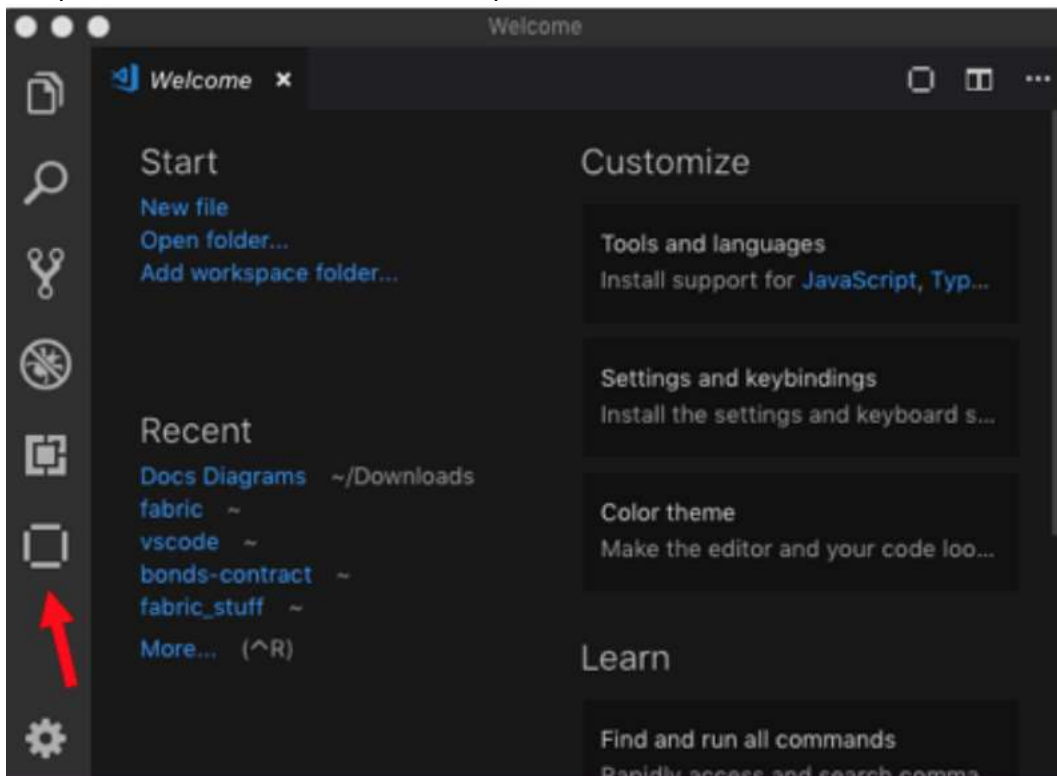
Install IBM Blockchain Platform (IBP) extension:

- Open VS Code -> Click on `Extensions` -> Search for `IBM Blockchain Platform`

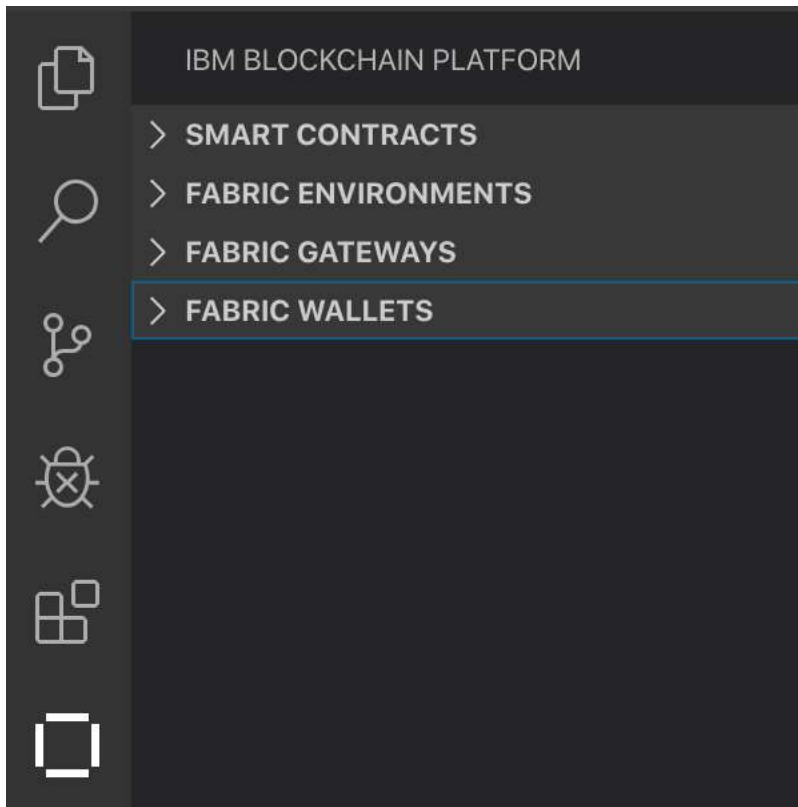


It will give you option for 'Install'. Click on 'Install'.

- Restart Visual Studio Code to complete installation of the extension.
- After the installation, you can use the IBM Blockchain icon on the left side of VS Code to open the IBM Blockchain Platform panel.



- If there is any issue in installation like some dependency/pre-requisite is missing or not matching with the required version, then it will show on IBM Blockchain Platform Home page. Fix the issue accordingly.
- Once done, open VS Code -> click on IBP extension. It should show something like this:



Test the environment:

- Ensure docker is running
- Open the **IBM Blockchain Platform** tab in VS Code
- In the **Fabric Environments** pane, click **1 Org Local Fabric** – it should start Fabric network
- Once command execution is completed, you can verify containers running in your machine using `docker ps` command.
- In the **Fabric Environments** pane, click the overflow menu – you can stop and teardown your Fabric network.

Option -2 :

Download the readymade Virtual machine(OVA file) and import it in Oracle VM Box. **(This require one time high speed internet which you can download before the STC).**

- To download click on link:
<https://1drv.ms/u/s!AvtJG5QKFwqvg7kC6CZj2T8nRDioKQ?e=D0Kcn8>
- Password: mayank123
- This is also the password for machine , user name for machine is mayank
- After downloading export the machine Using Oracle VM box or any other hypervisor.

** Kindly note that the Virtual machine is of approx. 10GB. It is recommended to use any download manager like IDM so that download can resume in case of any internet failure.