Install minikube

```
$ minikube version
```

```
 osboxes@osboxes  ~  minikube version
minikube version: v1.26.1
commit: 62e108c3dfdec8029a890ad6d8ef96b6461426dc
 osboxes@osboxes  ~
```

Install kubectl

```
$ kubectl version -o json  --client
```

```
 osboxes@osboxes  ~  ^[[200~kubectl version -o json  --client
zsh: bad pattern: ^[[200~kubectl
 ✘ osboxes@osboxes  ~  kubectl version -o json  --client
{
  "clientVersion": {
    "major": "1",
    "minor": "24",
    "gitVersion": "v1.24.3",
    "gitCommit": "aef86a93758dc3cb2c658dd9657ab4ad4afc21cb",
    "gitTreeState": "clean",
    "buildDate": "2022-07-13T14:30:46Z",
    "goVersion": "go1.18.3",
    "compiler": "gc",
    "platform": "linux/amd64"
  },
  "kustomizeVersion": "v4.5.4"
}
 osboxes@osboxes  ~
```

Start minikube

```
 osboxes@osboxes  ~  minikube start
😄  minikube v1.26.1 on Ubuntu 21.10
✨  Using the docker driver based on existing profile
👍  Starting control plane node minikube in cluster minikube
🚜  Pulling base image ...
🔄  Updating the running docker "minikube" container ...
🐳  Preparing Kubernetes v1.24.3 on Docker 20.10.17 ...
🔎  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 and "default" namespace by default
 osboxes@osboxes  ~
```

Check cluster status

```
 osboxes@osboxes  ~  kubectl cluster-info
Kubernetes control plane is running at https://192.168.49.2:8443
CoreDNS is running at https://192.168.49.2:8443/api/v1/namespaces/kube-system/services/kube-dns:dns/proxy

To further debug and diagnose cluster problems, use 'kubectl cluster-info dump'.
 osboxes@osboxes  ~
```

Check running nodes

```
 osboxes@osboxes  ~  kubectl get nodes
NAME       STATUS   ROLES           AGE   VERSION
minikube   Ready    control-plane   10d   v1.24.3
 osboxes@osboxes  ~
```

Access minikube VM using SSH

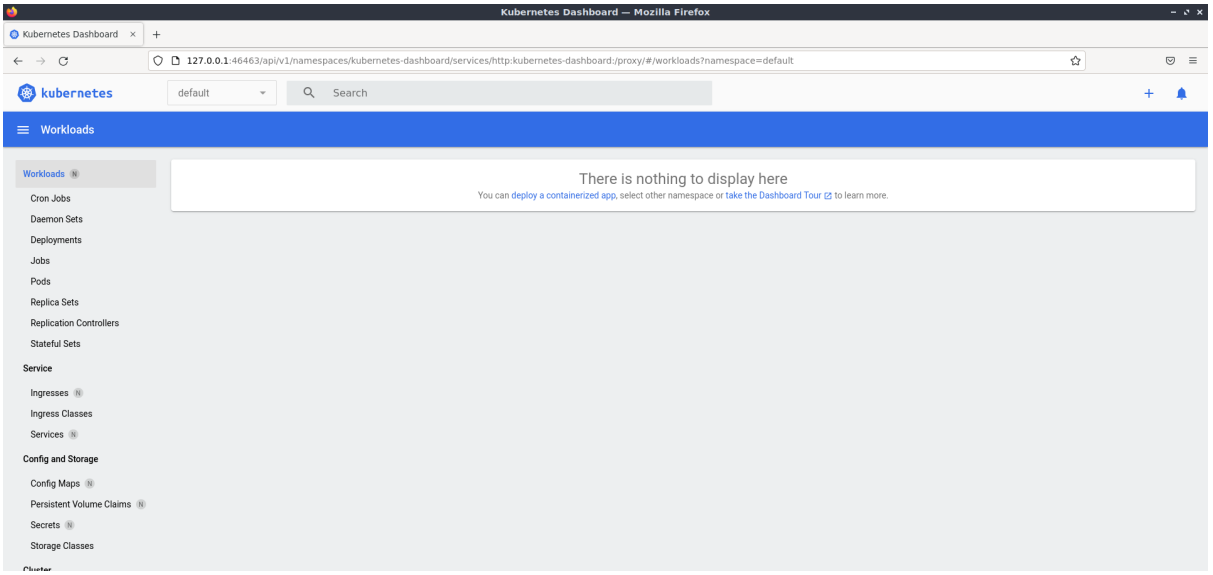
```
osboxes@osboxes ~ minikube ssh
docker@minikube:~$
```

View minikube addons

```
✘ osboxes@osboxes ~ minikube addons list
|-----------------------------|----------|-------------|--------------------------------|
|         ADDON NAME          | PROFILE  |    STATUS   |           MAINTAINER           |
|-----------------------------|----------|-------------|--------------------------------|
| ambassador                  | minikube | disabled    | 3rd party (Ambassador)         |
| auto-pause                  | minikube | disabled    | Google                         |
| csi-hostpath-driver         | minikube | disabled    | Kubernetes                     |
| dashboard                   | minikube | disabled    | Kubernetes                     |
| default-storageclass        | minikube | enabled ✅  | Kubernetes                     |
| efk                         | minikube | disabled    | 3rd party (Elastic)            |
| freshpod                    | minikube | disabled    | Google                         |
| gcp-auth                    | minikube | disabled    | Google                         |
| gvisor                      | minikube | disabled    | Google                         |
| headlamp                    | minikube | disabled    | 3rd party (kinvolk.io)         |
| helm-tiller                 | minikube | disabled    | 3rd party (Helm)               |
| inaccel                     | minikube | disabled    | 3rd party (InAccel             |
|                             |          |             | [info@inaccel.com])            |
| ingress                     | minikube | disabled    | Kubernetes                     |
| ingress-dns                 | minikube | disabled    | Google                         |
| istio                       | minikube | disabled    | 3rd party (Istio)              |
| istio-provisioner           | minikube | disabled    | 3rd party (Istio)              |
| kong                        | minikube | disabled    | 3rd party (Kong HQ)            |
| kubevirt                    | minikube | disabled    | 3rd party (KubeVirt)           |
| logviewer                   | minikube | disabled    | 3rd party (unknown)            |
| metallb                     | minikube | disabled    | 3rd party (MetalLB)            |
| metrics-server              | minikube | disabled    | Kubernetes                     |
| nvidia-driver-installer     | minikube | disabled    | Google                         |
| nvidia-gpu-device-plugin    | minikube | disabled    | 3rd party (Nvidia)             |
| olm                         | minikube | disabled    | 3rd party (Operator Framework) |
| pod-security-policy         | minikube | disabled    | 3rd party (unknown)            |
| portainer                   | minikube | disabled    | 3rd party (Portainer.io)       |
| registry                    | minikube | disabled    | Google                         |
| registry-aliases            | minikube | disabled    | 3rd party (unknown)            |
| registry-creds              | minikube | disabled    | 3rd party (UPMC Enterprises)   |
| storage-provisioner         | minikube | enabled ✅  | Google                         |
| storage-provisioner-gluster | minikube | disabled    | 3rd party (Gluster)            |
| volumesnapshots             | minikube | disabled    | Kubernetes                     |
|-----------------------------|----------|-------------|--------------------------------|
osboxes@osboxes ~
```

Launching minikube dashboard

```
osboxes@osboxes ~ minikube dashboard
🤹  Enabling dashboard ...
    ▪ Using image kubernetesui/dashboard:v2.6.0
    ▪ Using image kubernetesui/metrics-scraper:v1.0.8
🧐  Verifying dashboard health ...
🚀  Launching proxy ...
🧐  Verifying proxy health ...
```


Kubernetes Dashboard — Mozilla Firefox
Kubernetes Dashboard
127.0.0.1:46463/api/v1/namespaces/kubernetes-dashboard/services/http:kubernetes-dashboard:/proxy/#/workloads?namespace=default
kubernetes
default
Search
Workloads
Workloads
Cron Jobs
Daemon Sets
Deployments
Jobs
Pods
Replica Sets
Replication Controllers
Stateful Sets
Service
Ingresses
Ingress Classes
Services
Config and Storage
Config Maps
Persistent Volume Claims
Secrets
Storage Classes
There is nothing to display here
You can deploy a containerized app, select other namespace or take the Dashboard Tour to learn more.