

Day 18 Task CI/CD Pipeline

1. Github Actions Build.yml

```
name: CI/CD Pipeline

on: [push]

jobs:
  build:
    timeout-minutes: 10
    runs-on: ubuntu-latest

    steps:
      - uses: actions/checkout@v3

      - name: Start PostgreSQL container
        run: docker-compose -f "docker-compose.yml" up -d --build

      - name: Set up JDK 17
        uses: actions/setup-java@v3
        with:
          java-version: '17'
          distribution: 'temurin'
          cache: maven

      - name: Build with Maven
        run: mvn --batch-mode --update-snapshots package

      - name: JAR Staging Area
        run: mkdir staging && cp target/*.jar staging

      - name: Upload JAR
        uses: actions/upload-artifact@v3
        with:
          name: artifact
          path: staging/spring-data-jpa-0.0.1-SNAPSHOT.jar

      - name: Stop containers
        if: always()
        run: docker-compose -f "docker-compose.yml" down

      - name: Download JAR
        uses: actions/download-artifact@v3
        with:
          name: artifact

      - name: Deploy to Elastic Beanstalk
        uses: einaregilsson/beanstalk-deploy@v21
        with:
          aws_access_key: ${ secrets.AWS_ACCESS_KEY_ID }
          aws_secret_key: ${ secrets.AWS_SECRET_ACCESS_KEY }
          use_existing_version_if_available: false
          application_name: springboot-postgresql-jpa-crud
          environment_name: Springbootpostgresqljpacrud-env
          version_label: ${github.SHA}
```

```
region: ap-southeast-1
deployment_package: spring-data-jpa-0.0.1-SNAPSHOT.jar
```

2. CI/CD Pipeline to AWS EB Success

The screenshot shows the GitHub Actions interface for the repository 'Rafly-Ananda / crud-springboot-jpa-postgresql'. The pipeline is named 'change postgres connection port #10'. The 'build' job is shown as successful, triggered by a push to the 'main' branch. The job summary indicates it was triggered via push 5 minutes ago, ran on a 'master' node, and completed successfully in 2m 32s, producing 1 artifact. The 'build.yml' file is shown as 'on: push'. The 'Artifacts' section lists a single artifact named 'artifact' with a size of 38.9 MB.

Name	Size
artifact	38.9 MB

The screenshot shows the detailed steps of the 'build' job. The job succeeded 3 minutes ago in 2m 21s. The steps listed are:

- Set up job
- Run actions/checkout@v3
- Start PostgreSQL container
- Set up JDK 17
- Build with Maven
- JAR Staging Area
- Upload JAR
- Stop containers
- Download JAR
- Deploy to Elastic Beanstalk
- Post Set up JDK 17
- Post Run actions/checkout@v3
- Complete job

3. Site is Accessible

Springbootpostgresqlpacrud-env x springbootpostgresqlpacrud-env x +

← → ↻ 🔒 # https://ap-southeast-1.console.aws.amazon.com/elasticbeanstalk/home?region=ap-southeast-1#/environment/dashboard/applicationName=springboot-postgresql-jpa-crud/environmentId=e-jenncmnhk

Services 🔍 Search [Alt+S]

RDS Elastic Beanstalk

Elastic Beanstalk

Environments
Applications
Change history

▼.springboot-postgresql-jpa-crud
Application versions
Saved configurations

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Go to environment
Configuration
Logs
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Tags

▼Recent environments
Springbootpostgresqlpacrud-env

Springbootpostgresqlpacrud-env

Application name: springboot-postgresql-jpa-crud

Refresh Actions

Health

Ok Causes

Recent events

Time
2023-02-25 22:50:41 UTC+0700
2023-02-25 22:49:35 UTC+0700
2023-02-25 22:49:35 UTC+0700
2023-02-25 22:49:12 UTC+0700
2023-02-25 22:49:08 UTC+0700

Home Workspaces API Network Explore 🔍 Search Postman

my-workspace New Import POST create-user GET get-all-user No Environment

Collections

- java-spring-boot
 - altera-academy
 - day-10-task
 - day-11-task
 - day-12-task
 - day-13-task
 - day-16-task-redis
 - day-17-task-aws
 - POST create-user
 - GET get-all-user
 - amigoscode
 - microservices-project
 - javascript-nodesjs
 - misc

POST http://springbootpostgresqlpacrud-env.aba-qz24sg.ap-southeast-1.elasticbeanstalk.com/create-user

Params Auth Headers (8) Body Pre-req Tests Settings Cookies

raw JSON Beautify

```
1 {
2   "name": "John Doe",
3   "email": "jd@gmail.com",
4 }
```

Body

201 Created 597 ms 230 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "user_id": 1,
3   "name": "John Doe",
4   "email": "jd@gmail.com",
5   "age": 25
6 }
```

Online Find and Replace Console

INFO Instance deployment successfully generated a 'Profile'.

Feedback Language

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Springbootpostgresqlpacrud-env x springbootpostgresqlpacrud-env x +

← → ↻ 🔒 # https://ap-southeast-1.console.aws.amazon.com/elasticbeanstalk/home?region=ap-southeast-1#/environment/dashboard/applicationName=springboot-postgresql-jpa-crud/environmentId=e-jenncmnhk

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GET http://springbootpostgresqlpacrud-env.aba-qz24sg.ap-southeast-1.elasticbeanstalk.com/get-all-user

Params Auth Headers (8) Body Pre-req Tests Settings Cookies

Body

200 OK 291 ms 227 B Save Response

Pretty Raw Preview Visualize JSON

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2   "user_id": 1,
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