

# GCP

## Phpmyadmin-deployment.yaml:

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: phpmyadmin-deployment
  labels:
    app: phpmyadmin
spec:
  replicas: 1
  selector:
    matchLabels:
      app: phpmyadmin
  template:
    metadata:
      labels:
        app: phpmyadmin
    spec:
      containers:
        - name: phpmyadmin
          image: phpmyadmin/phpmyadmin:latest
          ports:
            - containerPort: 80
          env:
            - name: PMA_HOST
              value: "mysql-service"
            - name: PMA_PORT
              value: "3306"
            - name: PMA_USER
              value: "admin"
            - name: PMA_PASSWORD
              value: "admin"
```

## Phpmyadmin-service.yaml

```
apiVersion: v1
kind: Service
```

```
metadata:
  name: phpmyadmin-service
spec:
  selector:
    app: phpmyadmin
  ports:
    - protocol: TCP
      port: 80
      targetPort: 80
  type: LoadBalancer
```

#### mysql-deployment.yaml:

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: mysql
spec:
  replicas: 1
  selector:
    matchLabels:
      app: mysql
  template:
    metadata:
      labels:
        app: mysql
    spec:
      containers:
        - name: mysql
          image: mysql:8.0
          ports:
            - containerPort: 3306
          env:
            - name: MYSQL_ROOT_PASSWORD
              value: "admin"
            - name: MYSQL_DATABASE
              value: "mydatabase"
            - name: MYSQL_USER
              value: "admin"
            - name: MYSQL_PASSWORD
```

```
      value: "admin"
    volumeMounts:
      - mountPath: /var/lib/mysql
        name: mysql-data
    volumes:
      - name: mysql-data
        emptyDir: {}
```

#### mysql-service.yaml:

```
apiVersion: v1
kind: Service
metadata:
  name: mysql-service
spec:
  selector:
    app: mysql
  ports:
    - protocol: TCP
      port: 3306
      targetPort: 3306
  type: LoadBalancer
```

#### Frontend-deployment.yaml:

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: frontend-deployment
spec:
  replicas: 2
  selector:
    matchLabels:
      app: frontend
  template:
    metadata:
      labels:
        app: frontend
    spec:
      containers:
```

- name: frontend
  - image: krupaht/frontend:latest
  - ports:
    - containerPort: 80
  - env:
    - name: BACKEND\_URL
    - value: "http://backend-service"

#### Frontend-service.yaml:

```
apiVersion: v1
kind: Service
metadata:
  name: frontend-service
spec:
  selector:
    app: frontend
  ports:
    - protocol: TCP
      port: 80
      targetPort: 80
  type: LoadBalancer
```

#### backend-deployment.yaml:

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: backend-deployment
spec:
  replicas: 2
  selector:
    matchLabels:
      app: backend
  template:
    metadata:
      labels:
        app: backend
    spec:
```

```
containers:
- name: backend
  image: krupaht/backend4:latest
  ports:
  - containerPort: 8000
  env:
  - name: DATABASE_URL
    value: "mysql+mysqlconnector://admin:admin@34.46.154.188:3306/mydatabase"
```

#### backend -service.yaml:

```
apiVersion: v1
kind: Service
metadata:
  name: backend-service
spec:
  selector:
    app: backend
  ports:
  - protocol: TCP
    port: 80
    targetPort: 8000
  type: LoadBalancer
```

#### To edit the prometheus-server.yaml

Kubectll edit configmap prometheus-server

```
scrape_configs:
- job_name: fastapi
  static_configs:
  - targets:
    - 34.41.242.255:80
```

