

Spring boot bank (Docker & k8s)

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Goldencat Bank

Register a New Account

Username:

Password:

Register

Already have an account? [Login here](#)

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Goldencat Bank

Login

Username:

Password:

Login

Don't have an account? [Register here](#)

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Goldencat Bank Dashboard Transactions Logout

Welcome, adhmabdein

Current Balance: \$0.00

Account Details

Account Number: 1

Account Type: Savings

Deposit Withdraw Transfer Money

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Goldencat Bank Dashboard Transactions Logout

Welcome, adhmabdein

Current Balance: \$0.00

Account Details

Account Number: 1

Account Type: Savings

Deposit Withdraw Transfer Money

Amount:

20

Submit

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Goldencat Bank Dashboard Transactions Logout

Welcome, adhmabdein

Current Balance: \$10.00

Account Details

Account Number: 1

Account Type: Savings

Deposit Withdraw Transfer Money

Amount:

10

Submit

← → ↻ Not secure 192.168.1.30033/transactions ☆

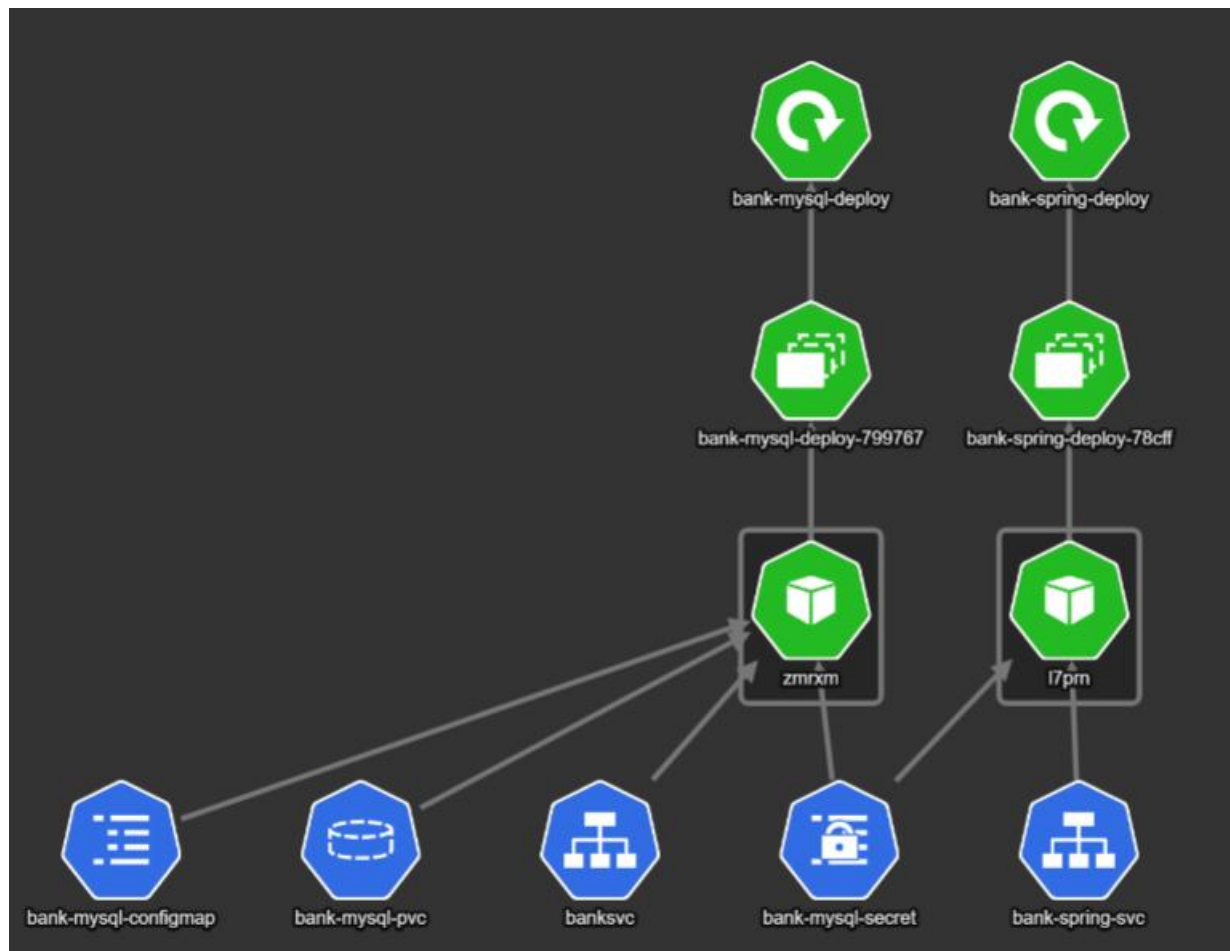
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Goldencat Bank Dashboard Transactions Logout

Transaction History

ID	Type	Amount	Date
1	Deposit	20.00	2025-01-13T00:51:52.571831
2	Withdrawal	10.00	2025-01-13T00:52:02.620133

Back to Dashboard



```
FROM maven:3.8.4-openjdk-17-slim

WORKDIR /app

COPY mvnw .
COPY .mvn .mvn
COPY pom.xml .
COPY src ./src

RUN mvn clean package -DskipTests
RUN ls -l target/

EXPOSE 8080

ENTRYPOINT ["java", "-jar", "target/bankapp-0.0.1-SNAPSHOT.jar"]
```

```
apiVersion: v1
kind: PersistentVolume
metadata:
  name: bank-mysql-pv
spec:
  capacity:
    storage: 2Gi
  accessModes:
    - ReadWriteMany
  hostPath:
    path: "/adhamjenkins"
```

```
apiVersion: v1
kind: PersistentVolumeClaim
metadata:
  name: bank-mysql-pvc
spec:
  volumeName: bank-mysql-pv
  accessModes:
    - ReadWriteMany
  resources:
    requests:
      storage: 2Gi
```

```
apiVersion: v1
kind: Secret
metadata:
  name: bank-mysql-secret
type: Opaque
data:
  MYSQL_PASSWORD: VGVzdEAxMjM=
```

```
apiVersion: v1
kind: ConfigMap
metadata:
  name: bank-mysql-configmap
data:
  MYSQL_DATABASE: "bankappdb"
```

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: bank-mysql-deploy
  labels:
    bank: mysql
spec:
  replicas: 1
  selector:
    matchLabels:
      bank: mysql
  template:
    metadata:
      name: bank-mysql-pod
      labels:
        bank: mysql
    spec:
      containers:
        - name: bank-mysql-cont
          image: mysql:8.0
          ports:
            - containerPort: 3306
          env:
            - name: MYSQL_ROOT_PASSWORD
              valueFrom:
                secretKeyRef:
                  name: bank-mysql-secret
                  key: MYSQL_PASSWORD
            - name: MYSQL_DATABASE
              valueFrom:
                configMapKeyRef:
                  name: bank-mysql-configmap
                  key: MYSQL_DATABASE
          volumeMounts:
            - name: bank-vol
              mountPath: /data
      volumes:
        - name: bank-vol
          persistentVolumeClaim:
            claimName: bank-mysql-pvc
```

```
apiVersion: v1
kind: Service
metadata:
  name: banksvc
spec:
  selector:
    bank: mysql
  type: ClusterIP
  ports:
    - protocol: TCP
      port: 3306
      targetPort: 3306
```

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: bank-spring-deploy
  labels:
    bank: spring
spec:
  replicas: 1
  selector:
    matchLabels:
      bank: spring
  template:
    metadata:
      name: bank-spring-pod
      labels:
        bank: spring
    spec:
      containers:
        - name: bank-spring-cont
          image: adhmabdein/springbank
          ports:
            - containerPort: 8080
          env:
            - name: SPRING_DATASOURCE_URL
              value: "jdbc:mysql://banksvc:3306/bankappdb?allowPublicKeyRetrieval=true&useSSL=false"
            - name: SPRING_DATASOURCE_USERNAME
              value: "root"
            - name: SPRING_DATASOURCE_PASSWORD
              valueFrom:
                secretKeyRef:
                  name: bank-mysql-secret
                  key: MYSQL_PASSWORD
```

```
apiVersion: v1
kind: Service
metadata:
  name: bank-spring-svc
spec:
  selector:
    bank: spring
  type: NodePort
  ports:
    - protocol: TCP
      port: 8080
      targetPort: 8080
      nodePort: 30033
```

```
spring.application.name=bankapp
# MySQL Database configuration
spring.datasource.url=jdbc:mysql://banksvc:3306/bankappdb?allowPublicKeyRetrieval=true&useSSL=false

spring.datasource.username=root
spring.datasource.password=Test@123
spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver

# JPA & Hibernate configuration
spring.jpa.hibernate.ddl-auto=update
spring.jpa.properties.hibernate.dialect=org.hibernate.dialect.MySQL8Dialect
spring.jpa.show-sql=true
```




end



1 Branch



0 Tags



Go to file



Add file



Code



root initial commit

8d90b5b · 22 minutes ago



5 Commits



.mvn/wrapper

Initial commit

5 months ago



src

initial commit

22 minutes ago



.gitignore

Initial commit

5 months ago



Dockerfile

initial commit

1 hour ago



k8s-mysql-configmap.yml

initial commit

1 hour ago



k8s-mysql-deploy.yml

initial commit

1 hour ago



k8s-mysql-pv.yml

initial commit

1 hour ago



k8s-mysql-pvc.yml

initial commit

1 hour ago



k8s-mysql-secret.yml

initial commit

1 hour ago



k8s-mysql-svc.yml

initial commit

1 hour ago



k8s-spring-deploy.yml

initial commit

22 minutes ago



k8s-spring-svc.yml

initial commit

1 hour ago



mvnw

Initial commit

5 months ago



mvnw.cmd

Initial commit

5 months ago



pom.xml

Initial commit

5 months ago

```

pipeline{
  agent {label 'node2'}

  environment{
    docker_img_name = 'adhmabdein/springbank'
  }

  stages{
    stage('checkout'){
      steps{
        script{
          git branch: 'end', url: 'https://github.com/AdhmAbdein/spring-bank.git'
        }
      }
    }
    stage('log in to docker hub'){
      steps{
        script{
          withCredentials ([usernamePassword(credentialsId:'docker_hub',usernameVariable:'d_hub_usr',passwordVariable:'d_hub_pass')]){
            sh 'docker login -u ${d_hub_usr} -p ${d_hub_pass}'
          }
        }
      }
    }
    stage('CI - Build docker image'){
      steps{
        script{
          sh 'docker build -t ${docker_img_name} -f Dockerfile .'
        }
      }
    }
  }
}

```

```

    stage('push image to docker hub'){
      steps{
        script{
          sh 'docker push ${docker_img_name}'
        }
      }
    }
    stage('CD - Deploy in k8s'){
      steps{
        script{
          sh 'kubectl apply -f k8s-mysql-pv.yml'
          sh 'kubectl apply -f k8s-mysql-pvc.yml'
          sh 'kubectl apply -f k8s-mysql-secret.yml'
          sh 'kubectl apply -f k8s-mysql-configmap.yml'
          sh 'kubectl apply -f k8s-mysql-deploy.yml'
          sh 'kubectl apply -f k8s-mysql-svc.yml'

          sh 'kubectl apply -f k8s-spring-deploy.yml'
          sh 'kubectl apply -f k8s-spring-svc.yml'
        }
      }
    }
  }
}

```



spring-bank

11 min #7

1 hr 34 min #1

34 sec



adham@node2:~\$ kubectl get pods

NAME	READY	STATUS	RESTARTS	AGE
bank-mysql-deploy-7997677986-zmrxm	1/1	Running	0	13m
bank-spring-deploy-78cfff5c49-l7prn	1/1	Running	0	11m
food-mysql-deploy-5cd57bf97b-bg674	1/1	Running	0	6h38m
food-spring-deploy-586ddcb54d-pf977	1/1	Running	0	6h38m

adham@node2:~\$ kubectl get deploy

NAME	READY	UP-TO-DATE	AVAILABLE	AGE
bank-mysql-deploy	1/1	1	1	13m
bank-spring-deploy	1/1	1	1	11m
food-mysql-deploy	1/1	1	1	6h38m
food-spring-deploy	1/1	1	1	6h38m

adham@node2:~\$ kubectl get svc

NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE
bank-spring-svc	NodePort	10.108.	<none>	8080:30033/TCP	84m
banksvc	ClusterIP	10.100.	<none>	3306/TCP	84m
crudsvc	ClusterIP	10.96.2	<none>	3306/TCP	6d2h
food-spring-svc	NodePort	10.99.5	<none>	8080:30032/TCP	25h
foodsvc	ClusterIP	10.110.	<none>	3306/TCP	26h
hotelsvc	ClusterIP	10.99.1	<none>	5432/TCP	4d1h
k8s-dream-shop-svc	ClusterIP	10.110.	<none>	3306/TCP	7d3h
kubernetes	ClusterIP	10.96.0	<none>	443/TCP	9d
movie-svc	NodePort	10.100.	<none>	8080:30013/TCP	7d9h
mysql-service-movie	ClusterIP	10.108.	<none>	3306/TCP	7d9h
mysqlservice	ClusterIP	10.110.	<none>	3306/TCP	9d
spring-crud-svc	NodePort	10.106.	<none>	8080:30030/TCP	6d2h
spring-dream-svc	NodePort	10.100.	<none>	9191:30015/TCP	7d3h
spring-hotel-deploy	NodePort	10.107.	<none>	8080:30031/TCP	4d1h

```

adham@node2:~$ kubectl get pv
NAME          CAPACITY  ACCESS MODES  RECLAIM POLICY  STATUS  CLAIM          STORAGECLASS
  VOLUMEATTRIBUTESCLASS
bank-mysql-pv  2Gi       RWX           Retain          Bound   default/bank-mysql-pvc
<unset>
food-mysql-pv  2Gi       RWX           Retain          Bound   default/food-mysql-pvc
<unset>
mysql-crud-pv  2Gi       RWX           Retain          Bound   default/mysql-crud-pvc
<unset>
mysql-dream-pv 2Gi       RWX           Retain          Bound   default/mysql-dream-pvc
<unset>
mysql-movie-pv 2Gi       RWO           Retain          Bound   default/mysql-movie-pvc
<unset>
mysql-spring-pv 2Gi       RWX           Retain          Bound   default/mysql-spring-pvc
<unset>
postgres-hotel-pv 2Gi       RWX           Retain          Bound   default/postgres-hotel-pvc
<unset>
adham@node2:~$ kubectl get pvc
NAME          STATUS  VOLUME          CAPACITY  ACCESS MODES  STORAGECLASS  VOLUMEATTRIBUTESCLASS
  AGE
bank-mysql-pvc  Bound   bank-mysql-pv    2Gi       RWX           <unset>
  86m
food-mysql-pvc  Bound   food-mysql-pv    2Gi       RWX           <unset>
  26h
mysql-crud-pvc  Bound   mysql-crud-pv    2Gi       RWX           <unset>
  6d2h
mysql-dream-pvc Bound   mysql-dream-pv    2Gi       RWX           <unset>
  7d4h
mysql-movie-pvc Bound   mysql-movie-pv    2Gi       RWO           <unset>
  7d11h
mysql-spring-pvc Bound   mysql-spring-pv    2Gi       RWX           <unset>
  9d
postgres-hotel-pvc Bound   postgres-hotel-pv  2Gi       RWX           <unset>

```

Activate Windows
 Go to Settings to activate Windows.

```

adham@node2:~$ kubectl get secret
NAME          TYPE  DATA  AGE
bank-mysql-secret  Opaque  1      86m
food-mysql-secret  Opaque  1      26h
mysql-crud-secret  Opaque  1      6d2h
mysql-dream-secret  Opaque  1      7d3h
mysql-movie-secret  Opaque  1      7d23h
postgres-hotel-secret  Opaque  1      4d1h
adham@node2:~$ kubectl get cm
NAME          DATA  AGE
bank-mysql-configmap  1      86m
food-mysql-configmap  1      26h
kube-root-ca.crt      1      9d
adham@node2:~$ █

```

```

adham@node2:~$ kubectl exec -it bank-mysql-deploy-7997677986-zmrxm -- mysql -u root -pTest@123 bankappdb
mysql: [Warning] Using a password on the command line interface can be insecure.
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 28
Server version: 8.0.40 MySQL Community Server - GPL

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> SHOW DATABASES;
+-----+
| Database |
+-----+
| bankappdb |
| information_schema |
| mysql |
| performance_schema |
| sys |
+-----+
5 rows in set (0.01 sec)

mysql> USE bankappdb;
Database changed

```

Activate Windows

```

mysql> SHOW TABLES;
+-----+
| Tables_in_bankappdb |
+-----+
| account |
| transaction |
+-----+
2 rows in set (0.01 sec)

```

```

mysql> SELECT * FROM account;
+----+-----+-----+-----+
| id | balance | password | username |
+----+-----+-----+-----+
| 1 | 10.00 | $2a$10$2EZVn7s7ergUhZlZ4B6N4.NA.iXGyEPM/udYawWCaRQiMNULL2jfk0 | adhmabdein |
+----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> SELECT * FROM transaction;
+----+-----+-----+-----+-----+
| id | amount | timestamp | type | account_id |
+----+-----+-----+-----+-----+
| 1 | 20.00 | 2025-01-13 00:51:52.571831 | Deposit | 1 |
| 2 | 10.00 | 2025-01-13 00:52:02.620133 | Withdrawal | 1 |
+----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

```

Activate Wi