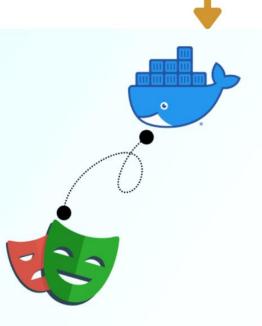




## PLAYWRIGHT: MASTERING THE ESSENTIALS PART-7

# Playwright Docker Tutorial



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### Playwright: Mastering the Essentials - Part 7

#### **Running Playwright Tests in Docker:**

This document will guide you through building a Docker image for your Playwright tests, creating a container from that image, and running your tests inside the container.

#### 1. Create a Dockerfile

Create a Dockerfile in the root directory of your Playwright project.

#### **Dockerfile Example:**

```
# Use the official Playwright image as the base image
FROM mcr.microsoft.com/playwright:v1.46.0-jammy
# Set the working directory inside the container
WORKDIR /playwrightWithDocker
# Copy the entire project directory to the working directory
COPY . .
# Install dependencies
RUN npm install
# Install Playwright dependencies
RUN npx @playwright/test install
RUN npx playwright install-deps
# Run Playwright tests
CMD ["npx", "playwright", "test"]
```

#### 2. Build the Docker Image

Once your Dockerfile is ready, build the Docker image. This image will contain all the necessary dependencies to run Playwright tests.



#### Command to Build the Image:

```
docker build -t sonu-playwright .
```

- **-t sonu-playwright**: Tags the image with the name sonu-playwright.
- . : Specifies the current directory as the build context.

#### Running Command to Build the Image:

```
rs\Sonu Madheshiya\OneDrive\Desktop\DemoAutomationTools\playwrightDemo> <mark>docker</mark> build -t sonu-playwright
     Building 23.1s (11/11) FINISHED

[internal] load build definition from Dockerfile

>> transferring dockerfile: 5068
[internal] load metadata for mcr.microsoft.com/playwright:v1.46.0-jammy
[internal] load dockerignore

>> transferring context: 28

CACHED [1/6] FROM mcr.microsoft.com/playwright:v1.46.0-jammy@sha256:860c541d62e212fa2d857afca98730dad12b641f941b9b5ed892e379e9e121bb
[internal] load build context

>> transferring context: 42.49kB
[2/6] WORKDIR /playwrightWithDocker
[3/6] COFY . .
[+] Building 23.1s (11/11) FINISHED
               > exporting layers
> writing image sha256:6b1148df91e40f8f0b0b69dcae0098ca322b3ae4763917d3c2e3585a7f739afe
> naming to docker.io/library/sonu-playwright
```

#### 3. Check Docker Images:

After building the image, verify that it has been created:

```
docker images
```

Lists all Docker images, including sonu-playwright.

```
PS C:\Users\Sonu Madheshiya\OneDrive\Desktop\DemoAutomationTools\playwrightDemo> docker images
REPOSITORY
                           IMAGE ID
                                          CREATED
sonu-playwright
                 latest
                           6b1148df91e4 6 minutes ago
```

#### 4. Run a Container from the Image

Create and run a container from the sonu-playwright image.

#### Command to Run the Container:

```
docker run -it --name sonu-playwright-container sonu-playwright
```



- -it : Runs the container interactively with a terminal attached.
- --name sonu-playwright-container : Names the container sonu-playwrightcontainer.
- sonu-playwright: The name of the Docker image to use for the container.

#### **Result After Command to Run the Container:**

```
C:\Users\Sonu Madheshiya\OneDrive\Desktop\DemoAutomationTools\playwrightDemo> <mark>docke</mark>r run -it --name sonu-playwright-container sonu-playwright
 unning 6 tests using 6 workers
To open last HTML report run:
```

#### 5. Check Docker Containers:

After running the container, check the status of all containers:

```
docker ps -a
```

Lists all Docker containers, including sonu-playwright-container, and their statuses (running, stopped, etc.).

```
CONTAINER ID IMAGE
                                                                                                  PORTS
                                                                                                            NAMES
                                COMMAND
                                                        CREATED
                                                                        STATUS
                                "npx playwright test"
                                                                                                             sonu-playwright-container
                                                                        Exited (0) 4 minutes ago
```

#### 6. View Test Results

The Playwright tests will execute inside the container, and the results will be displayed in your terminal.

```
Running 6 tests using 6 workers
To open last HTML report run:
  npx playwright show-report
```



#### 7. Accessing the Container (Optional)

If you need to access the container's shell:

#### **Command to Access the Container:**

```
root@c2dcd49f4d86:/playwrightWithDocker# ls
oot@c2dcd49f4d86:/playwrightWithDocker# Is
oot@c2dcd49f4d86:/playwrightWithDocker#
                                                                                right-report playwright.config.js test-results tests tests-examples
```

**/bin/bash**: Opens a Bash shell in the container, overriding the Dockerfile's CMD.

#### 8. Stopping and Removing the Container

After running your tests, you can stop and remove the container.

#### **Command to Stop the Container:**

```
docker stop sonu-playwright-container
```

#### **Command to Remove the Container:**

docker rm sonu-playwright-container

#### 9. Clean Up Docker Resources

#### **Command to Remove the Image:**

docker rmi sonu-playwright

**sonu-playwright**: The name of the Docker image to remove.

#### **Command to Remove All Stopped Containers:**

docker container prune

#### **Summary of Commands:**

- Build the Image: docker build -t sonu-playwright .
- Check Images: docker images
- Run the Container: docker run -it --name sonu-playwright-container sonu-playwright
- Check Containers: docker ps -a
- Stop the Container: docker stop sonu-playwright-container
- Remove the Container: docker rm sonu-playwright-container
- Remove the Image: docker rmi sonu-playwright

Stay tuned with **Sonu Madheshiya** on LinkedIn for more interesting content on automation testing.