# Docker Screenshots:

# Build success of files inside WSL:

```
[INFO]
[INFO] --- clean:3.3.2:clean (default-clean) @ eureka-server ---
[INFO] Deleting /home/shrest/assignment 7/eureka-server/target
[INFO]
[INFO] --- resources:3.3.1:resources (default-resources) @ eureka-server ---
[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:3.13.0:compile (default-compile) @ eureka-server ---
[INFO] Recompiling the module because of changed source code.
[INFO] Compiling 1 source file with javac [debug parameters release 17] to target/classes
[INFO]
[INFO] --- resources:3.3.1:testResources (default-testResources) @ eureka-server ---
[INFO] skip non existing resourceDirectory /home/shrest/assignment 7/eureka-server/src/test/resources
[INFO]
[INFO] --- compiler:3.13.0:testCompile (default-testCompile) @ eureka-server ---
[INFO] Recompiling the module because of changed dependency.
[INFO] Compiling 1 source file with javac [debug parameters release 17] to target/test-classes
[INFO]
[INFO] --- surefire:3.2.5:test (default-test) @ eureka-server ---
[INFO] Tests are skipped.
[INFO]
[INFO] --- jar:3.4.2:jar (default-jar) @ eureka-server ---
[INFO] Building jar: /home/shrest/assignment 7/eureka-server/target/eureka-server-0.0.1-SNAPSHOT.jar
[INFO]
[INFO] --- spring-boot:3.3.4:repackage (repackage) @ eureka-server ---
[INFO] Replacing main artifact /home/shrest/assignment 7/eureka-server/target/eureka-server-0.0.1-SNAPSHOT.jar with repackaged archive, adding nested depend
encies in BOOT-INF/.
[INFO] The original artifact has been renamed to /home/shrest/assignment 7/eureka-server/target/eureka-server-0.0.1-SNAPSHOT.jar.original
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  15.379 s
[INFO] Finished at: 2025-12-08T20:15:04Z
[INFO] ------------------------------------------------------------------------
```

```
[INFO] --- spring-boot:3.2.5:repackage (repackage) @ emailservice ---
```
```
[INFO] Replacing main artifact /home/shrest/assignment 7/emailservice/target/emailservice-0.0.1-SNAPSHOT.jar with repackaged archive, adding nested dependen
cies in BOOT-INF/.
[INFO] The original artifact has been renamed to /home/shrest/assignment 7/emailservice/target/emailservice-0.0.1-SNAPSHOT.jar.original
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  32.777 s
[INFO] Finished at: 2025-12-08T20:14:02Z
[INFO] ------------------------------------------------------------------------
```

```
[INFO] --- clean:3.3.2:clean (default-clean) @ flightservice ---
[INFO] Deleting /home/shrest/assignment 7/flightservice/target
[INFO]
[INFO] --- jacoco:0.8.10:prepare-agent (default) @ flightservice ---
[INFO] argLine set to "-javaagent:/home/shrest/.m2/repository/org/jacoco/org.jacoco.agent/0.8.10/org.jacoco.agent-0.8.10-runtime.jar=destfile=/home/shrest/a
ssignment 7/flightservice/target/jacoco.exec"
[INFO]
[INFO] --- resources:3.3.1:resources (default-resources) @ flightservice ---
[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:3.13.0:compile (default-compile) @ flightservice ---
[INFO] Recompiling the module because of changed source code.
[INFO] Compiling 5 source files with javac [debug parameters release 17] to target/classes
[INFO]
[INFO] --- resources:3.3.1:testResources (default-testResources) @ flightservice ---
[INFO] skip non existing resourceDirectory /home/shrest/assignment 7/flightservice/src/test/resources
[INFO]
[INFO] --- compiler:3.13.0:testCompile (default-testCompile) @ flightservice ---
[INFO] Recompiling the module because of changed dependency.
[INFO] Compiling 3 source files with javac [debug parameters release 17] to target/test-classes
[INFO]
[INFO] --- surefire:3.2.5:test (default-test) @ flightservice ---
[INFO] Tests are skipped.
[INFO]
[INFO] --- jacoco:0.8.10:report (report) @ flightservice ---
[INFO] Skipping JaCoCo execution due to missing execution data file.
[INFO]
[INFO] --- jar:3.4.2:jar (default-jar) @ flightservice ---
[INFO] Building jar: /home/shrest/assignment 7/flightservice/target/flightservice-0.0.1-SNAPSHOT.jar
[INFO]
[INFO] --- spring-boot:3.3.4:repackage (repackage) @ flightservice ---
[INFO] Replacing main artifact /home/shrest/assignment 7/flightservice/target/flightservice-0.0.1-SNAPSHOT.jar with repackaged archive, adding nested depend
encies in BOOT-INF/.
[INFO] The original artifact has been renamed to /home/shrest/assignment 7/flightservice/target/flightservice-0.0.1-SNAPSHOT.jar.original
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  16.541 s
[INFO] Finished at: 2025-12-08T20:10:28Z
[INFO] ------------------------------------------------------------------------
```

```
Downloading from central: https://repo.maven.apache.org/maven2/org/antlr/antlr4-runtime/4.7.2/antlr4-runtime-4.7.2.jar (338 kB at 182 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/springframework/boot/spring-boot-loader-tools/3.3.4/spring-boot-loader-tools-3.3.4.jar
Downloaded from central: https://repo.maven.apache.org/maven2/com/google/code/findbugs/jsr305/3.0.2/jsr305-3.0.2.jar (20 kB at 10 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-common-artifact-filters/3.3.2/maven-common-artifact-filters-3.3
.2.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-common-artifact-filters/3.3.2/maven-common-artifact-filters-3.3.
2.jar (58 kB at 26 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/io/micrometer/micrometer-observation/1.12.10/micrometer-observation-1.12.10.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/springframework/boot/spring-boot-loader-tools/3.3.4/spring-boot-loader-tools-3.3.4.jar (46
4 kB at 208 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/io/micrometer/micrometer-commons/1.12.10/micrometer-commons-1.12.10.jar
Downloaded from central: https://repo.maven.apache.org/maven2/io/micrometer/micrometer-commons/1.12.10/micrometer-commons-1.12.10.jar (47 kB at 20 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-shade-plugin/3.5.0/maven-shade-plugin-3.5.0.jar
Downloaded from central: https://repo.maven.apache.org/maven2/io/micrometer/micrometer-observation/1.12.10/micrometer-observation-1.12.10.jar (72 kB at 31 k
B/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/jdom/jdom2/2.0.6.1/jdom2-2.0.6.1.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-shade-plugin/3.5.0/maven-shade-plugin-3.5.0.jar (147 kB at 57 k
B/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-dependency-tree/3.2.1/maven-dependency-tree-3.2.1.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/jdom/jdom2/2.0.6.1/jdom2-2.0.6.1.jar (328 kB at 123 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/commons-io/commons-io/2.13.0/commons-io-2.13.0.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-dependency-tree/3.2.1/maven-dependency-tree-3.2.1.jar (43 kB at
16 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/vafer/jdependency/2.8.0/jdependency-2.8.0.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/vafer/jdependency/2.8.0/jdependency-2.8.0.jar (233 kB at 74 kB/s)
Downloading from central: https://repo.maven.apache.org/maven2/org/apache/commons/commons-collections4/4.4/commons-collections4-4.4.jar
Downloaded from central: https://repo.maven.apache.org/maven2/commons-io/commons-io/2.13.0/commons-io-2.13.0.jar (484 kB at 153 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/net/java/dev/jna/jna/5.13.0/jna-5.13.0.jar (1.9 MB at 554 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/net/java/dev/jna/jna-platform/5.13.0/jna-platform-5.13.0.jar (1.4 MB at 376 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/commons/commons-collections4/4.4/commons-collections4-4.4.jar (752 kB at 207 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/com/fasterxml/jackson/core/jackson-databind/2.14.2/jackson-databind-2.14.2.jar (1.6 MB at 441
kB/s)
[INFO] Replacing main artifact /home/shrest/assignment 7/bookingservice/target/bookingservice-0.0.1-SNAPSHOT.jar with repackaged archive, adding nested depe
ndencies in BOOT-INF/.
[INFO] The original artifact has been renamed to /home/shrest/assignment 7/bookingservice/target/bookingservice-0.0.1-SNAPSHOT.jar.original
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  01:38 min
[INFO] Finished at: 2025-12-08T20:09:39Z
[INFO] ------------------------------------------------------------------------
```

**JAR files created screenshot in each folder of microservice:**

```
shrest@Shrest:~/assignment 7$ ls ~/assignment\ 7/configserver/target
classes  configserver-0.0.1-SNAPSHOT.jar  configserver-0.0.1-SNAPSHOT.jar.original  generated-sources  maven-archiver  maven-status
shrest@Shrest:~/assignment 7$ ls ~/assignment\ 7/Apigateway/target
apigateway-0.0.1-SNAPSHOT.jar  apigateway-0.0.1-SNAPSHOT.jar.original  classes  generated-sources  maven-archiver  maven-status
shrest@Shrest:~/assignment 7$ ls ~/assignment\ 7/bookingservice/target
bookingservice.jar                         classes           generated-test-sources  maven-status
bookingservice-0.0.1-SNAPSHOT.jar.original  generated-sources  maven-archiver          test-classes
shrest@Shrest:~/assignment 7$ ls ~/assignment\ 7/flightservice/target
classes                       flightservice-0.0.1-SNAPSHOT.jar.original  generated-test-sources  maven-status
flightservice-0.0.1-SNAPSHOT.jar  generated-sources                          maven-archiver          test-classes
shrest@Shrest:~/assignment 7$ ls ~/assignment\ 7/eurekaserver/target
ls: cannot access '/home/shrest/assignment 7/eurekaserver/target': No such file or directory
shrest@Shrest:~/assignment 7$ ls ~/assignment\ 7/eureka-server/target
classes                       eureka-server-0.0.1-SNAPSHOT.jar.original  generated-test-sources  maven-status
eureka-server-0.0.1-SNAPSHOT.jar  generated-sources                          maven-archiver          test-classes
shrest@Shrest:~/assignment 7$ ls ~/assignment\ 7/emailservice/target
classes                       emailservice-0.0.1-SNAPSHOT.jar.original  generated-test-sources  maven-status
emailservice-0.0.1-SNAPSHOT.jar  generated-sources                          maven-archiver          test-classes
shrest@Shrest:~/assignment 7$
```

## Starting all services from docker cli :



```
=> => exporting config sha256:e6496ad7eca41faffc12ba286abc35b58720adf62ebf5e16e407b38137f8ecb6          0.0s
=> => exporting attestation manifest sha256:2283c175b5da8a989bd97d29d45414bea26fc77c57ac1c9c9b5702bf130eda1f  0.2s
=> => exporting manifest list sha256:170ef81b59dfe2a2eba229f2000fcff22662f98f5182be38a64ec6cd1b584380      0.1s
=> => naming to docker.io/library/assignment7-flightservice:latest                                          0.0s
=> => unpacking to docker.io/library/assignment7-flightservice:latest                                       0.0s
=> [bookingservice] resolving provenance for metadata file                                                  0.5s
=> [eureka-server] resolving provenance for metadata file                                                   0.5s
=> [flightservice] resolving provenance for metadata file                                                   0.4s
=> [emailservice] resolving provenance for metadata file                                                    0.3s
=> [config-server] resolving provenance for metadata file                                                   0.1s
=> [apigateway] resolving provenance for metadata file                                                      0.0s
[+] up 12/12
 ✔Image assignment7-bookingservice Built                                                                   7.0s
 ✔Image assignment7-flightservice  Built                                                                   7.0s
 ✔Image assignment7-apigateway     Built                                                                   7.0s
 ✔Image assignment7-eureka-server  Built                                                                   7.0s
 ✔Image assignment7-config-server  Built                                                                   7.0s
 ✔Image assignment7-emailservice   Built                                                                   7.0s
 ✔Container eureka-server          Recreated                                                               0.3s
 ✔Container config-server          Recreated                                                               0.2s
 ✔Container emailservice           Recreated                                                               0.2s
 ✔Container bookingservice         Recreated                                                               0.2s
 ✔Container flightservice          Recreated                                                               0.2s
 ✔Container apigateway             Recreated                                                               0.2s
Attaching to apigateway, bookingservice, config-server, emailservice, eureka-server, flightservice, rabbitmq
eureka-server  | Standard Commons Logging discovery in action with spring-jcl: please remove commons-logging.jar from cl
asspath in order to avoid potential conflicts
```

## Started All services from docker engine CLI:

```
shrest@Shrest: ~/assignment

eureka-server  | 2025-12-09T07:30:30.671Z  INFO 1 --- [eureka-server] [        Thread-9] e.s.EurekaServerInitializerConfiguration : Started Eureka Server
eureka-server  | 2025-12-09T07:30:30.683Z  INFO 1 --- [eureka-server] [            main] o.s.b.w.embedded.tomcat.TomcatWebServer  : Tomcat started on port 87
61 (http) with context path '/'
eureka-server  | 2025-12-09T07:30:30.686Z  INFO 1 --- [eureka-server] [            main] .s.c.n.e.s.EurekaAutoServiceRegistration : Updating port to 8761
eureka-server  | 2025-12-09T07:30:30.723Z  INFO 1 --- [eureka-server] [            main] c.f.e.EurekaServerApplication            : Started EurekaServerAppli
cation in 9.825 seconds (process running for 11.186)
config-server  | 2025-12-09T07:30:58.197Z  INFO 1 --- [configserver] [reshExecutor-%d] com.netflix.discovery.DiscoveryClient    : Disable delta property : f
alse
config-server  | 2025-12-09T07:30:58.198Z  INFO 1 --- [configserver] [reshExecutor-%d] com.netflix.discovery.DiscoveryClient    : Single vip registry refres
h property : null
config-server  | 2025-12-09T07:30:58.198Z  INFO 1 --- [configserver] [reshExecutor-%d] com.netflix.discovery.DiscoveryClient    : Force full registry fetch
: false
config-server  | 2025-12-09T07:30:58.198Z  INFO 1 --- [configserver] [reshExecutor-%d] com.netflix.discovery.DiscoveryClient    : Application is null : fals
e
```

```
shrest@Shrest: ~/assignment

emailservice  | 2025-12-09T07:32:54.286Z  INFO 1 --- [emailservice] [            main] c.f.e.EmailserviceApplication            : No active profile set, fall
ing back to 1 default profile: "default"
emailservice  | 2025-12-09T07:32:57.387Z  INFO 1 --- [emailservice] [            main] o.s.b.w.embedded.tomcat.TomcatWebServer  : Tomcat initialized with por
t 8080 (http)
emailservice  | 2025-12-09T07:32:57.414Z  INFO 1 --- [emailservice] [            main] o.apache.catalina.core.StandardService   : Starting service [Tomcat]
emailservice  | 2025-12-09T07:32:57.414Z  INFO 1 --- [emailservice] [            main] o.apache.catalina.core.StandardEngine    : Starting Servlet engine: [A
pache Tomcat/10.1.20]
emailservice  | 2025-12-09T07:32:57.507Z  INFO 1 --- [emailservice] [            main] o.a.c.c.C.[Tomcat].[localhost].[/]       : Initializing Spring embedde
d WebApplicationContext
emailservice  | 2025-12-09T07:32:57.511Z  INFO 1 --- [emailservice] [            main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext:
 initialization completed in 2782 ms
emailservice  | 2025-12-09T07:32:59.642Z  INFO 1 --- [emailservice] [            main] o.s.b.w.embedded.tomcat.TomcatWebServer  : Tomcat started on port 8080
 (http) with context path ''
emailservice  | 2025-12-09T07:32:59.659Z  INFO 1 --- [emailservice] [            main] o.s.a.r.c.CachingConnectionFactory       : Attempting to connect to: [
rabbitmq:5672]
rabbitmq      | 2025-12-09 07:32:59.726180+00:00 [info] <0.895.0> accepting AMQP connection <0.895.0> (172.19.0.5:57064 -> 172.19.0.2:5672)
rabbitmq      | 2025-12-09 07:32:59.797003+00:00 [info] <0.895.0> connection <0.895.0> (172.19.0.5:57064 -> 172.19.0.2:5672) has a client-provided name: rab
bitConnectionFactory#3eb3232b:0
rabbitmq      | 2025-12-09 07:32:59.812461+00:00 [info] <0.895.0> connection <0.895.0> (172.19.0.5:57064 -> 172.19.0.2:5672 - rabbitConnectionFactory#3eb323
2b:0): user 'guest' authenticated and granted access to vhost '/'
emailservice  | 2025-12-09T07:32:59.823Z  INFO 1 --- [emailservice] [            main] o.s.a.r.c.CachingConnectionFactory       : Created new connection: rab
bitConnectionFactory#3eb3232b:0/SimpleConnection@259b85d6 [delegate=amqp://guest@172.19.0.2:5672/, localPort=57064]
emailservice  | 2025-12-09T07:33:00.102Z  INFO 1 --- [emailservice] [            main] c.f.e.EmailserviceApplication            : Started EmailserviceApplica
tion in 7.022 seconds (process running for 8.487)
```