

**LOGZILLA DOCUMENTATION**

# Kubernetes Redis

Redis Kubernetes manifest for LogZilla, providing PersistentVolumeClaim, StatefulSet, and Service definitions for caching and queue workloads

Kubernetes Deployment Overview · Generated May 3, 2026 · [logzilla.ai/docs/kubernetes-deployment/redis](https://logzilla.ai/docs/kubernetes-deployment/redis)

## Redis manifest

```
apiVersion: v1
kind: PersistentVolumeClaim
metadata:
  name: redis-pvc
spec:
  accessModes:
    - ReadWriteOnce
  resources:
    requests:
      storage: 100Mi
---
apiVersion: apps/v1
kind: StatefulSet
metadata:
  name: redis
spec:
  serviceName: redis
  selector:
    matchLabels:
      name: redis
  template:
    metadata:
      labels:
        name: redis
    spec:
      containers:
        - name: redis
          image: library/redis:7.4.0-alpine
          args: ["redis-server", "--loglevel", "warning"]
          resources:
            requests:
              memory: 500Mi
              cpu: 500m
            limits:
              memory: 2Gi
              cpu: 1000m
          ports:
            - containerPort: 6379
          livenessProbe:
            exec:
              command:
                - redis-cli
                - --raw
                - incr
                - ping
            failureThreshold: 5
            periodSeconds: 1
            timeoutSeconds: 15
```

```
    volumeMounts:
      - name: redis
        mountPath: /data
        readOnly: false
    volumes:
      - name: redis
        persistentVolumeClaim:
          claimName: redis-pvc
---
apiVersion: v1
kind: Service
metadata:
  name: redis
spec:
  ports:
    - port: 6379
      targetPort: 6379
      protocol: TCP
  type: ClusterIP
  selector:
    name: redis
```

## Notes

- Adjust the PVC size and StorageClass as required by the environment.