**Overview of the Guide**

**1. Minimum System Requirements**

* At least **2 vCPUs**, **2 GB RAM**, and **20 GB free disk space**.
* Requires a container or virtualization tool such as Docker, VirtualBox, KVM, Hyper-V, etc. [Urolime+12minikube+12wahnsinn+12](https://minikube.sigs.k8s.io/docs/start/?utm_source=chatgpt.com)

**2. Prerequisites**

* Ensure your machine supports virtualization (check VT-x or AMD-V with system tools). [K8s Docs](https://k8s-docs.netlify.app/en/docs/tasks/tools/install-minikube/?utm_source=chatgpt.com)
* Install **kubectl** to interact with the Kubernetes cluster. [Kubernetes](https://kubernetes.io/docs/tasks/tools/?utm_source=chatgpt.com)

**3. Platform-Specific Installation**

* **macOS (Homebrew or Manual)**
  + Via Homebrew:
  + brew install minikube
  + Or via binary:
  + curl -Lo minikube https://storage.googleapis.com/minikube/releases/latest/minikube-darwin-amd64
  + chmod +x minikube
  + sudo mv minikube /usr/local/bin/
* **Windows (Winget, Chocolatey, or Manual)**
  + Winget (if available):
  + winget install Kubernetes.minikube
  + Chocolatey:
  + choco install minikube
  + Follow the instructions in : <https://minikube.sigs.k8s.io/docs/start/?arch=%2Fwindows%2Fx86-64%2Fstable%2F.exe+download>

**4. Start Minikube**

(Make sure the Docker Desktop is running.)

Once installed, your cluster can be started with:

minikube start

Minikube will automatically detect and use a suitable driver (e.g., Docker, VirtualBox). You can override it using flags, such as:

minikube start --driver=virtualbox --cpus=2 --memory=2g

[Kubernetes+14Ambassador+14CloudQubes+14](https://www.getambassador.io/blog/kubernetes-with-minikube-on-windows-pro?utm_source=chatgpt.com)[minikube+1](https://minikube.sigs.k8s.io/docs/start/?utm_source=chatgpt.com)

**5. Verification Commands**

Ensure everything is set up correctly:

minikube status

kubectl cluster-info

kubectl get nodes

You should see a “Ready” node and working control endpoints. [minikube](https://minikube.sigs.k8s.io/docs/tutorials/kubernetes_101/module1/?utm_source=chatgpt.com)

**6. Optional: Access Kubernetes Dashboard**

For a graphical interface:

minikube dashboard

To avoid automatically opening a browser:

minikube dashboard --url

[Kubernetes](https://kubernetes.io/docs/tasks/tools/?utm_source=chatgpt.com)