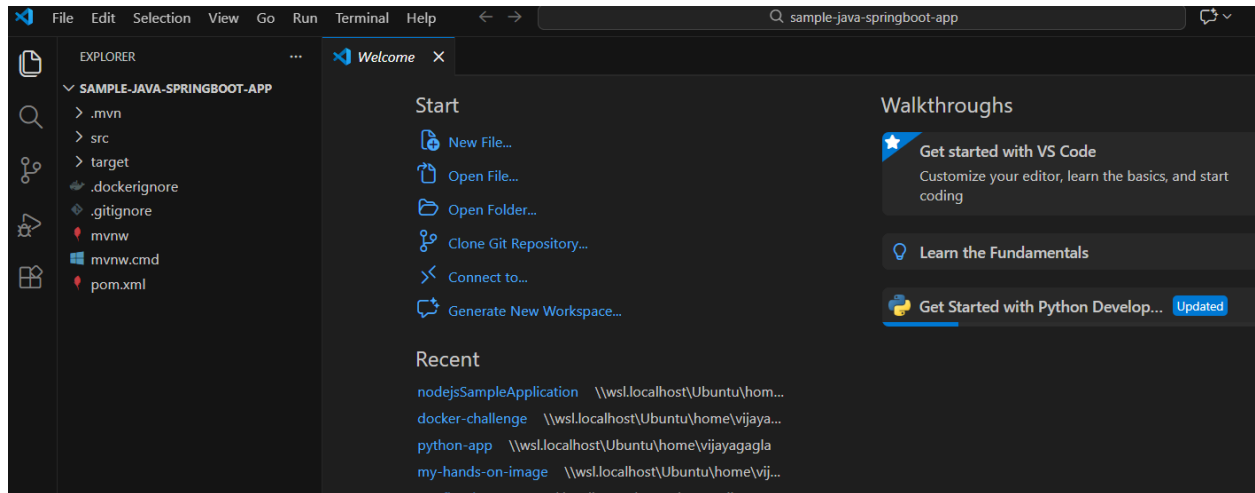


LAB- Build and Deploy a Java App using Docker

TASK 1 – Containerizing a Java Spring Boot Application



```
vijayagaglia@DESKTOP-FP40P26:~/sample-java-springboot-app$ java --version
openjdk 17.0.18 2026-01-20
OpenJDK Runtime Environment (build 17.0.18+8-Ubuntu-124.04.1)
OpenJDK 64-Bit Server VM (build 17.0.18+8-Ubuntu-124.04.1, mixed mode, sharing)
```

```
PROBLEMS OUTPUT PORTS TERMINAL DEBUG CONSOLE

:: Spring Boot :: (v3.2.5)

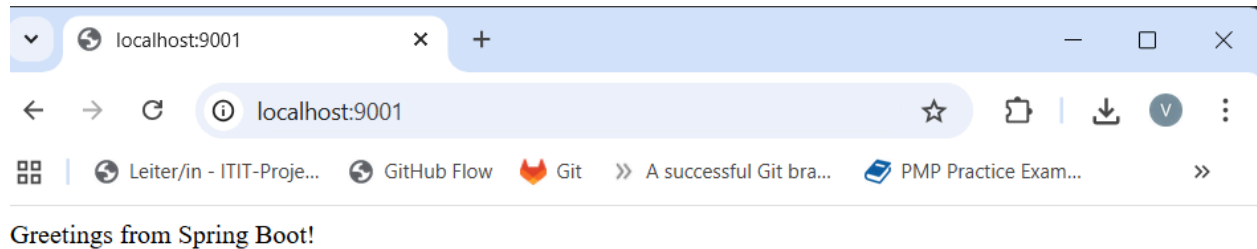
2026-02-03T15:46:08.000+01:00 INFO 32130 --- [sample-web-java-app] [main] c.u.s.SampleWebJavaAppApplication
: Starting SampleWebJavaAppApplication using Java 17.0.18 with PID 32130 (/home/vijayagagla/sample-java-springboot-ap
p/target/classes started by vijayagagla in /home/vijayagagla/sample-java-springboot-app)
2026-02-03T15:46:08.003+01:00 INFO 32130 --- [sample-web-java-app] [main] c.u.s.SampleWebJavaAppApplication
: No active profile set, falling back to 1 default profile: "default"
2026-02-03T15:46:08.049+01:00 INFO 32130 --- [sample-web-java-app] [main] o.s.b.w.embedded.tomcat.TomcatWebSer
ver : Tomcat initialized with port 9001 (http)
2026-02-03T15:46:08.074+01:00 INFO 32130 --- [sample-web-java-app] [main] o.apache.catalina.core.StandardServi
ce : Starting service [Tomcat]
2026-02-03T15:46:08.074+01:00 INFO 32130 --- [sample-web-java-app] [main] o.apache.catalina.core.StandardEngin
e : Starting Servlet engine: [Apache Tomcat/10.1.20]
2026-02-03T15:46:08.118+01:00 INFO 32130 --- [sample-web-java-app] [main] o.a.c.c.C.[Tomcat].[localhost].[/]
: Initializing Spring embedded WebApplicationContext
2026-02-03T15:46:08.120+01:00 INFO 32130 --- [sample-web-java-app] [main] w.s.c.ServletWebServerApplicationCon
text : Root WebApplicationContext: initialization completed in 80 ms
2026-02-03T15:46:08.475+01:00 INFO 32130 --- [sample-web-java-app] [main] o.s.b.w.embedded.tomcat.TomcatWebSer
ver : Tomcat started on port 9001 (http) with context path ''
2026-02-03T15:46:08.486+01:00 INFO 32130 --- [sample-web-java-app] [main] c.u.s.SampleWebJavaAppApplication
: Started SampleWebJavaAppApplication in 0.729 seconds (process running for 1.401)
Let's inspect the beans provided by Spring Boot:
applicationAvailability
```

```
File Edit Selection View Go Run Terminal Help
sample-java-springboot-app

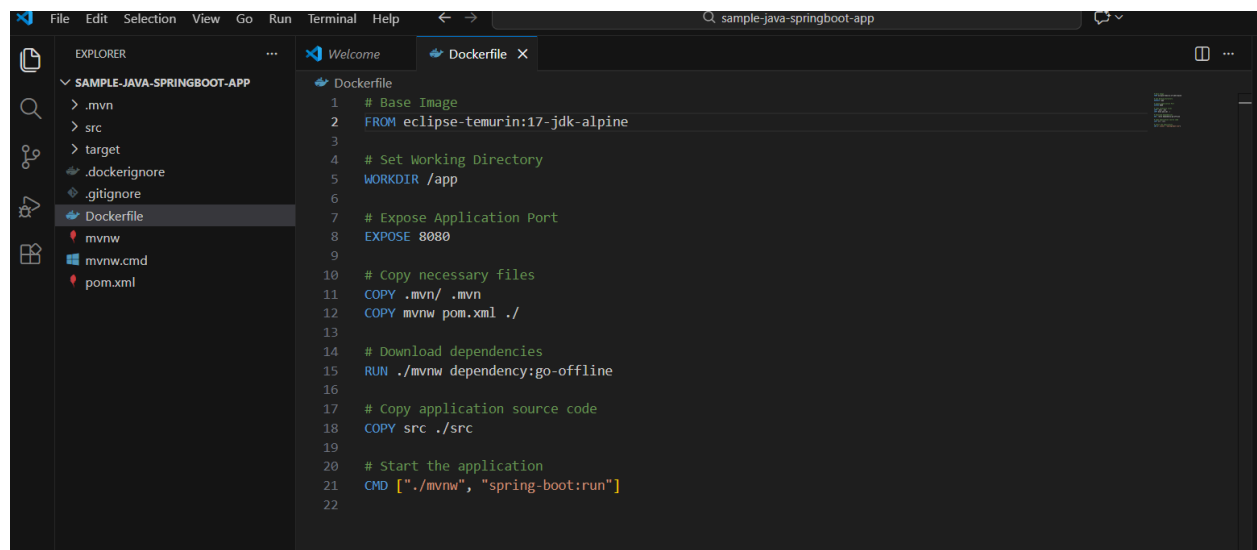
EXPLORER
SAMPLE-JAVA-SPRINGBOOT-APP
> .mvn
> src
  > main
    > java\com\uptut\samplewebja...
      > HelloController.java
      > SampleWebJavaAppApplicatio...
    > resources
      > application.properties
    > test
    > target
  > .dockerignore
  > .gitignore
  > Dockerfile
  > mvnw
  > mvnw.cmd
  > pom.xml

application.properties
src > main > resources > application.properties
1 spring.application.name=sample-web-java-app
2 server.port=9001

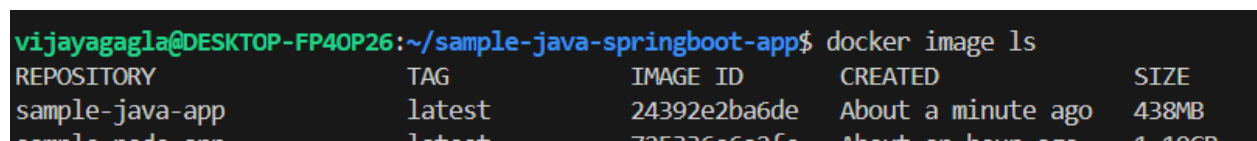
PROBLEMS OUTPUT PORTS TERMINAL DEBUG CONSOLE
sslPropertiesSslBundleRegistrar
standardJacksonObjectMapperBuilderCustomizer
stringHttpMessageConverter
taskExecutorBuilder
taskSchedulerBuilder
themeResolver
threadPoolTaskExecutorBuilder
threadPoolTaskSchedulerBuilder
tomcatServletWebServerFactory
tomcatServletWebServerFactoryCustomizer
tomcatWebServerFactoryCustomizer
viewControllerHandlerMapping
viewNameTranslator
```

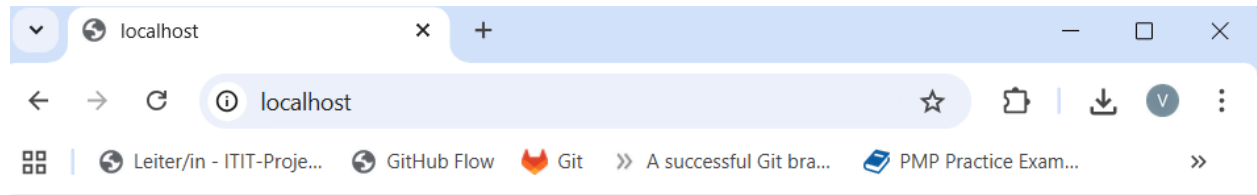


TASK 2 – Writing the Dockerfile



TASK 3 – Building and Running the Container





Greetings from Spring Boot!