



DOCKER SETUP GUIDE



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Docker Setup Guide

This document describes the docker setup for Ambience 2026 software.

Docker is a software platform that allows user to build, test, and deploy applications quickly. Docker packages software into standardised units called containers that have everything the software needs to run including libraries, system tools, code and runtime.

Refer to the following websites for more information:

- <https://docs.elixirtech.com/Ambience/2026.0/index.html>
- www.elixirtech.com
- <https://github.com/ambience-cloud/elixir-ambience>

1. Pre-requisites

The following are the pre-requisites for using the docker:

- Java 17 or above (including OpenJDK)
- MongoDB 4.4.x or above (including MongoDB Atlas)
- Ambience Software Suite

Requirements:

- Unix OS as macOS or Linux – scripts use sh or bash Unix shell
- Windows OS will need to alter the scripts
- Docker engine with Compose – install software from <https://docs.docker.com/get-started/get-docker/>

2. Install Docker

Docker allows you to separate your applications from your infrastructure so you can deliver software quickly. With Docker, you can manage your infrastructure in the same ways you manage your applications.

1. Go to <https://docs.docker.com/get-started/get-docker/> website.
2. In the webpage, select the Docker for the desired platform.
3. Note the requirements for the Docker and follow the instructions in the webpage.
4. Go to <https://github.com/ambience-cloud/elixir-ambience> website.
5. Download the files in the Git Hub page.

Note the requirements listed in the page. Edits needs to be done on the scripts to adapt to the Windows environment.

3. Setup Docker

To setup the Docker, perform the following:

1. Go to <https://github.com/ambience-cloud/elixir-ambience> website.
2. Download the files in the Git Hub page.
Note the requirements listed in the page. Edits needs to be done on the scripts to adapt to the Windows environment.
3. Read the “README.md” file and setup the Docker according.

4. Run Docker

Run the Docker Compose to start a MongoDB database and Ambience using the following command:

```
./run-ambience-compose.sh
```

This will pull the latest Ambience and MongoDB image at “elixirtech/elixir-ambience” docker repository. MongoDB and Ambience are starting in the order as shown below:

```
latest: Pulling from elixirtech/elixir-ambience
Digest: sha256:b6bfd3b320cedc18588e028ad65dd080b6f281725e78cde5d6aabelcede4ec54
Status: Image is up to date for elixirtech/elixir-ambience:latest
docker.io/elixirtech/elixir-ambience:latest
[+] Running 2/2
  #: Container elixir-mongo      Started
  #: Container elixir-ambience  Started
```

Once the service is started, you can browse to the URL as “<http://localhost:1740>”.

Note:

- The Docker compose configuration file is “`docker-compose.yaml`”. It is configured to run a MongoDB database and Ambience containers. Remove MongoDB configuration if MongoDB already is running in the host.
- Ambience configuration parameters for Ambience is in a hidden file “`.env`”. The parameters as the following:

```
mongourl="mongodb://mongo:27017"
externalhost="localhost"
externalport="1740"
externalprotocol="http:"
```

You can configure the default MongoDB URL, external host, port and http protocol.

The external port used for the Docker’s MongoDB is 28017. IF you have a port conflict with any MongoDB running the host, you may change the MongoDB port in the “`docker-compose.yaml`” as:

```
mongo:
  ...
  ports:
    - 127.0.0.1:[change port from 20817]:27017
```

You can use external tool, such as “`mongosh`” to connect from the host to MongoDB container using the 29017 port.

4.1. Useful Docker Compose Commands and Scripts

Docker Command	Description
<code>docker compose ps</code>	To list the service as
<code>docker compose stop</code>	Stop Docker compose
<code>docker compose rm</code>	Remove containers
<code>docker compose restart elixir-ambience</code>	Restart Ambience container

4.1.1. Install Dependencies – Java, MongoDB

Install Java 17

You need to download and install any Java 17 (including Open JDK) or higher for Ambience.

Install MongoDB

MongoDB is a document database with the scalability and flexibility that you want with the querying and indexing that you need. It uses JSON-like documents with schema.

Below are the steps to install MongoDB:

1. Go to <https://www.mongodb.com/download-center/community> website.
2. In the webpage, select MongoDB Community Server and select the following:
 - MongoDB 4.4.x or above (latest release is recommended)
 - Desired OS
 - Desired package
3. Click on the “Download” button.
4. Installing the package:
 - a. For MSI package, use the following steps:
 - i. Go to the directory where you downloaded the MongoDB installer (`.msi` file). By default, this is your downloads directory.
 - ii. Double click on the `.msi` file and follow the instructions in the installer wizard.
 - b. For ZIP package, use the following steps:
 - i. Extract the zip file into the desired location.
 - ii. Create a folder “data/db” in the root directory of the location. This directory is required to save the database records.

You may be prompted to install MongoDB Compass. It is an optional application.

5. To run MongoDB:
 - From Windows Explorer/File Explorer, go to the “`../MongoDB\Server/4.x/bin/`” directory and double-click on `mongod.exe`.
Depending on the OS, a command window will appear and may close after a few seconds.
 - For terminal window or command prompt for Windows, navigate to the “`../MongoDB\Server/4.x/bin/`” directory and execute the command `“mongod.exe”`.

The MongoDB server runs at the default port 27017.

For further details and advice on MongoDB installation, please refer to the MongoDB website.

4.1.2. Install Ambience

Contact our representatives for the Ambience suite. The Ambience comes in a form of a zip file. By default, the Ambience comes with a licence for a minimal set of modules that allows the administrator to log in and perform the basic setup. To acquire a larger set of modules, you will need to a new licence.

To install Ambience, extract the zip file to the desired location.