Steps to Host Java Spring Boot API on Ubuntu Server

# Step 1: Install Required Packages

sudo apt update

sudo apt install openjdk-17-jdk -y

sudo apt install maven -y

sudo apt install mysql-server -y

sudo apt install certbot -y # Optional, for SSL if needed

# Verify Installations

java -version

mvn -version

mysql -v

# Step 2: Configure MySQL

sudo systemctl enable mysql

sudo systemctl start mysql

sudo systemctl status mysql

sudo mysql\_secure\_installation

sudo mysql -u root -p

# Step 3: Prepare Application Directory

sudo mkdir -p /opt/justapay

cd /home/sandeep/AirtelPaymentsBank

cp -r src pom.xml /opt/justapay/

cd /opt/justapay

# Step 4: Configure application.properties

cd src/main/resources/

vi application.properties

Add/Update in application.properties:

spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver

spring.jpa.database-platform=org.hibernate.dialect.MySQL8Dialect

# Step 5: Build the Application

cd /opt/justapay

rm -rf target/

mvn clean install -DskipTests

# Step 6: Run the Application

cd target/

java -jar bill-0.0.1-SNAPSHOT.jar # Initial test

sudo ufw allow 8080 # Or 8082, whichever port you're using

To run in background:

nohup java -jar bill-0.0.1-SNAPSHOT.jar output.log 2>&1 &

# Step 7: Verify It's Running

curl http://localhost:8080/ping

curl http://<server-ip>:8080/ping

ps aux | grep java

jps -l

sudo netstat -tulnp | grep 8080

# Step 8: Manage Java Process

kill -9 <PID> # Replace with actual Java process ID