Following are the setup instructions for Docker and Kubernetes.

Pre-requsite:

a. You should have a laptop with good internet connection and following requirements

    Memory of 16GB or more

    Hard disk with 150GB free space.

b. You should know some very basic unix commands

1. Install Virtual box

Download location: <https://www.virtualbox.org/wiki/Downloads>

Installation instruction: <https://www.virtualbox.org/manual/ch02.html>

Summary: Download the binary for your OS and run it.

2. Create a Ubuntu latest virtual machine using VirtualBox.

N.B : The install instructions for Mac and Linux should be similar with minor difference in UI options.

If this installation fails

N.B: Enable Hyper-V on boot level and disable it at OS level (Disable Hyper-V).

Install Instruction:

[How to install Ubuntu on VirtualBox?](https://askubuntu.com/questions/142549/how-to-install-ubuntu-on-virtualbox)

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OR

[How to Install Ubuntu Linux on VirtualBox on Windows 10 [Step by Step Guide]](https://itsfoss.com/install-linux-in-virtualbox/)

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<https://techcommunity.microsoft.com/t5/itops-talk-blog/step-by-step-enabling-hyper-v-for-use-on-windows-10/ba-p/267945>

3. Install Docker

Go to terminal and execute the following commands

$ curl -fsSL https://get.docker.com -o get-docker.sh

ls

$ sudo sh get-docker.sh

4. Verify docker installation

execute the following command and confirm everything is good.

    sudo docker version

    sudo docker -v

Ensure you don't have any error.

N.B : If you run into an error, you may start from the step 2. Creating a new vritual machine.

5. <https://www.vagrantup.com/downloads.html>

Download and install vagrant from the above location.