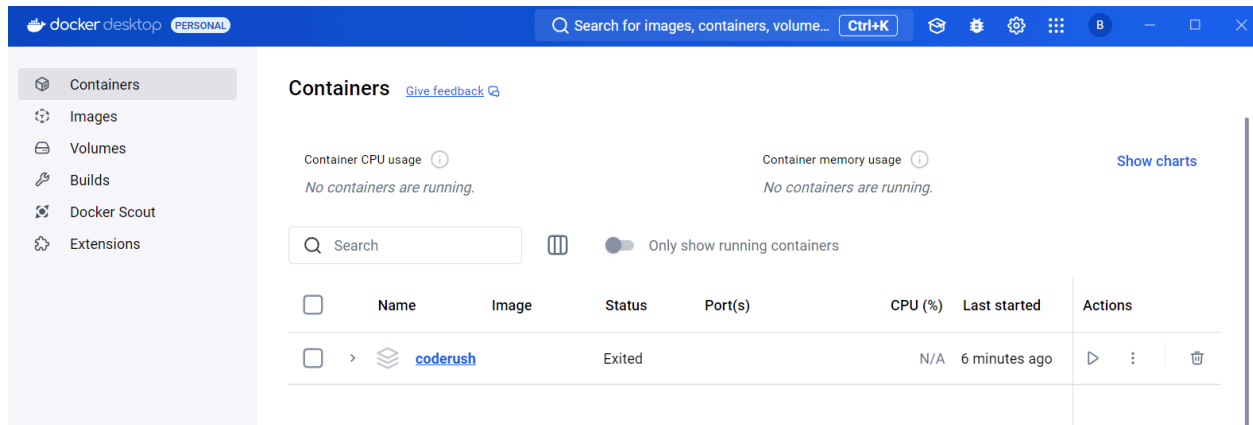


INSTALLING DOCKER

- Visit <https://www.docker.com/products/docker-desktop>
- Download Docker Desktop for your operating system (Windows or Mac)
- Follow the installation instructions provided on the website



Verify Docker Installation

- Open a terminal or command prompt
- Run the command: `docker --version`
- If you see a version number, Docker is installed correctly

```
PS C:\Users\20abd\Desktop\Desktop Items\Programming\CodeRush> docker --version
Docker version 27.2.0, build 3ab4256
```

CLONE THE CODERUSH REPOSITORY

SEE [GitHub Commands.pdf](#) for help with visuals!

- Install Git if you haven't already (<https://git-scm.com/downloads>)
- Open a terminal or command prompt
- Navigate to the directory where you want to store the project
- Run: `git clone https://github.com/Abdullah-Mehdi/CodeRush.git`

- Navigate into the project directory: `cd CodeRush`

USING DOCKER

Build and Run Docker Container:

- In the terminal, ensure you're in the root directory of the project
- Run the following command:

```
docker-compose up --build
```

- This command will build the Docker image and start the container
- Wait for the process to complete (it may take a few minutes the first time)

```
PS C:\Users\20abd\Desktop\Desktop Items\Programming\CodeRush> docker-compose up --build
time="2024-10-18T18:29:44-04:00" level=warning msg="C:\\Users\\20abd\\Desktop\\Desktop Items\\Programming\\CodeRush\\doc
ker-compose.yml: the attribute 'version' is obsolete, it will be ignored, please remove it to avoid potential confusion"
[+] Building 0.7s (12/12) FINISHED                                docker:desktop-linux
=> [frontend internal] load build definition from Dockerfile      0.0s
=> => transferring dockerfile: 275B                               0.0s
=> [frontend internal] load metadata for docker.io/library/node:14 0.3s
=> [frontend auth] library/node:pull token for registry-1.docker.io 0.0s
=> [frontend internal] load .dockerignore                        0.0s
=> => transferring context: 96B                                    0.0s
=> [frontend internal] load build context                        0.0s
=> => transferring context: 17.61kB                                0.0s
=> [frontend 1/5] FROM docker.io/library/node:14@sha256:a158d3b9b4e3fa813fa6c8c590b8f0a860e015ad4e59bbce5744d2f6 0.0s
=> => resolve docker.io/library/node:14@sha256:a158d3b9b4e3fa813fa6c8c590b8f0a860e015ad4e59bbce5744d2f6fd8461aa 0.0s
=> CACHED [frontend 2/5] WORKDIR /app                           0.0s
=> CACHED [frontend 3/5] COPY package*.json ./                  0.0s
=> CACHED [frontend 4/5] RUN npm install                        0.0s
=> CACHED [frontend 5/5] COPY . .                               0.0s
=> [frontend] exporting to image                                0.2s
=> => exporting layers                                           0.0s
=> => exporting manifest sha256:f1990f7c84f72181d87d8122afc366ebf2a39fb70b39ba57b552c50daf0ccf41 0.0s
=> => exporting config sha256:824eb617bdc915cd665c8a6bd7233aa252f0b4903bb8efaa7e740ad200d5386d 0.0s
=> => exporting attestation manifest sha256:f7615ffc7c574f3074360c1828623f4485d5ebc235e7571c4d4c6d3520b86170 0.0s
=> => exporting manifest list sha256:2154105550777bc5f4fc9219456b60987e5621e5f037bd8b63f2b86e9a3d658a 0.1s
=> => naming to docker.io/library/coderush-frontend:latest      0.0s
=> => unpacking to docker.io/library/coderush-frontend:latest   0.0s
=> [frontend] resolving provenance for metadata file            0.0s
[+] Running 2/2
✔ Container coderush-db-1 Created                                0.0s
✔ Container coderush-frontend-1 Recreated                        0.1s
Attaching to db-1, frontend-1
db-1 | 2024-10-18 22:29:45+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 8.4.3-1.el9 started.
db-1 | 2024-10-18 22:29:45+00:00 [Note] [Entrypoint]: Switching to dedicated user 'mysql'
db-1 | 2024-10-18 22:29:45+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 8.4.3-1.el9 started.
db-1 | 2024-10-18 22:29:45+00:00 [Note] [Entrypoint]: Initializing database files
db-1 | 2024-10-18T22:29:45.764942Z 0 [System] [MY-015017] [Server] MySQL Server Initialization - start.
db-1 | 2024-10-18T22:29:45.765668Z 0 [System] [MY-013169] [Server] /usr/sbin/mysqld (mysqld 8.4.3) initializing o
f server in progress as process 81
```

- For future times don't include "--build"

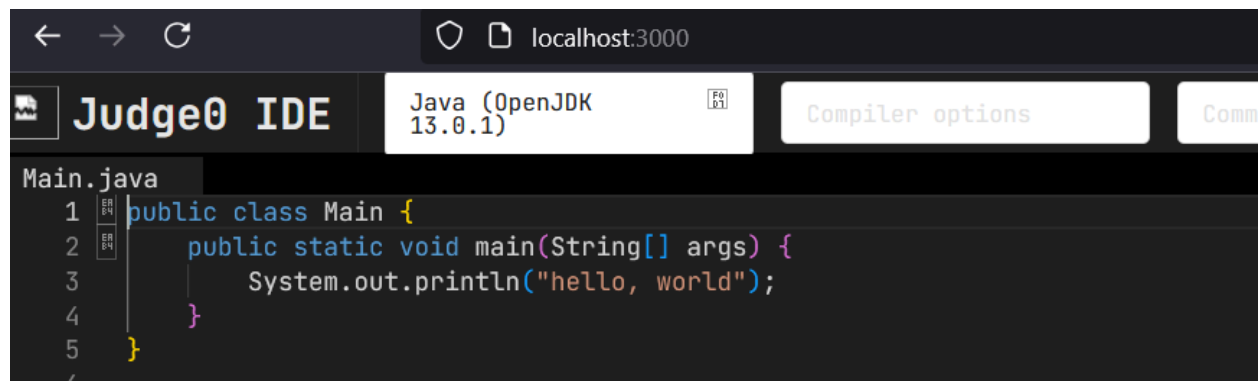
```

PS C:\Users\20abd\Desktop\Desktop Items\Programming\CodeRush> docker-compose up
time="2024-10-18T18:32:47-04:00" level=warning msg="C:\\Users\\20abd\\Desktop\\Desktop Items\\Programming\\CodeRush\\doc
ker-compose.yml: the attribute 'version' is obsolete, it will be ignored, please remove it to avoid potential confusion"
[+] Running 2/0
✔ Container coderush-frontend-1 Created 0.0s
Attaching to db-1, frontend-1
db-1 | 2024-10-18 22:32:47+00:00 [Note] [Entrypoint]: Switching to dedicated user 'mysql'
db-1 | 2024-10-18 22:32:47+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 8.4.3-1.el9 started.
frontend-1 | Frontend server running on port 3000
db-1 | 2024-10-18T22:32:47.773370Z 0 [System] [MY-015015] [Server] MySQL Server - start.
Process 1
db-1 | 2024-10-18T22:32:47.946405Z 0 [Warning] [MY-010159] [Server] Setting lower_case_table_names=2 because file
system for /var/lib/mysql/ is case insensitive
db-1 | 2024-10-18T22:32:48.874331Z 1 [System] [MY-013577] [InnoDB] InnoDB initialization has ended.
db-1 | 2024-10-18T22:32:49.606879Z 0 [Warning] [MY-010068] [Server] CA certificate ca.pem is self signed.
db-1 | 2024-10-18T22:32:49.607298Z 0 [System] [MY-013602] [Server] Channel mysql_main configured to support TLS.
Encrypted connections are now supported for this channel.
db-1 | 2024-10-18T22:32:49.635611Z 0 [Warning] [MY-011810] [Server] Insecure configuration for --pid-file: Locati
on '/var/run/mysqld' in the path is accessible to all OS users. Consider choosing a different directory.
db-1 | 2024-10-18T22:32:49.685691Z 0 [System] [MY-011323] [Server] X Plugin ready for connections. Bind-address:
'::' port: 33060, socket: /var/run/mysqld/mysqld.sock
db-1 | 2024-10-18T22:32:49.685769Z 0 [System] [MY-010931] [Server] /usr/sbin/mysqld: ready for connections. Versi
on: '8.4.3' socket: '/var/run/mysqld/mysqld.sock' port: 3306 MySQL Community Server - GPL.

```

Access the Frontend:

- Open a web browser
- Go to <http://localhost:3000>
- You should now see the CodeRush frontend running



Stop the Container:

- When you're done, go back to the terminal
- Press **Ctrl+C** to stop the running container
- To remove the containers, run:

`docker-compose down`

```
Gracefully stopping... (press Ctrl+C again to force)
[+] Stopping 2/2
✓Container coderush-frontend-1 Stopped 10.3s
✓Container coderush-db-1 Stopped 1.6s
canceled
```

ADDITIONAL NOTES

- Any changes you make to the frontend code will be reflected immediately due to the volume mapping in the docker-compose.yml file.
- If you encounter any issues, make sure Docker Desktop is running and that no other services are using port 3000 on your machine.
- To rebuild the container after making changes to the Dockerfile, use `docker-compose up --build` again.