第 3 节

PetClinic微服务镜像构建

本课内容

- 演示如何构建SC版PetClinic微服务的镜像
  - Review Dockerfile
  - 演示一键构建所有微服务镜像

docker-maven-plugin

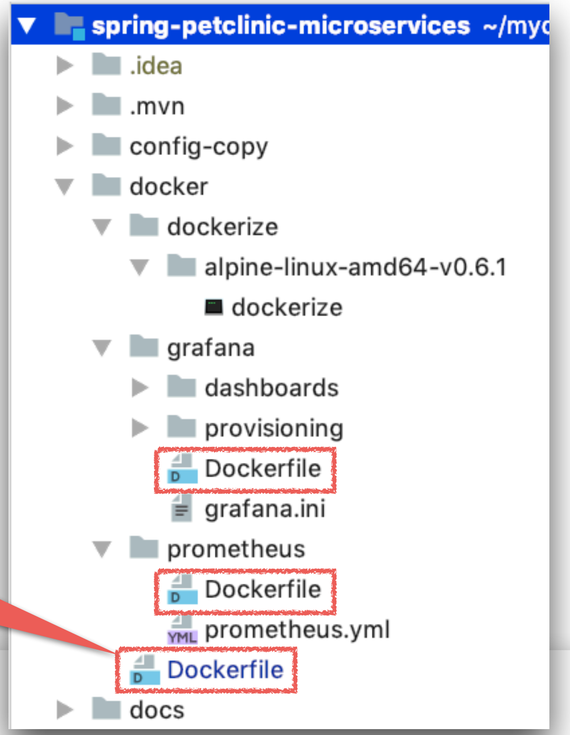
父Pom

```
<profile>
    <id>buildDocker</id>
    <build>
        <pluginManagement>
            <plugins>
                <plugin>
                    <groupId>com.spotify</groupId>
                    <artifactId>docker-maven-plugin</artifactId>
                    <version>${docker.plugin.version}</version>
                    <executions>
                        <execution>
                            <phase>install</phase>
                            <goals>
                                <goal>build</goal>
                            </goals>
                        </execution>
                    </executions>
                    <configuration>
                        <imageName>${docker.image.prefix}/${project.artifactId}</imageName>
                        <dockerDirectory>${docker.image.dockerfile.dir}</dockerDirectory>
                        <serverId>docker-hub</serverId>
                        <registryUrl>https://index.docker.io/v1/</registryUrl>
                        <resources>
                            <resource>
                                <targetPath>/</targetPath>
                                <directory>${project.build.directory}</directory>
                                <include>${project.build.finalName}.jar</include>
                            </resource>
                        </resources>
                        <buildArgs>
                            <ARTIFACT_NAME>${project.build.finalName}</ARTIFACT_NAME>
                            <EXPOSED_PORT>${docker.image.exposed.port}</EXPOSED_PORT>
                        </buildArgs>
                    </configuration>
                </plugin>
```

子项目Pom

```
<profiles>
    <profile>
        <id>buildDocker</id>
        <build>
            <plugins>
                <plugin>
                    <groupId>com.spotify</groupId>
                    <artifactId>docker-maven-plugin</artifactId>
                    <version>${docker.plugin.version}</version>
                </plugin>
            </plugins>
        </build>
    </profile>
</profiles>
```

Dockerfile



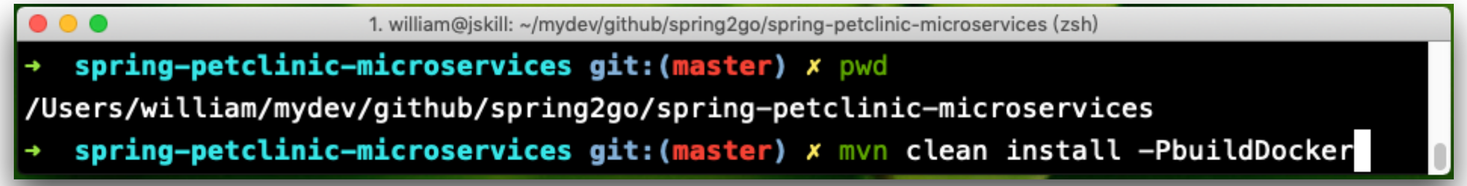
微服务项目公共Dockerfile

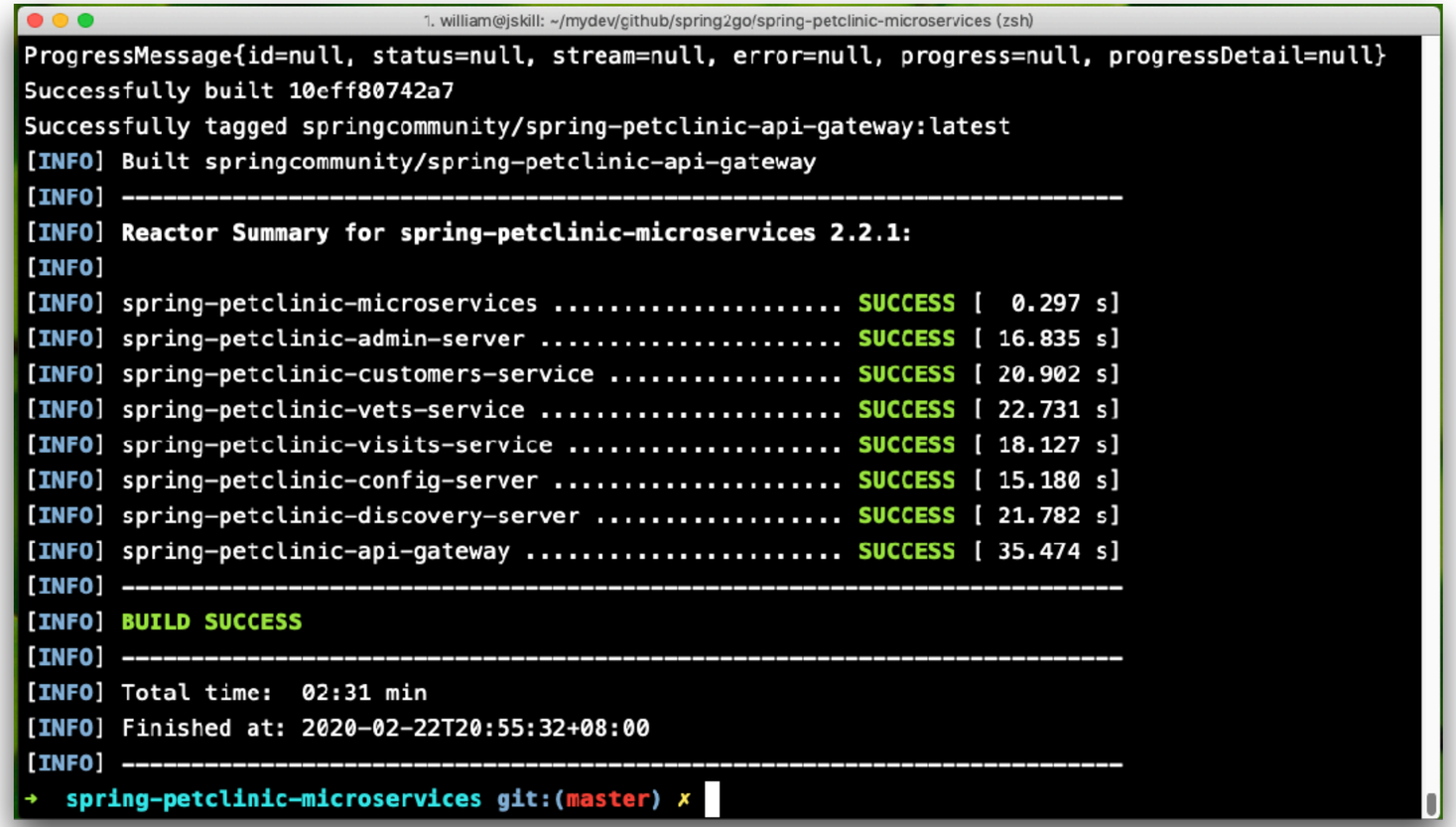
```
FROM openjdk:8-jre-alpine
VOLUME /tmp
ARG ARTIFACT_NAME
ARG EXPOSED_PORT
ENV SPRING_PROFILES_ACTIVE docker

ADD dockerize/alpine-linux-amd64-v0.6.1/dockerize dockerize
RUN chmod +x dockerize
ADD ${ARTIFACT_NAME}.jar /app.jar
RUN touch /app.jar
EXPOSE ${EXPOSED_PORT}
ENTRYPOINT ["java", "-XX:+UnlockExperimentalVMOptions", "-XX:+UseCGroupMemoryLimitForHeap", "-Djava.security.egd=file:/dev/
  ./urandom","-jar","/app.jar"]
```

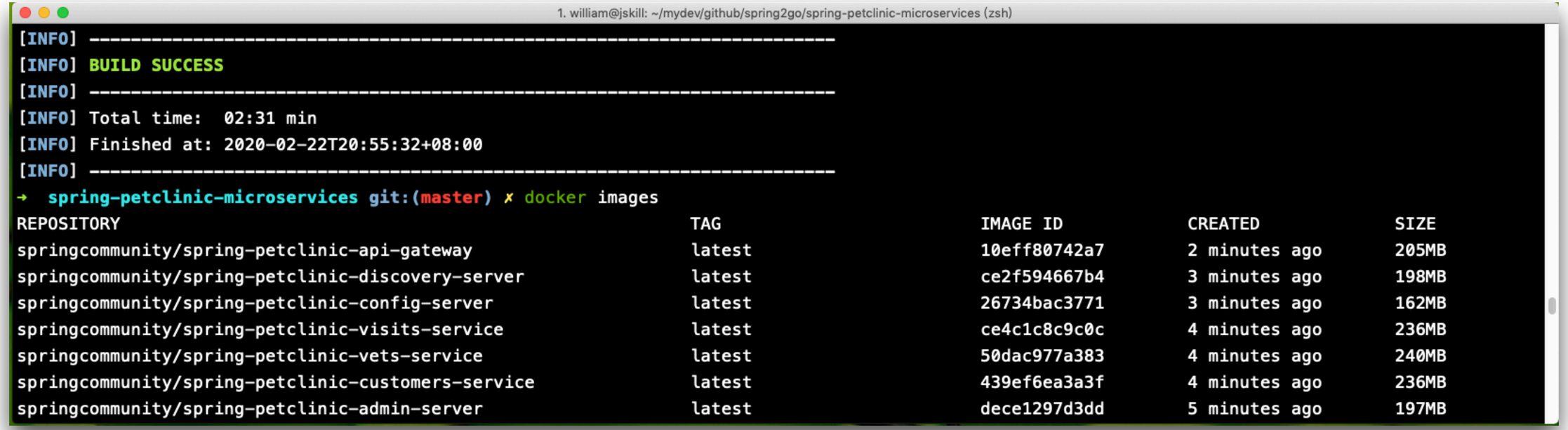
一键镜像构建

https://github.com/spring2go/spring-petclinic-microservices





镜像构建成功


1. william@jskill: ~/mydev/github/spring2go/spring-petclinic-microservices (zsh)
[INFO] --
[INFO] BUILD SUCCESS
[INFO] --
[INFO] Total time: 02:31 min
[INFO] Finished at: 2020-02-22T20:55:32+08:00
[INFO] --
→ spring-petclinic-microservices git:(master) ✗ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
springcommunity/spring-petclinic-api-gateway latest 10eff80742a7 2 minutes ago 205MB
springcommunity/spring-petclinic-discovery-server latest ce2f594667b4 3 minutes ago 198MB
springcommunity/spring-petclinic-config-server latest 26734bac3771 3 minutes ago 162MB
springcommunity/spring-petclinic-visits-service latest ce4c1c8c9c0c 4 minutes ago 236MB
springcommunity/spring-petclinic-vets-service latest 50dac977a383 4 minutes ago 240MB
springcommunity/spring-petclinic-customers-service latest 439ef6ea3a3f 4 minutes ago 236MB
springcommunity/spring-petclinic-admin-server latest dece1297d3dd 5 minutes ago 197MB

本课小结

- 演示如何构建SC版PetClinic微服务镜像，注意点：
  - docker-maven-plugin
  - UseCGroupMemoryLimitForHeap
  - 使用克隆版　https://github.com/spring2go/spring-petclinic-microservices
  - mvn clean install -PbuildDocker