

Minikube Cheatsheet

1. Basic Commands

Start minikube: `minikube start`

Stop minikube: `minikube stop`

Delete cluster: `minikube delete`

Check status: `minikube status`

Get version: `minikube version`

Update check: `minikube update-check`

2. Custom Start Options

Start with memory/CPU: `minikube start --memory 5120 --cpus=4`

Specific k8s version: `minikube start --kubernetes-version v1.11.0`

Feature gates: `minikube start --kubernetes-version v1.11.0 --feature-gates=AdvancedAuditing=true`

3. Docker Integration

Use minikube's Docker daemon: `eval $(minikube docker-env)`

4. Addons

List addons: `minikube addons list`

Enable addon: `minikube addons enable <addon-name>`

Disable addon: `minikube addons disable <addon-name>`

Example: `minikube addons enable metrics-server`

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5. Cluster Info

Cluster info: `kubectl cluster-info`

Dashboard: `minikube dashboard`

Get IP: `minikube ip`

Logs: `minikube logs`

Service URL: `minikube service <service-name>`

6. Important Folders

Config file: `~/.minikube/machines/minikube/config.json`

Main config dirs: `~/.minikube`, `~/.kube`

Provisioner paths: `/tmp/hostpath-provisioner`, `/tmp/hostpath_pv`

Docker data: `/var/lib/docker`, `/data`, `/var/lib/localkube`

7. Mounting

Mount host folder: `minikube mount /host-path:/vm-path`

8. SSH Access

SSH into minikube: `minikube ssh`

Manual SSH: `ssh -i ~/.minikube/machines/minikube/id_rsa docker@<minikube-ip>`

9. CLI Help

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Run minikube --help to see available commands.

10. Drivers Supported

docker, virtualbox, podman, vmwarefusion, kvm2, hyperkit, hyperv, vmware, parallels, none

11. Kubectl Commands

Set context: `kubectl config use-context minikube`

Get versions: `kubectl version`

Create deployment: `kubectl create deployment hello-node --image=k8s.gcr.io/echoserver:1.4`

Get deployments: `kubectl get deployments`

Get pods: `kubectl get pods`

Get services: `kubectl get services`

Get events: `kubectl get events`

Expose deployment: `kubectl expose deployment hello-node --type=LoadBalancer --port=8080`

Delete service: `kubectl delete service hello-node`

Delete deployment: `kubectl delete deployment hello-node`

12. YAML Deployment Example

apiVersion: apps/v1

kind: Deployment

metadata:

name: helloworld-web

labels:

app: helloworld-web

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tier: frontend

spec:

replicas: 2

selector:

matchLabels:

app: helloworld-web

tier: frontend

template:

metadata:

labels:

app: helloworld-web

tier: frontend

spec:

containers:

- name: helloworld-web

image: ssmak/helloworld_web:latest

ports:

- containerPort: 80

- containerPort: 443

13. Resources

Docs: <https://github.com/kubernetes/minikube/tree/master/docs>

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