### midPoint Kubernetes Deployment Steps (Command Reference)

#### 1. Clone Repository

git clone https://github.com/Evolveum/midpoint-kubernetes.git

#### 2. Create and Apply Persistent Volumes and PVCs

vi pvc-midpoint-data.yaml  
vi pv-midpoint-home.yaml  
vi pv-midpoint-data.yaml  
kubectl apply -f pvc-midpoint-data.yaml

#### 3. Create Namespace

kubectl create ns midpoint-deployment

#### 4. Apply PVC Again After Namespace Creation

kubectl apply -f pvc-midpoint-data.yaml

#### 5. Create Init Secret for Admin Password

kubectl create secret generic midpoint-init-pass \  
 --from-literal=passwd=thulasi@123 -n midpoint-deployment

#### 6. Deploy MidPoint Components

cd midpoint-kubernetes/deployment/simple  
kubectl apply -f deployment/simple/

#### 7. Apply Persistent Volumes

cd ~/midpoint-kubernetes  
kubectl apply -f pv-midpoint-data.yaml  
kubectl apply -f pv-midpoint-home.yaml

#### 8. Check Pod and PVC Status

kubectl get pods -n midpoint-deployment  
kubectl get pvc -n midpoint-deployment

#### 9. Troubleshoot Pods

kubectl delete pod midpoint-0 midpoint-repository-0 -n midpoint-deployment  
kubectl describe pod midpoint-repository-0 -n midpoint-deployment  
mkdir -p /mnt/data/midpoint-repository

#### 10. Expose MidPoint with NodePort

kubectl patch svc midpoint -n midpoint-deployment \  
 -p '{"spec": {"type": "NodePort", "ports": [{"port": 8080, "targetPort": 8080, "nodePort": 30080}]}}'

#### 11. Verify Access

curl -kv http://18.191.186.182:30080/midpoint

#### 12. Restart and Logs (if needed)

kubectl delete pod midpoint-repository-0 midpoint-0 -n midpoint-deployment  
kubectl logs -f midpoint-0 -n midpoint-deployment

#### 13. Final Check

kubectl get svc -n midpoint-deployment  
kubectl get pods -n midpoint-deployment  
curl http://10.99.42.69:8080/midpoint

#### 14. Login Credentials

Username: administrator  
Password: Test5ecr3t

This document records all key steps and commands used to deploy midPoint on Kubernetes for future reference.

PV and PVC files here.

cat pvc-midpoint-data.yaml

apiVersion: v1

kind: PersistentVolumeClaim

metadata:

name: midpoint-data-midpoint-repository-0

namespace: midpoint-deployment

spec:

volumeName: pv-midpoint-data

accessModes:

- ReadWriteOnce

resources:

requests:

storage: 1Gi

cat pv-midpoint-data.yaml

apiVersion: v1

kind: PersistentVolume

metadata:

name: pv-midpoint-data

spec:

capacity:

storage: 1Gi

accessModes:

- ReadWriteOnce

hostPath:

path: /mnt/data/midpoint-repository

persistentVolumeReclaimPolicy: Retain

claimRef:

namespace: midpoint-deployment

name: midpoint-data-midpoint-repository-0

cat pv-midpoint-home.yaml

apiVersion: v1

kind: PersistentVolume

metadata:

name: pv-midpoint-home

spec:

capacity:

storage: 1Gi

accessModes:

- ReadWriteOnce

hostPath:

path: /mnt/data/midpoint

persistentVolumeReclaimPolicy: Retain

claimRef:

namespace: midpoint-deployment

name: midpoint-home-midpoint-0

Commands started.

8 git clone https://github.com/Evolveum/midpoint-kubernetes.git

9 yum install git -y

10 git clone https://github.com/Evolveum/midpoint-kubernetes.git

11 cd midpoint-kubernetes/

12 ll

13 cd

14 ll

15 vi pvc-midpoint-data.yaml

16 vi pv-midpoint-data.yaml

17 vi pv-midpoint-home.yaml

18 kubectl create ns midpoint-deployment

19 kubectl apply -f pvc-midpoint-data.yaml

20 kubectl create secret generic midpoint-init-pass --from-literal=passwd=Thulasi@123 -n midpoint-deployment

21 cd midpoint-kubernetes/deployment/simple

22 vi 401\_statefulset-repository.yaml

23 cd

24 cd midpoint-kubernetes/

25 kubectl apply -f deployment/simple/

26 cd

27 ll

28 kubectl apply -f pv-midpoint-data.yaml

29 kubectl apply -f pv-midpoint-home.yaml

30 mkdir -p /mnt/data/midpoint-repository

31 kubectl get pvc -n midpoint-deployment

32 kubectl get pods -n midpoint-deployment

33 kubectl get svc -n midpoint-deployment

34 kubectl get pods -n midpoint-deployment

35 kubectl logs -f midpoint-0 -n midpoint-deployment

36 kubectl get svc -n midpoint-deployment

37 curl -kv 10.104.112.238:8080/midpoint

38 kubectl edit svc midpoint -n midpoint-deployment

39 kubectl get svc -n midpoint-deployment