**Start and Stop Java Project**

**Run the Project with nohup**

**nohup java -jar build/libs/demo-0.0.1-SNAPSHOT.jar --server.port=8081 > output.log 2>&1 &**

**nohup: Keeps your process running after log out or close the terminal.**

**java -jar ...: Spring Boot project.**

**--server.port=8081: Runs the app on port 8081.**

**> output.log: Writes standard output to output.log.**

**2>&1: Redirects error output to the same file.**

**&: Runs the command in the background.**

**Check if It’s Running**

**ps aux | grep “jar”**

**This part lists all running processes on the system with detailed information.**

* **ps = process status**
* **a = shows processes for all users**
* **u = displays the user who owns the process**
* **x = shows processes not attached to a terminal**

**Stop the Project**

**Find the pid**

**ps aux | grep 'java -jar build/libs/demo-0.0.1-SNAPSHOT.jar'**

**Kill the Process by pid**

**kill 12345**

**Kill the Process by name**

**pkill -f demo**

**pkill -f 'java -jar build/libs/demo-0.0.1-SNAPSHOT.jar'**

**Check if Stopped**

**lsof -i :8081**

**Additional**

**Without using nohup**

**java -jar build/libs/demo-0.0.1-SNAPSHOT.jar --server.port=8081**

**See all active ports and the services running on machine**

**Using ss**

**sudo ss -tuln**

**-t: TCP ports**

**-u: UDP ports**

**-l: Listening ports**

**-n: Show numeric addresses (don’t resolve hostnames)**

**Using netstat**

**sudo netstat -tulnp**

**Using lsof**

**sudo lsof -i -Pn**

**-i: Internet sockets**

**-Pn: Don't resolve hostnames or ports (faster and clearer)**