Lab Exercise 7- Install Minikube on Linux (Ubuntu /MacOS/Windows)

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BATCH 2 DEVOPS

Install Minikube on Windows

Prerequisites

- Docker Desktop installed

- Enable WSL2

Install Minikube

```
choco install minikube -y
```

OR download exe:

```
https://github.com/kubernetes/minikube/releases/latest
```

Start:

```
minikube start
```

```
PS C:\> minikube version
minikube version: v1.38.1
commit: c93a4cb9311efc66b90d33ea03f75f2c4120e9b0
PS C:\> minikube start --driver=docker
😄  minikube v1.38.1 on Microsoft Windows 11 Home Single Languag
e 25H2
✨  Using the docker driver based on user configuration
❗  Starting v1.39.0, minikube will default to "containerd" cont
ainer runtime. See #21973 for more info.
🚀  Using Docker Desktop driver with root privileges
👍  Starting "minikube" primary control-plane node in "minikube"
 cluster
🚜  Pulling base image v0.0.50 ...
💾  Downloading Kubernetes v1.35.1 preload ...
    > preloaded-images-k8s-v18-v1...:  30.77 KiB / 272.45 MiB [>
    > preloaded-images-k8s-v18-v1...:  46.77 KiB / 272.45 MiB [>
    > preloaded-images-k8s-v18-v1...:  78.76 KiB / 272.45 MiB [>
    > gcr.io/k8s-minikube/kicbase...:  0 B [_____
    > preloaded-images-k8s-v18-v1...:  110.76 KiB / 272.45 MiB
    > gcr.io/k8s-minikube/kicbase...:  0 B [_____
    > preloaded-images-k8s-v18-v1...:  190.76 KiB / 272.45 MiB
    > gcr.io/k8s-minikube/kicbase...:  0 B [_____
    > preloaded-images-k8s-v18-v1...:  318.76 KiB / 272.45 MiB
    > gcr.io/k8s-minikube/kicbase...:  0 B [_____
    > preloaded-images-k8s-v18-v1...:  494.76 KiB / 272.45 MiB
    > gcr.io/k8s-minikube/kicbase...:  1.60 KiB / 519.58 MiB [>_
    > preloaded-images-k8s-v18-v1...:  686.76 KiB / 272.45 MiB
    > gcr.io/k8s-minikube/kicbase...:  1.60 KiB / 519.58 MiB [>_
    > preloaded-images-k8s-v18-v1...:  894.76 KiB / 272.45 MiB
    > gcr.io/k8s-minikube/kicbase...:  1.60 KiB / 519.58 MiB  0.
    > preloaded-images-k8s-v18-v1...:  1.14 MiB / 272.45 MiB  0.
    > gcr.io/k8s-minikube/kicbase...:  1.60 KiB / 519.58 MiB  0.
    > preloaded-images-k8s-v18-v1...:  1.37 MiB / 272.45 MiB  0.
    > gcr.io/k8s-minikube/kicbase...:  33.76 KiB / 519.58 MiB  0
```



```
100.00% 1.03 Mi
🔥  Creating docker container (CPUs=2, Memory=4000MB) ...
🐳  Preparing Kubernetes v1.35.1 on Docker 29.2.1 ...
🔗  Configuring bridge CNI (Container Networking Interface) ...
🔎  Verifying Kubernetes components...
    ▪ Using image gcr.io/k8s-minikube/storage-provisioner:v5
🌟  Enabled addons: storage-provisioner, default-storageclass
🏄  Done! kubectl is now configured to use "minikube" cluster an
d "default" namespace by default
PS C:\> minikube status
minikube
type: Control Plane
host: Running
kubelet: Running
apiserver: Running
kubeconfig: Configured

PS C:\> kubectl get nodes
NAME        STATUS    ROLES          AGE    VERSION
minikube    Ready     control-plane  106s   v1.35.1
PS C:\>
```

Useful Minikube Commands (Lab Ready)

Command	Purpose
minikube dashboard	Open K8s UI
minikube stop	Stop cluster
minikube delete	Delete cluster
minikube ssh	Access node
kubectl get pods -A	View all pods