Running Your First Java Application

Running a Java application in Kubernetes requires you to create different Kubernetes resources. A resource will use the Docker image, which contains all the application dependencies.

Running a Java application would require packaging all dependencies in the Docker image.
The easiest way to run a container on the Kubernetes cluster is to use the kubectl run command.
Create a pod using the kubectl run command:

kubectl run hello-java –image=roynilanjan1/hello-java

This creates a deployment. Check the status of deployment as follows:

kubectl get deployments

Check the pods in the deployment like so:

kubectl get pods

The first run of the pod requires the Docker image to be downloaded on the node where the pod is created. This is indicated by the status ContainerCreating . Adding the -w switch watches for any change in the object's state, and the output is updated accordingly.

Check logs from the pod using the pod's name:

kubectl logs hello-java-888248798-8ingx