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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 $ unzip guestbook.zip
24 Archive: guestbook.zip
25 inflating: .classpath
26 inflating: .gitignore
27 creating: .mvn/
28 creating: .mvn/wrapper/
29 inflating: .mvn/wrapper/maven-wrapper.jar
30 inflating: .mvn/wrapper/maven-wrapper.properties
31 inflating: .mvn/wrapper/MavenWrapperDownloader.java
32 inflating: .project
33 creating: .settings/
34 inflating: .settings/org.eclipse.core.resources.prefs
35 inflating: .settings/org.eclipse.jdt.apt.core.prefs
36 inflating: .settings/org.eclipse.jdt.core.prefs
37 inflating: .settings/org.eclipse.m2e.core.prefs
38 inflating: .settings/org.springframework.ide.eclipse.prefs
39 inflating: Dockerfile
40 inflating: HELP.md
41 inflating: mvnw
42 inflating: mvnw.cmd
43 inflating: pom.xml
44 creating: src/
45 ...
46 ...
47
48 $ chmod u+x mvnw
49 $ ./mvnw clean package
50 ...
51 [INFO] Replacing main artifact with repackaged archive
52 [INFO] -----
53 [INFO] BUILD SUCCESS
54 [INFO] -----
55 [INFO] Total time: 43.621 s
56 [INFO] Finished at: 2024-01-24T12:28:43Z
57 [INFO] -----
58
59 $ ls -l target/*.jar
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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60
61
62 2. Docker Image 작성하기
63     $ docker image build -t guestbook .
64     $ docker image ls
65     REPOSITORY   TAG       IMAGE ID       CREATED        SIZE
66     guestbook     latest    d98cb618f1b2   11 seconds ago 497MB
67     mysql         5.7       5107333e08a8   6 weeks ago    501MB
68
69
70 3. Docker Hub에 Upload 하기
71     1)Docker Hub Login
72
73     $ docker login
74     Username:
75     Password:
76
77     Login Succeeded
78
79     2)Docker Image Tagging
80     $ docker tag guestbook {{docker hub account}}/guestbook:v1
81     $ docker image ls
82     REPOSITORY   TAG       IMAGE ID       CREATED        SIZE
83     devtrainer/guestbook v1        d98cb618f1b2   7 minutes ago 497MB
84     guestbook     latest    d98cb618f1b2   7 minutes ago 497MB
85
86     3)Docker Image Push
87     $ docker push {{docker hub account}}/guestbook:v1
88
89
90 4. Docker Container로 방명록 웹어플리케이션 실행
91     $ docker container run \
92     --name=guestbookapp \
93     --rm \
94     --network=host \
95     -e MYSQL_IP=172.17.0.2 \
96     -e MYSQL_PORT=3306 \
97     -e MYSQL_DATABASE=guestbook \
98     -e MYSQL_USER=root \
99     -e MYSQL_PASSWORD=education \
100     {{docker hub account}}/guestbook:v1
101
102     . ____ _ _ _ _
103     /  _ \ / _ \ _ _ _ \ _ _ _ \ _ _ _ \
104     (  ) \ ( ) \ _ _ \ _ _ \ _ _ \ _ _ \
105     \  __/  __/  __/  __/  __/  __/  __/
106     '  |__|  __/  __/  __/  __/  __/  __/
107     =====|_|=====|_|=/ / / / /
108     :: Spring Boot ::                (v2.6.6)
109
110 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)
111 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"
112 2024-01-24 13:07:14.578 INFO 1 --- [           main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat
initialized with port(s): 80 (http)
113 2024-01-24 13:07:14.595 INFO 1 --- [           main] o.apache.catalina.core.StandardService : Starting service
[Tomcat]
114 2024-01-24 13:07:14.596 INFO 1 --- [           main] org.apache.catalina.core.StandardEngine : Starting Servlet
engine: [Apache Tomcat/9.0.60]

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115 2024-01-24 13:07:14.689 INFO 1 --- [      main] o.a.c.c.C.[Tomcat].[localhost].[/]       : Initializing Spring
    embedded WebApplicationContext
116 2024-01-24 13:07:14.690 INFO 1 --- [      main] w.s.c.ServletWebServerApplicationContext : Root
    WebApplicationContext: initialization completed in 1654 ms
117 2024-01-24 13:07:15.359 INFO 1 --- [      main] o.s.b.a.w.s.WelcomePageHandlerMapping    : Adding welcome
    page template: index
118 2024-01-24 13:07:15.494 INFO 1 --- [      main] com.zaxxer.hikari.HikariDataSource       : HikariPool-1 -
    Starting...
119 2024-01-24 13:07:15.670 INFO 1 --- [      main] com.zaxxer.hikari.HikariDataSource       : HikariPool-1 - Start
    completed.
120 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 ""
121 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)
122
123
124 5. EC2 Instance EIP로 웹 접속 후 방명록 샘플 웹어플리케이션 동작 확인 후 컨테이너 종료
125     http://EIP
126
127     $ Ctrl + C
128
129
130 6. MySQL Workbench에서 확인
131     -guestbook > post table 확인
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