**Minikube/ Kubectl User Guide**

* apt update
* To install packages required 🡪 sudo apt-get install apt-transport-https

To install [VirtualBox on Ubuntu](https://phoenixnap.com/kb/install-virtualbox-on-ubuntu), run the command:

* sudo apt install virtualbox virtualbox-ext-pack

Confirm the installation with **y** and hit **Enter**

**Install Minikube**

Run command 🡪 wget <https://storage.googleapis.com/minikube/releases/latest/minikube-linuxamd64>

Copy the downloaded file and store it into the **/usr/local/bin/minikube** directory with:

* sudo cp minikube-linux-amd64 /usr/local/bin/minikube
* sudo chmod 755 /usr/local/bin/minikube
* minikube version

### Install Kubectl

Download kubectl with the following command:

* curl -LO https://storage.googleapis.com/kubernetes-release/release/`curl -s

[https://storage.googleapis.com/kubernetes-release/release/stable.txt`/bin/linux/amd64/kubectl](https://storage.googleapis.com/kubernetes-release/release/stable.txt%60/bin/linux/amd64/kubectl)

* chmod +x ./kubectl
* sudo mv ./kubectl /usr/local/bin/kubectl
* kubectl version -o json
* minikube start
* kubectl config view
* kubectl cluster-info
* kubectl get nodes
* kubectl get pod
* minikube ssh
* exit
* minikube status
* minikube addons list
* minikube dashboard
* minikube dashboard –url

start minikube using sudo user, add non sudo user to docker group

root user not recommended.

* Create Image Using dockerfile /
* Run and verify Build
* Create Deployment.yml / services
* Define replica sets, min/max
* Define ports
* Check pods/deployment/services on the dashboard





