Setup & Configuration

We need to install the service through Portainer and configure any necessary settings.

- Preparation
- Installation
- Updating

Preparation

There are some things we need to do in preparation to install this service.

Volumes

Persistent Data

This is where the service will store its own application data and ensures we can quickly update the service image.

> Ensure your user has permissions to access the folder.

Environment

DB_USER

This is the user name that will be used behind the scenes to log into the database.

> *For example:* fider_admin

BASE_URL

This is the URL that the service will be hosted and accessible through.

> *For example:* fider.example.com

EMAIL_NOREPLY

This is the email address that will be attached to email notifications and should not be replied to because the inbox is not monitored or is non existent.

> *For example:* noreply@fider.example.com

EMAIL_SMTP_HOST

This is the host address of your email server.

> *For example:* smtp.gmail.com

EMAIL_SMTP_PORT

This is the port used by your email server.

> *For example:* 587

EMAIL_SMTP_USERNAME

This is the account user name used by your email server.

> *For example:* example@gmail.com

EMAIL_SMTP_ENABLE_STARTTLS

This enables StartTLS, which is used by the email server to upgrade insecure connections to one using TLS or SSL.

> *Recommended:* true

Passwords

> Keep these securely stored in a password manager, such asVaultWarden.

DB_PASS

This is the password that will be used for root access to the database.

> It is important to use secure, randomly generated password.

You can use a random alphanumeric string from a password manager, or open the terminal and run the command:

```
tr -dc 'A-Za-z0-9!"#$%&'\''()*+,-./:;<=>?@[\]^_`{|}~' </dev/urandom | head -c 32; echo
```

This pulls a random string from the 'urandom' device, removes unwanted characters and trim it to an appropriate length.

JWT_SECRET

This is the secret that will be used for validating users who are logged into the service.

> It is important to use secure, randomly generated token.

You can use a random alphanumeric string from a password manager, or open the terminal and run the command:

```
tr -dc 'A-Za-z0-9!' </dev/urandom | head -c 32; echo
```

This pulls a random string from the 'urandom' device, removes unwanted characters and trim it to an appropriate length.

EMAIL_SMTP_PASSWORD

This is the password for logging into your email account for sending administrative notifications.

> When possible, you should use app passwords.

Installation

The service can be installed through the Portainer web interface.

> Learn about creating a new stack.

Docker Compose

Use the following code to install the service:

```
---
services:
  db:
    restart: always
    image: postgres:12
    volumes:
      - /srv/fider/db:/var/lib/postgresql/data
    environment:
      POSTGRES_USER: ${DB_USER}
      POSTGRES_PASSWORD: ${DB_PASS}
  fider:
    restart: always
    image: getfider/fider:stable
    ports:
      - "3380:3000"
    environment:
      BASE_URL: ${BASE_URL}
      DATABASE_URL: ${DB_URL}
      JWT_SECRET: ${JWT_SECRET}
      EMAIL_NOREPLY: ${EMAIL_NOREPLY}
      EMAIL_SMTP_HOST: ${EMAIL_SMTP_HOST}
      EMAIL_SMTP_PORT: ${EMAIL_SMTP_PORT}
      EMAIL_SMTP_USERNAME: ${EMAIL_SMTP_USERNAME}
```

```
      EMAIL_SMTP_PASSWORD: ${EMAIL_SMTP_PASSWORD}
      EMAIL_SMTP_ENABLE_STARTTLS: ${EMAIL_SMTP_ENABLE_STARTTLS}
```

Environment

Use the following environment to configure the service using the values prepared earlier:

```
DB_USER=
DB_PASS=
BASE_URL=
DATABASE_URL=postgres://fider:${DB_PASS}@db:5432/fider?sslmode=disable
JWT_SECRET=
EMAIL_NOREPLY=
EMAIL_SMTP_HOST=
EMAIL_SMTP_PORT=
EMAIL_SMTP_USERNAME=
EMAIL_SMTP_PASSWORD=
EMAIL_SMTP_ENABLE_STARTTLS=
```

Updating

> Backup and Re-Deploy the Stack

This service has been optimized for running in Docker.

This allows you to re-deploy the stack through Portainer to download the latest updates.

It is highly recommended that you manual backup data before installing any updates in the event that there are upgrade errors.