Lab setup Docker and K8S

These are the mandatory requirements

1. Virtual box

2. Internet

3. Nat addresses enabled

4. Complete internet not behind proxies -

Docker and K8S internally, from the VM, will connect to the internet at various places to download docker images from hub.docker.com. Getting the lab setup to come up behind a proxy is a very difficult task and time consuming process. So an open internet is preferred

5. BIOS VT-x enabled for Virtual Machines to come up.

If the internet is open internet, then the below commands can be run as a part of the course itself

Steps to bring up Docker and Kubernetes

If hyperv is running

Search for "turn windows feature on or off"

uncheck "Hyper-V"

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Requires Virutalbox - If it is already installed then there is no need for a new setup. Else download and install from virtualbox.org

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# 1. minikube

download minikube-windows-amd64 from https://github.com/kubernetes/minikube/releases/tag/v0.25.0

2. rename the exe to minikube.exe

3. put the directory where minikube is saved into the path environment variable

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# 4. kubectl

Download kubectl from this location

https://storage.googleapis.com/kubernetes-release/release/v1.11.0/bin/windows/amd64/kubectl.exe

5. put kubectl in the same location as minikube

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# 6. minikube start

From the command prompt on windows execute "minikube start"

Please stay on C drive while doing this. Also start command prompt as an administrator

# 7. kubectl version

From the above command prompt execute "kubectl version"

Should show both client and server versions