# The GeoSight Handbook



Insights from Spatial Data.
UNICEF
2022

	Contents
For Users	
User Guide	
For Administrators	
Administrator Guide	
For Developers	
Setup	
Installation	

# 1 For Users

1.1 User Guide

# 1 For Administrators

1.1 Administrator Guide

# 1 For Developers

1.1 Setup

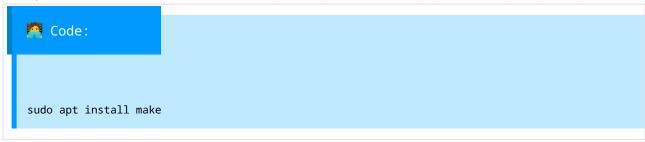
This document covers how you can set up the project, for production and development environment setup.

## 1.1 Installation

### 1.1.1 Preparation

#### 1.1.1.1 Dependencies installation

The project provide **make** command that making setup process easier. To install make on your machine or virtual box server, do:

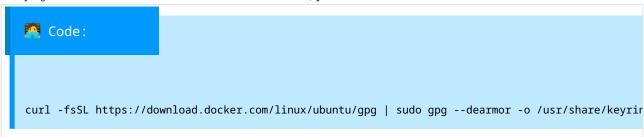


Project has recipe that you can use to run the project in one command. This recipe needs docker-compose to be able to use it. To install it, do:

```
sudo apt install docker-compose
apt install ca-certificates curl gnup lsb-release
```

#### 1.1.1.2 Docker installation

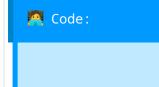
The project needs docker to be able to run it. To install it, please follow below instruction.



On the next prompt line:

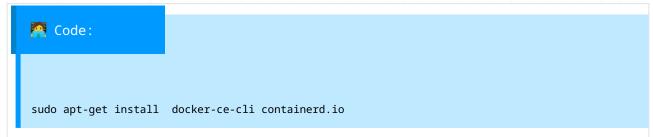


Run apt update:

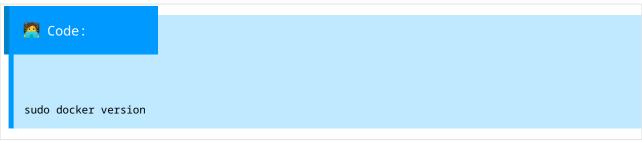


sudo apt-get update

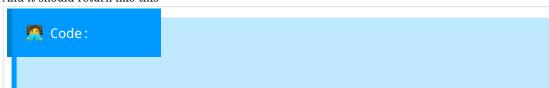
This will install docker



This will check if installation of docker was successful



And it should return like this



Client: Docker Engine - Community Version: 20.10.9

API version: 1.41

Go version: go1.16.8

Git commit: c2ea9bc

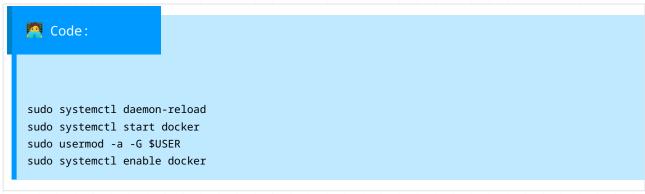
Built: Mon Oct 4 16:08:29 2021

OS/Arch: linux/amd64

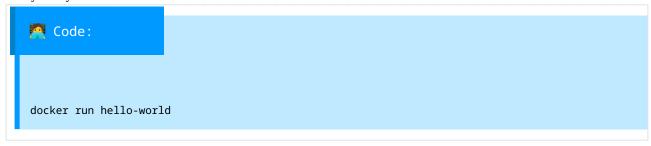
default Context: Experimental: true

#### Manage docker as non-root

This will ensure that the docker can be executed without sudo.



Verify that you can run docker commands without sudo.



For more information how to install docker, please visit Install Docker Engine

## 1.1.1 Project Setup

#### 1.1.1.1 Clone GeoSight repository

This will clone the GeoSight repository to your machine

```
git clone https://github.com/unicef-drp/GeoSight
```

#### 1.1.1.2 Set up the project

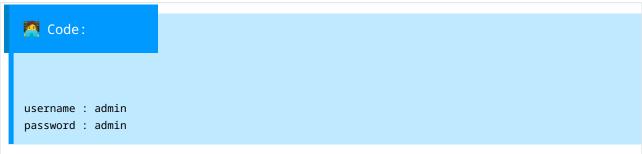
This will set up the GeoSight project on your machine

```
cd GeoSight
cd deployment
cp docker-compose.override.template.yml docker-compose.override.yml
cp .template.env .env
cd ..
make up
```

Wait until everything is done.

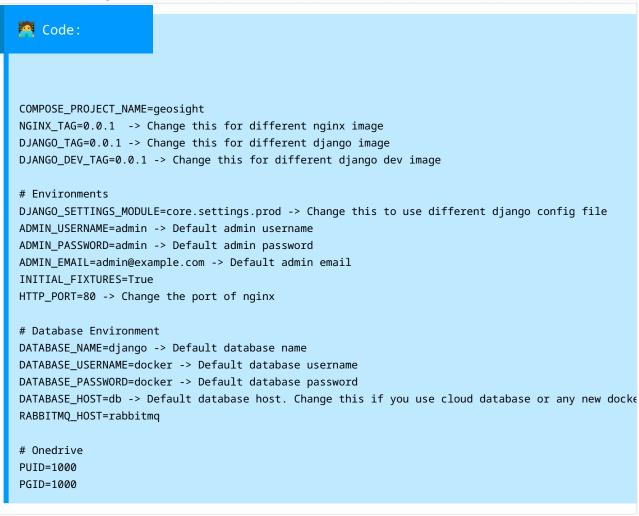
After everything is done, open up a web browser and go to http://127.0.0.1/ and the dashboard will open:

By Default, we can use the admin credential:



1.1.1.3 Set up different environment

To set up different environment, for example the Default credential, or the port of server, open **deployment/.env**. You can check the description below for each of variable.



After you change the desired variable and do make up . It will rerun the project with new environment.

# 1.1.1 Development setup

## 1.1.1.1 Development Environment

This section is for setup development, so we can develop the project and check the changes in runtime. The sections depend on what interpreter that you use

#### 1.1.1.2 Using pycharm

This section is for using pycharm.

Requirements:

Pycharm
Finished Setting up the project

Setup interpreter

Go to file -> setting -> Project -> Project Interpreter -> click cog -> add
Project Interpreter

Construction

Project Interpreter

Construction

Project Interpreter -> Fill the form like below
Project Interpreter

- $^{3.}$  Click next and fill  $\mathbf{docker}$  as password  $\mathbf{Project\ Interpreter}$
- 4. Click next and change interpreter like below and click finish

  Project Interpreter
- $^{5\cdot}$  After finish, it will show all package like below. Project Interpreter
- 6. In current page, click path mappings, click + button and put local path to where the project (django-project folder) and remote path is like below. and click oK.
  Project Interpreter

Now the interpreter is done. When we restart the machine, we need to do make up to run the project.

#### Setup run configuration

After the interpreter is done, we need configuration to run the project in development mode.

- $^{1\cdot}$  Click "Add configuration" like in the cursor in the image below. (top-right) Project Interpreter
- <sup>2.</sup> There will be a popup, and click +, then click **django server** like below Project Interpreter

Project Interpreter

3. It will show the form and fill like below.

Project Interpreter

4. Don't click the OK yet, but click **Environment Variables** and add environments like below 9by clicking + button).

Project Interpreter

- <sup>5.</sup> After that, click OK.
- $^{6.}$  Now we need to run the server by clicking  $\mathbf{go}$  button in below image.

Project Interpreter

- $^{7\cdot}$  When we click the  ${f go}$  button, pycharm will run a process until like image below. Project Interpreter
- 8. Now it is done. We can access the development server in http://localhost:2000/

This development mode is DEBUG mode, and also whenever we change the code, the site will also change in runtime. For more information how to set up on pycharm, please visit <u>Using a Docker Compose-Based Python Interpreter in PyCharm</u>

