



# AQE Project

- Pavan Pendyala

# Spring initializer

**Project**  
☐ Gradle - Groovy  
☐ Gradle - Kotlin ☒ **Maven**

**Language**  
☒ **Java** ☐ Kotlin ☐ Groovy

**Spring Boot**  
☐ 3.4.0 (SNAPSHOT) ☐ 3.4.0 (M1) ☐ 3.3.3 (SNAPSHOT) ☒ **3.3.2**  
☐ 3.2.9 (SNAPSHOT) ☐ 3.2.8

**Project Metadata**  

Group

Artifact

Name

Description

Package name

Packaging ☒ **Jar** ☐ War

Java ☐ 22 ☒ **21** ☐ 17

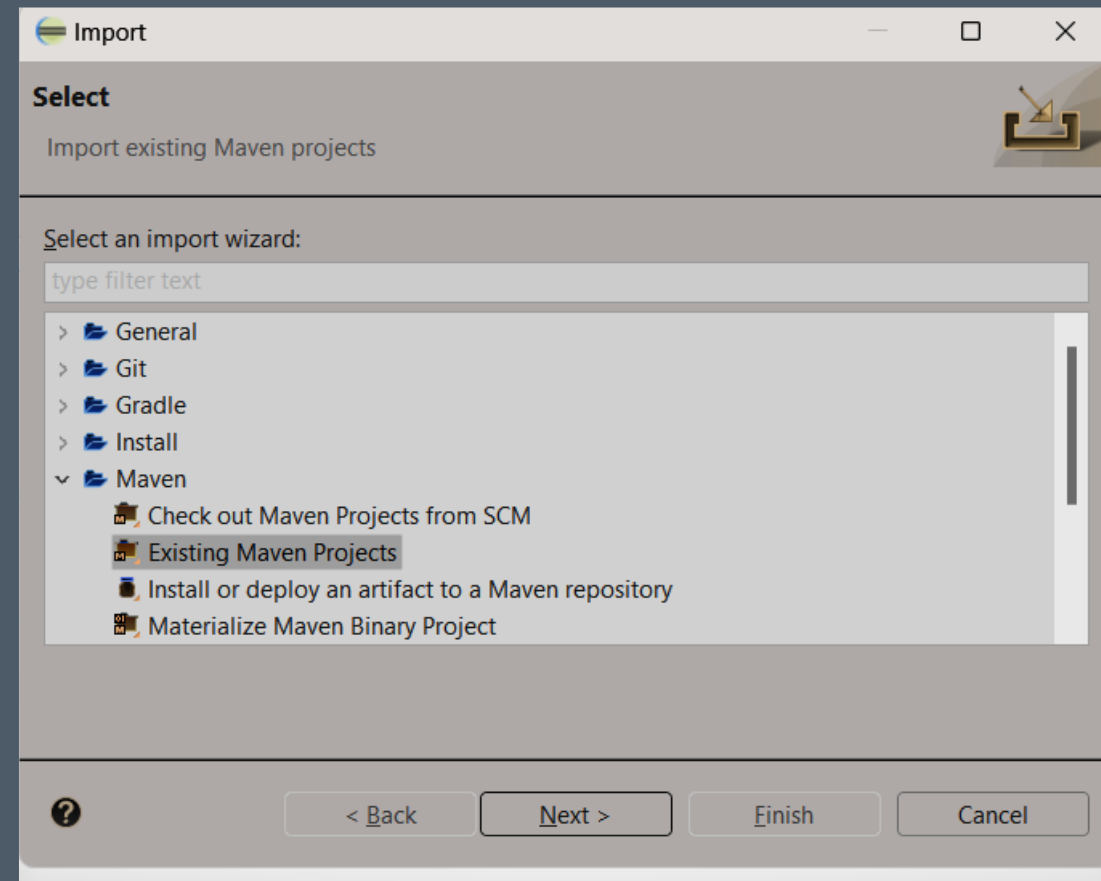
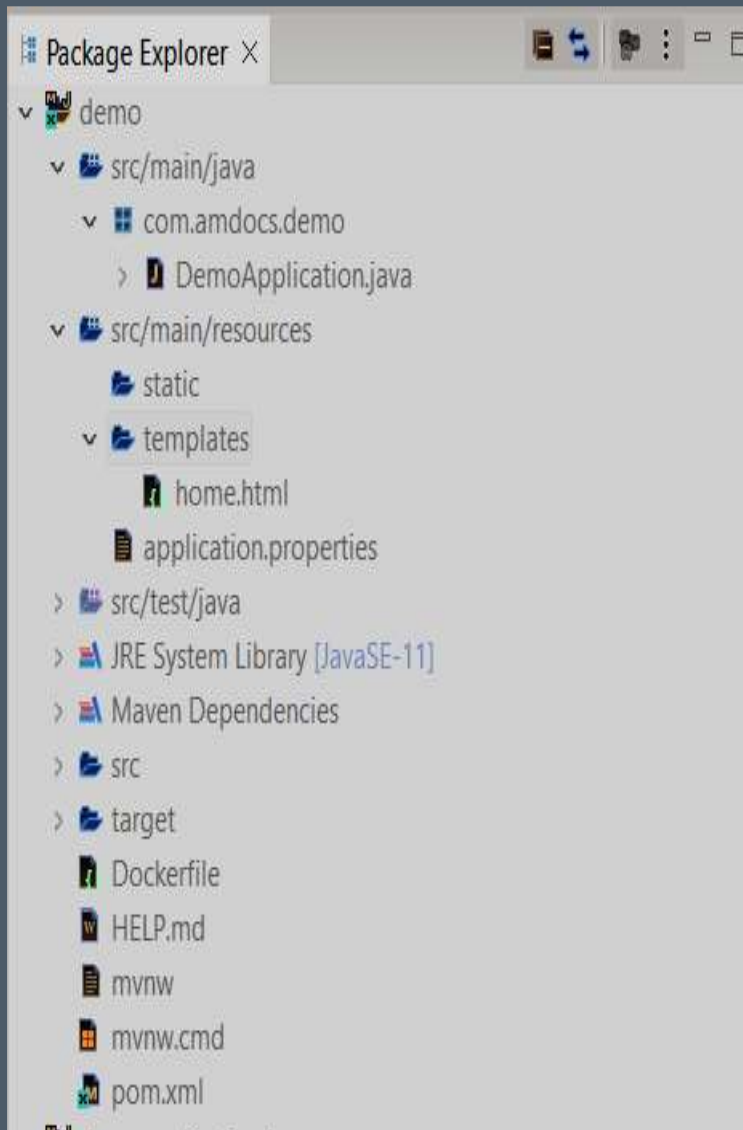
**Dependencies** ADD DEPENDENCIES... CTRL + B

**Spring Web** **WEB**  
Build web, including RESTful, applications using Spring MVC. Uses Apache Tomcat as the default embedded container.

GENERATE CTRL + G

EXPLORE CTRL + SPACE

SHARE...



```

1 package com.amdocs.demo;
2
3 import org.springframework.boot.SpringApplication;
4 import org.springframework.boot.autoconfigure.SpringBootApplication;
5 import org.springframework.stereotype.Controller;
6 import org.springframework.ui.Model;
7 import org.springframework.web.bind.annotation.GetMapping;
8
9 @SpringBootApplication
10 @Controller
11 public class DemoApplication {
12
13     public static void main(String[] args) {
14         SpringApplication.run(DemoApplication.class, args);
15     }
16
17     @GetMapping("/")
18     public String home(Model model) {
19         model.addAttribute("mainMessage", "Welcome to My Awesome World!");
20         model.addAttribute("subMessage", "Explore the wonders of web development");
21         return "home";
22     }
23 }

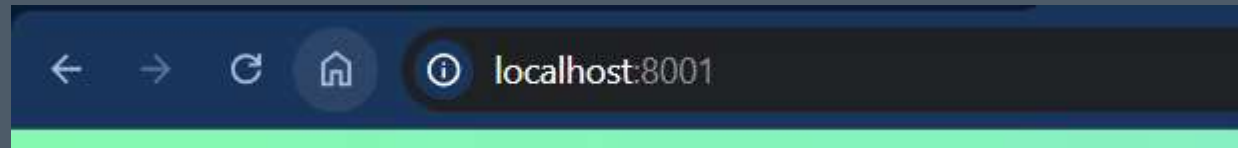
```

```

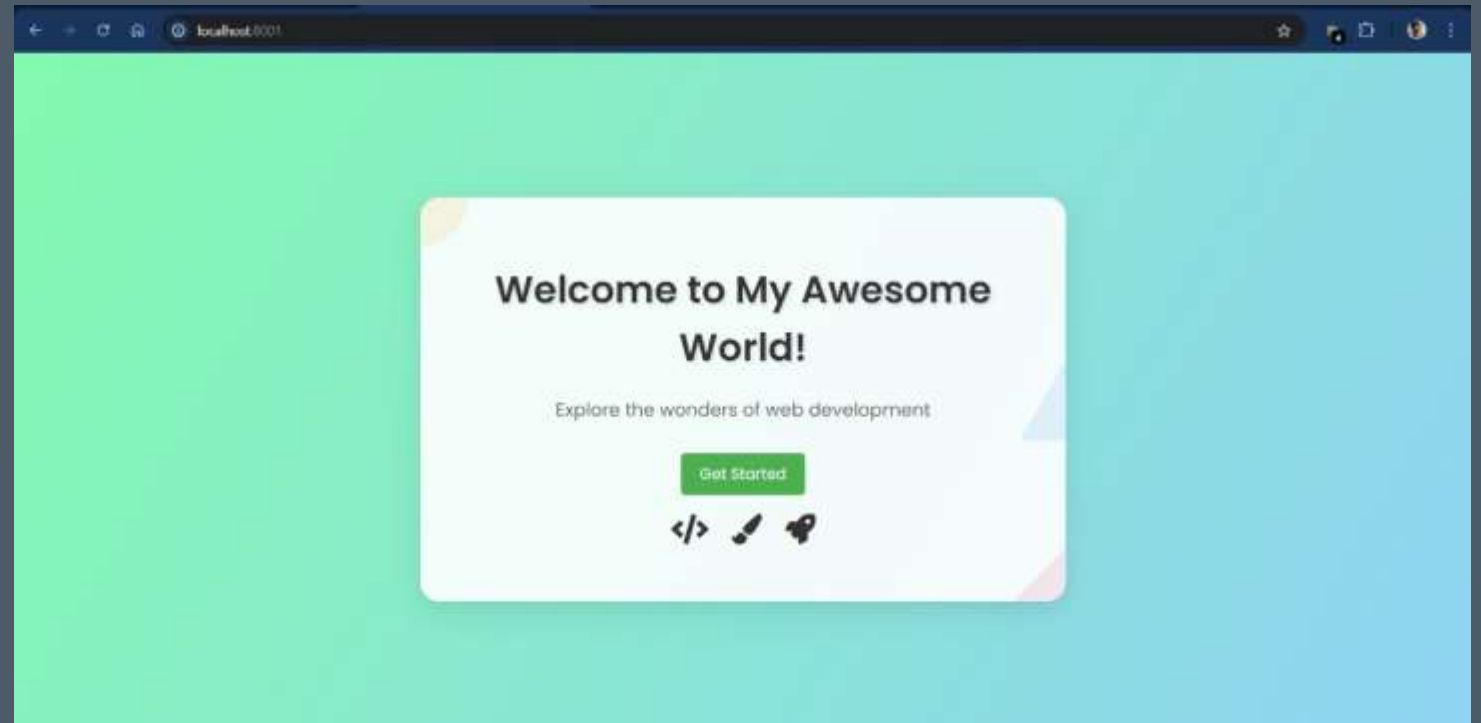
      _ _ _ _ _
     / /   \ \   \ \
    / /   \ \   \ \
   / /   \ \   \ \
  / /   \ \   \ \
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/ /   \ \   \ \
=====
:: Spring Boot ::      (v2.7.13)

2024-07-31 23:44:50.837 INFO 10212 --- [main] com.amdocs.demo.DemoApplication : Starting DemoApplication using Java 21.0.4 on DESKTOP-00
2024-07-31 23:44:50.844 INFO 10212 --- [main] com.amdocs.demo.DemoApplication : No active profile set, falling back to 1 default profile
2024-07-31 23:44:52.786 INFO 10212 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8001 (http)
2024-07-31 23:44:52.806 INFO 10212 --- [main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2024-07-31 23:44:52.806 INFO 10212 --- [main] org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.76]
2024-07-31 23:44:52.980 INFO 10212 --- [main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
2024-07-31 23:44:52.980 INFO 10212 --- [main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in
2024-07-31 23:44:53.525 INFO 10212 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8001 (http) with context path
2024-07-31 23:44:53.535 INFO 10212 --- [main] com.amdocs.demo.DemoApplication : Started DemoApplication in 3.502 seconds (JVM running fo

```










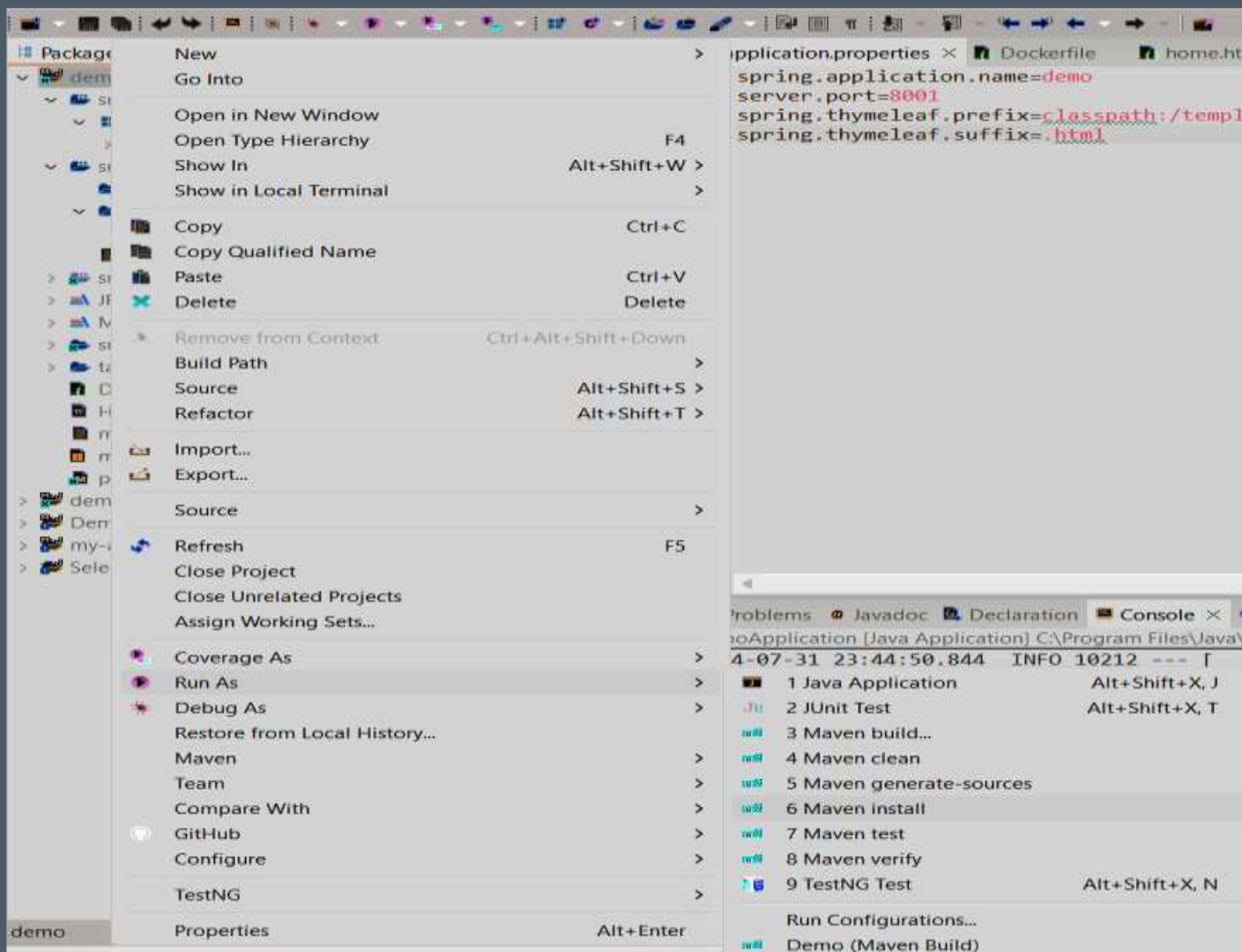
```
application.properties X Dockerfile home.html
1 spring.application.name=demo
2 server.port=8001
3 spring.thymeleaf.prefix=classpath:/templates/
4 spring.thymeleaf.suffix=.html
```



# Continuous Deployment Using Jenkins

S	W	Name ↓	Last Success	Last Failure	Last Duration
✓	☁	Demoamdocs	12 hr #3	2 days 6 hr #1	1 min 25 sec

 <b>PavanKumarPendyala</b> Add files via upload	f7f7387 · 6 minutes ago	🕒 4 Commits
 .mvn/wrapper	first commit	2 days ago
 src	first commit	6 minutes ago
 .gitignore	first commit	2 days ago
 mvnw	first commit	2 days ago
 mvnw.cmd	first commit	2 days ago
 pom.xml	first commit	2 days ago



# Docker File

```
1 # Use an official Java runtime as a parent image
2 FROM openjdk:17
3
4 # Set the working directory in the container
5 EXPOSE 8001
6
7 # Copy the packaged jar file into the container
8 ADD target/demo.jar demo.jar
9
10 # Run the jar file
11 ENTRYPOINT ["java", "-jar", "demo.jar"]
12 |
```



```
D:\Devops\demo>docker build -t demo .
[+] Building 1.5s (7/7) FINISHED
=> [internal] load build definition from Dockerfile 0.0s
=> => transferring dockerfile: 311B 0.0s
=> [internal] load metadata for docker.io/library/openjdk:17 1.3s
=> [internal] load .dockerignore 0.0s
=> => transferring context: 2B 0.0s
=> [internal] load build context 0.0s
=> => transferring context: 65B 0.0s
=> [1/2] FROM docker.io/library/openjdk:17@sha256:528707081fdb9562eb819128a9f85ae7fe00e2fbaef9f87662e7b3f38cb7 0.0s
=> CACHED [2/2] ADD target/demo.jar demo.jar 0.0s
=> exporting to image 0.0s
=> => exporting layers 0.0s
=> => writing image sha256:886338b3d6fccd9ad9134484e4893963952979b10fd8a4e92606d12a54e08d49 0.0s
=> => naming to docker.io/library/demo 0.0s
```

[View build details: docker-desktop://dashboard/build/desktop-linux/desktop-linux/wub4rz8id4dspi3pxr50acch2](#)

What's next:

[View a summary of image vulnerabilities and recommendations + docker scout quickview](#)

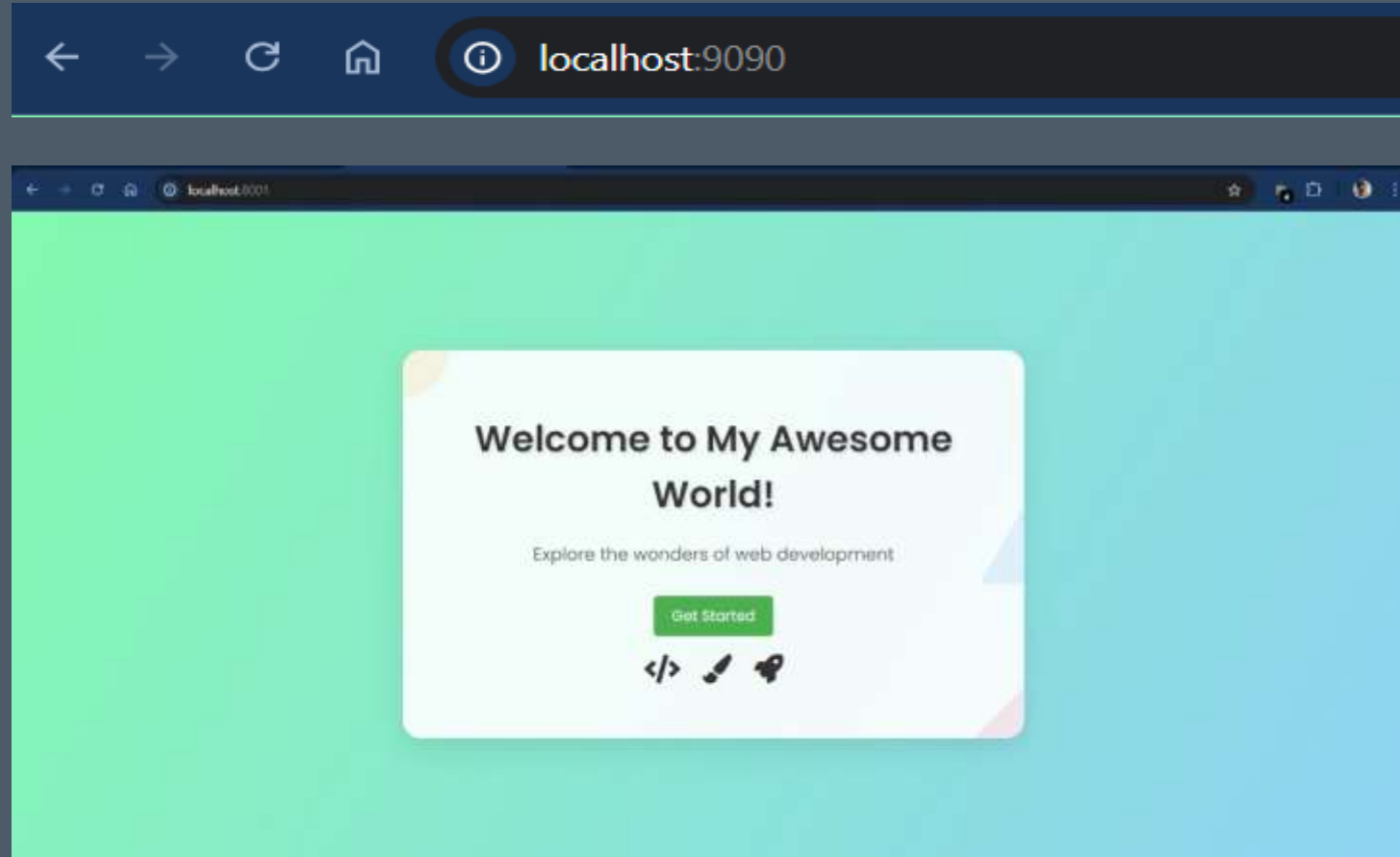
```
D:\Devops\demo>docker run -p 9090:8081 demo
```

```



2024-07-31 18:34:33.334 INFO 1 --- [main] con.amdocs.demo.DemoApplication : Starting DemoApplication v0.0.1-SNAPSHOT using Java 17.0.2 on b6c8af2d080a with PID 1 (/demo.jar started by root in /)
2024-07-31 18:34:33.346 INFO 1 --- [main] con.amdocs.demo.DemoApplication : No active profile set, falling back to 1 default profile: "default"
2024-07-31 18:34:34.540 INFO 1 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8010 (http)
2024-07-31 18:34:34.561 INFO 1 --- [main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2024-07-31 18:34:34.562 INFO 1 --- [main] org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.76]
2024-07-31 18:34:34.692 INFO 1 --- [main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
2024-07-31 18:34:34.692 INFO 1 --- [main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 1227 ms
2024-07-31 18:34:35.232 INFO 1 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8010 (http) with context path ''
2024-07-31 18:34:35.251 INFO 1 --- [main] con.amdocs.demo.DemoApplication : Started DemoApplication in 2.502 seconds (JVM running for 3.166)

```

# Port Mapping



# Deployed Files into Docker

		<b>pavan765/demo:latest</b> <span>IN USE</span>	<b>CREATED</b> 1 day ago
		48662b0ccfc7 	
<b>Layers (12)</b>			
0	ADD file:9893213a9ea238f53ac68d...	110.52 MB	
1	CMD ["/bin/bash"]	0 B	
2	set -eux; microdnf install gzip tar bi...	39.67 MB	
3	ENV JAVA_HOME=/usr/java/openjd...	0 B	
4	ENV PATH=/usr/java/openjdk-17/bi...	0 B	
5	ENV LANG=C.UTF-8	0 B	
6	ENV JAVA_VERSION=17.0.2	0 B	
7	set -eux; arch="\$(objdump="\$(com...	321.28 MB	
8	CMD ["jshell"]	0 B	
9	EXPOSE map[8001/tcp:{}]	0 B	
10	ADD target/demo.jar demo.jar # bu...	19.24 MB	



THANK YOU