1. **Download Kubectl and Minikube**
2. Kubectl Download Link :

<https://storage.googleapis.com/kubernetes-release/release/v1.10.0/bin/windows/amd64/kubectl.exe>

1. Minikube Download Link : Download the minikube-windows-amd64.exe file, rename it to minikube.exe and add it to your path

<https://storage.googleapis.com/minikube/releases/latest/minikube-windows-amd64.exe>

Note : Kubectl and Minikube exe path location need to be set in the PATH variable using Environment settings in Advance properties of My computer

1. Virtual Box Download Link :

<https://download.virtualbox.org/virtualbox/5.1.34/VirtualBox-5.1.34-121010-Win.exe>

To use please check if your machine has virtualization enabled:

In window - Go to task manager and check in Performance for Virtualization. If it says enabled then you are good. If not, Go to Bios and in advance setting look for Virtualization and enable it.

In Unix :

$sudo modprobe msr

$sudo rdmsr 0x3a

if returns 3 or 5 means your good

also

$sudo kvm-ok

if returns 1 then good

1. If done with all above settings we can check with below command in PowerShell ( as an administrator) :

$minkube.exe start # The command to raise the kuberenttes cluster

For Errors if any :

Step 1: prepare your Windows machine for dual boot with and without Hyper-V

As Administrator, open a CMD and issue the commands

bcdedit /copy "{current}" /d "Hyper-V"

bcdedit /set "{current}" hypervisorlaunchtype off

bcdedit /set "{current}" description "non Hyper-V"

Step 2: Reboot the machine and choose the “non-Hyper-V” option.

If Still not works, uninstall Virtualbox and install any latest one

Ref : <https://vocon-it.com/2017/09/30/resolving-the-virtualbox-code-e_fail-problem-caused-by-hyper-v/>

1. **Lets Verify Our Installation By Running a Basic Check – LAB**
2. kubectl run hello-minikube --image=k8s.gcr.io/echoserver:1.4 --port=8080
3. kubectl expose deployment hello-minikube --type=NodePort
4. kubectl get pod
5. curl $(minikube.exe service hello-minikube --url)
6. kubectl delete services hello-minikube
7. kubectl delete deployment hello-minikube
8. minikube stop