

Setting Up Jenkins Pipeline to Deploy Docker Swarm

Output:

```
Microsoft Windows [Version 10.0.19045.3208]
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C:\Users\kvisivasankar\OneDrive\Documents\GitHub\JAVAASSISTEDPROJECTS\DockerSwarm>mvn clean -Dmaven.test.skip=true package

[INFO] Scanning for projects...
[INFO]
[INFO] com.DockerSwarm
[INFO]
[INFO] from pom.xml
[INFO]
[INFO] clean:3.2.0:clean @ DockerSwarm
[INFO] Deleting C:\Users\kvisivasankar\OneDrive\Documents\GitHub\JAVAASSISTEDPROJECTS\DockerSwarm\target
[INFO]
[INFO] resources:3.3.1:resources @ DockerSwarm
[INFO] Copying 1 resource from src/main/resources to target/classes
[INFO] Copying 0 resource from src/main/resources to target/classes
[INFO]
[INFO] compiler:3.11.0:compile @ DockerSwarm
[INFO] Changes detected - recompiling the module: source
[INFO] Compiling 1 source file with javac [debug release 17] to target/classes
[INFO]
[INFO] resources:3.3.1:testResources @ DockerSwarm
[INFO] Not copying test resources
[INFO]
[INFO] compiler:3.11.0:testCompile @ DockerSwarm
[INFO] Not compiling test sources
[INFO]
[INFO] surefire:3.0.0:test @ DockerSwarm
[INFO] Tests are skipped.
[INFO]
[INFO] jar:3.3.0:jar @ DockerSwarm
[INFO] Building jar: C:\Users\kvisivasankar\OneDrive\Documents\GitHub\JAVAASSISTEDPROJECTS\DockerSwarm\target\DockerSwarm-0.0.1-SNAPSHOT.jar
[INFO]
C:\Users\kvisivasankar\OneDrive\Documents\GitHub\JAVAASSISTEDPROJECTS\DockerSwarm>
2023-07-28T19:02:49.835+05:30 INFO 5548 --- [main] com.DockerSwarmApplication : No active profile set, falling back to 1 default profile: "default"
2023-07-28T19:02:49.867+05:30 INFO 5548 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8080 (http)
2023-07-28T19:02:49.888+05:30 INFO 5548 --- [main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2023-07-28T19:02:49.888+05:30 INFO 5548 --- [main] o.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/10.1.11]
2023-07-28T19:02:49.305+05:30 INFO 5548 --- [main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
2023-07-28T19:02:49.308+05:30 INFO 5548 --- [main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 3118 ms
```



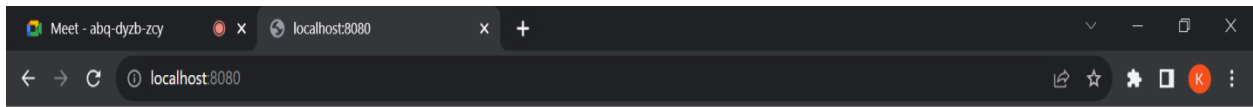
```
C:\WINDOWS\system32\cmd.exe
2023-07-28T19:02:49.888+05:30 INFO 5548 --- [main] o.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/10.1.11]
2023-07-28T19:02:49.888+05:30 INFO 5548 --- [main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
2023-07-28T19:02:49.888+05:30 INFO 5548 --- [main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 3118 ms
2023-07-28T19:02:50.155+05:30 INFO 5548 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080 (http) with context path ''
2023-07-28T19:02:50.212+05:30 INFO 5548 --- [main] com.DockerSwarmApplication : Started DockerSwarmApplication in 5.032 seconds (process running for 6.057)
2023-07-28T19:03:12.334+05:30 INFO 5548 --- [nio-8080-exec-1] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring DispatcherServlet 'dispatcherServlet'
2023-07-28T19:03:12.338+05:30 INFO 5548 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet : Initializing Servlet 'dispatcherServlet'
2023-07-28T19:03:12.338+05:30 INFO 5548 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet : Completed initialization in 2 ms

C:\Users\kvisivasankar\OneDrive\Documents\GitHub\JAVAASSISTEDPROJECTS\DockerSwarm>docker build -t my-morning-spring-app --output type=docker .
[+] Building 4.7s (8/8) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 150B
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [internal] load metadata for docker.io/library/eclipse-temurin:17-jdk-alpine
=> [auth] library/eclipse-temurin:pull token for registry-1.docker.io
=> [internal] load build context
=> => transferring context: 18.98MB
=> CACHED [1/2] FROM docker.io/library/eclipse-temurin:17-jdk-alpine@sha256:3ecc5edd648f5d9c92e53e8eb6361cfcaf626220f8308332f239dfb03418c1c
=> [2/2] COPY target/*.jar app.jar
=> => exporting image
=> => exporting layers
=> => writing image sha256:b312b841c5e467de352846c6af9ef84c368c233e662f57db36d87c831002a17f
=> => naming to docker.io/library/my-morning-spring-app

C:\Users\kvisivasankar\OneDrive\Documents\GitHub\JAVAASSISTEDPROJECTS\DockerSwarm>docker run -d --name my-morning-spring-app -p 8080:8080 my-morning-spring-app
docker: Error response from daemon: Conflict. The container name '/my-morning-spring-app' is already in use by container 'e8e1cad59f7ca0baeb269b51498a819e9171851743431fbcbbfad3c3864453'. You have to remove (or rename) that container to be able to reuse that name.
See 'docker run --help'.

C:\Users\kvisivasankar\OneDrive\Documents\GitHub\JAVAASSISTEDPROJECTS\DockerSwarm>docker ps
CONTAINER ID   IMAGE                                COMMAND                  CREATED          STATUS          PORTS          NAMES
3db078ff0c24   my-morning-spring-app               "java -jar /app.jar"    7 seconds ago   Up 5 seconds   0.0.0.0:8080->8080/tcp   my-morning-spring-app1

C:\Users\kvisivasankar\OneDrive\Documents\GitHub\JAVAASSISTEDPROJECTS\DockerSwarm>
```



Dashboard > my-morning-jenkins-pipeline > Pipeline my-morning-jenkins-pipeline

Automate a spring boot project docker image creation

Stage View

Average stage times: (Average full run time: ~1min 23s)

	Declarative: Tool Install	Checkout from GitHub	Maven Build	Docker Image Creation
#11 Jul 28 19:16 No Changes	423ms	3s	12s	4s
#5 Jul 28 12:37 No Changes	173ms	1s	2min 21s	

Build History

- #11 Jul 28, 2023, 7:16 PM
- #5 Jul 28, 2023, 12:37 PM

Jenkins

Search (CTRL+K)

Dashboard >

New Item

People

Build History

Project Relationship

Check File Fingerprint

Manage Jenkins

My Views

Build Queue

No builds in the queue.

Build Executor Status

S	W	Name	Last Success	Last Failure	Last Duration
✓	☀	hello-selenium-testng	6 days 5 hr #2	N/A	7.5 sec
✓	☁	my-morning-jenkins-pipeline	1 min 9 sec #11	6 hr 45 min #4	22 sec
✗	☁	selejenk	N/A	4 days 9 hr #3	10 sec
...	☀	seleniumproject	N/A	N/A	N/A