

Mounting host folders in minikube (<https://suraj.pro/post/hostmount-minikube/>)

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supports PV of type `hostpath` .

minikube is configured to persist files stored under following directories.

- `/data`
- `/var/lib/localkube`
- `/var/lib/docker`
- `/tmp/hostpath_pv`
- `/tmp/hostpath-provisioner`

any other directory will not persist the data after reboot.

To mount host directory inside minikube,

```
$ minikube mount /host-mount-path:/vm-mount-path
```

for example,

```
$ minikube mount ~/mount-dir:/mountexample
Mounting /home/user/mount-dir/ into /mountexample on the minikubeVM
This daemon process needs to stay alive for the mount to still be accessible...
ufs starting
```

This process has to stay open, so open another terminal (if you want more than one mountpath, open one more terminal follow the above procedure)

Mounting inside container,

```
---
apiVersion: v1
kind: Pod
metadata:
  name: centos
spec:
  containers:
  - name: centos
    image: centos
    args:
    - bash
    stdin: true
    stdinOnce: true
    tty: true
    workingDir: "/mountexample"
    volumeMounts:
    - mountPath: "/mountexample"
      name: host-mount
  volumes:
  - name: host-mount
    hostPath:
      path: "/mountexample"
```

Another way is to create PV using following YAML and then you can map your host directory path to this directory path,

```
apiVersion: v1
kind: PersistentVolume
metadata:
  name: pv0001
spec:
  accessModes:
  - ReadWriteOnce
  capacity:
    storage: 5Gi
  hostPath:
    path: /data/pv0001/
```

Run `kubectl create -f <above yaml file>` to create PV.

As of now, only `hostpath` and `accessmode` (read write once) are supported.

Reference:

- <https://kubernetes.io/docs/getting-started-guides/minikube/>
(<https://kubernetes.io/docs/getting-started-guides/minikube/>)

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OR SIGN UP WITH DISQUS [?](#)**Kanwar Plaha** · 2 years ago

Great write-up but this allows only one host directory to be mounted. What if there are multiple pods and each needs a different directory to be made available?

[^](#) | [v](#) · [Reply](#) · [Share](#) ▾**ish1301** · 3 years ago

I was missing that important step of mounting my source directory to minikube, which caused lot of problem mount volumes. This tutorial was a life saver for me ... Thank you!!

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