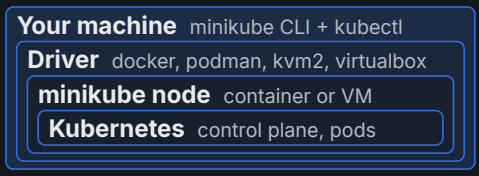
# minikube Local Kubernetes

## CONCEPTS

minikube runs a single-node cluster on your machine. With the docker driver the node is a container; with VM drivers it is a virtual machine.




Every cluster is a profile (default: minikube). Pass -p <name> to any command to target another one.

Services of type LoadBalancer stay pending until minikube tunnel is running in a separate terminal.

## CLUSTER LIFECYCLE

**`minikube start`**
Create the cluster or start a stopped one

**`minikube stop`**
Stop the cluster, keep its state

**`minikube delete`**
Delete the cluster

**`minikube status`**
Show host, kubelet and API server state

## START OPTIONS

**`minikube start --driver`** *`<driver>`*
Choose docker, podman, kvm2 or another

**`minikube start --cpus`** *`<n>`* **`--memory`** *`<size>`*
Size the node

**`minikube start --kubernetes-version`** *`<vX.Y.Z>`*
Pin the Kubernetes version

**`minikube config set driver`** *`<driver>`*
Make a driver the default

## PROFILES AND NODES

**`minikube start -p`** *`<name>`*
Create or start a named cluster

**`minikube profile list`**
List clusters and their status

## ADDONS

**`minikube addons list`**
Show all addons and their state

**`minikube addons enable`** *`<addon>`*
Turn an addon on

## REACHING SERVICES

**`minikube service`** *`<name>`*
Open a service in the browser

**`minikube service`** *`<name>`* **`--url`**
Print the URL only

**`minikube tunnel`**
Give LoadBalancer services an IP

**`minikube dashboard`**
Open the Kubernetes dashboard

## IMAGES

**`minikube image load`** *`<image>`*
Copy a local image into the cluster

**`eval $(minikube docker-env)`**
Point docker at the node's engine

Images with the :latest tag trigger a pull. Use a versioned tag or imagePullPolicy: IfNotPresent for local images.

## ACCESS AND DEBUGGING

**`minikube kubectl --`** *`<args>`*
Run kubectl matching the cluster

**`minikube ssh`**
Open a shell on the node

**`minikube logs`**
Show cluster logs for debugging