

Setting up Ingress using Nginx-Ingress-controller

Steps:

1. **Install the NGINX Ingress controller**

```
$ kubectl apply -f
```

```
https://raw.githubusercontent.com/kubernetes/ingress-nginx/controller-v1.3.0/deploy/static/provider/cloud/deploy.yaml
```

2. **Check the Ingress controller pod is running**

```
$ kubectl get pods --namespace ingress-nginx
```

3. **Check the NGINX Ingress controller has been assigned a public IP address**

```
$ kubectl get service ingress-nginx-controller --namespace=ingress-nginx
```

4. **Write a .yml file to create deployment and service**

Deployment-service.yml

```
apiVersion: apps/v1
```

```
kind: Deployment
```

```
metadata:
```

```
  name: myapp
```

```
  labels:
```

```
    app: myapp
```

```
  namespace: default
```

```
spec:
```

```
  replicas: 1
```

```
  selector:
```

```
    matchLabels:
```

```
      app: myapp
```

```
  template:
```

```
    metadata:
```

```
      name: myapp
```

```
      labels:
```

```
        app: myapp
```

```
    spec:
```

```
      containers:
```

```
        - name: react-app
```

```
          image: atulaman/myapp_react
```

```
---
```

```
apiVersion: v1
```

```
kind: Service
```

```
metadata:
```

```
  name: myapp-service
```

```
  labels:
```

```
  app: myapp
  namespace: default
spec:
  type: NodePort
  ports:
    - port: 80
      targetPort: 3000
      nodePort: 30009
      protocol: TCP
  selector:
    app: myapp
```

5. Execute

```
$ kubectl apply -f Deployment-service.yml
```

6. Write .yaml file to create ingress

Ingress.yaml

```
apiVersion: networking.k8s.io/v1
kind: Ingress
metadata:
  name: myapp-ingress
  namespace: default
  annotations:
    nginx.ingress.kubernetes.io/rewrite-target: /
spec:
  ingressClassName: nginx
  rules:
    - host: "mikku.atulaman.site"
      http:
        paths:
          - path: /
            pathType: Prefix
        backend:
          service:
            name: myapp-service
            port:
              number: 80
```

7. Execute

```
$ Kubectl apply -f Ingress.yaml
```

References:

- <https://spacelift.io/blog/kubernetes-ingress>