

FULL COMMAND LIST (Spring Boot + AWS EC2 + RDS MySQL)

A. Connect to EC2

1. `chmod 400 mis-backend.pem`
2. `ssh -i mis-backend.pem ubuntu@16.171.3.153`

B. Setup EC2 Environment

3. `sudo apt update`
4. `sudo apt install openjdk-17-jdk git maven -y`
5. `java -version`
- `mvn -version`
- `git --version`

C. Clone Spring Boot Project from GitHub

6. `git clone https://github.com/YOUR_USERNAME/YOUR_REPO.git`
7. `cd mis`
8. `ls`

D. Build Spring Boot Application

9. `mvn clean package -DskipTests`
10. `ls target/`

E. Run Application Manually (Testing)

11. `export DB_URL="jdbc:mysql://....:3306/misdb"`
- `export DB_USER="admin"`
- `export DB_PASS="YOUR_DB_PASSWORD"`
- `export JWT_SECRET="YOUR_JWT_SECRET"`
12. `java -jar target/mis-0.0.1-SNAPSHOT.jar --spring.profiles.active=prod`

F. Run Application Forever (Systemd Service)

13. `sudo nano /etc/systemd/system/gepl.service`
14. `sudo systemctl daemon-reload`
15. `sudo systemctl reset-failed gepl`
16. `sudo systemctl start gepl`
17. `sudo systemctl enable gepl`

G. Service Management

- `sudo systemctl status gepl`
- `sudo systemctl restart gepl`
- `sudo systemctl stop gepl`
- `sudo journalctl -u gepl -f`

H. Network Debug

- `sudo ss -tulnp | grep 8080`
- `sudo lsof -i :8080`
- `curl http://localhost:8080`

I. Database Test

```
sudo apt install mysql-client -y
```

```
mysql -h RDS-ENDPOINT -u admin -p
```

FINAL URLS

Swagger: <http://16.171.3.153:8080/swagger-ui/index.html>

API Docs: <http://16.171.3.153:8080/v3/api-docs>