```
sudo lsof -i :8080
```

targetPort: 80

If you want to access it from your browser outside AWS, you need to tell kubectl port-forward to bind to all interfaces, not just localhost. sudo -E kubectl port-forward --address 0.0.0.0 svc/frontend -n chat-app 8080:80 ##### Namespace #### ubuntu@ip-172-31-16-22:~/kind-cluster/chat-app/full-stack_chatApp/k8s\$ cat namespace.yml kind: Namespace apiVersion: v1 metadata: name: chat-app ##### Frontend deployment & service #### ubuntu@ip-172-31-16-22:~/kind-cluster/chat-app/full-stack_chatApp/k8s\$ cat frontend-deployment.yml kind: Deployment apiVersion: apps/v1 metadata: name: frontend-deployment namespace: chat-app spec: replicas: 1 selector: matchLabels: app: frontend template: metadata: name: frontend-pod namespace: chat-app labels: app: frontend spec: containers: - name: chatapp-frontend image: suraj0221/node-front:latest ports: - containerPort: 80 env: - name: NODE_ENV value: production ubuntu@ip-172-31-16-22:~/kind-cluster/chat-app/full-stack_chatApp/k8s\$ cat frontend-service.yml kind: Service apiVersion: v1 metadata: name: frontend namespace: chat-app spec: selector: app: frontend ports: - port: 80

```
##### Backend deployment & service ####
```

```
ubuntu@ip-172-31-16-22:~/kind-cluster/chat-app/full-stack_chatApp/k8s$ cat
backend-deployment.yml
kind: Deployment
apiVersion: apps/v1
metadata:
  name: backened-deployment
  namespace: chat-app
spec:
  replicas: 1
  selector:
    matchLabels:
      app: backend
  template:
    metadata:
      name: backend-pod
      namespace: chat-app
      labels:
        app: backend
    spec:
      containers:
      - name: chatapp-backend
        image: suraj0221/node-backend:latest
        ports:
        - containerPort: 5001
        env:
        - name: NODE_ENV
          value: production
        - name: MONGODB_URI
          value: "mongodb://mongoadmin:secret@mongodb:27017/dbname?
authSource=admin"
        - name: JWT_SECRET
          valueFrom:
            secretKeyRef:
              name: chatapp-secrets
              key: jwt
        - name: PORT
          value: "5001"
ubuntu@ip-172-31-16-22:~/kind-cluster/chat-app/full-stack_chatApp/k8s$ cat
backend-service.yml
kind: Service
apiVersion: v1
metadata:
  name: backend
  namespace: chat-app
spec:
  selector:
    app: backend
  ports:
  - port: 5001
    targetPort: 5001
##### Mongodb deployment & service ####
ubuntu@ip-172-31-16-22:~/kind-cluster/chat-app/full-stack_chatApp/k8s$ cat
mongodb-deployment.yml
kind: Deployment
```

```
apiVersion: apps/v1
metadata:
  name: mongodb-deployment
  namespace: chat-app
spec:
  replicas: 1
  selector:
    matchLabels:
      app: mongodb
  template:
    metadata:
      name: mongodb-pod
      namespace: chat-app
      labels:
        app: mongodb
    spec:
      containers:
      - name: chatapp-mongodb
        image: mongo:latest
        ports:
        - containerPort: 27017
        env:
        - name: MONGO_INITDB_ROOT_USERNAME
          value: mongoadmin
        - name: MONGO_INITDB_ROOT_PASSWORD
          value: secret
      volumes:
      - name: mongo-data
        persistentVolumeClaim:
          claimName: mongodb-pvc
ubuntu@ip-172-31-16-22:~/kind-cluster/chat-app/full-stack_chatApp/k8s$ cat
mongodb-service.yml
kind: Service
apiVersion: v1
metadata:
  name: mongodb
  namespace: chat-app
spec:
  selector:
    app: mongodb
  ports:
  - port: 27017
    targetPort: 27017
##### Mongodb PV & PVC ####
ubuntu@ip-172-31-16-22:~/kind-cluster/chat-app/full-stack_chatApp/k8s$ cat
mongodb-pv.yml
kind: PersistentVolume
apiVersion: v1
metadata:
  name: mongodb-pv
  namespace: chat-app
spec:
  accessModes:
    - ReadWriteOnce
  capacity:
    storage: 5Gi
  hostPath:
    path: /data
```

```
- - -
```

```
ubuntu@ip-172-31-16-22:~/kind-cluster/chat-app/full-stack_chatApp/k8s$ cat
mongodb-pvc.yml
kind: PersistentVolumeClaim
apiVersion: v1
metadata:
  name: mongodb-pvc
  namespace: chat-app
spec:
  accessModes:
    - ReadWriteOnce
  resources:
    requests:
      storage: 5Gi
##### secrets ####
ubuntu@ip-172-31-16-22:~/kind-cluster/chat-app/full-stack_chatApp/k8s$ cat
secrets.yml
kind: Secret
apiVersion: v1
metadata:
  name: chatapp-secrets
  namespace: chat-app
type: Opaque
data:
  jwt: iaQ5ibWrZHLuzcjkqiCJbbHi/ObO2XNdCfZbshutZ4A=
ubuntu@ip-172-31-16-22:~/kind-cluster/chat-app/full-stack_chatApp/k8s$
##### Ingress ####
ubuntu@ip-172-31-16-22:~/kind-cluster/chat-app/full-stack_chatApp/k8s$ cat
ingress.yml
kind: Ingress
apiVersion: networking.k8s.io/v1
metadata:
  name: chatapp-ingress
  namespace: chat-app
  labels:
    name: chatapp-ing
  annotations:
    nginx.ingress.kubernetes.io/rewrite-target: /
    nginx.ingress.kubernetes.io/ssl-redirect: "false"
spec:
  rules:
  - host: chat-suraj.com
    http:
      paths:
      - pathType: Prefix
        path: "/"
        backend:
          service:
            name: frontend
            port:
              number: 80
      - pathType: Prefix
        path: "/api"
        backend:
          service:
```

name: backend

port:

number: 5001