Kubernetes
Services

Contents

Overview

A Service exposes a set of Pods and allows a way of accessing them. Access can be allowed from within or outside the cluster.

Service Configuration

This is an example of a service configuration for a service like NGINX which can be applied by using the **kubectl** tool.

```
apiVersion: v1
kind: Service
metadata:
  name: nginx
spec:
  selector:
    app: nginx
  ports:
  - protocol: TCP
    port: 80
    nodePort: 31000
  type: NodePort
```

ServiceType

Services may be exposed to the rest of the cluster or to outside of the cluster depending on the type that you give it.

ClusterIP

This is the default ServiceType. Services exposed as type ClusterIP allows for other applications within the cluster to access it.

NodePort

The service will be exposed on the node which the service is running on, which is ideal for single node clusters.

LoadBalancer

Create a public IP address using a cloud provider such as Google Cloud Platform. Routes to the exposed Pods are automatically created and load balanced for you.

Tasks

Try to expose a deployed NGINX service and access it with a curl command or a browser