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,

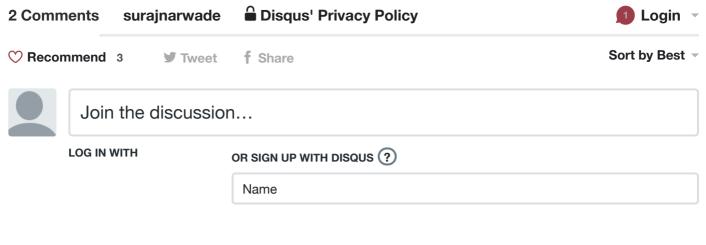
```
apiVersion: v1
kind: PersistentVolume
metadata:
   name: pv0001
spec:
   accessModes:
    - ReadWriteOnce
   capacity:
    storage: 5Gi
   hostPath:
     path: /data/pv0001/
```

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/)





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?



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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