

Multi-tier NodeJS application Running on AWS EKS

Creating a backend-deployment file:

```
GNU nano 2.9.8 deployment-backend.yml
apiVersion: apps/v1
kind: Deployment

metadata:
  name: mongo

spec:
  replicas: 1
  selector:
    matchLabels:
      app: mongo

  template:
    metadata:
      labels:
        app: mongo
    spec:
      containers:
        - name: mongo
          image: mongo
          ports:
            - containerPort: 27017
```

NAME	READY	UP-TO-DATE	AVAILABLE	AGE
frontend	1/1	1	1	27m
javademoapp	2/2	2	2	47h
mongo	1/1	1	1	42m
my-regapp	2/2	2	2	4d7h

Creating a service for backend-deployment:

```
4d7h
kubectl create service clusterip mongo --tcp=27017:27017

service/mongo created
[FrontEnd: 172.31.0.157]
```

Create a front-end deployment file:

```
GNU nano 2.9.8 deployment-frontend.yml

apiVersion: apps/v1
kind: Deployment

metadata:
  name: frontend
  labels:
    app: front-end

spec:
  replicas: 1
  selector:
    matchLabels:
      app: front-end

  template:
    metadata:
      labels:
        app: front-end

    spec:
      containers:
        - name: frontend
          image: devopsedu/employee
          ports:
            - containerPort: 8888
```

Create a service for front-end:

```
GNU nano 2.9.8 service.yml

apiVersion: v1
kind: Service

metadata:
  name: front-end
  labels:
    app: front-end

spec:
  selector:
    app: front-end
  ports:
    - port: 8083
      targetPort: 8888
  type: LoadBalancer
```

EXTERNAL-IP	PORT(S)
a9535d8c1efc34f8d8a3236c2f860a37-59037985.us-east-1.elb.amazonaws.com	8083:32454/TCP

[EC2](#) | [Load balancers](#) | a9535d8c1efc34f8d8a3236c2f860a37

Load balancer: [a9535d8c1efc34f8d8a3236c2f860a37](#)

Description

Instances

Health check

Listeners

Monitoring

Tags

Migration

Basic Configuration

Name	a9535d8c1efc34f8d8a3236c2f860a37	Creation time	May 11, 2023 at 10:15:05 PM UTC-4
* DNS name	a9535d8c1efc34f8d8a3236c2f860a37-59037985.us-east-1.elb.amazonaws.com (A Record)	Hosted zone	Z35SXDOTRQ7X7K
		Status	2 of 2 instances in service

Application URL:
<http://a9535d8c1efc34f8d8a3236c2f860a37-59037985.us-east-1.elb.amazonaws.com:8083/>

← → ↻ ⚠ Not Secure | a9535d8c1efc34f8d8a3236c2f860a37-59037985.us-east-1.elb.amazonaws.com:8083

Employee Information

AddEmployee

UpdateEmployee

GetEmployee

DeleteEmployee