Lab: Working with emptyDir

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root@AnushaKubernetes:~/kubernetes# nano storage-emptydir.yml
root@AnushaKubernetes:~/kubernetes#  cat -n ~/kubernetes/storage-e
mptydir.yml
     1  apiVersion: v1
     2  kind: Pod
     3  metadata:
     4    name: mtdir-pod
     5  spec:
     6    containers:
     7    - name: myvolumes-container
     8      image: alpine
     9      command: ['sh', '-c', 'echo The Bench Container 1 is R
unning; sleep 360']
    10      volumeMounts:
    11      - mountPath: /demo
    12        name: demo-volume
    13    volumes:
    14    - name: demo-volume
    15      emptyDir: {}
root@AnushaKubernetes:~/kubernetes#  kubectl apply -f ~/kubernetes
/storage-emptydir.yml
pod/mtdir-pod created
root@AnushaKubernetes:~/kubernetes# kubectl get pod
NAME          READY    STATUS     RESTARTS    AGE
mtdir-pod     1/1      Running    0           11s
root@AnushaKubernetes:~/kubernetes# kubectl exec mtdir-pod -i -t -
- /bin/sh
/ #
/ # pwd
/
/ #
/ # ls
bin    dev    home    media   opt    root    sbin    sys    usr
demo   etc    lib     mnt     proc   run     srv     tmp    var
/ # ls demo/
/ #  echo test > demo/textfile
/ # ls demo/
textfile
/ # cat demo/textfile
```

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/ # cat demo/textfile
test
/ #  exit
root@AnushaKubernetes:~/kubernetes# kubectl delete pod mtdir-pod
pod "mtdir-pod" deleted
root@AnushaKubernetes:~/kubernetes# nano storage-emptydir-multi.ym
l
root@AnushaKubernetes:~/kubernetes# cat -n ~/kubernetes/storage-em
ptydir-multi.yml
     1  apiVersion: v1
     2  kind: Pod
     3  metadata:
     4    name: demo-pod
     5  spec:
     6    containers:
     7    - name: myvolumes-container-1
     8      image: alpine
     9      command: ['sh', '-c', 'echo The Bench Container 1 is R
unning; sleep 3600']
    10      volumeMounts:
    11      - mountPath: /demo1
    12        name: demo-volume
    13    - name: myvolumes-container-2
    14      image: alpine
    15      command: ['sh', '-c', 'echo The Bench Container 2 is R
unning; sleep 3600']
    16      volumeMounts:
    17      - mountPath: /demo2
    18        name: demo-volume
    19    - name: myvolumes-container-3
    20      image: alpine
    21      command: ['sh', '-c', 'echo The Bench Container 3 is R
unning; sleep 3600']
    22      volumeMounts:
    23      - mountPath: /demo3
    24        name: demo-volume
    25    volumes:
    26    - name: demo-volume
    27      emptyDir: {}
```

```
    27        emptyDir: {}
root@AnushaKubernetes:~/kubernetes# kubectl create -f ~/kubernetes
/storage-emptydir-multi.yml
pod/demo-pod created
root@AnushaKubernetes:~/kubernetes# kubectl get pod
NAME        READY   STATUS            RESTARTS   AGE
demo-pod    0/3     ContainerCreating  0         8s
root@AnushaKubernetes:~/kubernetes# kubectl get pod
NAME        READY   STATUS     RESTARTS   AGE
demo-pod    3/3     Running    0          22s
root@AnushaKubernetes:~/kubernetes# kubectl exec demo-pod -c myvol
umes-container-1 -i -t \-- /bin/sh
/ #  echo test1 > demo1/textfile1
/ #  exit
root@AnushaKubernetes:~/kubernetes# kubectl exec demo-pod -c myvol
umes-container-2 -i -t \-- /bin/sh
/ # ls
bin    dev    home    media   opt    root   sbin    sys    usr
demo2  etc    lib     mnt     proc   run    srv     tmp    var
/ # ls demo2
textfile1
/ # echo test2 > demo2/textfile2
/ # exit
root@AnushaKubernetes:~/kubernetes# kubectl exec demo-pod -c myvol
umes-container-3 -i -t \-- /bin/sh
/ # ls
bin    dev    home    media   opt    root   sbin    sys    usr
demo3  etc    lib     mnt     proc   run    srv     tmp    var
/ # ls demo3
textfile1   textfile2
/ # echo test3 > demo3/textfile3
/ # ls demo3/
textfile1   textfile2   textfile3
/ # cat demo3/textfile1
test1
/ # cat demo3/textfile2
test2
/ # cat demo3/textfile3
test3
```

```
root@AnushaKubernetes:~/kubernetes# kubectl get pod
NAME        READY   STATUS            RESTARTS   AGE
demo-pod    0/3     ContainerCreating  0         8s
root@AnushaKubernetes:~/kubernetes# kubectl get pod
NAME        READY   STATUS     RESTARTS   AGE
demo-pod    3/3     Running    0          22s
root@AnushaKubernetes:~/kubernetes# kubectl exec demo-pod -c myvol
umes-container-1 -i -t \-- /bin/sh
/ #  echo test1 > demo1/textfile1
/ #  exit
root@AnushaKubernetes:~/kubernetes# kubectl exec demo-pod -c myvol
umes-container-2 -i -t \-- /bin/sh
/ # ls
bin    dev    home    media   opt    root   sbin    sys    usr
demo2  etc    lib     mnt     proc   run    srv     tmp    var
/ # ls demo2
textfile1
/ # echo test2 > demo2/textfile2
/ # exit
root@AnushaKubernetes:~/kubernetes# kubectl exec demo-pod -c myvol
umes-container-3 -i -t \-- /bin/sh
/ # ls
bin    dev    home    media   opt    root   sbin    sys    usr
demo3  etc    lib     mnt     proc   run    srv     tmp    var
/ # ls demo3
textfile1   textfile2
/ # echo test3 > demo3/textfile3
/ # ls demo3/
textfile1   textfile2   textfile3
/ # cat demo3/textfile1
test1
/ # cat demo3/textfile2
test2
/ # cat demo3/textfile3
test3
/ # exit
root@AnushaKubernetes:~/kubernetes# kubectl delete pod demo-pod
pod "demo-pod" deleted
```