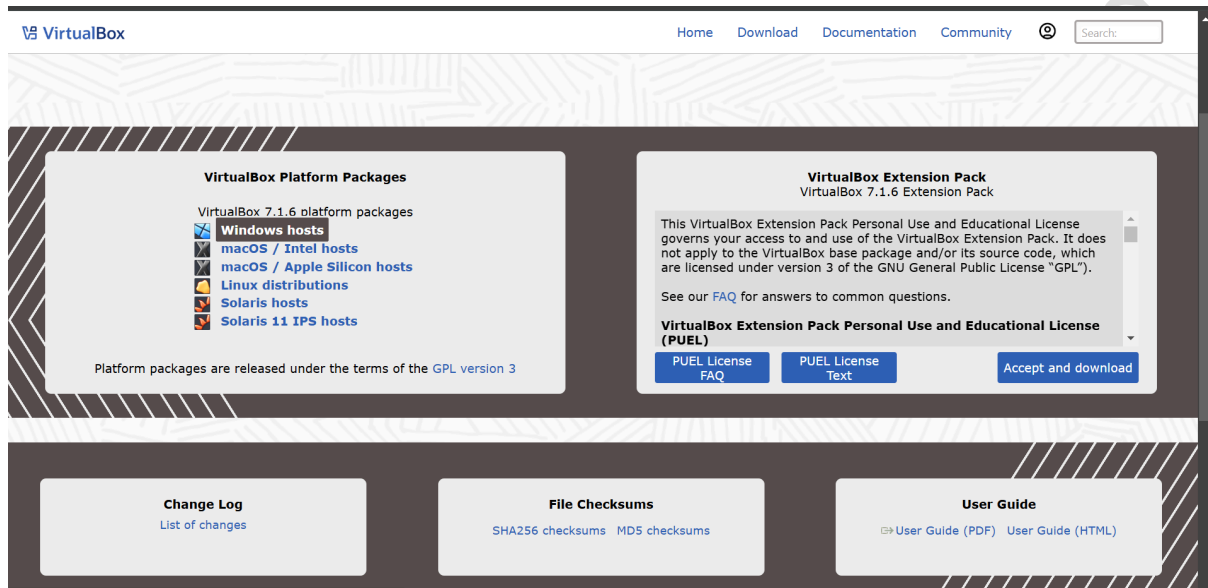
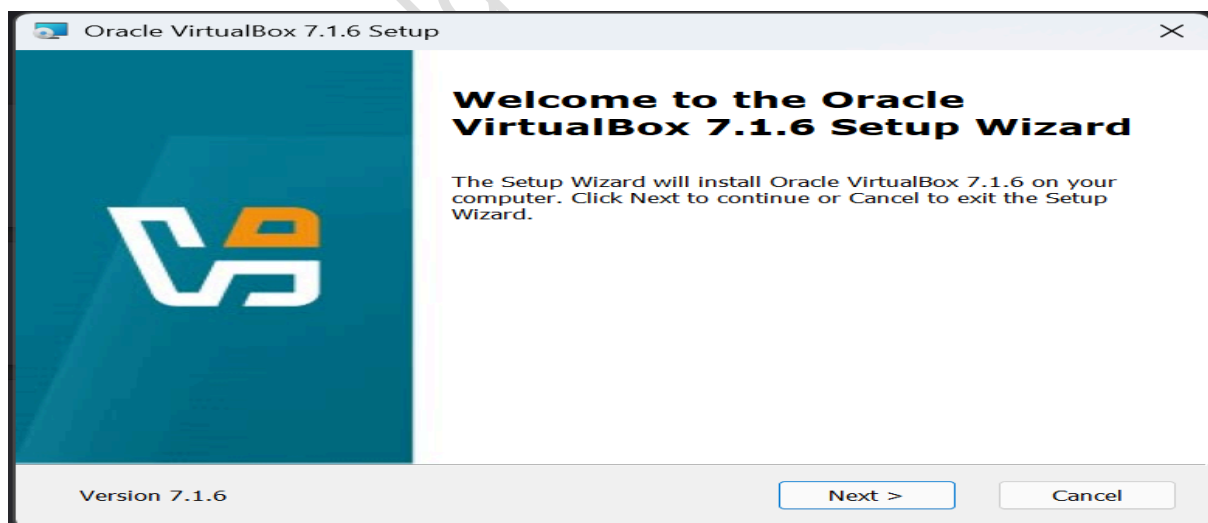


Minikube Setup

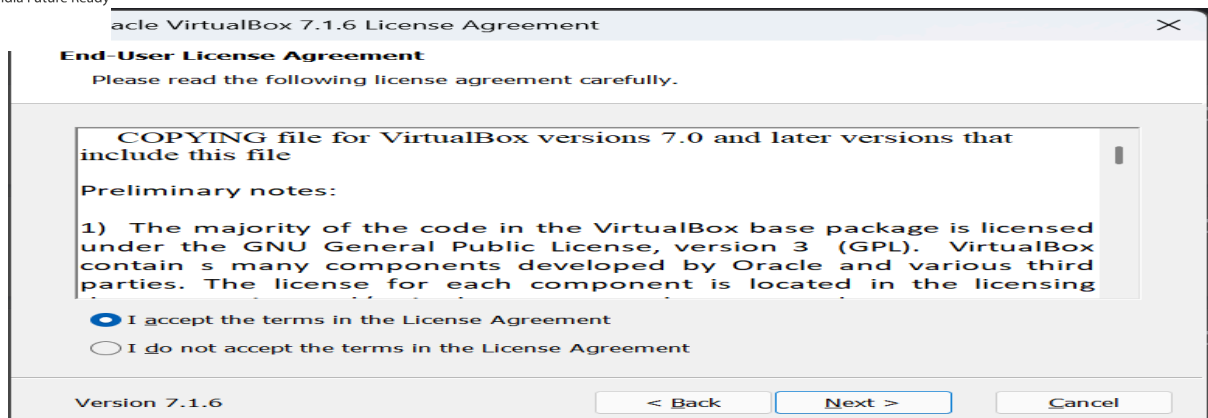
- Download the virtualization software from chrome. We are going to use the oracle virtualbox.
- <https://www.virtualbox.org/wiki/Downloads>
- Download for the windows hosts.



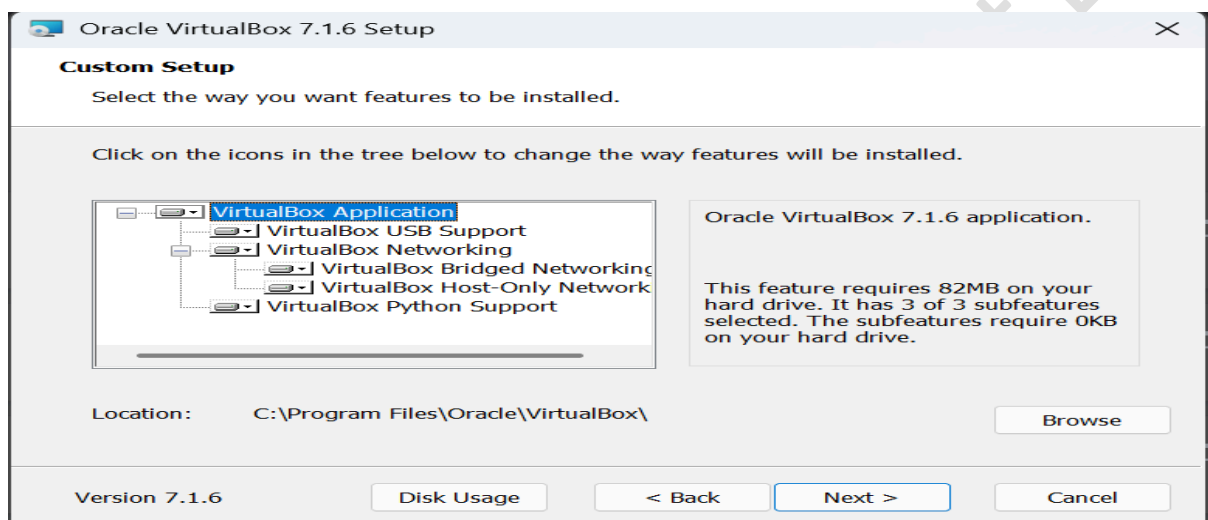
- After this just clicks on next.



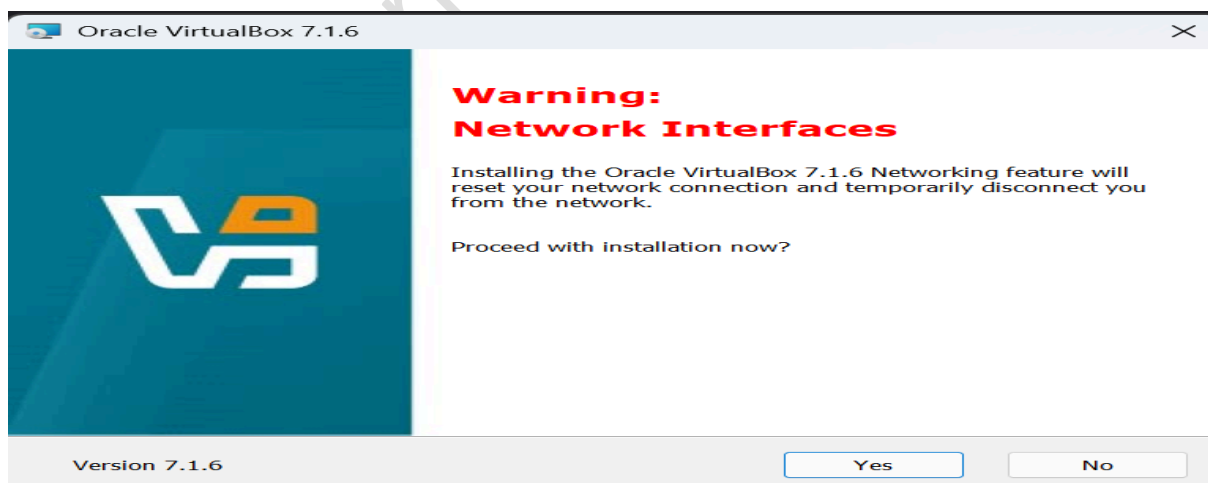
- Accept the terms and conditions.



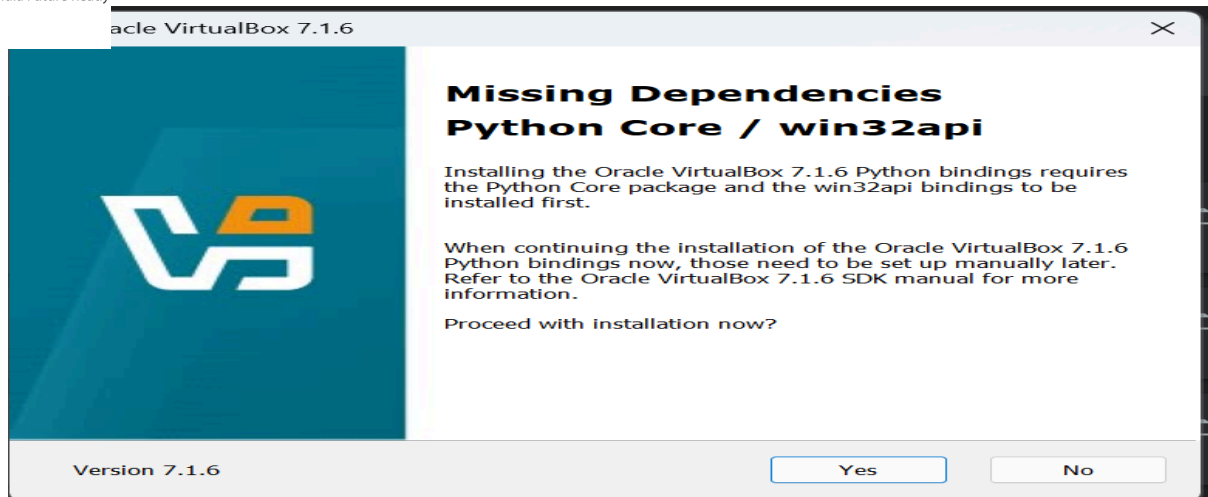
- Again click on next no need to change anything here.



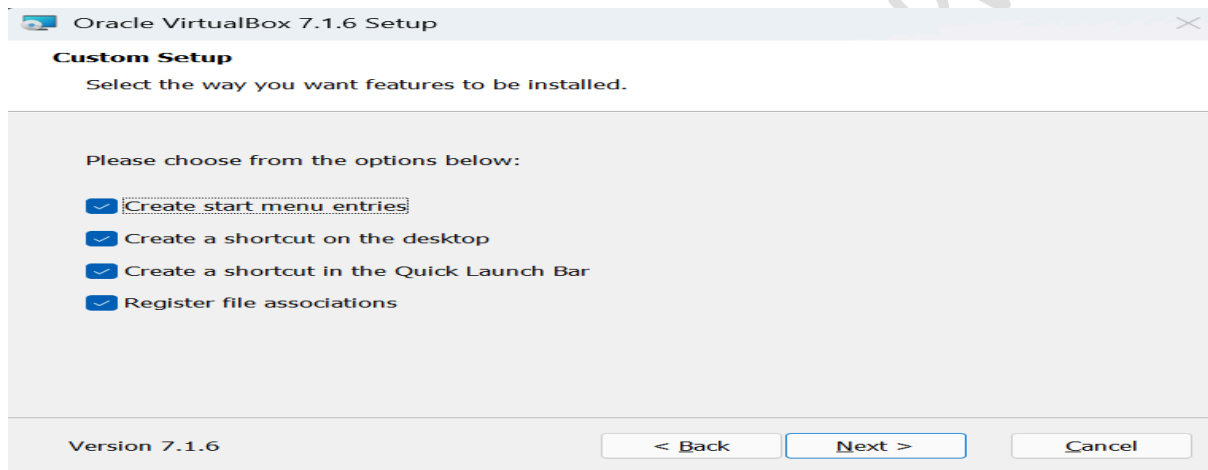
- It will show you some network interface warning click on yes.



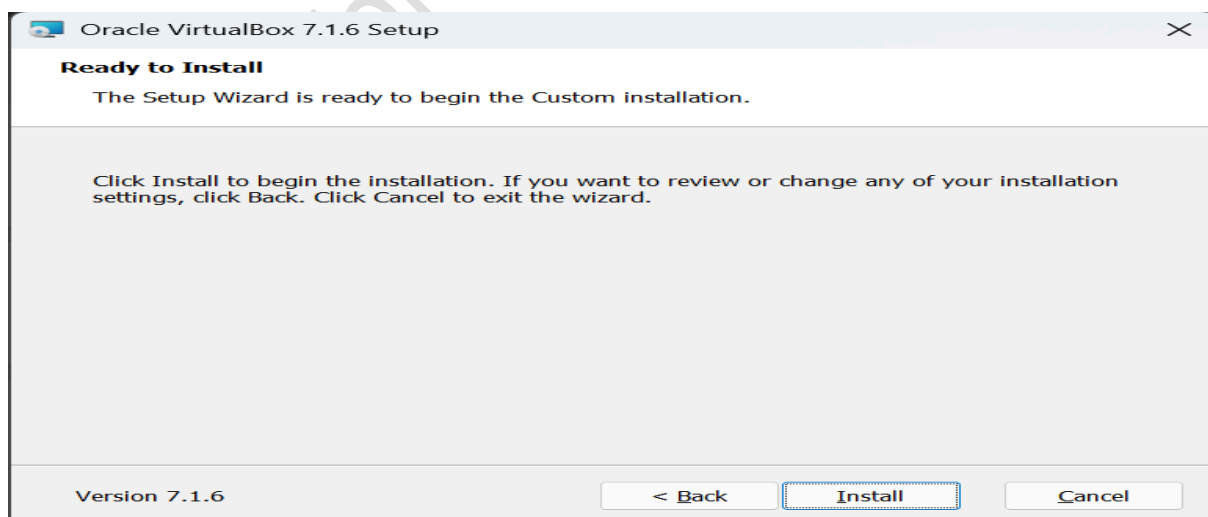
- Then click on yes.



- Then click on next.

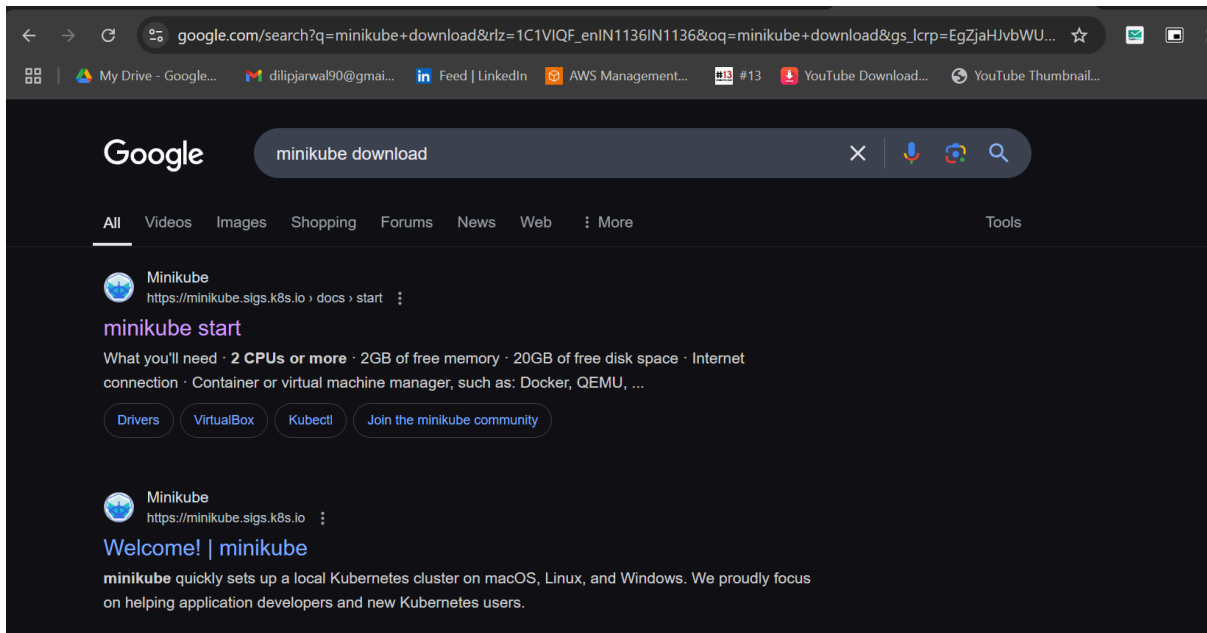


- Then click on install.



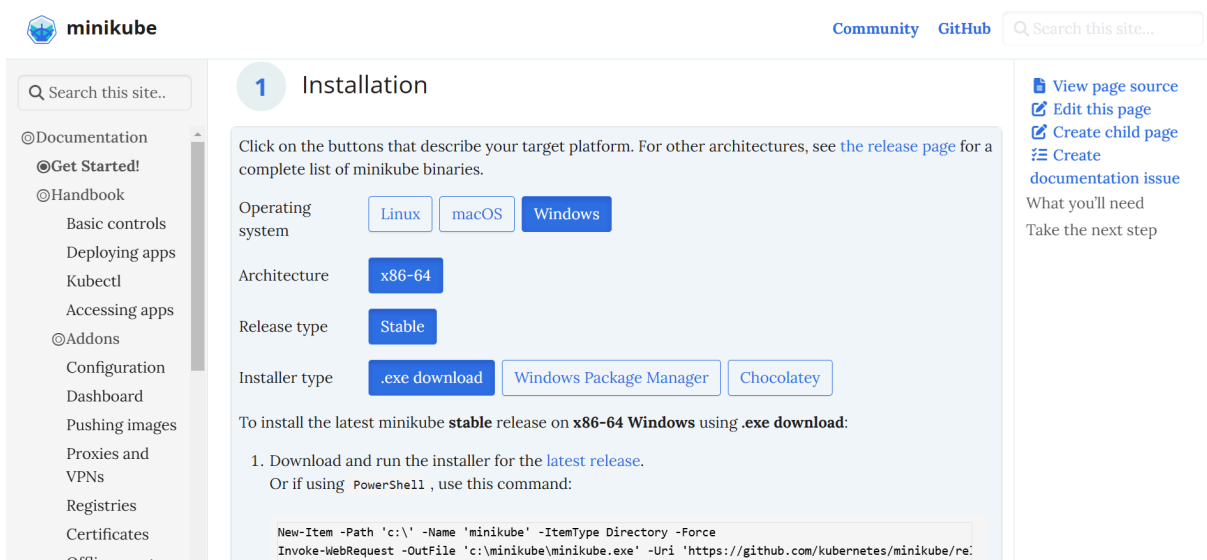
- After installation is done click on finish then open oracle virtual box.

- Now we need to download the minikube so search for minikube download.

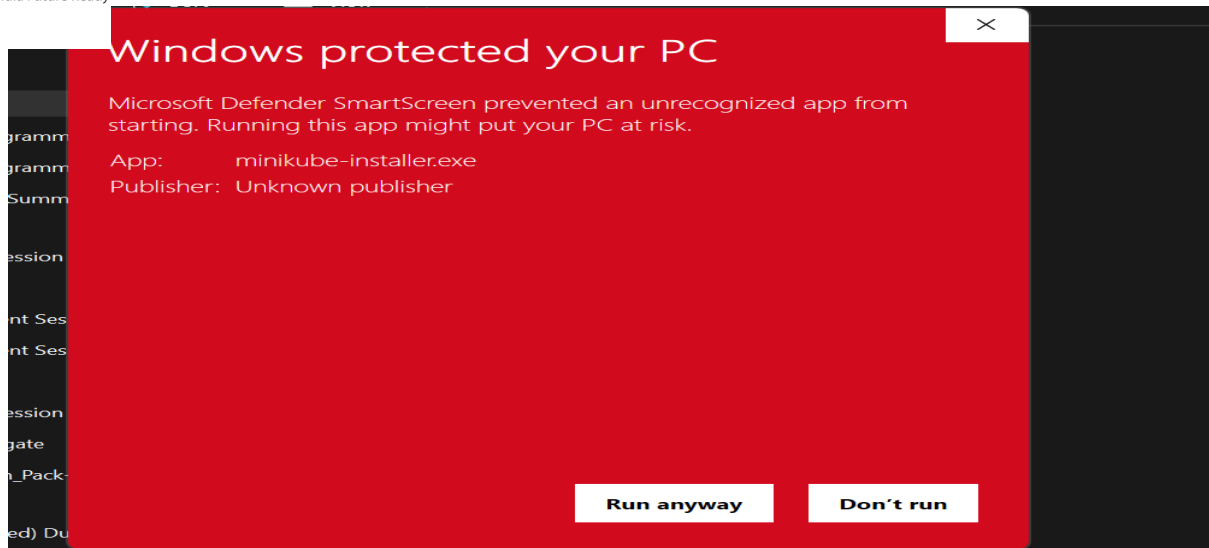


- Now download the minikube using this URL or else if you want to download from another version you can check on the page.

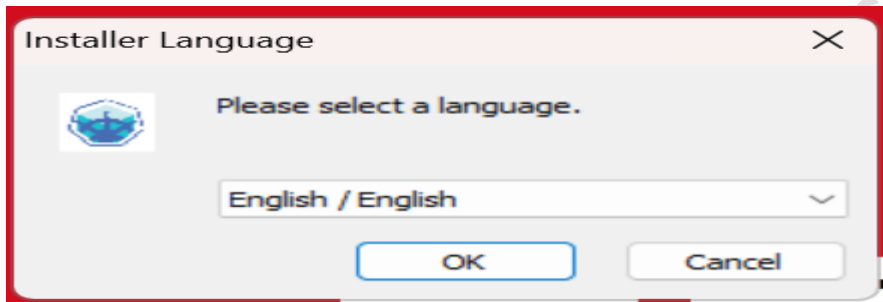
<https://storage.googleapis.com/minikube/releases/latest/minikube-installer.exe>



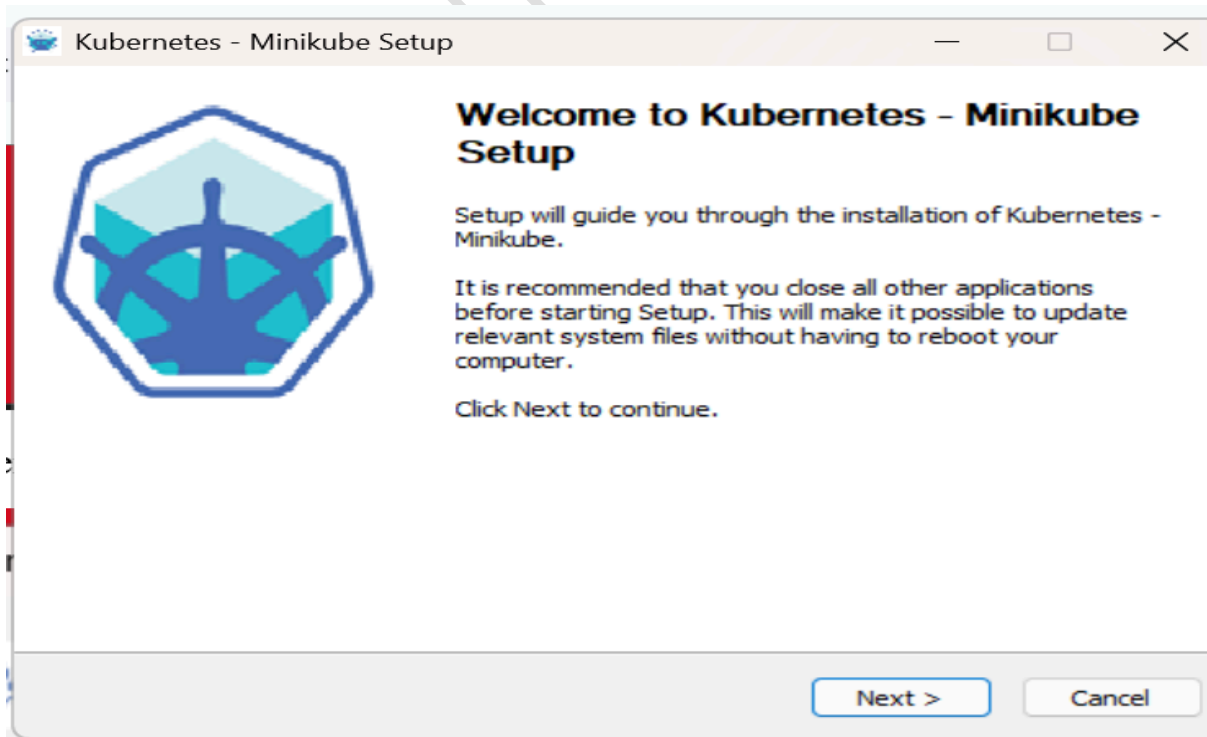
- Then click on the downloaded file it will show you some warning click on run anyway.



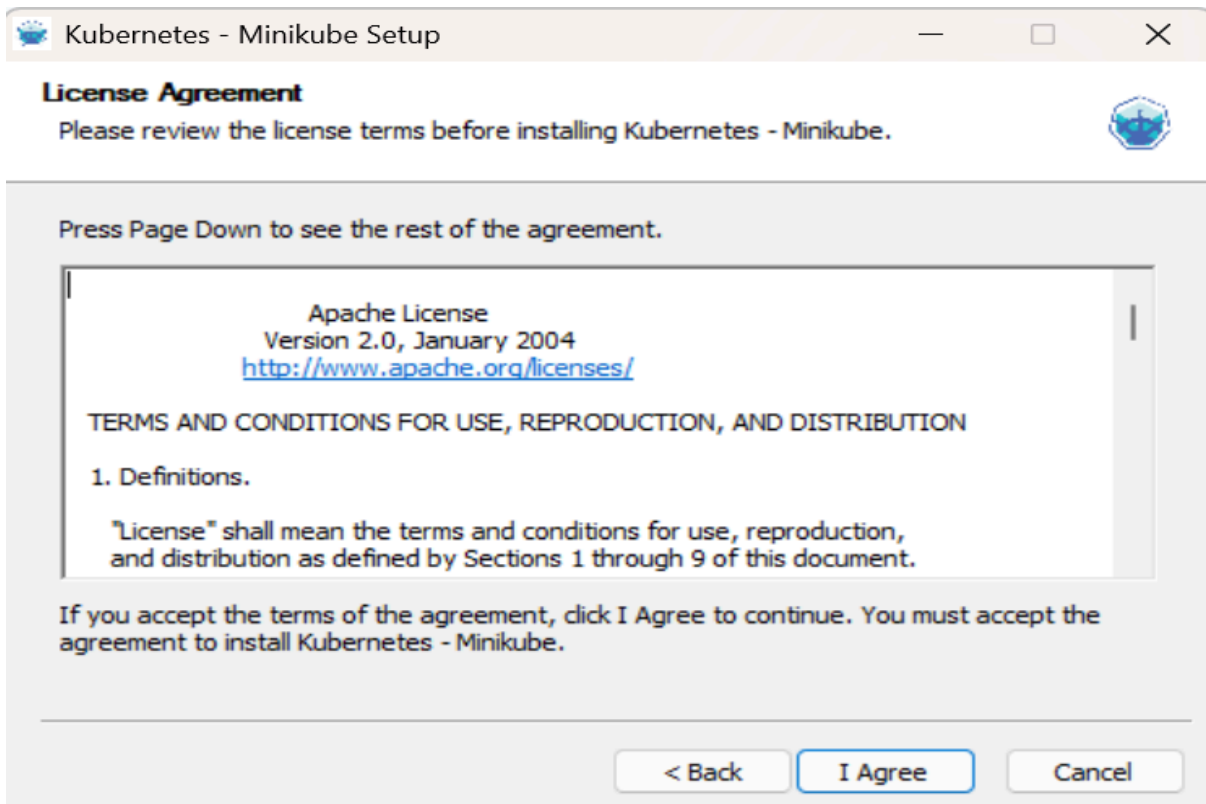
- Then just click on ok.



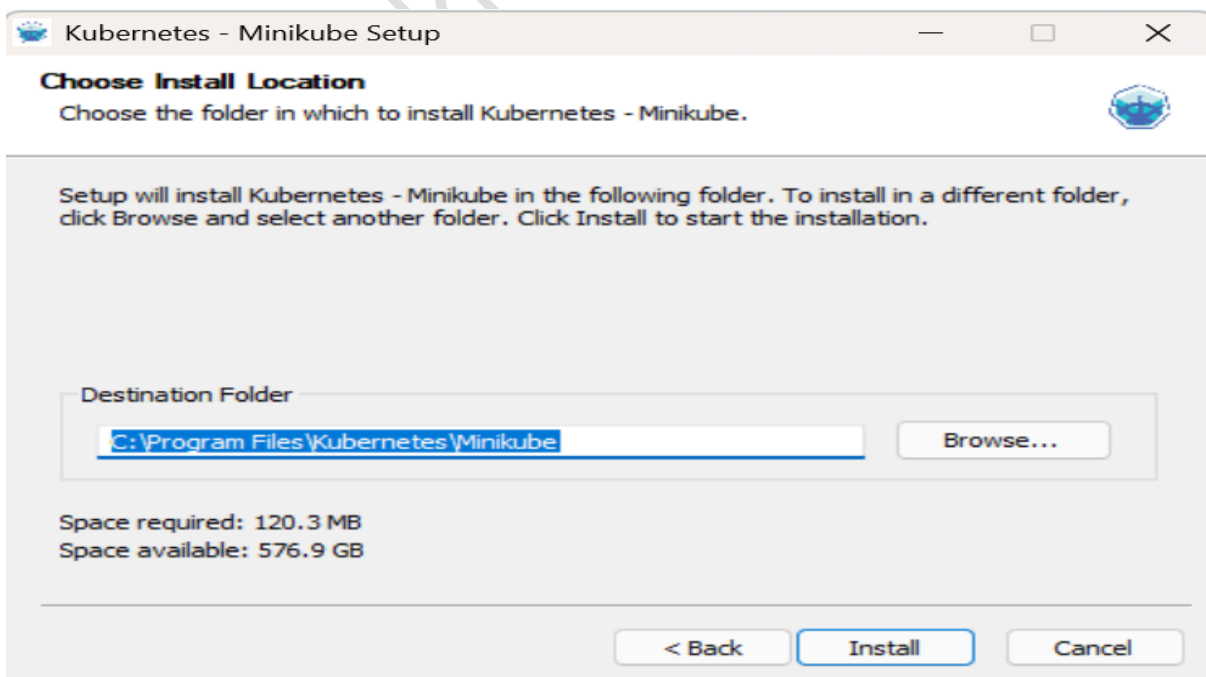
- Again click on next.



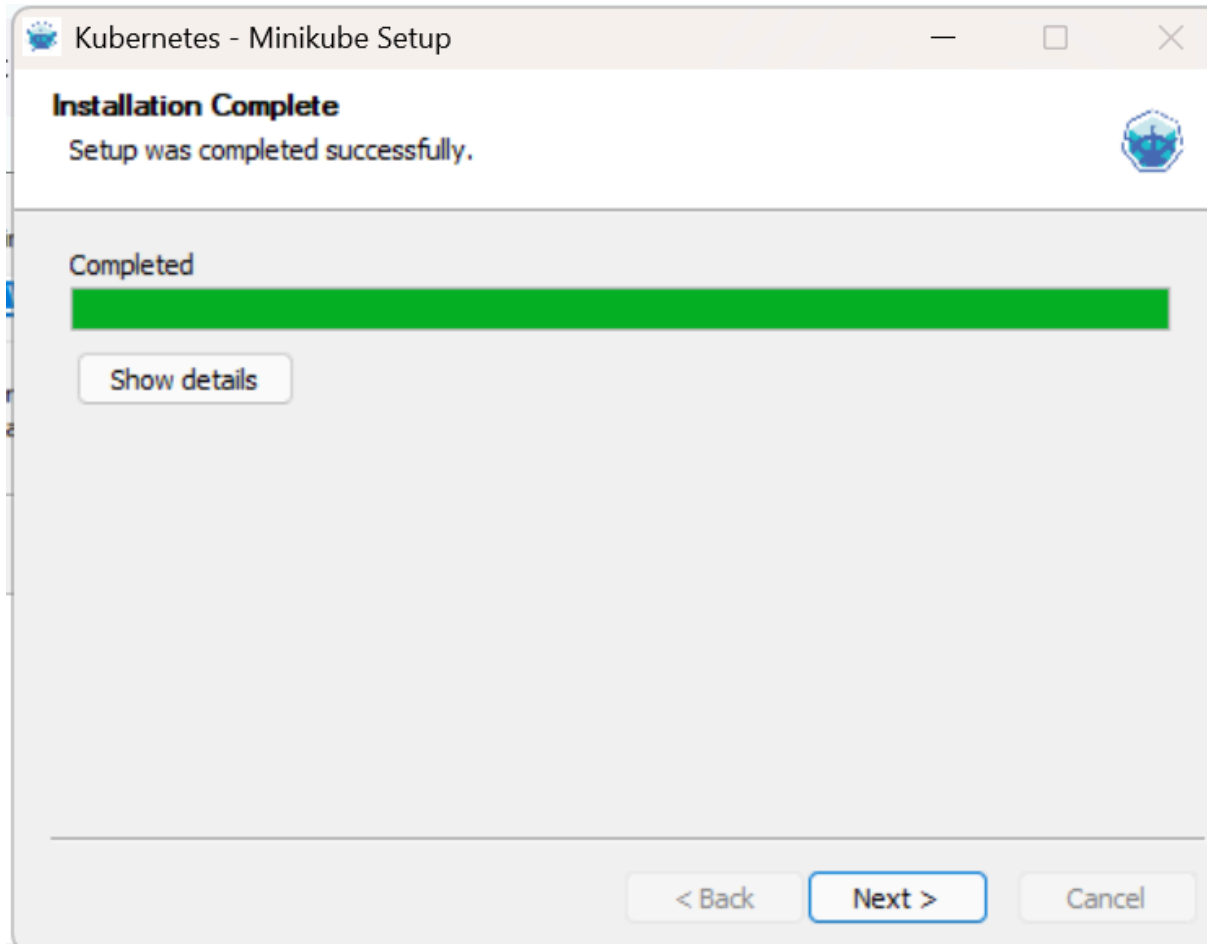
- Then click on I agree on the terms and conditions.



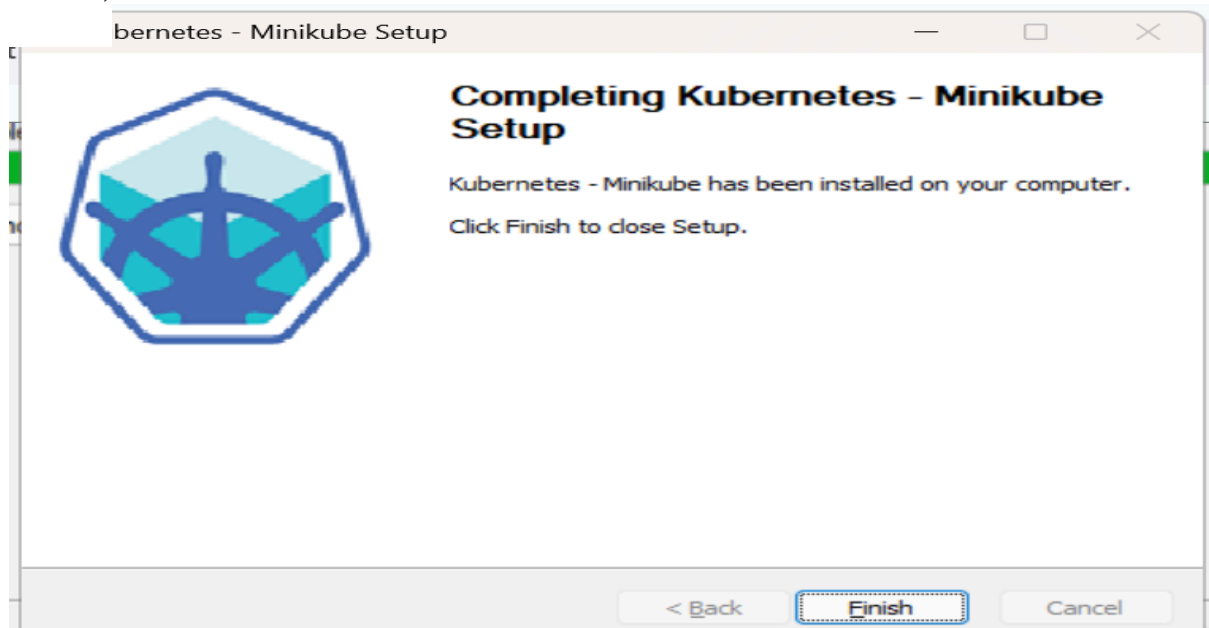
- Now click on install if you want to change the installation location you can change it here.



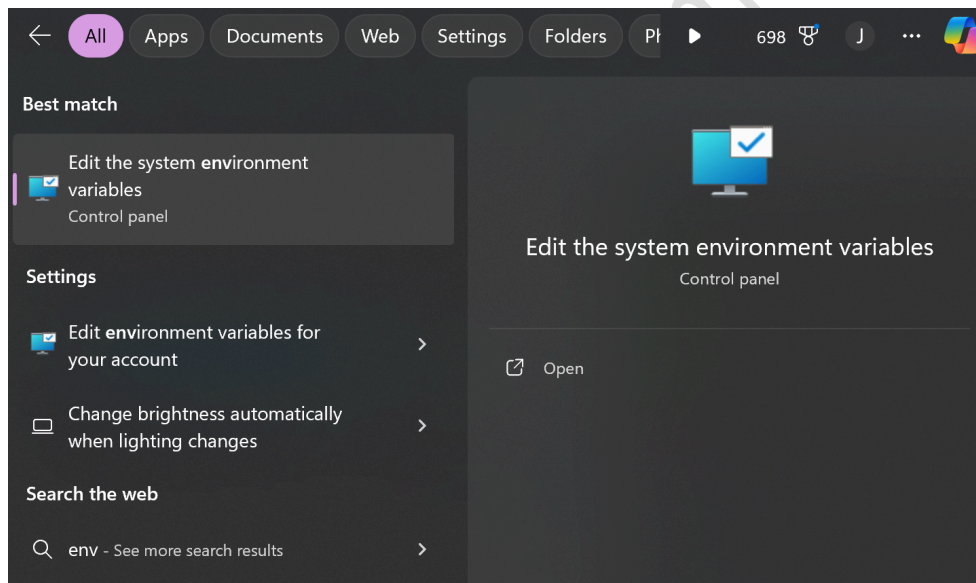
- After installation is done click on next.



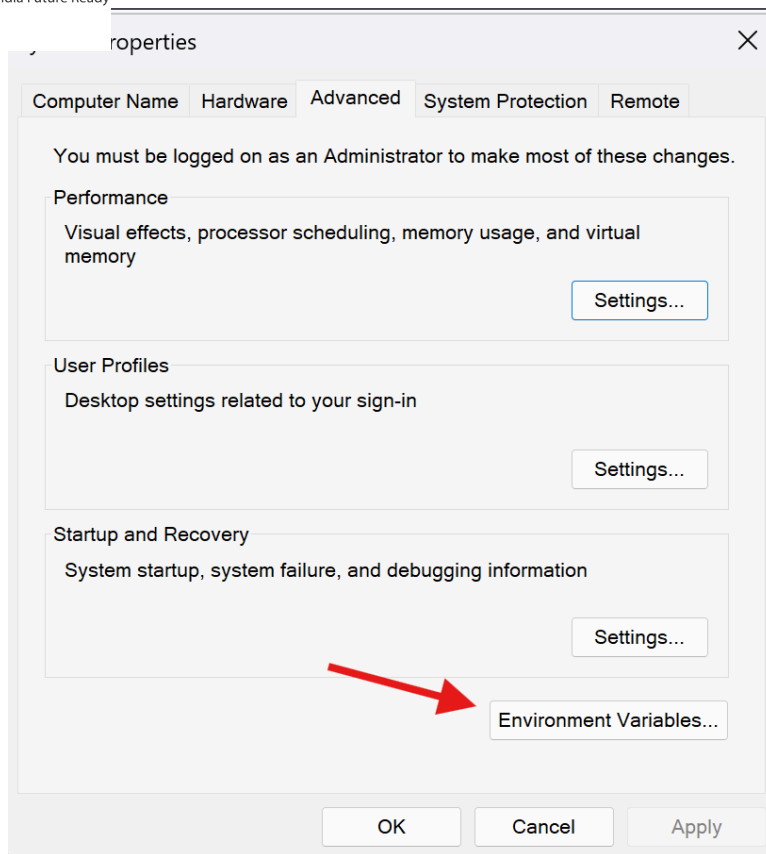
- Then click on finish.



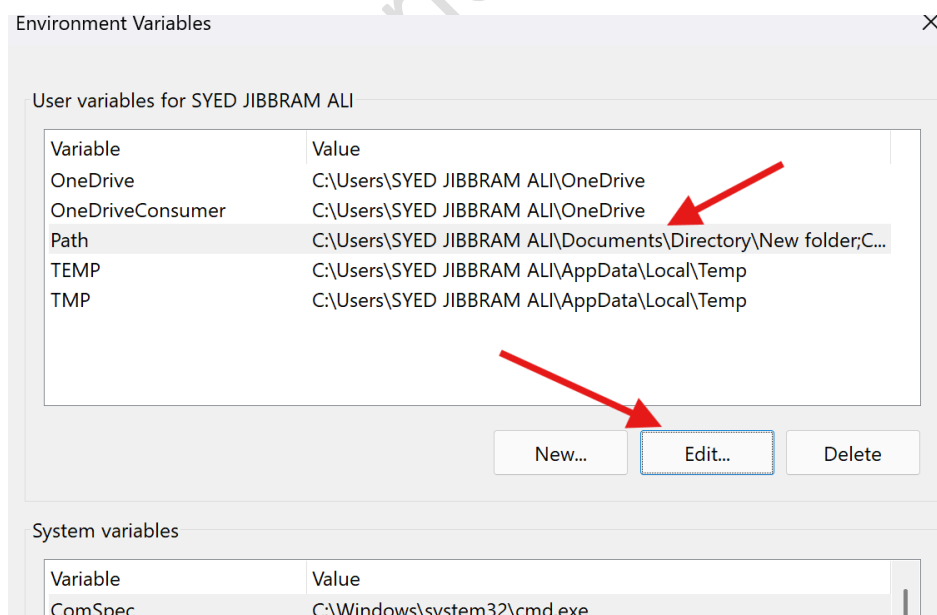
- Now search for ENV in the task bar & go to Edit the system environment variables



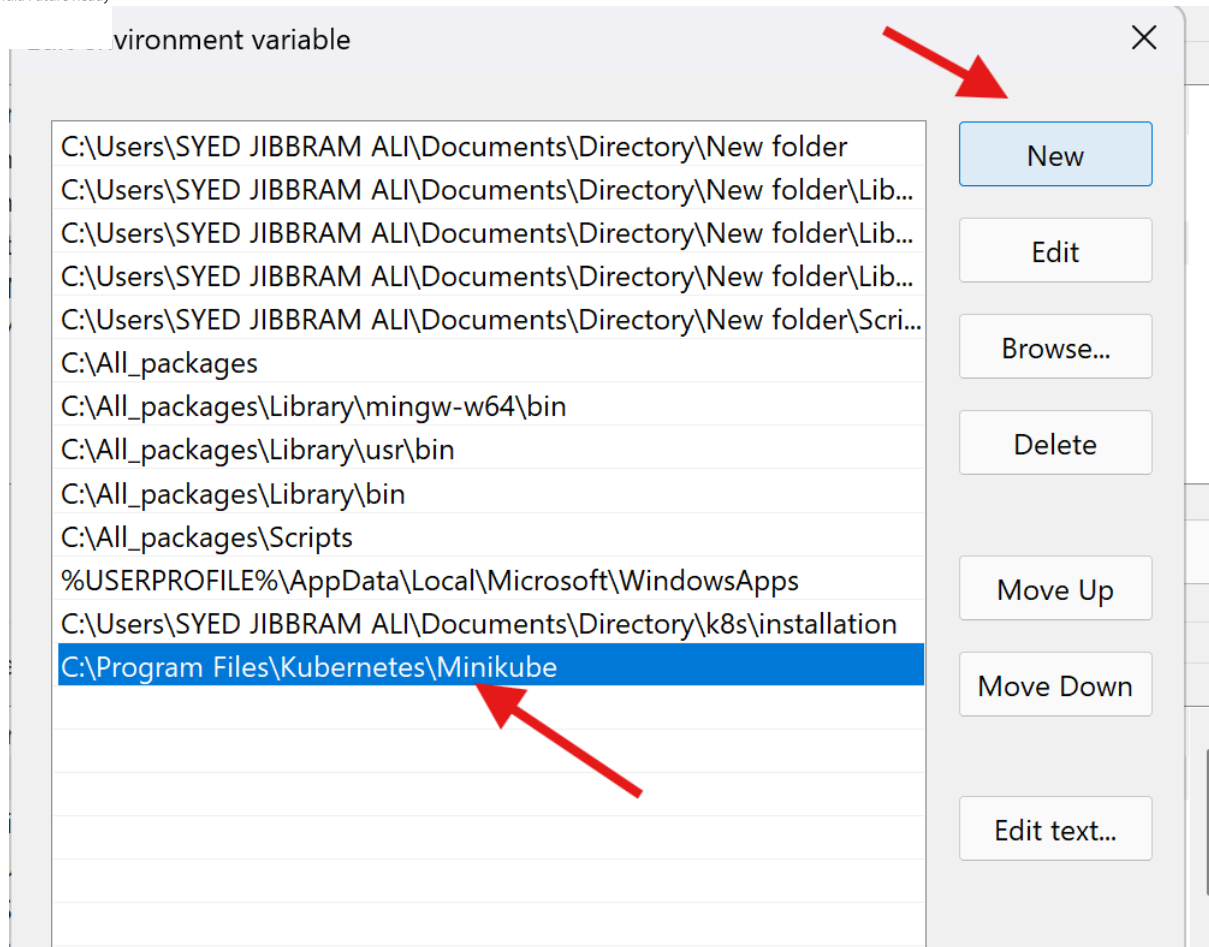
- Click on Environment Variables



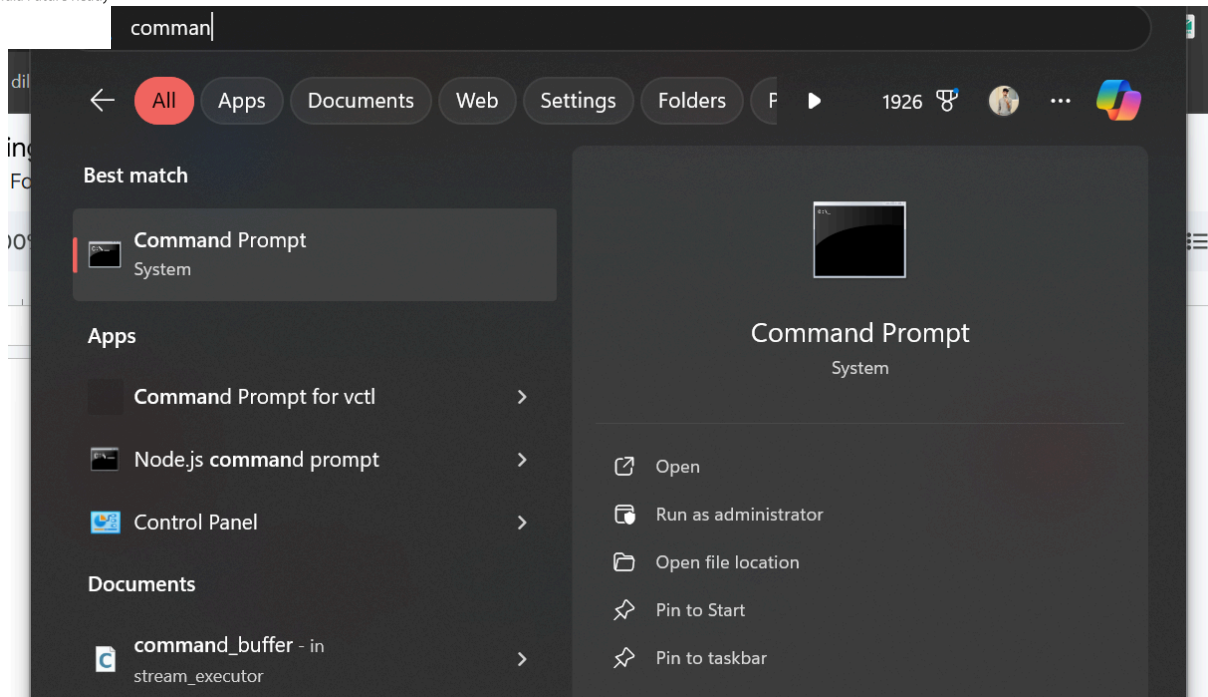
- Click on **Path** then click **Edit**



- Click on **New** & Paste the path of folder in which Minikube is Installed



- Now Minikube is installed successfully now open the command prompt of Windows.



- Now here run the **minikube start --driver=virtualbox** command.

```
Microsoft Windows [Version 10.0.26100.3037]
(c) Microsoft Corporation. All rights reserved.

C:\Users\DILIP>minikube start --driver=virtualbox
```

- It will take some time and download the Kubernetes image and setup the Kubernetes machine in your VirtualBox.

```
C:\Users\DILIP>minikube start --driver=virtualbox
* minikube v1.35.0 on Microsoft Windows 11 Home Single Language 10.0.26100.3037 Build 26100.3037
* Kubernetes 1.32.0 is now available. If you would like to upgrade, specify: --kubernetes-version=v1.32.0
* Using the virtualbox driver based on existing profile
* Downloading VM boot image ...
  > minikube-v1.35.0-amd64.iso: 65 B / 65 B [-----] 100.00% ? p/s 0s
  > minikube-v1.35.0-amd64.iso: 345.38 MiB / 345.38 MiB 100.00% 4.02 MiB p/s
* Starting "minikube" primary control-plane node in "minikube" cluster
* virtualbox "minikube" VM is missing, will recreate.
* Creating virtualbox VM (CPUs=2, Memory=3900MB, Disk=20000MB) ...
! Failing to connect to https://registry.k8s.io/ from inside the minikube VM
* To pull new external images, you may need to configure a proxy: https://minikube.sigs.k8s.io/docs/reference/networking/proxy/
* Preparing Kubernetes v1.31.0 on Docker 27.4.0 ...
  - Generating certificates and keys ...
  - Booting up control plane ...
! initialization failed, will try again: kubeadm init timed out in 10 minutes
  - Generating certificates and keys ...
  - Booting up control plane ...
  - Configuring RBAC rules ...
* Configuring bridge CNI (Container Networking Interface) ...
  - Using image gcr.io/k8s-minikube/storage-provisioner:v5
* Verifying Kubernetes components ...
! Enabling 'default-storageclass' returned an error: running callbacks: [Error making standard the default storage class: Error listing StorageClasses: Get "https://192.168.59.102:8443/apis/storage.k8s.io/v1/storageclasses": dial tcp 192.168.59.102:8443: connectex: A connection attempt failed because the connected party did not properly respond after a period of time, or established connection failed because connected host has failed to respond.]
* Enabled addons: storage-provisioner
* Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default

C:\Users\DILIP>
```

- Installing the kubectl command

URL:- <https://kubernetes.io/docs/tasks/tools/install-kubect1-windows/>

```
C:\Program Files\Kubernetes\Minikube>curl -LO https://storage.googleapis.com/kubernetes-release/release/0.11.0/bin/windows/amd64/kubect1.exe
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total   Spent    Left     Speed
 12 39.5M    12 5102k    0     0  1275k      0  0:00:31  0:00:04  0:00:27 1157k
```

- Now you can check the status using the minikube status command.

```
C:\Users\DILIP>minikube status
minikube
type: Control Plane
host: Running
kubelet: Running
apiserver: Running
kubeconfig: Configured
```