


# Services

In Kubernetes, a "Service" is an abstraction that defines a logical set of Pods and a policy by which to access them. Kubernetes Services provide a way to expose applications running on a set of Pods as network services. Here are the key points about Services in Kubernetes:

## ► Key concepts


- Create service.yml

```
apiVersion: v1
kind: Service
metadata:
  name: nginx-service
spec:
  selector:
    app: nginx
  ports:
    - protocol: TCP
      port: 80
      targetPort: 80
      nodePort: 30007 # This port can be any valid port within the NodePort range
  type: NodePort
```

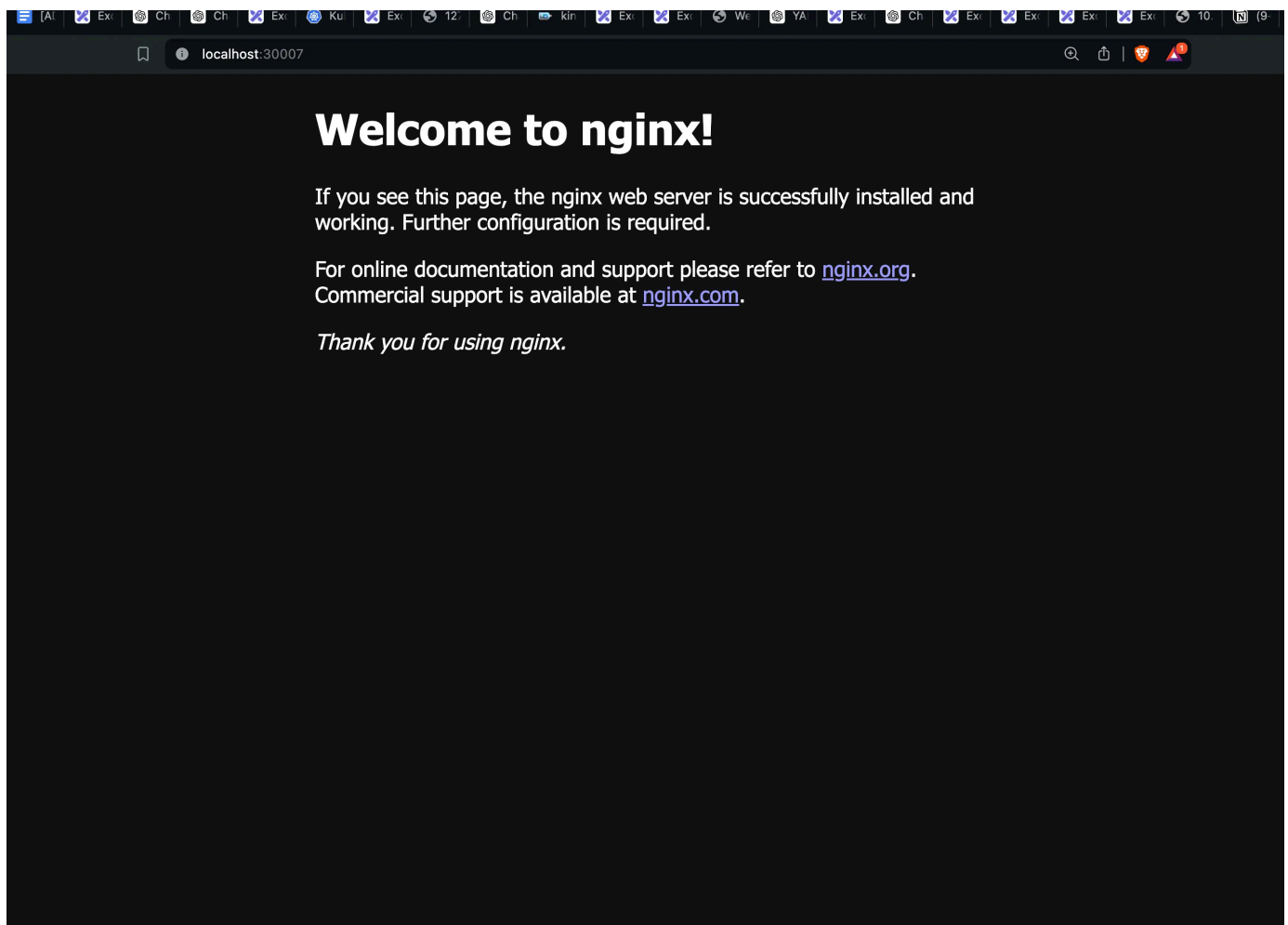


- Restart the cluster with a few extra ports exposed (create kind.yml)

```
kind: Cluster
apiVersion: kind.x-k8s.io/v1alpha4
nodes:
  - role: control-plane
    extraPortMappings:
      - containerPort: 30007
        hostPort: 30007
  - role: worker
  - role: worker
```




- Re apply the deployment and the service
- Visit **localhost:30007**



## Types of services

1. ClusterIP
2. NodePort
3. Loadbalancer