Setup minikube at your local and explore creating namespaces (Go through official documentation)

Step 1: Open Linux and install the latest update.

```
Welcome to Ubuntu 22.04.3 LTS (GNU/Linux 5.15.133.1-microsoft-standard-WSL2 x86_64)

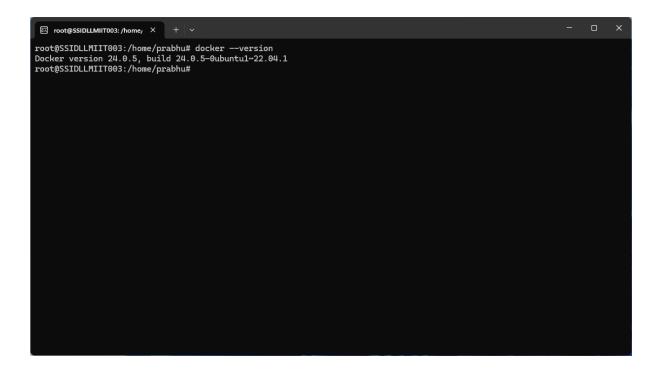
* Documentation: https://help.ubuntu.com
* Management: https://lubuntu.com/advantage

* Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s
    just raised the bar for easy, resilient and secure K8s cluster deployment.
    https://ubuntu.com/engage/secure-kubernetes-at-the-edge

This message is shown once a day. To disable it please create the
/home/prabhu/.hushlogin file.
prabhu/SSDILHNITH083:^$ sudo su
[sudo] password for prabhu:
root@SSIDLLNIITH083:/home/rabhu# apt update
Ign:1 https://pkg.jenkins.io/debian-stable binary/ Release [2044 B]
Get:2 https://pkg.jenkins.io/debian-stable binary/ Release.gpg [833 B]
Get:4 https://pkg.jenkins.io/debian-stable binary/ Packages [26.4 kB]

0% [Connecting to archive.ubuntu.com (91.189.91.81)] [Connecting to security.ubuntu.com (185.125.190.39)]
```

Step 2: Installing docker.



Step 3: Installing Kubernetes.

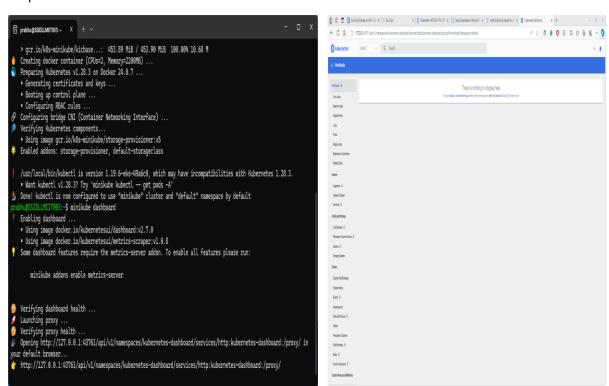
```
Foot@SSIDLLMIT003:/home/prabhu# curl -o kubectl https://amazon-eks.s3.us-west-2.amazonaws.com/1.19.6/2021-01-05/bin/lin ux/amd64/kubectl
% Total % Received % Xferd Average Speed Time Time Time Current
Dload Upload Total Spent Left Speed
100 57.4M 100 57.4M 0 0 882/k 0 0:01:06 0:01:06 --:--:-- 973k
root@SSIDLLMIT003:/home/prabhu# chmod +x ./kubectl
root@SSIDLLMIIT003:/home/prabhu# wv ./kubectl /usr/local/bin
root@SSIDLLMIIT003:/home/prabhu# kubectl version --short --client
Client Version: v1.19.6-eks-49a6c0
root@SSIDLLMIIT003:/home/prabhu#
```

Step 4: after that Install minikube.

```
Froot@SSIDLLMITT003:/home/prabhu# curl -LO https://storage.googleapis.com/minikube/releases/latest/minikube-linux-amd64 % Total % Received % Xferd Average Speed Time Time Time Current
Dload Upload Total Spent Left Speed
100 89.3M 100 89.3M 0 0 8571k 0 0.00:10 0.00:10 -::--:----11.7M
root@SSIDLLMITT003:/home/prabhu# sudo install minikube-linux-amd64 /usr/local/bin/minikube
root@SSIDLLMITT003:/home/prabhu#
```

Step 5: Then run the "minikube start" command (don't run this command in root user)

Step 6: To see the minikube dashboard run the command "minikube dashboard"



Step 7: creating namespace and changing the default namespace to new one

```
Eprabhu@SSIDLLNIIT003:-$ kubectl create namespace my-minikube
namespace/my-minikube created
prabhu@SSIDLLNIIT003:-$ kubectl get namespaces
NAME STATUS ACE
default Active 31m
kube-node-lease Active 31m
kube-public Active 31m
kube-pystem Active 31m
kube-pystem Active 31m
kuber-system Active 5mu6ss
no resources found in default namespace.
prabhu@SSIDLLNIIT003:-$ kubectl get pods
No resources found in default namespace.
prabhu@SSIDLLNIIT003:-$ kubectl get namespaces
NAME STATUS AGE
default Active 34m
kube-node-lease Active 34m
kube-public Active 24ds
kube-public Active 24ds
prabhu@SSIDLLNIIT003:-$ kubectl get pods
No resources found in my-minikube namespace.
prabhu@SSIDLLNIIT003:-$ kubectl get pods
No resources found in my-minikube namespace.
prabhu@SSIDLLNIIT003:-$
```