Name : Anup Kore

Topic : Mini Spring Boot Project Containerisation

Date : 24-04-2023


```
C:\Windows\System32\cmd.exe
D:\Mini Project For Dep\mini>docker build -t mini-spring-boot.jar .
[+] Building 4.5s (7/7) FINISHED
 => [internal] load build definition from Dockerfile                                    0.1s
 => => transferring dockerfile: 179B                                                    0.0s
 => [internal] load .dockerignore                                                       0.1s
 => => transferring context: 2B                                                         0.0s
 => [internal] load metadata for docker.io/library/openjdk:17                           3.0s
 => [internal] load build context                                                       0.5s
 => => transferring context: 20.16MB                                                    0.5s
 => CACHED [1/2] FROM docker.io/library/openjdk:17@sha256:528707081fdb9562eb819128a9f85ae7fe000e2fbaeaf9f87662e7b3f38cb7d8  0.0s
 => [2/2] ADD target/mini-spring-boot.jar mini-spring-boot.jar                          0.5s
 => exporting to image                                                                  0.2s
 => => exporting layers                                                                 0.2s
 => => writing image sha256:047bd6a2d308c7c8c64eb3780580cc449d6f19b31b4b8000901200099363ad1f  0.0s
 => => naming to docker.io/library/mini-spring-boot.jar                                 0.0s

D:\Mini Project For Dep\mini>
D:\Mini Project For Dep\mini>docker images -ls
unknown shorthand flag: 'l' in -ls
See 'docker images --help'.

D:\Mini Project For Dep\mini>docker image

Usage:  docker image COMMAND

Manage images

Commands:
  build       Build an image from a Dockerfile
  history     Show the history of an image
  import      Import the contents from a tarball to create a filesystem image
  inspect     Display detailed information on one or more images
  load        Load an image from a tar archive or STDIN
  ls          List images
  prune       Remove unused images
  pull        Pull an image or a repository from a registry
  push        Push an image or a repository to a registry
  rm          Remove one or more images
  save        Save one or more images to a tar archive (streamed to STDOUT by default)
  tag         Create a tag TARGET_IMAGE that refers to SOURCE_IMAGE

Run 'docker image COMMAND --help' for more information on a command.

D:\Mini Project For Dep\mini>
```

```
C:\Windows\System32\cmd.exe - docker run -p 9090:8080 mini-spring-boot.jar
D:\Mini Project For Dep\mini>docker image ls
REPOSITORY                      TAG       IMAGE ID       CREATED           SIZE
mini-spring-boot.jar            latest    047bd6a2d308   51 seconds ago    492MB
project_for_deployment-server   latest    bc1bd61946ca   About an hour ago 515MB
spring-boot-docker.jar          latest    e525a5fcd8fc   3 hours ago       515MB
mysql                           8.0.33    8189e588b0e8   5 days ago        564MB
openjdk                         latest    71260f256d19   2 months ago      470MB
hello-world                     latest    feb5d9fea6a5   19 months ago     13.3kB

D:\Mini Project For Dep\mini>
D:\Mini Project For Dep\mini>docker run -p 9090:8080 mini-spring-boot.jar


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  '  |____| .__|_| |_|_| |_\__, | / / / /
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 :: Spring Boot ::                (v3.0.6)

2023-04-23T09:57:02.067Z  INFO 1 --- [           main] com.example.demo.MiniApplication          : Starting MiniApplication v0.0.1-SNAPSHOT using Java 17.0.2 with PID 1
(/mini-spring-boot.jar started by root in /)
2023-04-23T09:57:02.076Z  INFO 1 --- [           main] com.example.demo.MiniApplication          : No active profile set, falling back to 1 default profile: "default"
2023-04-23T09:57:04.425Z  INFO 1 --- [           main] o.s.b.w.embedded.tomcat.TomcatWebServer   : Tomcat initialized with port(s): 8080 (http)
2023-04-23T09:57:04.446Z  INFO 1 --- [           main] o.apache.catalina.core.StandardService    : Starting service [Tomcat]
2023-04-23T09:57:04.447Z  INFO 1 --- [           main] o.apache.catalina.core.StandardEngine     : Starting Servlet engine: [Apache Tomcat/10.1.8]
2023-04-23T09:57:04.584Z  INFO 1 --- [           main] o.a.c.c.C.[Tomcat].[localhost].[/]        : Initializing Spring embedded WebApplicationContext
2023-04-23T09:57:04.589Z  INFO 1 --- [           main] w.s.c.ServletWebServerApplicationContext  : Root WebApplicationContext: initialization completed in 2285 ms
2023-04-23T09:57:05.296Z  WARN 1 --- [           main] ion$DefaultTemplateResolverConfiguration  : Cannot find template location: classpath:/templates/ (please add some
templates, check your Thymeleaf configuration, or set spring.thymeleaf.check-template-location=false)
2023-04-23T09:57:05.411Z  INFO 1 --- [           main] o.s.b.w.embedded.tomcat.TomcatWebServer   : Tomcat started on port(s): 8080 (http) with context path ''
2023-04-23T09:57:05.442Z  INFO 1 --- [           main] com.example.demo.MiniApplication          : Started MiniApplication in 4.464 seconds (process running for 6.21)
```

Docker Desktop screenshot

Docker Desktop   Upgrade plan

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An image is a read-only template with instructions for creating a Docker container. Learn more

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1.61 GB / 469.94 MB in use   6 images

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	Name	Tag	Status	Created	Size		Actions
	mini-spring-boot.jar 047bd6a2d308	latest	In use	2 minutes ago	491.62 MB	▶ ⋮	🗑
	project_for_deployment-server bc1bd61946ca	latest	In use	about 1 hour ago	515.2 MB	▶ ⋮	🗑
	spring-boot-docker.jar e525a5fcd8fc	latest	In use	about 3 hours ago	515.2 MB	▶ ⋮	🗑
	mysql 8189e588b0e8	8.0.33	In use	5 days ago	564.34 MB	▶ ⋮	🗑
	openjdk 71260f256d19	latest	In use	2 months ago	469.93 MB	▶ ⋮	🗑
	hello-world						

Showing 6 items

RAM 5.28 GB   CPU 1.75%   Not connected to Hub   v4.18.0

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Browser screenshot

localhost:9090

localhost:9090

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