

LAB | K8s deployment for Redis

Created a single-Replica **Redis** Deployment on Kubernetes.

redis-deployment	1/1	1	1	24s
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redis-deployment-d5cb85bc6-lh4br	1/1	Running	0	31s
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redis-service	NodePort	10.101.251.26	<none>	6379:30079/TCP	25s
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Option A: Connect from a Pod in the Cluster

```
vijayagagla@DESKTOP-FP40P26:~/kubernetes/deployment-lab$ kubectl run test-client --rm -it --image=redis:6.2 -- bash
All commands and output from this session will be recorded in container logs, including credentials and sensitive information passed
through the command prompt.
If you don't see a command prompt, try pressing enter.
root@test-client:/data# redis-cli -h redis-service ping
PONG
root@test-client:/data# redis-cli -h redis-service set mykey "HelloK8s"
redis-cli -h redis-service get mykey
OK
"HelloK8s"
root@test-client:/data#
```

```
vijayagagla@DESKTOP-FP40P26:~/kubernetes/deployment-lab$ kubectl get nodes -o wide
NAME          STATUS    ROLES          AGE   VERSION   INTERNAL-IP   EXTERNAL-IP   OS-IMAGE                                     KERNEL-VERSION
minikube      Ready     control-plane   3d5h  v1.35.0   192.168.49.2  <none>        Debian GNU/Linux 12 (bookworm)            5.15.167.4-microso
ft-standard-WSL2  docker://29.2.0
```

```
vijayagagla@DESKTOP-FP40P26:~/kubernetes/deployment-lab$ kubectl get svc redis-service
NAME          TYPE        CLUSTER-IP   EXTERNAL-IP   PORT(S)          AGE
redis-service  NodePort    10.101.251.26 <none>        6379:30079/TCP   5m43s
```

Option B: Connect Externally (NodePort)

```
vijayagagla@DESKTOP-FP40P26:~/kubernetes/deployment-lab$ minikube ip
192.168.49.2
vijayagagla@DESKTOP-FP40P26:~/kubernetes/deployment-lab$ redis-cli -h 192.168.49.2 -p 30079 ping
PONG
```