

Node-helloWorld Project

1- Deploy the Application

Define your Deployment manifest for the Node.js app, apply it to the cluster, and confirm that your Pod comes up in the Ready state.

Deliverable

Deployment YAML and evidence that the Pod is running and healthy.

- Start Minikube using

```
minikube start --driver=docker
```

- Make sure that it is properly running

```
minikube status
```

the output should be

```
minikube
type: Control Plane
host: Running
kubelet: Running
apiserver: Running
kubeconfig: Configured
```

- Now, navigate to the project directory and apply the deployment

```
kubectl apply -f deployment.yaml
```

- To make sure that the deployment have been successfully deployed, run this command to only watch the labeled nodejs-hello pods

```
kubectl get pods -o wide -l app=nodejs-hello -w
```

- After checking that the pods are running, to test their reachability, we have to create a new pod on the same node to curl any of the deployed pods' ips and the port they are listening on **Port:3000**, this is a curl pod to use for the test run command

```
kubectrl run curl-pod --image=curlimages/curl --rm -it -- /bin/sh
```

This will open sh in a curl pod, now curl one of the pods ips on the port 3000

```
curl {pod ip}:3000
```

the output should be

```
Hello Node!
```