

Install Taiga in Production

Table of Contents

1. Docker	1
1.1. Requirements	1
1.2. Get repository	1
1.3. Configuration	1
1.4. Basic Configuration	1
1.5. Additional customization	3
1.6. Advanced configuration	7
1.7. Configure an admin user	9
1.8. Up and running	9
1.9. Configure the proxy	9
1.10. Change between subpath and subdomain	11
2. From source code	11
2.1. Introduction	11
2.2. Pre-requisites	12
2.3. Dependencies	12
2.4. Install System Dependencies	12
2.5. Create a user taiga	13
2.6. Configuring PostgreSQL and RabbitMQ	13
2.7. Backend Setup	14
2.8. Frontend Setup	16
2.9. Events Setup	17
2.10. Taiga protected Setup	17
2.11. Start Taiga	18
2.12. Expose Taiga with NGINX	21
2.13. Other methods to expose Taiga	26
2.14. Extend Taiga	26
2.15. Troubleshooting	26

1. Docker

This is the easiest and **recommended** way to run Taiga in production. This document explains how to deploy a full Taiga service for a production environment with **docker**.



Previous installation guide

You can access the [older docker installation guide](#) for documentation purposes, intended just for earlier versions of Taiga (prior to ver. 6.6.0)

Note If you're updating from serving taiga6 in subdomain to subpath, check the specific instructions at the end of this tutorial.

1.1. Requirements

Prior to start the installation, ensure you have installed:

- **docker**: version $\geq 19.03.0+$

Additionally, it's necessary to have familiarity with Docker, docker compose and Docker repositories.

1.2. Get repository

Clone [this repository](#).

```
$ cd taiga-docker/  
$ git checkout stable
```

1.3. Configuration

We've exposed the **Basic configuration** settings in Taiga to an **.env** file. We strongly recommend you to change it, or at least review its content, to avoid using the default values.

Both **docker-compose.yml** and **docker-compose-inits.yml** will read from this file to populate their environment variables, so, initially you don't need to change them. Edit these files just in case you require to enable **Additional customization**, or an **Advanced configuration**.

Refer to these sections for further information.

1.4. Basic Configuration

You will find basic **configuration variables** in the **.env** file. As stated before, we encourage you to edit these values, especially those affecting the security.

Database settings

These vars are used to create the database for Taiga and connect to it.

```
POSTGRES_USER=taiga # user to connect to PostgreSQL
POSTGRES_PASSWORD=taiga # database user's password
```

URLs settings

These vars set where your Taiga instance should be served, and the security protocols to use in the communication layer.

```
TAIGA_SCHEME=http # serve Taiga using "http" or "https" (secured) connection
TAIGA_DOMAIN=localhost:9000 # Taiga's base URL
SUBPATH="" # it'll be appended to the TAIGA_DOMAIN (use either "" or a "/subpath")
WEBSOCKETS_SCHEME=ws # events connection protocol (use either "ws" or "wss")
```

The default configuration assumes Taiga is being served in a **subdomain**. For example:

```
TAIGA_SCHEME=https
TAIGA_DOMAIN=taiga.mycompany.com
SUBPATH=""
WEBSOCKETS_SCHEME=wss
```

If Taiga is being served in a **subpath**, instead of a subdomain, the configuration should be something like this:

```
TAIGA_SCHEME=https
TAIGA_DOMAIN=mycompany.com
SUBPATH="/taiga"
WEBSOCKETS_SCHEME=wss
```

Secret Key settings

This variable allows you to set the secret key in Taiga, used in the cryptographic signing.

```
SECRET_KEY="taiga-secret-key" # Please, change it to an unpredictable value!
```

Email settings

By default, emails will be printed in the standard output (**EMAIL_BACKEND=console**). If you have your own SMTP service, change it to **EMAIL_BACKEND=smtp** and configure the rest of these variables with the values supplied by your SMTP provider:

```
EMAIL_BACKEND=console # use an SMTP server or display the emails in the console
                        (either "smtp" or "console")
EMAIL_HOST=smtp.host.example.com # SMTP server address
EMAIL_PORT=587 # default SMTP port
EMAIL_HOST_USER=user # user to connect the SMTP server
EMAIL_HOST_PASSWORD=password # SMTP user's password
EMAIL_DEFAULT_FROM=changeme@example.com # email address for the automated emails

# EMAIL_USE_TLS/EMAIL_USE_SSL are mutually exclusive (only set one of those to True)
EMAIL_USE_TLS=True # use TLS (secure) connection with the SMTP server
EMAIL_USE_SSL=False # use implicit TLS (secure) connection with the SMTP server
```

Queue manager settings

These variables are used to leave messages in the rabbitmq services.

```
RABBITMQ_USER=taiga # user to connect to RabbitMQ
RABBITMQ_PASS=taiga # RabbitMQ user's password
RABBITMQ_VHOST=taiga # RabbitMQ container name
RABBITMQ_ERLANG_COOKIE=secret-erlang-cookie # unique value shared by any connected
instance of RabbitMQ
```

Attachments settings

You can configure how long the attachments will be accessible by changing the token expiration timer. After that amount of seconds the token will expire, but you can always get a new attachment url with an active token.

```
ATTACHMENTS_MAX_AGE=360 # token expiration date (in seconds)
```

Telemetry settings

Telemetry anonymous data is collected in order to learn about the use of Taiga and improve the platform based on real scenarios. You may want to enable this to help us shape future Taiga.

```
ENABLE_TELEMETRY=True
```

You can opt out by setting this variable to False. By default, it's True.

1.5. Additional customization

All these customization options are by default disabled and require you to edit `docker-compose.yml`.

You should add the corresponding environment variables in the proper services (or in `&default-back-environment` group) with a valid value in order to enable them. Please, do not modify it unless you know what you're doing.

Session cookies in Django Admin

Taiga doesn't use session cookies in its API as it is stateless. However, the Django Admin (`/admin/`) uses session cookie for authentication. By default, Taiga is configured to work behind HTTPS. If you're using HTTP (despite the strong recommendations against it), you'll need to configure the following environment variables so you can access the Admin:

Add to `&default-back-environment` environments

```
SESSION_COOKIE_SECURE: "False"
CSRF_COOKIE_SECURE: "False"
```

More info about those variables can be found [here](#).

Public registration

Public registration is disabled by default. If you want to allow a public register, you have to enable public registration on both, frontend and backend.



Be careful with the upper and lower case in these settings. We will use 'True' for the backend and 'true' for the frontend (this is not a typo, otherwise it won't work).

Add to `&default-back-environment` environments

```
PUBLIC_REGISTER_ENABLED: "True"
```

Add to `taiga-front` service environments

```
PUBLIC_REGISTER_ENABLED: "true"
```



Taiga (in its default configuration) disables both Gitlab or Github oauth buttons whenever the public registration option hasn't been activated. To be able to use Github/ Gitlab login/registration, make sure you have public registration activated on your Taiga instance.

GitHub OAuth login

Used for login with Github. This feature is disabled by default.

Follow the documentation ([GitHub - Creating an OAuth App](#)) in Github, when save application Github displays the ID and Secret.

Set variables in `docker-compose.yml`:



Be careful with the upper and lower case in these settings. We will use 'True' for the backend and 'true' for the frontend (this is not a typo, otherwise it won't work).



`GITHUB_API_CLIENT_ID` / `GITHUB_CLIENT_ID` should have the same value.

Add to `&default-back-environment` environments

```
ENABLE_GITHUB_AUTH: "True"
GITHUB_API_CLIENT_ID: "github-client-id"
GITHUB_API_CLIENT_SECRET: "github-client-secret"
PUBLIC_REGISTER_ENABLED: "True"
```

Add to `taiga-front` service environments

```
ENABLE_GITHUB_AUTH: "true"
GITHUB_CLIENT_ID: "github-client-id"
PUBLIC_REGISTER_ENABLED: "true"
```

Gitlab OAuth login

Used for login with GitLab. This feature is disabled by default.

Follow the documentation ([Configure GitLab as an OAuth 2.0 authentication identity provider](#)) in Gitlab to get the *gitlab-client-id* and the *gitlab-client-secret*.

Set variables in `docker-compose.yml`:



Be careful with the upper and lower case in these settings. We will use 'True' for the backend and 'true' for the frontend (this is not a typo, otherwise it won't work).



`GITLAB_API_CLIENT_ID` / `GITLAB_CLIENT_ID` and `GITLAB_URL` should have the same value.

Add to `&default-back-environment` environments

```
ENABLE_GITLAB_AUTH: "True"
GITLAB_API_CLIENT_ID: "gitlab-client-id"
GITLAB_API_CLIENT_SECRET: "gitlab-client-secret"
GITLAB_URL: "gitlab-url"
PUBLIC_REGISTER_ENABLED: "True"
```

Add to `taiga-front` service environments

```
ENABLE_GITLAB_AUTH: "true"
GITLAB_CLIENT_ID: "gitlab-client-id"
GITLAB_URL: "gitlab-url"
PUBLIC_REGISTER_ENABLED: "true"
```

Slack integration

Enable Slack integration in your Taiga instance. This feature is disabled by default.



Be careful with the upper and lower case in these settings. We will use 'True' for the backend and 'true' for the frontend (this is not a typo, otherwise it won't work).

Add to `&default-back-environment` environments

```
ENABLE_SLACK: "True"
```

Add to `taiga-front` service environments

```
ENABLE_SLACK: "true"
```

GitHub importer

Activating this feature, you will be able to import projects from GitHub.

Follow this documentation ([GitHub - Creating an OAuth App](#)) to obtain the *client id* and the *client secret* from GitHub.



Be careful with the upper and lower case in these settings. We will use 'True' for the backend and 'true' for the frontend (this is not a typo, otherwise it won't work).

Add to `&default-back-environment` environments

```
ENABLE_GITHUB_IMPORTER: "True"  
GITHUB_IMPORTER_CLIENT_ID: "client-id-from-github"  
GITHUB_IMPORTER_CLIENT_SECRET: "client-secret-from-github"
```

Add to `taiga-front` service environments

```
ENABLE_GITHUB_IMPORTER: "true"
```

Jira importer

Activating this feature, you will be able to import projects from Jira.

Follow this documentation ([Jira - OAuth 1.0a for REST APIs](#)) to obtain the *consumer key* and the *public/private certificate key*.



Be careful with the upper and lower case in these settings. We will use 'True' for the backend and 'true' for the frontend (this is not a typo, otherwise it won't work).

Add to `&default-back-environment` environments


```
ENABLE_JIRA_IMPORTER: "True"
JIRA_IMPORTER_CONSUMER_KEY: "consumer-key-from-jira"
JIRA_IMPORTER_CERT: "cert-from-jira"
JIRA_IMPORTER_PUB_CERT: "pub-cert-from-jira"
```

Add to `taiga-front` service environments

```
ENABLE_JIRA_IMPORTER: "true"
```

Trello importer

Activating this feature, you will be able to import projects from Trello.

For configure Trello, you have two options: - go to <https://trello.com/app-key> (you must login first) and obtaining your development *API key* and your *secret key*. - or with the new method, [create a new Power-Up](#) and generate an *API key* and a *secret key*



Be careful with the upper and lower case in these settings. We will use 'True' for the backend and 'true' for the frontend (this is not a typo, otherwise it won't work).

Add to `&default-back-environment` environments

```
ENABLE_TRELLO_IMPORTER: "True"
TRELLO_IMPORTER_API_KEY: "api-key-from-trello"
TRELLO_IMPORTER_SECRET_KEY: "secret-key-from-trello"
```

Add to `taiga-front` service environments

```
ENABLE_TRELLO_IMPORTER: "true"
```

1.6. Advanced configuration

The advanced configuration **will ignore** the environment variables in `docker-compose.yml` or `docker-compose-inits.yml`. Skip this section if you're using env vars.

It requires you to map the configuration files of `taiga-back` and `taiga-front` services to local files in order to unlock further configuration options.

Map a `config.py` file

From `taiga-back` download the file `settings/config.py.prod.example` and rename it:

```
mv settings/config.py.prod.example settings/config.py
```

Edit `config.py` with your own configuration:

- Taiga secret key: **it's important** to change it. It must have the same value as the secret key in `taiga-events` and `taiga-protected`
- Taiga urls: configure where Taiga would be served using `TAIGA_URL`, `SITES` and `FORCE_SCRIPT_NAME` (see examples below)
- Connection to PostgreSQL; check `DATABASES` section in the file
- Connection to RabbitMQ for `taiga-events`; check "EVENTS" section in the file
- Connection to RabbitMQ for `taiga-async`; check "TAIGA ASYNC" section in the file
- Credentials for email; check "EMAIL" section in the file
- Enable/disable anonymous telemetry; check "TELEMETRY" section in the file

Example to configure Taiga in **subdomain**:

```
TAIGA_SITES_SCHEME = "https"
TAIGA_SITES_DOMAIN = "taiga.mycompany.com"
FORCE_SCRIPT_NAME = ""
```

Example to configure Taiga in **subpath**:

```
TAIGA_SITES_SCHEME = "https"
TAIGA_SITES_DOMAIN = "taiga.mycompany.com"
FORCE_SCRIPT_NAME = "/taiga"
```

Check as well the rest of the configuration if you need to enable some advanced features.

Map the file into `/taiga-back/settings/config.py`. Have in mind that you have to map it both in `docker-compose.yml` and `docker-compose-inits.yml`. You can check the `x-volumes` section in `docker-compose.yml` with an example.

Map a `conf.json` file

From `taiga-front` download the file `conf/conf.example.json` and rename it:

```
mv conf.example.json conf.json
```

Edit it with your own configuration:

- Taiga urls: configure where Taiga would be served using `api`, `eventsUrl` and `baseHref` (see examples below)

Example to configure Taiga in **subdomain**:

```
{
  "api": "https://taiga.mycompany.com/api/v1/",
  "eventsUrl": "wss://taiga.mycompany.com/events",
  "baseHref": "/",
  ...
}
```

Example to configure Taiga in **subpath**:

```
{
  "api": "https://mycompany.com/taiga/api/v1/",
  "eventsUrl": "wss://mycompany.com/taiga/events",
  "baseHref": "/taiga/",
  ...
}
```

Check as well the rest of the configuration if you need to enable some advanced features.

Map the file into `/usr/share/nginx/html/conf.json`.

1.7. Configure an admin user

```
$ docker compose up -d

$ docker compose -f docker-compose.yml -f docker-compose-inits.yml run --rm taiga-
manage createsuperuser
```

1.8. Up and running

Once everything has been installed, launch all the services and check the result:

```
$ docker compose up -d
```

1.9. Configure the proxy

Your host configuration needs to make a proxy to <http://localhost:9000>.

If Taiga is being served in a **subdomain**:

```

server {
    server_name taiga.mycompany.com;

    location / {
        proxy_set_header Host $http_host;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_set_header X-Scheme $scheme;
        proxy_set_header X-Forwarded-Proto $scheme;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy_redirect off;
        proxy_pass http://localhost:9000/;
    }

    # Events
    location /events {
        proxy_pass http://localhost:9000/events;
        proxy_http_version 1.1;
        proxy_set_header Upgrade $http_upgrade;
        proxy_set_header Connection "upgrade";
        proxy_set_header Host $host;
        proxy_connect_timeout 7d;
        proxy_send_timeout 7d;
        proxy_read_timeout 7d;
    }

    # TLS: Configure your TLS following the best practices inside your company
    # Logs and other configurations
}

```

If Taiga is being served in a **subpath** instead of a subdomain, the configuration should be something like:

```

server {
    server_name mycompany.com;

    location /taiga/ {
        proxy_set_header Host $http_host;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_set_header X-Scheme $scheme;
        proxy_set_header X-Forwarded-Proto $scheme;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy_redirect off;
        proxy_pass http://localhost:9000/;
    }

    # Events
    location /taiga/events {
        proxy_pass http://localhost:9000/events;
        proxy_http_version 1.1;
        proxy_set_header Upgrade $http_upgrade;
        proxy_set_header Connection "upgrade";
        proxy_set_header Host $host;
        proxy_connect_timeout 7d;
        proxy_send_timeout 7d;
        proxy_read_timeout 7d;
    }

    # TLS: Configure your TLS following the best practices inside your company
    # Logs and other configurations
}

```

1.10. Change between subpath and subdomain

If you're changing Taiga configuration from default subdomain (<https://taiga.mycompany.com>) to subpath (<http://mycompany.com/subpath>) or vice versa, on top of adjusting the configuration as said above, you should consider changing the TAIGA_SECRET_KEY so the refresh works properly for the end user.

2. From source code

2.1. Introduction

This document explains how to deploy a full Taiga service for a production environment. A Taiga service consists of multiple Taiga modules which altogether make the Taiga platform.

The standard Taiga platform consists of several modules, and each one has its own dependencies both at compile time and runtime:

- **taiga-back** (API)

- **taiga-async-tasks** (async tasks, like bulk email or exports generation)
- **taiga-front-dist** (frontend)
- **taiga-events** (websockets gateway)
- **taiga-protected** (protected attachments)

Each module can be run on a unique machine or all of them can be installed to a different machine as well. In this tutorial we will setup everything on a single machine. This type of setup should suffice for small/medium production environments with low traffic.

2.2. Pre-requisites

- A clean, recently updated **Ubuntu 20.04** image
- At least 1GB RAM
- At least 20GB of free storage
- TLS certificate to serve Taiga with HTTPS

Taiga installation must be done with a "regular" user, never with root!

During the tutorial, the following conditions are assumed:

- **IP:** 80.88.23.45
- **Hostname:** taiga.mycompany.com (which points to 80.88.23.45)
- **Username:** taiga
- **Working directory:** /home/taiga/ (default for user taiga)

2.3. Dependencies

The typical Taiga setup described in this documentation depends on the following standalone major software installed separately from Taiga:

- [Python 3](#) - taiga-back, taiga-async and taiga-protected (Python ≥ 3.8 , < 3.12)
- [Node.js](#) - taiga-events
- [NGINX](#) - web server and reverse proxy
- [PostgreSQL](#) - database (PostgreSQL ≥ 9.4 , < 14)
- [RabbitMQ](#) - message broker, for taiga-async and taiga-events

2.4. Install System Dependencies

Install the following dependencies:

```
sudo apt-get update
sudo apt-get install -y build-essential binutils-doc autoconf flex bison libjpeg-dev
sudo apt-get install -y libfreetype6-dev zlib1g-dev libzmq3-dev libgdbm-dev
libncurses5-dev
sudo apt-get install -y automake libtool curl git tmux gettext
sudo apt-get install -y nginx
sudo apt-get install -y rabbitmq-server
```

Install PostgreSQL and remember to start the database server:

```
sudo apt-get install -y postgresql-12 postgresql-contrib-12 postgresql-doc-12
postgresql-server-dev-12
sudo pg_ctlcluster 12 main start
```

Python 3 must be installed along with a few third-party libraries:

```
sudo apt-get install -y python3 python3-pip python3-dev python3-venv
sudo apt-get install -y libxml2-dev libxslt-dev
sudo apt-get install -y libssl-dev libffi-dev
```

Install Node.js

```
curl -sL https://deb.nodesource.com/setup_16.x | sudo -E bash -
sudo apt-get install -y nodejs
```

2.5. Create a user **taiga**

*Create a user with root privileges named **taiga**:*

```
sudo adduser taiga
sudo adduser taiga sudo
sudo su taiga
cd ~
```



Do **not** change back to the root user (**uid=0**) at this point. Taiga deployment must be finished with the **taiga** user!

2.6. Configuring PostgreSQL and RabbitMQ

Configure PostgreSQL with the initial user and database:

```
sudo -u postgres createuser taiga --interactive --pwprompt
sudo -u postgres createdb taiga -O taiga --encoding='utf-8' --locale=en_US.utf8
--template=template0
```

Create a rabbitmquser named **taiga** and a virtualhost for RabbitMQ (taiga-events and async tasks)

```
sudo rabbitmqctl add_user rabbitmquser rabbitmqpassword
sudo rabbitmqctl add_vhost taiga
sudo rabbitmqctl set_permissions -p taiga rabbitmquser ".*" ".*" ".*"
```



As the password will be used inside the Postgresql URL later, use only web safe characters: a-z, A-Z, 0-9, and - . _ ~

2.7. Backend Setup

This section describes the installation and configuration of the **taiga-back** and **taiga-async** modules which serves the REST API endpoints and the async tasks respectively.

Get the code:

```
cd ~
git clone https://github.com/taigaio/taiga-back.git taiga-back
cd taiga-back
git checkout stable
```

Create a virtualenv:

```
python3 -m venv .venv --prompt taiga-back
source .venv/bin/activate
(taiga-back) pip install --upgrade pip wheel
```

Install all Python dependencies:

```
(taiga-back) pip install -r requirements.txt
```

Install taiga-contrib-protected:

```
(taiga-back) pip install git+https://github.com/taigaio/taiga-contrib-protected.git@stable#egg=taiga-contrib-protected
```

Settings file:

Create a **settings/config.py** file based on the example provided:

```
cp settings/config.py.prod.example settings/config.py
```

Edit **config.py** and configure:

- Taiga secret key: **it's important** to change it. It must have the same value as the secret key in **taiga-events** and **taiga-protected**

- Taiga urls: configure where Taiga would be served using `TAIGA_URL`, `SITES` and `FORCE_SCRIPT_NAME` (see examples below)
- Connection to PostgreSQL; check `DATABASES` section in the file
- Connection to RabbitMQ for `taiga-events`; check "EVENTS" section in the file
- Connection to RabbitMQ for `taiga-async`; check "TAIGA ASYNC" section in the file
- Credentials for email; check "EMAIL" section in the file
- Enable/disable anonymous telemetry; check "TELEMETRY" section in the file

Example to configure Taiga in **subdomain**:

```
TAIGA_SITES_SCHEME = "https"
TAIGA_SITES_DOMAIN = "taiga.mycompany.com"
FORCE_SCRIPT_NAME = ""
```

Example to configure Taiga in **subpath**:

```
TAIGA_SITES_SCHEME = "https"
TAIGA_SITES_DOMAIN = "taiga.mycompany.com"
FORCE_SCRIPT_NAME = "/taiga"
```

Check as well the rest of the configuration if you need to enable some advanced features.

Execute all migrations to populate the database with basic necessary initial data:

```
source .venv/bin/activate
(taiga-back) DJANGO_SETTINGS_MODULE=settings.config python manage.py migrate --noinput
# create an administrator with strong password
(taiga-back) CELERY_ENABLED=False DJANGO_SETTINGS_MODULE=settings.config python
manage.py createsuperuser
(taiga-back) DJANGO_SETTINGS_MODULE=settings.config python manage.py loaddata
initial_project_templates
(taiga-back) DJANGO_SETTINGS_MODULE=settings.config python manage.py compilemessages
(taiga-back) DJANGO_SETTINGS_MODULE=settings.config python manage.py collectstatic
--noinput
```

OPTIONAL: If you would like to have some example data loaded into Taiga, execute the following command to populate the database with sample projects and random data (useful for demos):

```
(taiga-back) CELERY_ENABLED=False DJANGO_SETTINGS_MODULE=settings.config python
manage.py sample_data
```

Verification

To make sure that everything works, execute the following commands to run the backend in development mode for a quick test:

```
source .venv/bin/activate
(taiga-back) DJANGO_SETTINGS_MODULE=settings.config python manage.py runserver
```

Open your browser at <http://localhost:8000/api/v1/>. If your configuration is correct, you will see a JSON representation of REST API endpoints. Open your browser at <http://localhost:8000/admin/> and log-in with your admin credentials. Stop the development server (Ctrl+C) before continuing.

2.8. Frontend Setup

This section describes the installation and configuration of the **taiga-front** module which serves the frontend application.

Get the code

```
cd ~
git clone https://github.com/taigaio/taiga-front-dist.git taiga-front-dist
cd taiga-front-dist
git checkout stable
```

Copy the example config file:

```
cp ~/taiga-front-dist/dist/conf.example.json ~/taiga-front-dist/dist/conf.json
```

Edit with your own configuration:

- Taiga urls: configure where Taiga would be served using `api`, `eventsUrl` and `baseHref` (see examples below)

Example to configure Taiga in **subdomain**:

```
{
  "api": "https://taiga.mycompany.com/api/v1/",
  "eventsUrl": "wss://taiga.mycompany.com/events",
  "baseHref": "/",
}
```

Example to configure Taiga in **subpath**:

```
{
  "api": "https://mycompany.com/taiga/api/v1/",
  "eventsUrl": "wss://mycompany.com/taiga/events",
  "baseHref": "/taiga/",
}
```

If you're using Taiga in **subpath**, you need to edit `index.html` as well; from:

```
<base href="/" />
```

To:

```
<base href="/taiga/" />
```

Check as well the rest of the configuration if you need to enable some advanced features.

2.9. Events Setup

This section provides instructions on downloading **taiga-events**, installing its dependencies and configuring it for use in production:

The **taiga-events** module is the Taiga websocket server which allows **taiga-front** to show realtime changes in the backlog, taskboard, kanban and issues listing.

Get the code:

```
cd ~
git clone https://github.com/taigaio/taiga-events.git taiga-events
cd taiga-events
git checkout stable
```

Install the required JavaScript dependencies:

```
npm install
```

*Create **.env** file based on the provided example.*

```
cp .env.example .env
```

*Update it with your RabbitMQ URL and your unique secret key. Your final **.env** should look similar to the following example:*

```
RABBITMQ_URL="amqp://rabbitmquser:rabbitmqpassword@rabbitmqhost:5672/taiga"
SECRET="taiga-back-secret-key"
WEB_SOCKET_SERVER_PORT=8888
APP_PORT=3023
```

The **secret** value in **.env** must be the same as the **SECRET_KEY** in `~/taiga-back/settings/config.py`.

2.10. Taiga protected Setup

This section describes the installation and configuration of the **taiga-protected** modules which protects the attachments from external downloads.

Get the code:

```
cd ~
git clone https://github.com/taigaio/taiga-protected.git taiga-protected
cd taiga-protected
git checkout stable
```

Create a virtualenv:

```
python3 -m venv .venv --prompt taiga-protected
source .venv/bin/activate
(taiga-protected) pip install --upgrade pip wheel
```

Install all Python dependencies:

```
(taiga-protected) pip install -r requirements.txt
```

Copy the example config file:

```
cp ~/taiga-protected/env.sample ~/taiga-protected/.env
```

Example to configure Taiga in **subdomain**:

```
MAX_AGE=360
SECRET_KEY="taiga-back-secret-key"
TAIGA_SUBPATH=""
```

Example to configure Taiga in **subpath**:

```
MAX_AGE=360
SECRET_KEY="taiga-back-secret-key"
TAIGA_SUBPATH="/taiga"
```

The `SECRET_KEY` value in `.env` must be the same as the `TAIGA_SECRET_KEY` in `~/taiga-back/settings/config.py`. The attachments will be accesible with a token during `MAX_AGE` (in seconds). After that, the token will expire.

2.11. Start Taiga

Now it's time to create the different systemd services to serve different modules of Taiga.

Create a new systemd file at `/etc/systemd/system/taiga.service` to run **taiga-back**:

```
[Unit]
Description=taiga_back
After=network.target

[Service]
User=taiga
WorkingDirectory=/home/taiga/taiga-back
ExecStart=/home/taiga/taiga-back/.venv/bin/gunicorn --workers 4 --timeout 60 --log
-level=info --access-logfile - --bind 0.0.0.0:8001 taiga.wsgi
Restart=always
RestartSec=3

Environment=PYTHONUNBUFFERED=true
Environment=DJANGO_SETTINGS_MODULE=settings.config

[Install]
WantedBy=default.target
```

Reload the systemd daemon and start the **taiga** service:

```
sudo systemctl daemon-reload
sudo systemctl start taiga
sudo systemctl enable taiga
```

To verify that the service is running, execute the following command:

```
sudo systemctl status taiga
```

Create a new systemd file at `/etc/systemd/system/taiga-async.service` to run **taiga-async**:

```
[Unit]
Description=taiga_async
After=network.target

[Service]
User=taiga
WorkingDirectory=/home/taiga/taiga-back
ExecStart=/home/taiga/taiga-back/.venv/bin/celery -A taiga.celery worker -B
--concurrency 4 -l INFO
Restart=always
RestartSec=3
ExecStop=/bin/kill -s TERM $MAINPID

Environment=PYTHONUNBUFFERED=true
Environment=DJANGO_SETTINGS_MODULE=settings.config

[Install]
WantedBy=default.target
```

Reload the systemd daemon and start the **taiga-async** service:

```
sudo systemctl daemon-reload
sudo systemctl start taiga-async
sudo systemctl enable taiga-async
```

To verify that the service is running, execute the following command:

```
sudo systemctl status taiga-async
```

Create a new systemd file at `/etc/systemd/system/taiga-events.service` to run **taiga-events**:

```
[Unit]
Description=taiga_events
After=network.target

[Service]
User=taiga
WorkingDirectory=/home/taiga/taiga-events
ExecStart=npm run start:production
Restart=always
RestartSec=3

[Install]
WantedBy=default.target
```

Reload the systemd daemon and start the **taiga-events** service:

```
sudo systemctl daemon-reload
sudo systemctl start taiga-events
sudo systemctl enable taiga-events
```

To verify that the service is running, execute the following command:

```
sudo systemctl status taiga-events
```

Create a new systemd file at `/etc/systemd/system/taiga-protected.service` to run **taiga-protected**:

```
[Unit]
Description=taiga_protected
After=network.target

[Service]
User=taiga
WorkingDirectory=/home/taiga/taiga-protected
ExecStart=/home/taiga/taiga-protected/.venv/bin/gunicorn --workers 4 --timeout 60
--log-level=info --access-logfile - --bind 0.0.0.0:8003 server:app
Restart=always
RestartSec=3

Environment=PYTHONUNBUFFERED=true

[Install]
WantedBy=default.target
```

Reload the systemd daemon and start the **taiga-protected** service:

```
sudo systemctl daemon-reload
sudo systemctl start taiga-protected
sudo systemctl enable taiga-protected
```

To verify that the service is running, execute the following command:

```
sudo systemctl status taiga-protected
```

2.12. Expose Taiga with NGINX

The recommended way to serve Taiga is to use NGINX proxy server.

Remove the default NGINX config file to avoid collision with Taiga:

```
sudo rm /etc/nginx/sites-enabled/default
```

Create the logs folder (mandatory)

```
mkdir -p ~/logs
```

Create and edit the `/etc/nginx/conf.d/taiga.conf` file as follows, choosing between serving Taiga in a **subdomain** or in a **subpath**.

Configure NGINX for Taiga in a subdomain,

```
server {
    listen 80 default_server;
    server_name taiga.mycompany.com;
    return 301 https://$server_name$request_uri;
}

server {
    listen 443 default_server;
    server_name taiga.mycompany.com; # See
    http://nginx.org/en/docs/http/server_names.html

    large_client_header_buffers 4 32k;
    client_max_body_size 50M;
    charset utf-8;

    access_log /home/taiga/logs/nginx.access.log;
    error_log /home/taiga/logs/nginx.error.log;

    # TLS: Configure your TLS following the best practices inside your company
    # Other configurations

    # Frontend
    location / {
        alias /home/taiga/taiga-front-dist/dist/;
        index index.html;
        try_files $uri $uri/ index.html =404;
    }

    # API
    location /api/ {
        proxy_set_header Host $http_host;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_set_header X-Scheme $scheme;
        proxy_set_header X-Forwarded-Proto $scheme;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy_pass http://127.0.0.1:8001/api/;
        proxy_redirect off;
    }

    # Admin
    location /admin/ {
```



```

    proxy_set_header Host $http_host;
    proxy_set_header X-Real-IP $remote_addr;
    proxy_set_header X-Scheme $scheme;
    proxy_set_header X-Forwarded-Proto $scheme;
    proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
    proxy_pass http://127.0.0.1:8001/admin/;
    proxy_redirect off;
}

# Static files
location /static/ {
    alias /home/taiga/taiga-back/static/;
}

# Media
location /_protected/ {
    internal;
    alias /home/taiga/taiga-back/media/;
    add_header Content-disposition "attachment";
}

# Unprotected section
location /media/exports/ {
    alias /home/taiga/taiga-back/media/exports/;
    add_header Content-disposition "attachment";
}

location /media/ {
    proxy_set_header Host $http_host;
    proxy_set_header X-Real-IP $remote_addr;
    proxy_set_header X-Scheme $scheme;
    proxy_set_header X-Forwarded-Proto $scheme;
    proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
    proxy_pass http://127.0.0.1:8003/;
    proxy_redirect off;
}

# Events
location /events {
    proxy_http_version 1.1;
    proxy_set_header Upgrade $http_upgrade;
    proxy_set_header Connection "upgrade";
    proxy_connect_timeout 7d;
    proxy_send_timeout 7d;
    proxy_read_timeout 7d;
    proxy_pass http://127.0.0.1:8888/events;
}
}

```

```

server {
    listen 80 default_server;
    server_name mycompany.com;
    return 301 https://$server_name$request_uri;
}

server {
    listen 443 default_server;
    server_name mycompany.com; # See http://nginx.org/en/docs/http/server_names.html

    large_client_header_buffers 4 32k;
    client_max_body_size 50M;
    charset utf-8;

    access_log /home/taiga/logs/nginx.access.log;
    error_log /home/taiga/logs/nginx.error.log;

    # TLS: Configure your TLS following the best practices inside your company
    # Other configurations

    # Frontend
    location /taiga/ {
        alias /home/taiga/taiga-front-dist/dist/;
        index index.html;
        try_files $uri $uri/ index.html =404;
    }

    # API
    location /taiga/api/ {
        proxy_set_header Host $http_host;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_set_header X-Scheme $scheme;
        proxy_set_header X-Forwarded-Proto $scheme;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy_pass http://127.0.0.1:8001/api/;
        proxy_redirect off;
    }

    # Admin
    location /taiga/admin/ {
        proxy_set_header Host $http_host;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_set_header X-Scheme $scheme;
        proxy_set_header X-Forwarded-Proto $scheme;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy_pass http://127.0.0.1:8001/admin/;
        proxy_redirect off;
    }

    # Static files

```

```

location /taiga/static/ {
    alias /home/taiga/taiga-back/static/;
}

# Media
location /taiga/_protected/ {
    internal;
    alias /home/taiga/taiga-back/media/;
    add_header Content-disposition "attachment";
}

# Unprotected section
location /taiga/media/exports/ {
    alias /home/taiga/taiga-back/media/exports/;
    add_header Content-disposition "attachment";
}

location /taiga/media/ {
    proxy_set_header Host $http_host;
    proxy_set_header X-Real-IP $remote_addr;
    proxy_set_header X-Scheme $scheme;
    proxy_set_header X-Forwarded-Proto $scheme;
    proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
    proxy_pass http://127.0.0.1:8003/;
    proxy_redirect off;
}

# Events
location /taiga/events {
    proxy_http_version 1.1;
    proxy_set_header Upgrade $http_upgrade;
    proxy_set_header Connection "upgrade";
    proxy_connect_timeout 7d;
    proxy_send_timeout 7d;
    proxy_read_timeout 7d;
    proxy_pass http://127.0.0.1:8888/events;
}
}

```

Execute the following command to verify the NGINX configuration and to track any error in the service:

```
sudo nginx -t
```

Finally, restart the `nginx` service:

```
sudo systemctl restart nginx
```

Restart all Taiga services after updating the configuration:

```
sudo systemctl restart 'taiga*'
```

Now you should have the service up and running on: <https://taiga.mycompany.com/> or <https://mycompany.com/taiga>.

2.13. Other methods to expose Taiga

Caddy server

It's possible to serve Taiga (in a subdomain) with Caddy as well, following the next guides:

- install caddy >= 2.4.1
- create a symlink from `media` to `_protected`

```
cd ~/taiga-back  
ln -s media/ _protected
```

- use a Caddyfile based on [this](#)

2.14. Extend Taiga

With this installation, you have access to a fair amount of features of Taiga. However, you may want to extend it with other functionalities or plugins, such Slack integration or login with Github. To extend Taiga, check all the available options at <https://community.taiga.io/t/how-to-extend-taiga/160>.

2.15. Troubleshooting

If you face any issue during or after installing Taiga, please check the content of the following files:

- `/etc/nginx/conf.d/taiga.conf`
- `/etc/systemd/system/taiga.service`
- `/etc/systemd/system/taiga-async.service`
- `/etc/systemd/system/taiga-events.service`
- `/etc/systemd/system/taiga-protected.service`
- `/home/taiga/taiga-back/settings/config.py`
- `/home/taiga/taiga-front-dist/dist/conf.json`
- `/home/taiga/taiga-events/.env`
- `/home/taiga/taiga-protected/.venv`
- The result of command `sudo systemctl status 'taiga*'`

Execute the following commands to check the status of services used by Taiga:

```
sudo systemctl status nginx  
sudo systemctl status rabbitmq-server  
sudo systemctl status postgresql
```

Check If you see any error in the service statuses and make sure all service status is **Active: active (running)**.