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# Docker

## Introduction

[Dockerfile.jammy](#) can be used to run Playwright scripts in Docker environment. This image includes the [Playwright browsers](#) and [browser system dependencies](#). The Playwright package/dependency is not included in the image and should be installed separately.

## Usage

This Docker image is published to [Microsoft Artifact Registry](#).

### INFO

This Docker image is intended to be used for testing and development purposes only. It is not recommended to use this Docker image to visit untrusted websites.

## Pull the image

```
docker pull mcr.microsoft.com/playwright:v1.47.0-noble
```

## Run the image

By default, the Docker image will use the `root` user to run the browsers. This will disable the Chromium sandbox which is not available with root. If you run trusted code (e.g. End-to-end tests) and want to avoid the hassle of managing separate user then the root user may be fine. For web scraping or crawling, we recommend to create a separate user inside the Docker container and use the seccomp profile.

## End-to-end tests

On trusted websites, you can avoid creating a separate user and use root for it since you trust the code which will run on the browsers.

```
docker run -it --rm --ipc=host mcr.microsoft.com/playwright:v1.47.0-noble /bin/bash
```

## Crawling and scraping

On untrusted websites, it's recommended to use a separate user for launching the browsers in combination with the seccomp profile. Inside the container or if you are using the Docker image as a base image you have to use `adduser` for it.

```
docker run -it --rm --ipc=host --user pwuser --security-opt seccomp=seccomp_profile.json mcr.microsoft.com/playwright:v1.47.0-noble /bin/bash
```

[seccomp profile.json](#) is needed to run Chromium with sandbox. This is a [default Docker seccomp profile](#) with extra user namespace cloning permissions:

```
{
  "comment": "Allow create user namespaces",
  "names": [
    "clone",
    "setns",
    "unshare"
  ],
  "action": "SCMP_ACT_ALLOW",
  "args": [],
  "includes": {},
  "excludes": {}
}
```

NOTE

Using `--ipc=host` is recommended when using Chrome ([Docker docs](#)). Chrome can run out of memory without this flag.

## Using on CI

See our [Continuous Integration guides](#) for sample configs.

## Image tags

See [all available image tags](#).

We currently publish images with the following tags:

- `:v1.47.0` - Playwright v1.47.0 release docker image based on Ubuntu 24.04 LTS (Noble Numbat).
- `:v1.47.0-noble` - Playwright v1.47.0 release docker image based on Ubuntu 24.04 LTS (Noble Numbat).
- `:v1.47.0-jammy` - Playwright v1.47.0 release docker image based on Ubuntu 22.04 LTS (Jammy Jellyfish).
- `:v1.47.0-focal` - Playwright v1.47.0 release docker image based on Ubuntu 20.04 LTS (Focal Fossa).

## NOTE

It is recommended to always pin your Docker image to a specific version if possible. If the Playwright version in your Docker image does not match the version in your project/tests, Playwright will be unable to locate browser executables.

## Base images

We currently publish images based on the following [Ubuntu](#) versions:

- **Ubuntu 24.04 LTS** (Noble Numbat), image tags include `noble`
- **Ubuntu 22.04 LTS** (Jammy Jellyfish), image tags include `jammy`
- **Ubuntu 20.04 LTS** (Focal Fossa), image tags include `focal`

## Alpine

Browser builds for Firefox and WebKit are built for the [glibc](#) library. Alpine Linux and other distributions that are based on the [musl](#) standard library are not supported.

## Build your own image

To run Playwright inside Docker, you need to have Node.js, [Playwright browsers](#) and [browser system dependencies](#) installed. See the following Dockerfile:

```
FROM node:20-bookworm

RUN npx -y playwright@1.47.0 install --with-deps
```

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