FROM openjdk:8-jdk-alpine

RUN addgroup -S spring && adduser -S spring -G spring

USER spring:spring

ARG JAR\_FILE=target/\*.jar

COPY ${JAR\_FILE} app.jar

ENTRYPOINT ["java","-jar","/app.jar"]

USER spring:spring

spring is username

spring is group name

It is better to run non-root as username

Non root will not allow so many privileges and permissions , good for security

RUN addgroup -S spring && adduser -S spring -G spring

**addgroup -S spring**:

* addgroup is to create a new group.
* -S option creates a system group, which is typically doesn't have a home directory.
* spring is the name of the group being created

&& meanings when the first command (addgroup -S spring) success, then the second command will execute.

adduser -S spring -G spring:

* + adduser is a command to create a new user.
  + -S option creates a system user.
  + -G spring specifies that this user should be added to the spring group.

Fat JAR file

Create layers in container to improve performance.

The layers will be cached in build time and run time.

Layer one: Slowly changing

Layer two: medium changing

Layer three: Always changing

Please describe the flow:

Under openjdk environment

create spring as username and group as non root

Copy the jar files under target, then put in app.jar

Use entrypoint tell java to excute all jars