## **Docker and Kubernetes: The Complete Guide**

Docker Desktop's Kubernetes Setup and Installation - macOS

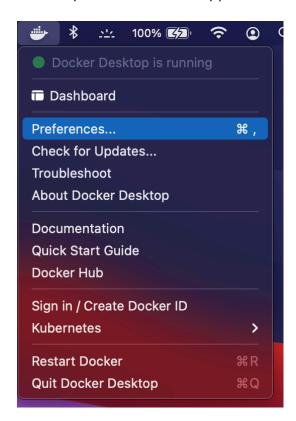
These instructions are for using Docker Desktop's built-in Kubernetes instead of Minikube on macOS. This is currently the best-supported and most recommended solution for running Kubernetes on macOS (including m1 and m2 ARM machines).

Note - It is assumed that Docker Desktop has already been installed and is in a working state.

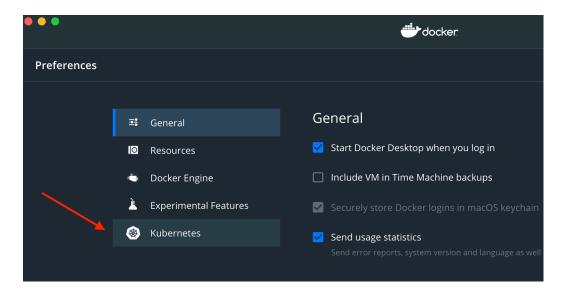
1. Click the **Docker icon** found on the right side of the macOS menu bar.



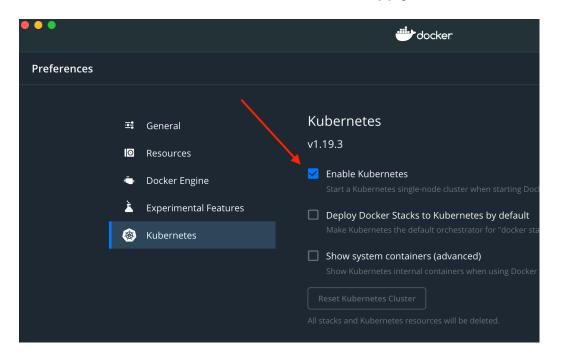
2. Click **Preferences** from the dropdown menu that appears.

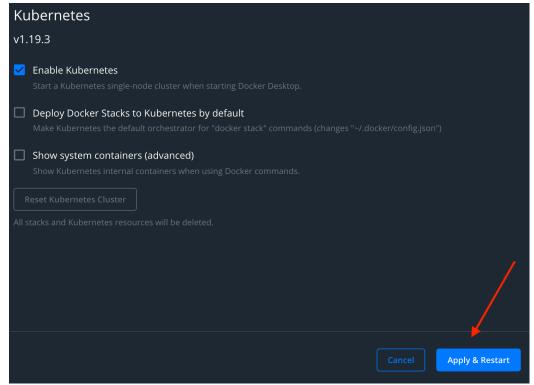


3. Click **Kubernetes** in the left side menu.

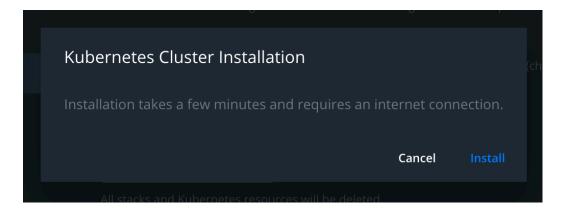


4. Check the Enable Kubernetes box and then click the Apply & Restart button.

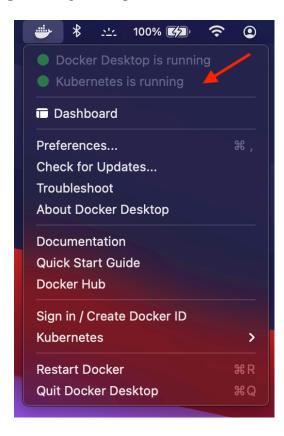




5. Click **Install** to allow the cluster installation.



6. After the installation dialog disappears, click the Docker icon to make sure there is a **Kubernetes is running** message and **green circle**.



7. Then, select **Kubernetes** in this dropdown menu and make sure the context is set to **docker-desktop** and not something else like minikube or kind.



8. Finally, open up your terminal and make sure that you can run kubectl version

```
→ ~ kubectl version
Client Version: version.Info{Major:"1", Minor:"19", GitVersion:"v1.19.3", GitCommit:"1e1
1e4a2108024935ecfcb2912226cedeafd99df", GitTreeState:"clean", BuildDate:"2020-10-14T12:5
0:19Z", GoVersion:"go1.15.2", Compiler:"gc", Platform:"darwin/amd64"}
Server Version: version.Info{Major:"1", Minor:"19", GitVersion:"v1.19.3", GitCommit:"1e1
1e4a2108024935ecfcb2912226cedeafd99df", GitTreeState:"clean", BuildDate:"2020-10-14T12:4
1:49Z", GoVersion:"go1.15.2", Compiler:"gc", Platform:"linux/amd64"}
→ ~ ■
```

Note - the client and server can be off by one minor version without error or issue.

## **Usage**

Going forward, any minikube commands run in the lecture videos can be ignored. Also, you will be using **localhost** to access the services running in your cluster instead of the minikube IP address.

For example, in the first project where we deploy our simple React app, using minikube we would visit:

192.168.99.101:31515

Instead, when using Docker Desktop's Kubernetes, we would visit:

localhost:31515