

AWS THREE-TIER APPLICATION DEPLOYMENT – StudentApp

Architecture Overview

Frontend Backend (Spring Boot) Database (RDS MySQL)

1. Create the Database (RDS MySQL)

- DB Name: student_db
- Username: admin
- Password: admin123

2. Launch EC2 Instance (Ubuntu)

- AMI: Ubuntu
- Instance Type: t3.micro
- Security Groups: 22, 80, 443, 8080, 3306

3. Access EC2 and Connect to Database

1. apt install mysql-client -y
2. mysql -u admin -h -padmin123
3. create database student_db;
4. show databases;
5. exit

BACKEND SETUP

1. apt install openjdk-17-jdk -y
2. apt install maven -y
3. git clone https://github.com/shubhamkalsait/cloudblitz-student-app.git

4. cd cloudblitz-student-app/backend/src/main/resource/
5. Edit application.properties:
spring.datasource.url=jdbc:mysql://:3306/student_db
spring.datasource.username=admin
spring.datasource.password=admin123
6. cd backend
7. mvn clean package
8. java -jar student-registration-backend-0.0.1-SNAPSHOT.jar

Backend URL → http://:8080/api

FRONTEND SETUP

1. apt install nodejs npm -y
2. apt install apache2 -y
3. systemctl start apache2
4. cd frontend
5. npm install
6. Edit .env:
VITE_API_URL="http://:8080/api"
7. npm run build
8. cp -rf dist/* /var/www/html/
9. systemctl restart apache2

Frontend URL → http://