

Module 5: Managing State with Deployments

DEMO-2.5

edureka!

edureka!

© Brain4ce Education Solutions Pvt. Ltd.

DEMO Steps:

Mounting a secret file inside a pod

1. Create a file that you want to mount as a secret

Syntax: vi file.txt

```
secret demo
```

2. Create the secret using kubectl create command

Syntax: kubectl create secret generic secretName --from-file=/file/path/file.txt

```
edureka@kmaster:~/kube-demo$ kubectl create secret generic secret-file --from-file=./file.txt
secret/secret-file created
edureka@kmaster:~/kube-demo$ kubectl get secrets
```

NAME	TYPE	DATA	AGE
dashboard-token-znw2q	kubernetes.io/service-account-token	3	7d
default-token-948l9	kubernetes.io/service-account-token	3	7d
ng-secret	opaque	1	1d
secret-file	Opaque	1	29m

3. You can verify the secret content by running

Syntax: kubectl get secret secretName -o yaml

```
edureka@kmaster:~/kube-demo$ kubectl get secret secret-file -o yaml
apiVersion: v1
data:
  file.txt: c2VjcGV0IGRlbW8K
kind: Secret
metadata:
  creationTimestamp: 2018-09-12T11:58:52Z
  name: secret-file
  namespace: default
  resourceVersion: "132869"
  selfLink: /api/v1/namespaces/default/secrets/secret-file
  uid: 37c4468c-b683-11e8-b32d-0800277e6765
type: Opaque
```

- Now, use the secret inside the your deployment/pod spec file by specifying mount path

```
apiVersion: apps/v1beta2
kind: Deployment
metadata:
  name: nginx-dep
spec:
  replicas: 1
  selector:
    matchLabels:
      app: nginx
  template:
    metadata:
      labels:
        app: nginx
    spec:
      volumes:
      - name: edureka
        secret:
          secretName: secret-file
      containers:
      - name: nginx
        image: nginx
        ports:
        - containerPort: 80
        volumeMounts:
        - mountPath: /etc/pass/
          name: edureka
```

- Create the deployment/pod

Syntax: `kubectl apply -f nginx-dep.yaml`

```
edureka@kmaster:~/kube-demo$ kubectl apply -f nginx-dep.yaml
deployment.apps/nginx-dep created
```

- To verify the secret inside the pod container execute

Syntax: `kubectl exec -it podName bash`

```
edureka@kmaster:~/kube-demo$ kubectl exec -it nginx-dep-7566f469d6-gpl95 bash
```

7. Change your directory to the mount directory and check the file you've passed through secret

Syntax: `cd /path/to/mount/directory`
`cat file.txt`

```
root@nginx-dep-7566f469d6-gpl95:/# cd /etc/pass
root@nginx-dep-7566f469d6-gpl95:/etc/pass# ls
file.txt
root@nginx-dep-7566f469d6-gpl95:/etc/pass# cat file.txt
secret demo
```

edureka!