



```
retail-store-configmap.yml
metadata:
  name: retailstorecm
spec:
  data:
    distributorNetworkHost: distributor-network-service:8080
```

retail store pod application: needs the name of the ClusterIP service to whom it has to send the request inorder to communicate with distributor-network pods.

The Service Name is taken as an environment variable by the RetailStore application.

To pass it as an env variable let us create an ConfigMap populated with ServiceName and pass that as an environment variable by referring the value from ConfigMap inside the pod spec file.



```
retail-store-pod.yml
metadata:
  name: retailstorepod
spec:
  containers:
    - name: retailstore
      image: techsriman/retailstore:1.0
      ports:
        - name: tomcatport
          containerPort: 8081
          protocol: TCP
      env:
        - name: distributor_host
          valueFrom:
            configMapKeyRef:
              name: retailstorecm
              key: distributorNetworkHost
```

```
kubectll port-forward 8081:8081 retailstorepod
curl http://localhost:8081/store/D001/distributor
```

techsriman/retail-store:1.0  
[docker image]



distributor.host=  
distributor-network-service  
ConfigMap



retail-store

->8080



ClusterIP  
[distributor-network-service]



```
kubernetes service
spec (ClusterIP)
-----
metadata:
  name: distributor-network-service
spec:
  type: ClusterIP
  selector:
    matchLabels:
      appName: distributor-network
      version: "1.0"
  ports:
    - port: 8080
      targetPort: 8080
```

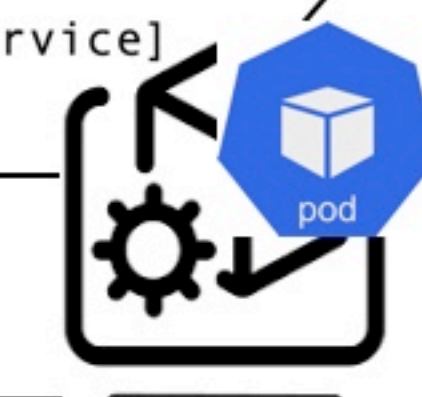
techsriman/distributor-network:1.0  
[docker image]



distributor-network



kubernetes deployment  
spec  
with replicas: 2



distributor-network

```
spec:
  replicas: 2
  selector:
    matchLabels:
      appName: distributor-network
      version: "1.0"
  template:
    metadata:
      labels:
        appName: distributor-network
        version: "1.0"
    containers:
      - name: distributor-network
        image: techsriman/dn:1.0
        ports:
          - name: tomcatport
            containerPort: 8080
            protocol: TCP
```

```
kubectll describe svc distributor-network-service

Endpoints: bounded to both the pods and their ports to whom the traffic should
be distributed or routed across
Name: distributor-network-service
Namespace: default
Labels: <none>
Annotations: <none>
Selector: appName=distributor-network,version=1.0
Type: ClusterIP
IP Family Policy: SingleStack
IP Families: IPv4
IP: 10.110.148.78
IPs: 10.110.148.78
Port: <unset> 8080/TCP
TargetPort: 8080/TCP
Endpoints: 10.1.1.68:8080,10.1.1.69:8080
Session Affinity: None
Events: <none>
```