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1 Lab2. 수동 빌드 및 배포
2
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/guestbook.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]
10 --2024-02-13 08:06:24-- https://raw.githubusercontent.com/swacademy/CICDwithJenkins/main/guestbook.zip
11 Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.108.133, 185.199.109.133,
12 185.199.110.133, ...
13 Connecting to raw.githubusercontent.com (raw.githubusercontent.com)|185.199.108.133|:443... connected.
14 HTTP request sent, awaiting response... 200 OK
15 Length: 236262 (231K) [application/zip]
16 Saving to: 'guestbook.zip'
17
18 100%[=====>]
19 236,262 --.-K/s in 0.01s
20
21 2024-02-13 08:06:25 (16.8 MB/s) - 'guestbook.zip' saved [236262/236262]
22
23 $ sudo apt install -y unzip
24 $ unzip guestbook.zip
25 Archive: guestbook.zip
26 inflating: .classpath
27 inflating: .gitignore
28 creating: .mvn/
29 creating: .mvn/wrapper/
30 inflating: .mvn/wrapper/maven-wrapper.jar
31 inflating: .mvn/wrapper/maven-wrapper.properties
32 inflating: .mvn/wrapper/MavenWrapperDownloader.java
33 inflating: .project
34 creating: .settings/
35 inflating: .settings/org.eclipse.core.resources.prefs
36 inflating: .settings/org.eclipse.jdt.apt.core.prefs
37 inflating: .settings/org.eclipse.jdt.core.prefs
38 inflating: .settings/org.eclipse.m2e.core.prefs
39 inflating: .settings/org.springframework.ide.eclipse.prefs
40 inflating: Dockerfile
41 inflating: HELP.md
42 inflating: mvnw
43 inflating: mvnw.cmd
44 inflating: pom.xml
45 creating: src/
46 ...
47 ...
48
49 $ chmod u+x mvnw
50 $ ./mvnw clean package
51 ...
52 [INFO] Replacing main artifact with repackaged archive
53 [INFO] -----
54 [INFO] BUILD SUCCESS
55 [INFO] -----
56 [INFO] Total time: 43.621 s
57 [INFO] Finished at: 2024-01-24T12:28:43Z
58 [INFO] -----
59
60 $ ls -l target/*.jar
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60 -rw-rw-r-- 1 ec2-user ec2-user 25061688 Feb 13 08:15 target/guestbook-0.0.1-SNAPSHOT.jar
```

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61  
62  
63 2. Docker Image 작성하기  
64 $ docker image build -t guestbook .  
65 $ docker image ls  
66 REPOSITORY TAG IMAGE ID CREATED SIZE  
67 guestbook latest d98cb618f1b2 11 seconds ago 497MB  
68 mysql 5.7 5107333e08a8 6 weeks ago 501MB  
69  
70  
71 3. Docker Hub에 Upload 하기  
72 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 REPOSITORY TAG IMAGE ID CREATED SIZE  
84 devtrainer/guestbook v1 d98cb618f1b2 7 minutes ago 497MB  
85 guestbook latest d98cb618f1b2 7 minutes ago 497MB  
86  
87 3)Docker Image Push  
88 $ docker push {{docker hub account}}/guestbook:v1  
89  
90  
91 4. Docker Container로 방명록 웹어플리케이션 실행  
92 $ docker container run W  
93 --name=guestbookapp W  
94 --rm W  
95 --network=host W  
96 -e MYSQL_IP=172.17.0.2 W  
97 -e MYSQL_PORT=3306 W  
98 -e MYSQL_DATABASE=guestbook W  
99 -e MYSQL_USER=root W  
100 -e MYSQL_PASSWORD=education W  
101 {{docker hub account}}/guestbook:v1  
102  
103 . ____ _  
104 /WWW / __'__ _(_)_ _ WWW WW WW  
105 (( )W_ | '_|_| |_| W/_` | WWW WW  
106 WW/ _| |||| || || (| ))))  
107 ' |_||_.|||.||_W_||||/  
108 =====|=|=====|_/=///  
109 :: Spring Boot :: (v2.6.6)  
110  
111 2024-01-24 13:07:12.893 INFO 1 --- [ main] c.j.guestbook.GuestbookApplication : Starting  
GuestbookApplication 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)  
112 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"  
113 2024-01-24 13:07:14.578 INFO 1 --- [ main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat  
initialized with port(s): 80 (http)  
114 2024-01-24 13:07:14.595 INFO 1 --- [ main] o.apache.catalina.core.StandardService : Starting service  
[Tomcat]  
115 2024-01-24 13:07:14.596 INFO 1 --- [ main] org.apache.catalina.core.StandardEngine : Starting Servlet
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engine: [Apache Tomcat/9.0.60]
116 2024-01-24 13:07:14.689 INFO 1 --- [      main] o.a.c.c.C.[Tomcat].[localhost].[/]       : Initializing Spring
    embedded WebApplicationContext
117 2024-01-24 13:07:14.690 INFO 1 --- [      main] w.s.c.ServletWebServerApplicationContext : Root
    WebApplicationContext: initialization completed in 1654 ms
118 2024-01-24 13:07:15.359 INFO 1 --- [      main] o.s.b.a.w.s.WelcomePageHandlerMapping    : Adding welcome
    page template: index
119 2024-01-24 13:07:15.494 INFO 1 --- [      main] com.zaxxer.hikari.HikariDataSource       : HikariPool-1 -
    Starting...
120 2024-01-24 13:07:15.670 INFO 1 --- [      main] com.zaxxer.hikari.HikariDataSource       : HikariPool-1 - Start
    completed.
121 2024-01-24 13:07:15.852 INFO 1 --- [      main] o.s.b.w.embedded.tomcat.TomcatWebServer  : Tomcat started
    on port(s): 80 (http) with context path ""
122 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)
123
124
125 5. EC2 Instance EIP로 웹 접속 후 방명록 샘플 웹어플리케이션 동작 확인 후 컨테이너 종료
126     http://EIP
127
128     $ Ctrl + C
129
130
131 6. MySQL Workbench에서 확인
132     -guestbook > post table 확인
```