

File Edit Selection View Go Run Terminal Help emp\_controller - demo - Visual Studio Code

EXPLORER J emp\_controller X J emp\_model J emp\_repo

DEMO > .vscode > src > main > java > Controller > J emp\_controller

```
1  @RestController
2  public class EmployeeController {
3      @Autowired
4      private EmployeeRepository employeeRepository;
5
6      @GetMapping("/employees")
7      public List<Employee> getEmployees() {
8          return employeeRepository.findAll();
9      }
10
11     @GetMapping("/employees/{id}")
12     public ResponseEntity<Employee> getEmployeeById(@PathVariable(value = "id") Long employeeId)
13         throws ResourceNotFoundException {
14         Employee employee = employeeRepository.findById(employeeId)
15             .orElseThrow(() -> new ResourceNotFoundException("Employee not found for this id :: " + employeeId));
16         return ResponseEntity.ok().body(employee);
17     }
18
19     @PostMapping("/employees")
20     public Employee createEmployee(@Valid @RequestBody Employee employee) {
21         return employeeRepository.save(employee);
22     }
23
24     @PutMapping("/employees/{id}")
25     public ResponseEntity<Employee> updateEmployee(@PathVariable(value = "id") Long employeeId,
26                                                 @Valid @RequestBody Employee employeeDetails) throws ResourceNotFoundException {
27         Employee employee = employeeRepository.findById(employeeId)
28             .orElseThrow(() -> new ResourceNotFoundException("Employee not found for this id :: " + employeeId));
29
30         employee.setName(employeeDetails.getName());
31         final Employee updatedEmployee = employeeRepository.save(employee);
32         return ResponseEntity.ok(updatedEmployee);
33     }
34 }
```

DEBUG CONSOLE Filter (e.g. text, !exclude)

>

OUTLINE

TIMELINE

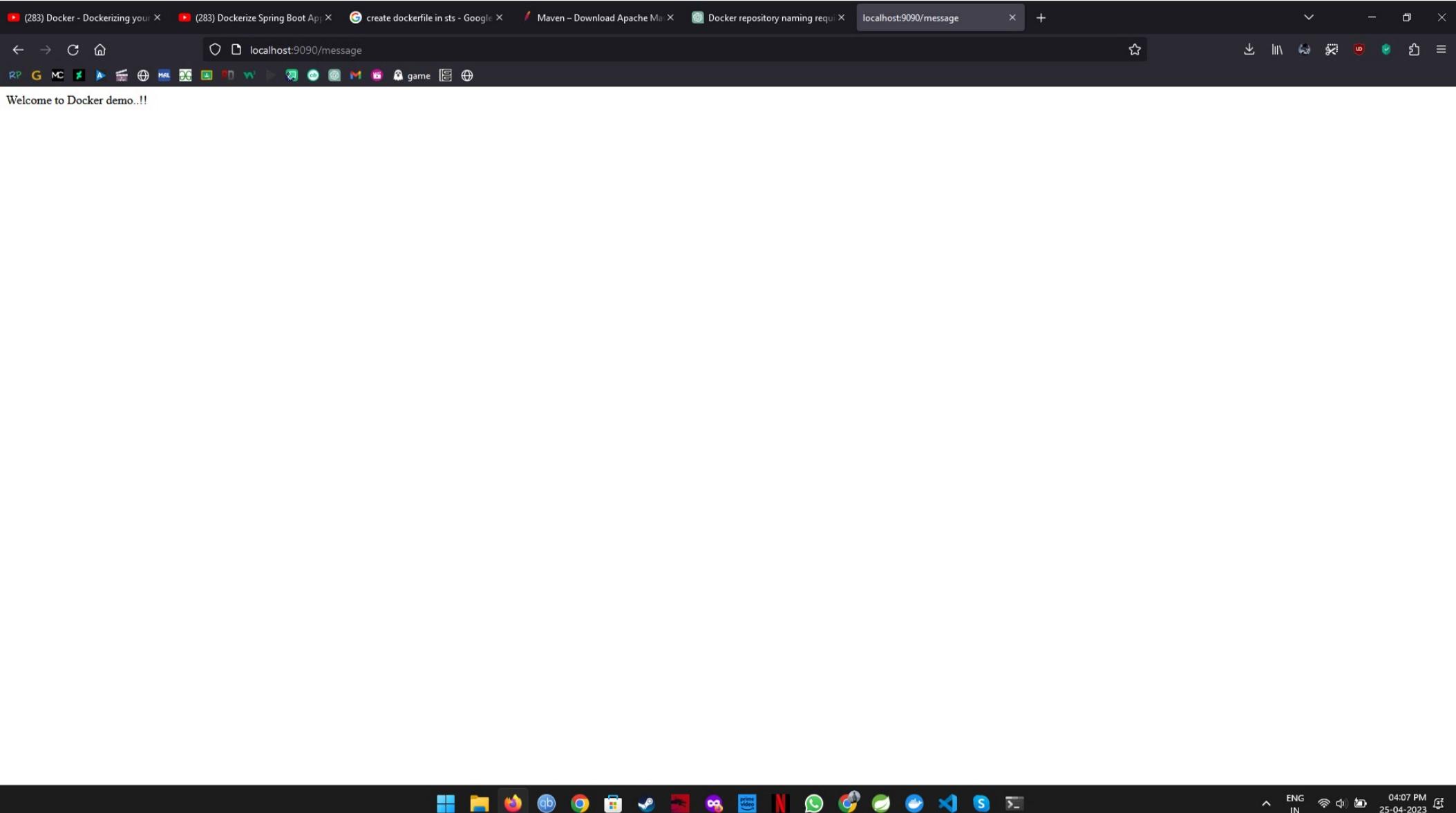
JAVA PROJECTS

MAVEN

x 0 ▲ 0 Ln 47, Col 1 Spaces: 4 UTF-8 CRLF {} Java ⚡ Go Live ⚡

Windows File Explorer Firefox Chrome Edge Microsoft Store Netflix Prime Video WhatsApp Google Chrome S Microsoft Edge

ENG IN 04:20 PM 25-04-2023



```
C:\Windows\System32\cmd.e X + v

D:\Infobell IT\docker_project\demo>docker build -t dockerpro1 .

[+] Building 4.5s (7/7) FINISHED
=> [internal] load build definition from Dockerfile          0.1s
=> => transferring dockerfile: 181B                         0.0s
=> [internal] load .dockerignore                            0.1s
=> => transferring context: 2B                            0.0s
=> [internal] load metadata for docker.io/library/openjdk:8 2.5s
=> [internal] load build context                          0.9s
=> => transferring context: 17.69MB                      0.9s
=> CACHED [1/2] FROM docker.io/library/openjdk:8@sha256:86e863cc57215cfb181bd319736d0bafe8f150577f9eb58bd937f5452cb8 0.0s
=> [2/2] ADD target/demo-0.0.1-SNAPSHOT.jar demo-0.0.1-SNAPSHOT.jar 0.2s
=> exporting to image                                     0.4s
=> => exporting layers                                    0.4s
=> => writing image sha256:19846de765b02fa2607a4687049c8fd329a961828bce687bd9b9948120d04555 0.0s
=> => naming to docker.io/library/dockerpro1             0.0s

D:\Infobell IT\docker_project\demo>docker run -p 9090:8080 dockerpro1

```
  _/ \
 / \ / ---' - -- - - ( ) - -- - - \ \ \ \
( ( ) \ \_ | ' | ' | ' | ' \ ' | \ \ \ \
\ \ / __ ) | ( ) | | | | | ( ) | ) ) ) )
 ' | _--| | .--| | | \_, | / / /
=====-| |=====-| |=====-| |=====-| |=====-| |
:: Spring Boot ::           (v2.7.11)
```

2023-04-25 10:35:53.418 INFO 1 --- [           main] com.docker.pro.demo.DemoApplication : Starting DemoApplication v0.0.1-SNAPSHOT using Java 1.8.0_342 on c52823e78e2d with PID 1 (/demo-0.0.1-SNAPSHOT.j
ar started by root in /)
2023-04-25 10:35:53.424 INFO 1 --- [           main] com.docker.pro.demo.DemoApplication : No active profile set, falling back to 1 default profile: "default"
2023-04-25 10:35:56.432 INFO 1 --- [           main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8080 (http)
2023-04-25 10:35:56.476 INFO 1 --- [           main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2023-04-25 10:35:56.479 INFO 1 --- [           main] org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.74]
2023-04-25 10:35:56.822 INFO 1 --- [           main] o.a.c.c.C.[Tomcat].[localhost].[] : Initializing Spring embedded WebApplicationContext
2023-04-25 10:35:56.825 INFO 1 --- [           main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 3252 ms
2023-04-25 10:35:58.263 INFO 1 --- [           main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080 (http) with context path ''
2023-04-25 10:35:58.295 INFO 1 --- [           main] com.docker.pro.demo.DemoApplication : Started DemoApplication in 5.804 seconds (JVM running for 7.252)
```



ENG IN 04:06 PM  
25-04-2023

Docker Desktop Upgrade plan

Search for local and remote images, containers, and more... Ctrl+K

Containers Images Volumes Dev Environments BETA Learning Center Extensions Add Extensions

Images Give feedback

An image is a read-only template with instructions for creating a Docker container. [Learn more](#)

Local Hub Artifactory EARLY ACCESS

1.27 GB / 710.79 MB in use 5 images Last refresh: about 2 hours ago

Search

Name	Tag	Status	Created	Size	Actions
dockerpro1 19846de765b0	latest	In use	less than a minute ago	543.73 MB	▶ ⋮ 🗑
dockernew be017b260872	latest	In use	7 minutes ago	543.73 MB	▶ ⋮ 🗑
mysql dd6675b5cfea	5.7	In use	7 days ago	568.62 MB	▶ ⋮ 🗑
nginx 6efc10a0510f	latest	In use	13 days ago	142.15 MB	▶ ⋮ 🗑
hello-world feb5d9fea6a5	latest	In use	over 1 year ago	13.25 KB	▶ ⋮ 🗑

Showing 5 items

RAM 4.28 GB CPU 0.07% Not connected to Hub v4.18.0

Windows File Explorer Firefox DB Chrome Prime Video Netflix WhatsApp Google Chrome Microsoft Edge VS Code S

ENG IN 04:06 PM 25-04-2023

A screenshot of the Visual Studio Code interface. The top bar shows the menu: File, Edit, Selection, View, Go, Run, Terminal, Help. The title bar indicates the current file is "Dockerfile - demo - Visual Studio Code". The left sidebar has icons for Explorer, Search, Open, Maven, Java Projects, and Maven. The Explorer view shows a project structure under "DEMO": ".mvn", ".vscode", "src" (with "main" and "test" subfolders), "target" (with "classes", "generated-sources", "generated-test-sources", "maven-archiver", "maven-status", "surefire-reports", "test-classes", "demo-0.0.1-SNAPSHOT.jar", and "demo-0.0.1-SNAPSHOT.jar.original"), ".gitignore", "Dockerfile", "HELP.md", "mvnw", "mvnw.cmd", and "pom.xml". Below this, sections for "DEBUG CONSOLE", "OUTLINE", "TIMELINE", "JAVA PROJECTS", and "MAVEN" are listed. The main editor area displays a Dockerfile with the following content:

```
FROM openjdk:8
EXPOSE 8080
ADD target/demo-0.0.1-SNAPSHOT.jar demo-0.0.1-SNAPSHOT.jar
ENTRYPOINT ["java","-jar","/demo-0.0.1-SNAPSHOT.jar"]
```

The status bar at the bottom shows: Ln 4, Col 54, Spaces: 4, UTF-8, CRLF, Dockerfile, Go Live, and system icons for battery, signal, and date/time (03:21 PM, 25-04-2023).

The screenshot shows a Visual Studio Code interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** DemoController.java - demo - Visual Studio Code.
- Explorer:** Shows the project structure under 'DEMO'. The 'src/main/java/com/docker/pro/demo' folder contains 'DemoApplication.java' and 'DemoController.java'. Other files like '.mvn', '.vscode', 'pom.xml', and 'mvnw' are also listed.
- Code Editor:** Displays the content of 'DemoController.java'. The code defines a REST controller with a single endpoint mapping to '/message' which returns "Welcome to Docker demo...!".
- Terminal:** Shows the Maven build output:

```
155 kB at 3.5 MB/s
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0.15/plexus-utils-3.0.15.jar (239 kB at 4.2 MB/s)
[INFO] Installing D:\Infobell IT\docker_project\demo\target\demo-0.0.1-SNAPSHOT.jar to C:\Users\Sumukh G\.m2\repository\com\docker\pro\demo\0.0.1-SNAPSHOT\demo-0.0.1-SNAPSHOT.jar
[INFO] Installing D:\Infobell IT\docker_project\demo\pom.xml to C:\Users\Sumukh G\.m2\repository\com\docker\pro\demo\0.0.1-SNAPSHOT\demo-0.0.1-SNAPSHOT.pom
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time:  32.400 s
[INFO] Finished at: 2023-04-25T15:11:42+05:30
[INFO] -----
```
- Status Bar:** Shows file counts (0), encoding (ENG IN), battery level (50%), signal strength, and the date/time (25-04-2023 03:11 PM).

The screenshot shows a Visual Studio Code interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** DemoController.java - demo - Visual Studio Code.
- Explorer View (Left):**
  - DEMO folder containing .mvn, .vscode, src, main, resources, test, target, .gitignore, HELP.md, mvnw, mvnw.cmd, pom.xml.
  - DEBUG CONSOLE, OUTLINE, TIMELINE, JAVA PROJECTS, MAVEN sections.
- Editor View (Center):** DemoController.java (selected).

```
1 package com.docker.pro.demo;
2
3 import org.springframework.web.bind.annotation.GetMapping;
4 import org.springframework.web.bind.annotation.RestController;
5
6 @RestController
7 public class DemoController {
8
9     @GetMapping("/message")
10    public String Message() {
11        return "Welcome to Docker demo...!!";
12    }
13 }
14
```
- Terminal View (Bottom):** Shows Maven build output.

```
PS D:\Infobell IT\docker_project\demo> mvn clean install
[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.docker.pro:demo >-----
[INFO] Building demo 0.0.1-SNAPSHOT
[INFO]   from pom.xml
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- clean:3.2.0:clean (default-clean) @ demo ---
[INFO] Deleting D:\Infobell IT\docker_project\demo\target
[INFO]
[INFO] --- resources:3.2.0:resources (default-resources) @ demo ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Using 'UTF-8' encoding to copy filtered properties files.
[INFO] Copying 1 resource
[INFO] Copying 0 resource
```
- Status Bar (Bottom):** Ln 14, Col 1, Spaces: 4, UTF-8, CRLF, {} Java, Go Live, system icons (ENG IN, 03:11 PM, 25-04-2023).

File Edit Selection View Go Run Terminal Help DemoController.java - demo - Visual Studio Code

EXPLORER ... J DemoController.java X J DemoApplication.java

src > main > java > com > docker > pro > demo > J DemoController.java > ...

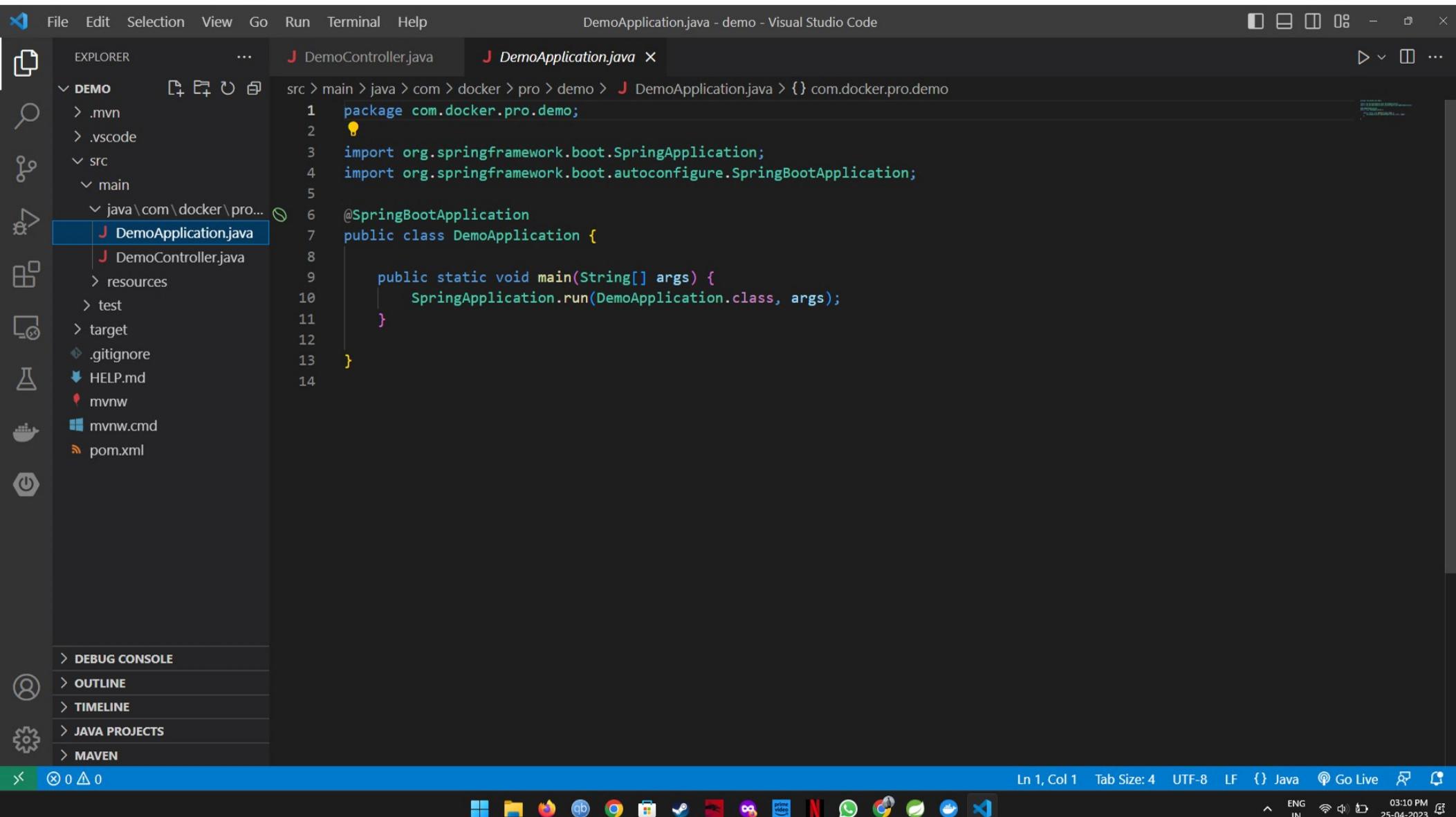
```
1 package com.docker.pro.demo;
2
3 import org.springframework.web.bind.annotation.GetMapping;
4 import org.springframework.web.bind.annotation.RestController;
5
6 @RestController
7 public class DemoController {
8
9     @GetMapping("/message")
10    public String Message() {
11        return "Welcome to Docker demo...!!";
12    }
13
14 }
```

DEMO .mvn .vscode src main java\com\docker\pro... DemoApplication.java DemoController.java resources test target .gitignore HELP.md mvnw mvnw.cmd pom.xml

DEBUG CONSOLE OUTLINE TIMELINE JAVA PROJECTS MAVEN

Ln 14, Col 1 Spaces: 4 UTF-8 CRLF {} Java Go Live

0 0 0 0 ENG IN 03:10 PM 25-04-2023



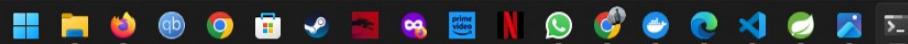
```
C:\Windows\System32\cmd.e X + ▾

D:\Infobell IT\Docker_final_pro\demo>docker run --network springboot-mysql-project --name springboot-container -p 8080:8080 -d springbootmysql
04447289a1752bcb5760f807266d31545a7cbd0d849c674b1fc537c060391389

D:\Infobell IT\Docker_final_pro\demo>docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
c8dc41435557 mysql:8.0.30 "docker-entrypoint.s..." 46 minutes ago Up 46 minutes 3306/tcp, 33060/tcp myqlbd
c52823e78e2d dockerpro1 "java -jar /demo-0.0..." About an hour ago Up About an hour 0.0.0.0:9090->8080/tcp vibrant_joliot

D:\Infobell IT\Docker_final_pro\demo>docker start springboot-container
springboot-container

D:\Infobell IT\Docker_final_pro\demo>
```



```
C:\Windows\System32\cmd.e X + ▾
```

```
D:\Infobell IT\Docker_final_pro\demo>docker run --network springboot-mysql-project --name springboot-container -p 8080:8080 -d springbootmysql  
2d4212748125a762a639b26440e4c170d8d5eda40e3d8899749b02886afe0c3f
```

```
D:\Infobell IT\Docker_final_pro\demo>docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
c8dc41435557	mysql:8.0.30	"docker-entrypoint.s..."	37 minutes ago	Up 37 minutes	3306/tcp, 33060/tcp	mysqldb
c52823e78e2d	dockerpro1	"java -jar /demo-0.0..."	About an hour ago	Up About an hour	0.0.0.0:9090->8080/tcp	vibrant_joliot

```
D:\Infobell IT\Docker_final_pro\demo>docker start springbootmysql
```

```
Error response from daemon: No such container: springbootmysql
```

```
Error: failed to start containers: springbootmysql
```

```
D:\Infobell IT\Docker_final_pro\demo>docker start springboot-container
```

```
springboot-container
```

```
D:\Infobell IT\Docker_final_pro\demo>docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
c8dc41435557	mysql:8.0.30	"docker-entrypoint.s..."	40 minutes ago	Up 40 minutes	3306/tcp, 33060/tcp	mysqldb
c52823e78e2d	dockerpro1	"java -jar /demo-0.0..."	About an hour ago	Up About an hour	0.0.0.0:9090->8080/tcp	vibrant_joliot

```
D:\Infobell IT\Docker_final_pro\demo>
```



```
^ ENG IN 05:14 PM  
25-04-2023
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
springbootmysql	latest	a62264878d0	6 seconds ago	123M
dockerpro1	latest	19846de765b0	59 minutes ago	544M
dockernew	latest	be017b260872	About an hour ago	544M
nginx	latest	6efc10a0510f	13 days ago	142M
mysql	8.0.30	dbaea59d1b41	6 months ago	449M
hello-world	latest	feb5d9fe6a5	19 months ago	13.5M

D:\Infobell\_IT\ Docker\_final\_pro\demo>



ENG  
IN

The screenshot shows a Visual Studio Code interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** Dockerfile - demo - Visual Studio Code.
- Sidebar (Left):**
  - EXPLORER
  - DEMO
    - > test
    - > target
    - > classes
    - > com
    - > Controller
    - > Model
    - > Repository
    - > application.property...
    - > generated-sources
    - > generated-test-sour...
    - > maven-archiver
    - > maven-status
    - > surefire-reports
    - > test-classes
    - demo-0.0.1-SNAPS...
    - demo-0.0.1-SNAPS...
  - > .gitignore
  - Dockerfile
  - HELP.md
  - mvnw
  - mvnw.cmd
  - pom.xml
- Terminal:** PS D:\Infobell IT\ Docker\_final\_pro\demo> [empty]
- Status Bar:** Ln 5, Col 31 | Spaces: 4 | UTF-8 | CRLF | Dockerfile | Go Live | ENG IN | 04:58 PM | 25-04-2023

File Edit Selection View Go Run Terminal Help

demo-0.0.1-SNAPSHOT.jar - demo - Visual Studio Code

EXPLORER

... emp\_repo application.properties

target > demo-0.0.1-SNAPSHOT.jar

DEMO

- > .mvn
- > .vscode
- > src
- target
  - classes
    - > com
    - > Controller
    - > Model
    - > Repository
  - < application.properties
  - > generated-sources
  - > generated-test-sources
  - > maven-archiver
  - > maven-status
  - > surefire-reports
  - > test-classes

demo-0.0.1-SNAPSHOT.jar

- < demo-0.0.1-SNAPSHOT.jar.original
- ↳ .gitignore
- ↳ HELP.md
- ↳ mvnw
- ↳ mvnw.cmd
- ↳ pom.xml

DEBUG CONSOLE

OUTLINE

TIMELINE

JAVA PROJECTS

MAVEN

PROBLEMS OUTPUT TERMINAL

PS D:\Infobell IT\ Docker\_final\_pro\demo>

16.87MB Go Live

ENG IN 04:54 PM 25-04-2023

The file is not displayed in the text editor because it is either binary or uses an unsupported text encoding.

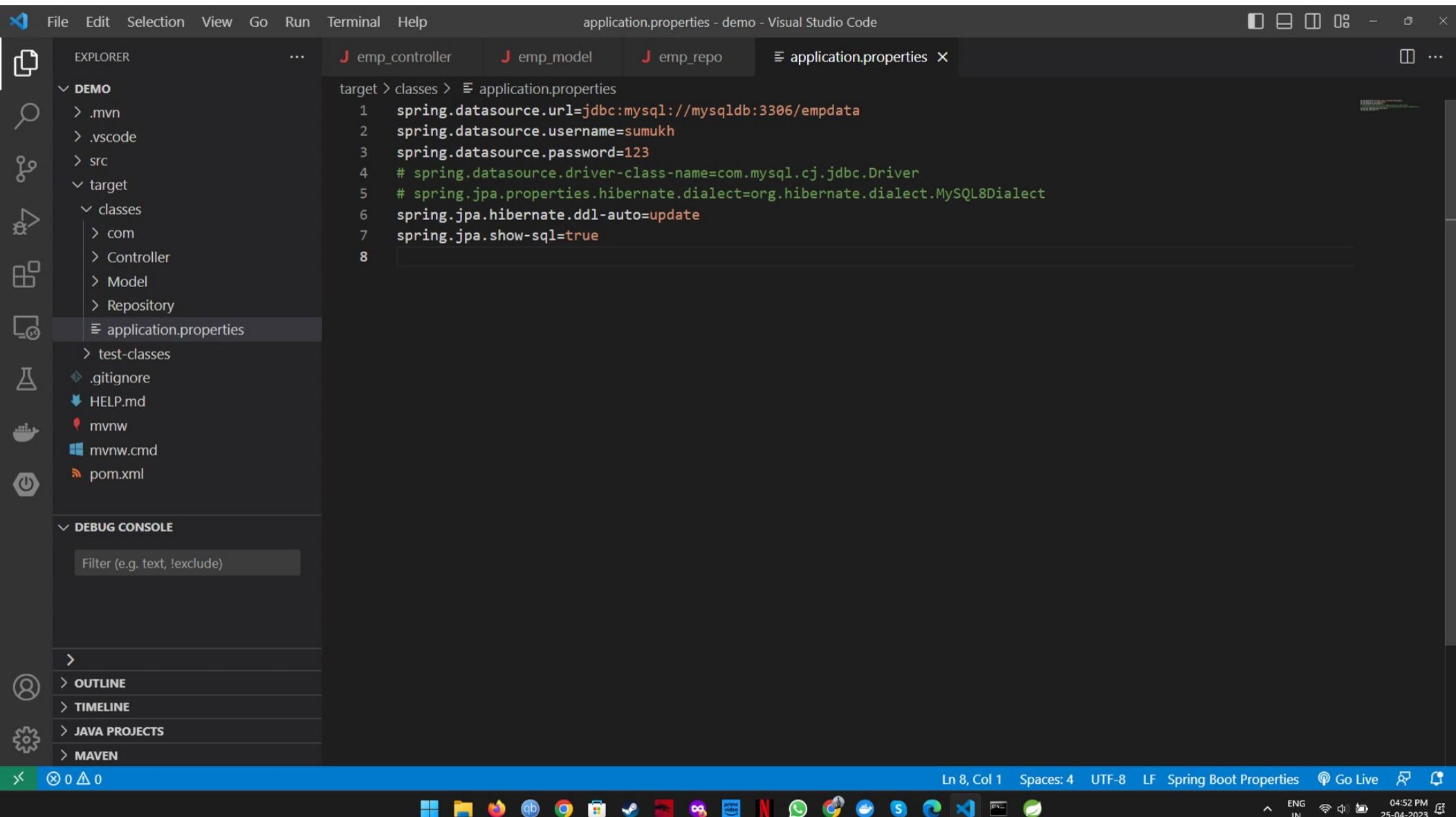
Open Anyway

powershell

Maven-demo

The screenshot shows a Visual Studio Code interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help
- Title Bar:** application.properties - demo - Visual Studio Code
- Left Sidebar (Explorer):**
  - DEMO**:
    - > com
    - > Controller
    - > Model
    - > Repository
    - application.properties**
    - > generated-sources
    - > generated-test-sources
    - > maven-archiver
    - > maven-status
    - > surefire-reports
    - > test-classes
    - demo-0.0.1-SNAPSHOT.jar**
  - DEBUG CONSOLE**
  - OUTLINE**
  - TIMELINE**
  - JAVA PROJECTS**
  - MAVEN**:
    - compile
    - test
    - test-compile
    - package
    - verify
    - install
    - site
    - deploy
    - > Plugins
    - > Dependencies
    - > Favorites
  - Profile**
- Editor Area:** Shows the content of the application.properties file with two lines of code.
- Terminal:** Shows the output of a Maven build command, indicating success.
- Bottom Status Bar:** Includes file status (0 changes), encoding (UTF-8), line count (Ln 2, Col 1), character count (Spaces: 4), and other developer tools like Go Live.
- Taskbar:** Shows various system icons including browser, file explorer, and media controls.
- System Tray:** Shows language (ENG IN), battery level, signal strength, and date/time (04:54 PM, 25-04-2023).



Docker Desktop Upgrade plan

Search for local and remote images, containers, and more... Ctrl+K

Containers Images Volumes Dev Environments BETA Learning Center Extensions Add Extensions

Images Give feedback

An image is a read-only template with instructions for creating a Docker container. [Learn more](#)

Local Hub Artifactory EARLY ACCESS

1.15 GB / 710.79 MB in use 5 images Last refresh: about 3 hours ago

Search

Name	Tag	Status	Created	Size	Actions
dockerpro1 19846de765b0	latest	In use	26 minutes ago	543.73 MB	...
dockernew be017b260872	latest	In use	33 minutes ago	543.73 MB	...
nginx 6efc10a0510f	latest	In use	13 days ago	142.15 MB	...
mysql dbaea59d1b41	8.0.30	In use	7 months ago	449 MB	...
hello-world feb5d9fea6a5	latest	In use	over 1 year ago	13.25 KB	...

Showing 5 items

RAM 4.74 GB CPU 0.14% Not connected to Hub v4.18.0

Windows File Explorer Firefox DB Chrome WhatsApp Prime Video Netflix Microsoft Edge S Microsoft Word Microsoft Excel Microsoft Powerpoint ENG IN 04:44 PM 25-04-2023

Docker Desktop Upgrade plan

Search for local and remote images, containers, and more... Ctrl+K

Containers Give feedback

A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to another. [Learn more](#)

Containers Images Volumes Dev Environments BETA Learning Center

Extensions Add Extensions

Containers

Name	Image	Status	Port(s)	Last started	Actions
magical_roentgen e4a30a4c33c0	nginx	Exited	8080:80	4 days ago	...
intelligent_goldwasser 53a3395f9c01	hello-world	Exited		4 days ago	...
nervous_kalam dbbf3d0d3153	hello-world	Exited		4 days ago	...
relaxed_darwin 878df05b5b4c	dockernew	Exited (127)	9090:8080	43 minutes ago	...
keen_boyd cd762d7307ba	dockernew	Exited (127)	9090:8080	41 minutes ago	...
jolly_ardinghelli 9586778b1e5c	dockernew	Exited (127)	9090:8080	40 minutes ago	...
vibrant_joliot c52823e78e2d	dockerpro1	Running	9090:8080	39 minutes ago	...
mysqldb c8dc1435557	mysql:8.0.30	Running		13 minutes ago	...

Showing 8 items

RAM 4.74 GB Not connected to Hub v4.18.0

Windows Taskbar icons: File Explorer, Edge, Firefox, FileZilla, Google Chrome, Microsoft Edge, FileZilla, Netflix, WhatsApp, Google Photos, Prime Video, Microsoft Store, Task View, Task Manager, Visual Studio Code, File Explorer, Task View.

System tray: ENG IN, 04:44 PM, 25-04-2023.

```
Administrator: Command Prompt - docker exec -it c8dc41435557 bash

C:\Windows\System32>docker network ls
NETWORK ID      NAME      DRIVER      SCOPE
209e0d65e168    bridge    bridge      local
edce293efabf    host      host       local
939c3f066693    none      null       local
45c424fee402    springboot-mysql-net   bridge      local
ed7168aa957e    springboot-mysql-project   bridge      local

C:\Windows\System32>
C:\Windows\System32>docker run --name mysqlDb --network springboot-mysql-project -e MYSQL_ROOT_PASSWORD=emp123 -e MYSQL_DATABASE=empdata -e MYSQL_USER=sumukh -e MYSQL_PASSWORD=123 -d mysql:8.0.30
c8dc41435557e55b23b1ae3bd07a012173f593f13ad53dc61503a2217702327a

C:\Windows\System32>docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS              PORTS               NAMES
c8dc41435557        mysql:8.0.30      "docker-entrypoint.s..."  14 seconds ago    Up 11 seconds     3306/tcp, 33060/tcp   mysqlDb
c52823e78e2d        dockerpro1        "java -jar /demo-0.0..."  26 minutes ago   Up 26 minutes    0.0.0.0:9090->8080/tcp   vibrant_joliot

C:\Windows\System32>docker exec -it c8dc41435557 bash
bash-4.4# mysql -u sumukh -p123
mysql: [Warning] Using a password on the command line interface can be insecure.
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 8
Server version: 8.0.30 MySQL Community Server - GPL

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+-----+
| Database |
+-----+
| empdata  |
| information_schema |
| performance_schema |
+-----+
3 rows in set (0.03 sec)

mysql> use empdata;
Database changed
mysql> 
```



ENG IN 04:39 PM 25-04-2023

```
C:\ Select Administrator: Command Prompt  
Microsoft Windows [Version 10.0.22621.1555]  
(c) Microsoft Corporation. All rights reserved.
```

```
C:\Windows\System32>docker pull mysql:8.0.30  
8.0.30: Pulling from library/mysql  
295ca2342728: Pull complete  
79af4312a7e0: Pull complete  
48d3d73d1704: Pull complete  
521b8724b397: Pull complete  
b8cf360b4a14: Pull complete  
0115482cc006: Pull complete  
a360b08917ea: Pull complete  
12deeb3c1323: Pull complete  
ee1dc10db1e9: Pull complete  
64be484ad29c: Pull complete  
1921fe8879a2: Pull complete  
Digest: sha256:3c1aab708f6e57fc4dccafe36baccc7219acfb4ec450f3fb6d370ea89409e906  
Status: Downloaded newer image for mysql:8.0.30  
docker.io/library/mysql:8.0.30
```

```
C:\Windows\System32>docker network create springboot-mysql-net  
Error response from daemon: network with name springboot-mysql-net already exists
```

```
C:\Windows\System32>docker network create springboot-mysql-project  
ed7168aa957e6b85b8f769c77bce66ff602fa107a0f1696f3ad8adb4358181af
```

```
C:\Windows\System32>docker images ls  
REPOSITORY      TAG      IMAGE ID      CREATED      SIZE
```

```
C:\Windows\System32>docker network ls  
NETWORK ID      NAME      DRIVER      SCOPE  
209e0d65e168    bridge    bridge      local  
edce293efabf    host      host       local  
939c3f066693    none      null       local  
45c424fee402    springboot-mysql-net    bridge      local  
ed7168aa957e    springboot-mysql-project    bridge      local
```

```
C:\Windows\System32>
```



The screenshot shows the Visual Studio Code (VS Code) interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Title Bar:** emp\_repo - demo - Visual Studio Code.
- Sidebar:** Explorer, Search, Problems, Editor, Debug, Terminal, Activity, Settings, Help.
- Explorer View:** Shows the project structure under the DEMO folder:
  - .vscode
  - src
    - main
      - java
        - com
          - Controller
            - emp\_controller
          - Model
            - emp\_model
          - Repository
            - emp\_repo
      - resources
      - test
      - target
    - .gitignore
    - HELP.md
    - mvnw
- Editor View:** Displays the Java code for the EmployeeRepository interface:

```
1  @Repository
2  public interface EmployeeRepository extends JpaRepository<Employee, Long> {
3 }
```
- Bottom Status Bar:** Shows Ln 3, Col 2, Spaces: 4, UTF-8, CRLF, Java, Go Live, and system icons for ENG IN, 04:21 PM, and 25-04-2023.

File Edit Selection View Go Run Terminal Help emp\_model - demo - Visual Studio Code

EXPLORER ... J emp\_controller J emp\_model X J emp\_repo

DEMO > .vscode

src > main > java > Model > J emp\_model

```
1 @Entity
2 public class Employee {
3     @Id
4     @GeneratedValue(strategy = GenerationType.IDENTITY)
5     private Long id;
6
7     private String name;
8
9     public Employee() {}
10
11    public Employee(String name) {
12        this.name = name;
13    }
14
15    public Long getId() {
16        return id;
17    }
18
19    public void setId(Long id) {
20        this.id = id;
21    }
22
23    public String getName() {
24        return name;
25    }
26
27    public void setName(String name) {
28        this.name=name;
29    }
30 }
```

DEBUG CONSOLE Filter (e.g. text, !exclude)

>

OUTLINE

TIMELINE

JAVA PROJECTS

MAVEN

0 0 0 0

Ln 29, Col 5 Spaces: 4 UTF-8 CRLF {} Java Go Live

Windows File Explorer Firefox DB Chrome Microsoft Edge Prime Video Netflix WhatsApp Google Chrome S Microsoft Edge

ENG IN 04:21 PM 25-04-2023