

# Lab 5: Kubernetes Setup Guide

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## KubectI and Minikube Setup

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Please follow the instructions as per you OS:

### Mac/Linux ONLY

KubectI Installation Guide: <https://kubernetes.io/docs/tasks/tools/>

Minikube Installation Guide: <https://minikube.sigs.k8s.io/docs/start>

### Windows

1. Make sure docker is up and running. (Run: `docker run hello-world`)
2. Open Docker Desktop → Settings → Kubernetes → Enable Kubernetes → Apply and Restart
3. Run `kubectI version --client` to ensure that kubectI is working properly.
4. Uncheck the "Enable Kubernetes" Option that was checked in Step 2 and Apply and Restart again
5. Run `kubectI version --client` to ensure that kubectI is working properly.
6. Open Powershell as administrator and run `winget install minikube`
7. Close Powershell and re-open it and run `minikube start`
8. Run `kubectI get nodes` to check kubernetes is working. Expected output is:

```
[smaran@Smarans-MacBook-Air CC-Lab % kubectI get nodes
NAME          STATUS    ROLES          AGE    VERSION
minikube      Ready     control-plane  378d   v1.32.0
smaran@Smarans-MacBook-Air CC-Lab %
```