Getting Started > Installation

Version: 8.x

Installation

This guide is not intended to provide a comprehensive tour of Docker and its orchestrators. Rather, it's designed to be concise enough to assist beginners in getting started while helping power users sidestep potential pitfalls.

> **DANGER**
>
> We do not recommend exposing your instances to the external world. In terms of security, you should consider Gotenberg as a database.

Live Demo 🔥

Before downloading the Docker image, you might want to experiment with Gotenberg. We offer a demo API for this purpose:

- https://demo.gotenberg.dev

As you navigate through the documentation, feel free to open a terminal or Postman and try out the routes using the demo URL.

For instance:

```
curl \
--request POST https://demo.gotenberg.dev/forms/chromium/convert/url \
--form url=https://sparksuite.github.io/simple-html-invoice-template/ \
-o my.pdf
```

> **INFO**
>
> The demo operates on a Render instance with 512MB of RAM and 0.5 CPU.

At present, the restrictions are:

- A maximum of two requests per second per IP.
- A body limit of 5MB.

Docker

To start a default Docker container of Gotenberg, run:

```
docker run --rm -p 3000:3000 gotenberg/gotenberg:8
```

Alternatively, using the historic Docker repository from our sponsor TheCodingMachine:

```
docker run --rm -p 3000:3000 thecodingmachine/gotenberg:8
```

> **INFO**
>
> The API will be available at http://localhost:3000.

Docker Compose

Incorporating Gotenberg into your Docker Compose services stack is as straightforward as:

docker-compose.yml

```yaml
services:
  # Your other services.

  gotenberg:
    image: gotenberg/gotenberg:8
```

> **INFO**

> The API will be accessible at gotenberg:3000 within your Docker Compose network. This means your other services can interact with Gotenberg using gotenberg:3000.

If you want to expose the API to your *localhost*, consider adding a `ports` section:

docker-compose.yml

```yaml
services:
  # Your other services.

  gotenberg:
    image: gotenberg/gotenberg:8
    ports:
      - "3000:3000"
```

> **INFO**
>
> The API will be available at http://localhost:3000.

Kubernetes

The Docker image employs a specific non-root user, named *gotenberg*, with a User ID (uid) and Group ID (gid) of **1001**.

When detailing the pod's deployment specification, remember to include:

```yaml
securityContext:
  privileged: false
  runAsUser: 1001
```

Other than that, ensure to allocate sufficient memory and CPU resources (at least 512Mi for memory and 0.2 for CPU).

A community Helm chart is also available at MaikuMori/helm-charts and on ArtifactHub.

Cloud Run

If cost-efficiency is a priority for you, Cloud Run could be an appealing option.

We have a dedicated Docker image tag specifically for this provider:

```
gotenberg/gotenberg:8-cloudrun
```

Alternatively, using the historic Docker repository from our sponsor TheCodingMachine:

```
thecodingmachine/gotenberg:8-cloudrun
```

There are a few limitations to be aware of:

1. Consider using HTTP/2 to bypass the 32MB request size limit.
2. Consider disabling the webhook feature as it does not work on Cloud Run.
3. Consider enabling auto-start for Chromium and/or LibreOffice.

Modules Configuration

The Docker image internally employs a binary that offers flags to configure its multiple modules (for more detailed information, refer to the configuration guide).

To set one or more flags, it's necessary to override the Docker image's default command.

For example, with the Docker CLI:

```
docker run --rm -p 3000:3000 gotenberg/gotenberg:8 gotenberg --my-module-property=foo
```

Or with Docker Compose:

docker-compose.yml

```yaml
services:
  # Your other services.

  gotenberg:
    image: gotenberg/gotenberg:8
    command:
      - "gotenberg"
      - "--my-module-property=foo"
```

> **CAUTION**
>
> Do not redefine the Gotenberg Docker image default entrypoint, but override the command instead. See this issue for more details.

What's next?

Now that you have Gotenberg up and running, you can start using it. Install a custom client or read the routes guide to learn more.

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