Hands on :-

To deploy a multi-tier application over kubernets networking, to show pod to pod communications, with service.

Deployment file
pod 1 :
container
image 1

Deployment file
pod 2 :
container
image 1

Commands :-

→ mkdir DEMO

→ cd DEMO

→ gedit webapplication.yml

webapplication.yml

apiVersion : apps/v1
kind : Deployment
Metadata :
name : webapp1

```
    labels:
      app: webapp-sql
      tier: frontend
spec:
  replicas: 1
  selector:
    matchLabels:
      app: webapp-sql
      tier: frontend
  template:
    metadata:
      labels:
        app: webapp-sql
        tier: frontend
    spec:
      containers:
      - name: webapp1
        image: hshar/webapp
        ports:
        - containerport: 8081
```

→ gedit mysqldatabase.yml

mysqldatabase.yml

```
apiversion: apps/v1
kind : Deployment
Metadata :
  name: sqldb
  labels :
    app: weLapp.sql
    tier: backend
spec :
  replicas : 1
  selector :
    matchlabels:
      app : webapp.sql
      tier : backend
  template :
    metadat :
      labels :
        app: webapp.sql
        tier: backend
    spec :
      containers :
      -name : mysql
        image : bshar/mysql:5.5
        ports:
        -containerport : 3306.
```

→ kubectl apply -f webapplication.yml

→ kubectl apply -f mysql database.yml

output :- deployment.apps sqldb created.

→ Kubectl get deployment.

output :-

name	desired	current	up-to-date	available	age
sqldb	1	1	1	1	10s
webapp1	1	1	1	1	26s

→ gedit webservice.yml

webservice.yml :

```
apiversion : v1
kind : service
metadata :
 ( name : webapp.sql
Spec :
   Selector :
      app : webapp.sql
      tier : frontend
   ports :
   - port : 80
   type : Nodeport.
```