Overview of K8s Components

2 Deployment / Pod
2 Service
1 ConfigMap
1 Secret

Internal Service

ConfigMap
DB Url

Deployment.yaml
Env variables

MongoDB
pod

Secret
DB User
DB Pwd

Mongo Express
pod

External Service

URL:
- IP Address of Node
- Port of external Service

Mongo Express
http://www.mongo-express:80080

Browser Request Flow
through the K8s components

Mongo Express

Mongo Express External Service

Mongo Express
pod

Mongo DB Internal Service

Secret
DB User
DB Pwd

MongoDB
pod

```
[k8s-configuration]$ kubectl get service
NAME                      TYPE           CLUSTER-IP      EXTERNAL-IP    PORT(S)
      AGE
kubernetes                ClusterIP      10.96.0.1       <none>         443/TCP
      67m
mongo-express-service     LoadBalancer   10.96.178.16    <pending>      8081:30000/
TCP   5m7s
mongodb-service           ClusterIP      10.96.86.105    <none>         27017/TCP
      32m
[k8s-configuration]$ minikube service mongo-express-se
```

nodePort

NAMESPACE	NAME	TARGET PORT	URL
default	mongo-express-service		http://192.168.64.5:30000

```
🎉   Opening service default/mongo-express-service in default browser...
[k8s-configuration]$ ▊
```