```
3
    1. lab 압축 파일 다운로드 및 압축해제
4
        $ wget https://github.com/swacademy/CICDwithJenkins/raw/main/CICD/guestbook.zip
5
            --2024-02-13 08:06:24--
            https://github.com/swacademy/CICDwithJenkins/raw/main/questbook.zip
6
            Resolving github.com (github.com)... 20.200.245.247
7
            Connecting to github.com (github.com) |20.200.245.247|:443... connected.
8
            HTTP request sent, awaiting response... 302 Found
9
            Location:
            https://raw.githubusercontent.com/swacademy/CICDwithJenkins/main/guestbook.zip
             [following]
            --2024-02-13 08:06:24--
10
            https://raw.githubusercontent.com/swacademy/CICDwithJenkins/main/guestbook.zip
            Resolving raw.githubusercontent.com (raw.githubusercontent.com)...
            185.199.108.133, 185.199.109.133, 185.199.110.133, ...
            Connecting to raw.githubusercontent.com
            (raw.githubusercontent.com) | 185.199.108.133 | :443... connected.
13
            HTTP request sent, awaiting response... 200 OK
            Length: 236262 (231K) [application/zip]
1 4
15
            Saving to: 'guestbook.zip'
16
17
            236,262
                      --.-K/s in 0.01s
18
            2024-02-13 08:06:25 (16.8 MB/s) - 'guestbook.zip' saved [236262/236262]
19
20
21
        $ sudo apt install -y unzip
22
        $ unzip questbook.zip
23
            Archive: guestbook.zip
24
              inflating: .classpath
25
              inflating: .gitignore
26
              creating: .mvn/
27
              creating: .mvn/wrapper/
28
              inflating: .mvn/wrapper/maven-wrapper.jar
29
              inflating: .mvn/wrapper/maven-wrapper.properties
30
              inflating: .mvn/wrapper/MavenWrapperDownloader.java
              inflating: .project
31
32
              creating: .settings/
33
              inflating: .settings/org.eclipse.core.resources.prefs
34
              inflating: .settings/org.eclipse.jdt.apt.core.prefs
              inflating: .settings/org.eclipse.jdt.core.prefs
35
              inflating: .settings/org.eclipse.m2e.core.prefs
36
              \verb|inflating: .settings/org.springframework.ide.eclipse.prefs|\\
37
38
              inflating: Dockerfile
39
              inflating: HELP.md
40
              inflating: mvnw
              inflating: mvnw.cmd
41
42
              inflating: pom.xml
43
               creating: src/
44
            . . .
45
            . . .
46
47
            $ chmod u+x mvnw
48
            $ ./mvnw clean package
49
50
51
            [INFO] Replacing main artifact with repackaged archive
52
53
            [INFO] BUILD SUCCESS
54
            ______
5.5
            [INFO] Total time: 43.621 s
56
            [INFO] Finished at: 2024-01-24T12:28:43Z
57
            [INFO]
            ______
58
            $ ls -l target/*.jar
59
60
            -rw-rw-r-- 1 ec2-user ec2-user 25061688 Feb 13 08:15
            target/guestbook-0.0.1-SNAPSHOT.jar
61
```

Lab2. 수동 빌드 및 배포

1

62

```
63
      2. Docker Image 작성하기
 64
         $ docker image build -t guestbook .
 65
         $ docker image ls
 66
         REPOSITORY TAG
                                 IMAGE ID CREATED
                                                                 SIZE
                                6dc88f95084e 11 seconds ago
 67
         guestbook latest
                                                                  501MB
 68
                      latest 5107333e08a8 6 weeks ago
                                                                 578MB
         mysql
 69
 70
 71
      3. Docker Hub에 Upload 하기
         1) Docker Hub Login
 73
 74
              $ docker login
 75
              Username:
 76
              Password:
 77
 78
             Login Succeeded
 79
 80
          2) Docker Image Tagging
 81
              $ docker tag guestbook {{docker hub account}}/guestbook:v1
 82
              $ docker image ls
 83
                                     TAG
                                               IMAGE ID
              REPOSITORY
                                                               CREATED
                                                                               SIZE
              devtrainer/guestbook v1
 84
                                              d98cb618f1b2 7 minutes ago 497MB
 85
                                     latest d98cb618f1b2 7 minutes ago 497MB
              questbook
                                     latest 5107333e08a8 6 weeks ago
 86
             mysql
                                                                               578MB
 87
 88
          3) Docker Image Push
              $ docker push {{docker hub account}}/guestbook:v1
 89
 90
 91
 92
      4. Docker Container로 방명록 웹어플리케이션 실행
 93
             $ docker container run \
 94
     --name=guestbookapp \
 95
     --rm \
 96
     --network=host \
 97
     -e MYSQL IP=172.31.0.100 \
     -e MYSQL_PORT=3306 \
 98
99
     -e MYSQL_DATABASE=guestbook \
     -e MYSQL_USER=root \
100
101
     -e MYSQL_PASSWORD=education \
102
     {{docker hub account}}/guestbook:v1
103
104
      105
106
107
108
                  |=======||___/=/_/_/
109
       =======|
110
      :: Spring Boot ::
111
      2024-01-24 13:07:12.893 INFO 1 --- [ main] c.j.guestbook.GuestbookApplication : Starting GuestbookApplication
112
      v0.0.1-SNAPSHOT using Java 17.0.2 on ip-172-31-13-45 with PID 1 (/app/guestbook.jar
      started by root in /app)
      2024-01-24 13:07:12.897 INFO 1 --- [ main] c.j.guestbook.GuestbookApplication : No active profile set, falling back to 1
      default profile: "default"
      2024-01-24 13:07:14.578 INFO 1 --- [
114
                                                      mainl
      o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 80 (http)
115
      2024-01-24 13:07:14.595 INFO 1 --- [
                                                     main]
      o.apache.catalina.core.StandardService : Starting service [Tomcat]
116
      2024-01-24 13:07:14.596 INFO 1 --- [
                                                      main]
      org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache
      Tomcat/9.0.60]
     2024-01-24 13:07:14.689 INFO 1 --- [ main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded
      WebApplicationContext
     2024-01-24 13:07:14.690 INFO 1 --- [
118
                                                      main]
      w.s.c.ServletWebServerApplicationContext: Root WebApplicationContext: initialization
      completed in 1654\ \mathrm{ms}
     2024-01-24 13:07:15.359 INFO 1 --- [
119
                                                      main]
      o.s.b.a.w.s.WelcomePageHandlerMapping : Adding welcome page template: index
     2024-01-24 13:07:15.494 INFO 1 --- [ main] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Starting...
120
```

```
o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 80 (http) with
     context path ''
2024-01-24 13:07:15.863 INFO 1 --- [ main] c.j.guestbook.GuestbookApplication : Started GuestbookApplication in 3.661
     seconds (JVM running for 4.246)
124
125
     5. EC2 Instance EIP로 웹 접속 후 방명록 샘플 웹어플리케이션 동작 확인 후 컨테이너 종료
126
127
            http://EIP
128
129
            $ Ctrl + C
130
131
132
     6. MySQL Workbench에서 확인
```

-guestbook > post table 확인

133