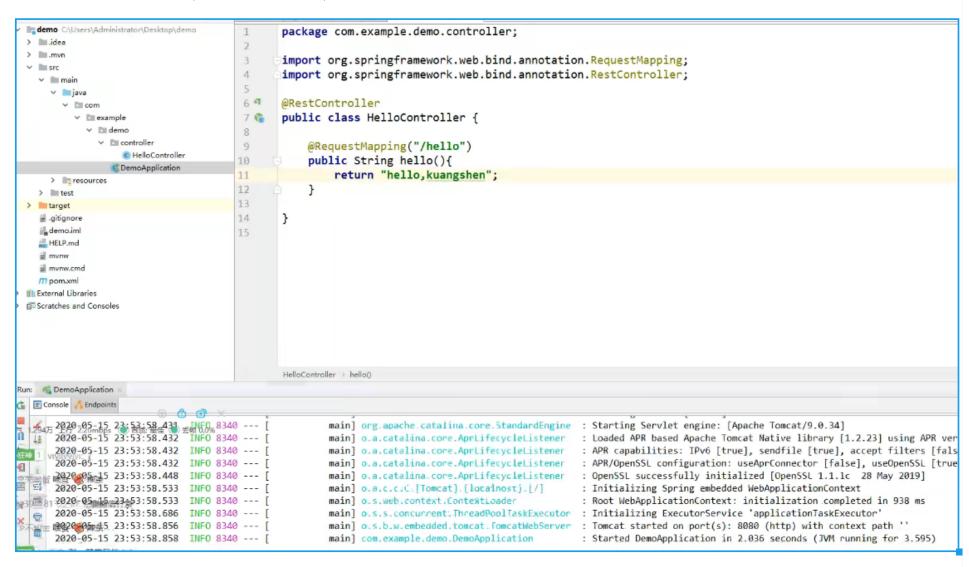
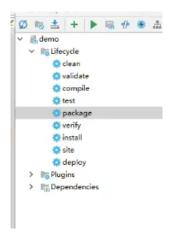
20、将springboot服务---->打包成jar---->构建成镜像--->运行镜像

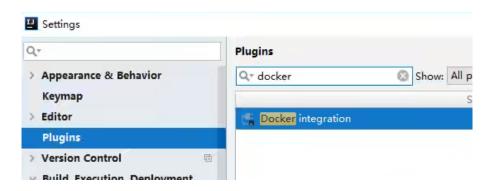
1、创建一个springboot的demo服务,编写一个helloworld程序,能正常访问即可







3、安装docker插件



4、编写好Dockerfile脚本文件,并将打好的jar和Dockerfile文件一块上传到linux的创建好的/home/idea目录下

```
demo C:\Users\Administrator\Desktop\demo
                                               FROM java:8
                                      1 >>
  > idea
  > mvn
                                                                 将和Deckerfile同目录的jar复制到linux的根目录下,起名叫app.jar
  > src
             将target中打好的jar拷贝出来和Dockerfile文件同目录。
                                               COPY *.jar /app.jar
             只是为了好一块上传到linux服务器
  > target
    gitignore ...
    demo.iml
                                               CMD ["--server.port=8080"]
    demo-0.0.1-SNAPSHOT.jar
    Dockerfile
                                       6
    HELP.md
                                               EXPOSE 8080
    mvnw
    mvnw.cmd
                                       8
    m pom.xml
                                               ENTRYPOINT ["java","-jar","/app.jar"]
                                       9
> ||||| External Libraries
> 🗊 Scratches and Consoles
```

5、通过docker命令执行Dockerfile文件,将jar包构建成docker镜像(kuangshen666)

```
[root@kuangshen idea]# docker build -t kuangshen666 .
Sending build context to Docker daemon 17.64MB
Step 1/5 : FROM java:8
8: Pulling from library/java
5040bd298390: Pull complete
fce5728aad85: Pull complete
76610ec20bf5: Pull complete
60170fec2151: Pull complete
e98f73de8f0d: Pull complete
11f7af24ed9c: Pull complete
49e2d6393f32: Pull complete
bb9cdec9c7f3: Pull complete
Digest: sha256:c1ff613e8ba25833d2e1940da0940c3824f03f802c449f3d1815a66b7f8c0e9d
Status: Downloaded newer image for java:8
 ---> d23bdf5b1b1b
Step 2/5 : COPY *.jar /app.jar
 ---> 45204313a0d8
Step 3/5 : CMD ["--server.port=8080"]
 ---> Running in b4427fd7fffd7
Removing intermediate container b4427fd7ffd7
 ---> dc70e3c8e0dc
Step 4/5 : EXPOSE 8080
 ---> Running in 466ca222eeb2
Removing intermediate container 466ca222eeb2
 ---> cd9692a255dd
Step 5/5 : ENTRYPOINT ["java", "-jar", "/app.jar"]
 ---> Running in 689ale241071
Removing intermediate container 689a1e241071
 ---> 7a60f84797b1
Successfully built 7a60f84797b1
Successfully tagged kuangshen666:latest
[root@kuangshen idea]#
```

- 6、通过镜像运行出容器,然后访问容器服务的hello接口
 - 给别人的是一个镜像,而不是jar包,别人要用的话直接运行镜像即可,即以后一般是将jar构建成镜像,发布到公有云镜像仓库中,供别人拉取,运行镜像即可 。

```
[root@kuangshen idea]# docker images
REPOSITORY
                   TAG
                                       IMAGE ID
                                                            CREATED
                                                                                SIZE
                                       7a60f84797b1
                                                                                661MB
kuangshen666
                   latest
                                                            5 seconds ago
                                                                                647MB
tomcat
                   latest
                                       d03312117bb0
                                                            2 days ago
redis
                   5.0.9-alpine3.11
                                       3661c84ee9d0
                                                            2 weeks ago
                                                                                29.8MB
java
                                       d23bdf5b1b1b
                                                         3 years ago
                                                                                643MB
[root@kuangshen idea]# docker run -d -P --name kuangshen-springboot-web kuangshen666
611c89108c6964271261e658aea2dbf2a9049f39657fcaaaabab14ea6356c5f2
[root@kuangshen idea]# docker ps
CONTAINER ID
                   IMAGE
                                       COMMAND
                                                                 CREATED
                                                                                     STATUS
                                                                                                         PORTS 1
      NAMES
611c89108c69
                   kuangshen666
                                        "java -jar /app.jar ..."
                                                                8 seconds ago
                                                                                     Up 7 seconds
                                                                                                         0.0.0.0:32779->8080
/tcp kuangshen-springboot-web
[root@kuangshen idea]# curl localhost:32779
{"timestamp":"2020-05-15T16:00:45.370+0000","status":404,"error":"Not Found","message":"No message available","path":"/"}[ro
ot@kuangshen idea]# curl localhost:32779/hello
hello,kuangshen root@kuangshen idea]#
```