Steps to deploy Ktor backend server on render:

1. Create the fatJar task

tasks {

val fatJar = register<Jar>("fatJar") {

dependsOn.addAll(

listOf(

"compileJava",

"compileKotlin",

"processResources"

)

) // We need this for Gradle optimization to work

archiveClassifier.set("standalone") // Naming the jar

duplicatesStrategy = DuplicatesStrategy.EXCLUDE

1. To run the task
2. Launch the jar file
3. Add the DockerFile

# Use a base image with the desired Java version

FROM adoptopenjdk:11-jre-hotspot

# Set the working directory inside the container

WORKDIR /app

# Copy the JAR file from the host to the container

COPY build/libs/\*.jar /app/server.jar

# Expose the port that your Ktor server listens on

EXPOSE 8081

# Set the command to run your Ktor server when the container starts

CMD ["java", "-jar"

1. Share the project on GitHub
2. Create an account on render
3. Link the github account with render account
4. Build the project on render