ubuntu@ip-172-31-28-92:~$ vi empty-dir-vol.yaml

ubuntu@ip-172-31-28-92:~$ kubectl create -f empty-dir-vol.yaml

pod/sharevol created

ubuntu@ip-172-31-28-92:~$ kubectl get pods | grep sharevol

sharevol 0/1 Pending 0 89s

ubuntu@ip-172-31-28-92:~$ kubectl get pods | grep sharevol

sharevol 2/2 Running 0 6m36s

ubuntu@ip-172-31-28-92:~$ kubectl describe pod sharevol

Name: sharevol

Namespace: default

Priority: 0

Node: ip-172-31-19-243/172.31.19.243

Start Time: Wed, 17 Nov 2021 00:46:00 +0000

Labels: <none>

Annotations: cni.projectcalico.org/containerID: ca71031e16fd5d2f40e9e9f6f80111c259d95fa96983e1e98645a4454a93c453

cni.projectcalico.org/podIP: 192.168.49.93/32

cni.projectcalico.org/podIPs: 192.168.49.93/32

Status: Running

IP: 192.168.49.93

IPs:

IP: 192.168.49.93

Containers:

c1:

Container ID: docker://bc990b3d5d12287409033e9375040ee240b0602557232df83ada2490d3653d3a

Image: centos:7

Image ID: docker-pullable://centos@sha256:9d4bcbbb213dfd745b58be38b13b996ebb5ac315fe75711bd618426a630e0987

Port: <none>

Host Port: <none>

Command:

bin/bash

-c

sleep 10000

State: Running

Started: Wed, 17 Nov 2021 00:46:26 +0000

Ready: True

Restart Count: 0

Environment: <none>

Mounts:

/tmp/xchange from xchange (rw)

/var/run/secrets/kubernetes.io/serviceaccount from default-token-v88h7 (ro)

c2:

Container ID: docker://668cc97a4413f864eb9950c7ab7e7f6aa978176f4c8a5d2579062748e93fd442

Image: centos:7

Image ID: docker-pullable://centos@sha256:9d4bcbbb213dfd745b58be38b13b996ebb5ac315fe75711bd618426a630e0987

Port: <none>

Host Port: <none>

Command:

bin/bash

-c

sleep 10000

State: Running

Started: Wed, 17 Nov 2021 00:46:26 +0000

Ready: True

Restart Count: 0

Environment: <none>

Mounts:

/tmp/data from xchange (rw)

/var/run/secrets/kubernetes.io/serviceaccount from default-token-v88h7 (ro)

Conditions:

Type Status

Initialized True

Ready True

ContainersReady True

PodScheduled True

Volumes:

xchange:

Type: EmptyDir (a temporary directory that shares a pod's lifetime)

Medium:

SizeLimit: <unset>

default-token-v88h7:

Type: Secret (a volume populated by a Secret)

SecretName: default-token-v88h7

Optional: false

QoS Class: BestEffort

Node-Selectors: <none>

Tolerations: node.kubernetes.io/not-ready:NoExecute op=Exists for 300s

node.kubernetes.io/unreachable:NoExecute op=Exists for 300s

Events:

Type Reason Age From Message

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Warning FailedScheduling 9m2s (x5 over 13m) default-scheduler 0/3 nodes are available: 1 node(s) had taint {node-role.kubernetes.io/master: }, that the pod didn't tolerate, 2 node(s) had taint {node.kubernetes.io/unreachable: }, that the pod didn't tolerate.

Warning FailedScheduling 8m12s default-scheduler 0/3 nodes are available: 1 node(s) had taint {node-role.kubernetes.io/master: }, that the pod didn't tolerate, 1 node(s) had taint {node.kubernetes.io/not-ready: }, that the pod didn't tolerate, 1 node(s) had taint {node.kubernetes.io/unreachable: }, that the pod didn't tolerate.

Normal Scheduled 8m2s default-scheduler Successfully assigned default/sharevol to ip-172-31-19-243

Normal Pulling 7m50s kubelet Pulling image "centos:7"

Normal Pulled 7m37s kubelet Successfully pulled image "centos:7" in 13.50228779s

Normal Created 7m37s kubelet Created container c1

Normal Started 7m36s kubelet Started container c1

Normal Pulled 7m36s kubelet Container image "centos:7" already present on machine

Normal Created 7m36s kubelet Created container c2

Normal Started 7m36s kubelet Started container c2

[root@sharevol /]# mount | grep xchange

/dev/root on /tmp/xchange type ext4 (rw,relatime,discard)

[root@sharevol /]# vi /tmp/xchange/data

[root@sharevol /]# cat /tmp/xchange/data

Test data from container-1

[root@sharevol /]# exit

exit

ubuntu@ip-172-31-28-92:~$ kubectl exec -it sharevol -c c2 bash

kubectl exec [POD] [COMMAND] is DEPRECATED and will be removed in a future version. Use kubectl exec [POD] -- [COMMAND] instead.

[root@sharevol /]# mount | grep xchange

[root@sharevol /]# mount | grep /tmp/data

/dev/root on /tmp/data type ext4 (rw,relatime,discard)

[root@sharevol /]# cd /tmp/data

[root@sharevol data]# ls

data

[root@sharevol data]# cat data

Test data from container-1