CTFa

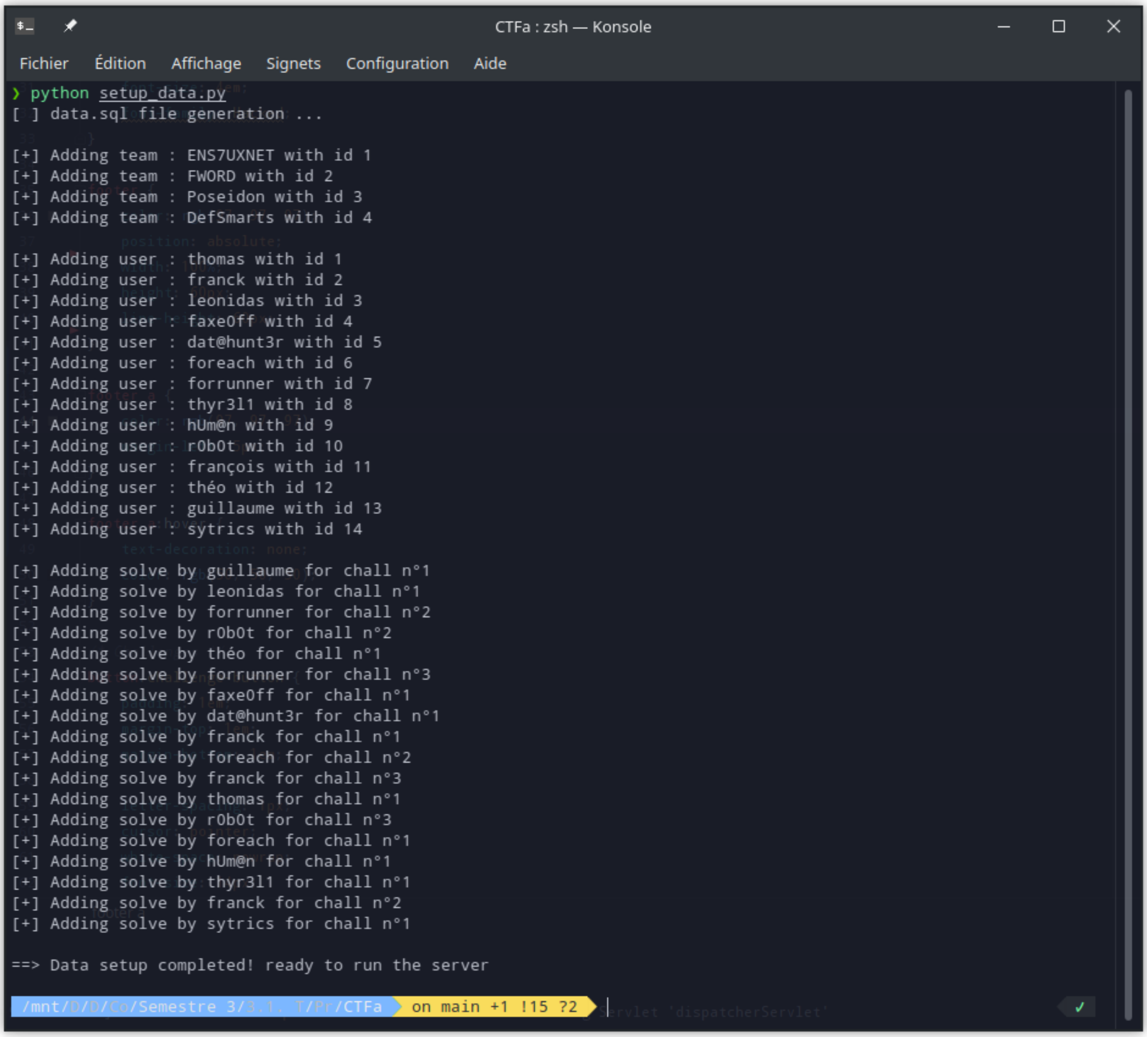
A platform to manage and organize a jeopardy-style CTF.

Dummy data setup

In order to try the project and make it run with dummy random data, `cd` in the project folder then run :

```
python setup_data.py
```

If everything went fine you should be presented with a similar result :



```
❯ python setup_data.py
[ ] data.sql file generation ...

[+] Adding team : ENS7UXNET with id 1
[+] Adding team : FWORD with id 2
[+] Adding team : Poseidon with id 3
[+] Adding team : DefSmarts with id 4

[+] Adding user : thomas with id 1
[+] Adding user : franck with id 2
[+] Adding user : leonidas with id 3
[+] Adding user : faxe0ff with id 4
[+] Adding user : dat@hunt3r with id 5
[+] Adding user : foreach with id 6
[+] Adding user : forrunner with id 7
[+] Adding user : thyr3l1 with id 8
[+] Adding user : hUm@n with id 9
[+] Adding user : r0b0t with id 10
[+] Adding user : françois with id 11
[+] Adding user : théo with id 12
[+] Adding user : guillaume with id 13
[+] Adding user : sytrics with id 14

[+] Adding solve by guillaume for chall n°1
[+] Adding solve by leonidas for chall n°1
[+] Adding solve by forrunner for chall n°2
[+] Adding solve by r0b0t for chall n°2
[+] Adding solve by théo for chall n°1
[+] Adding solve by forrunner for chall n°3
[+] Adding solve by faxe0ff for chall n°1
[+] Adding solve by dat@hunt3r for chall n°1
[+] Adding solve by franck for chall n°1
[+] Adding solve by foreach for chall n°2
[+] Adding solve by franck for chall n°3
[+] Adding solve by thomas for chall n°1
[+] Adding solve by r0b0t for chall n°3
[+] Adding solve by foreach for chall n°1
[+] Adding solve by hUm@n for chall n°1
[+] Adding solve by thyr3l1 for chall n°1
[+] Adding solve by franck for chall n°2
[+] Adding solve by sytrics for chall n°1

==> Data setup completed! ready to run the server

/mnt/D/D/Co/Semestre 3/3.1. T/Pr/CTFa  on main +1 !15 ?2                    ✓
```

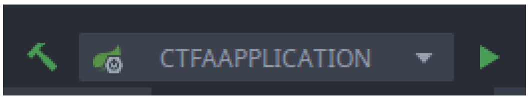
This script is made to generate a populating script for the H2 database. The only thing left to do is to run the project.

> Note : this script creates random and semi-random data. If the results in the scoreboard are not good enough just run this script again and reload the server

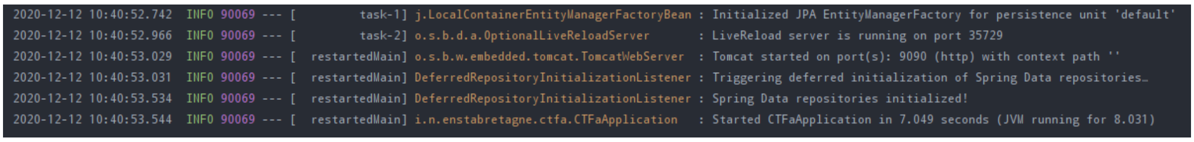
Starting the server

Using IntelliJ IDEA

The easiest way to start the project is to open it with IntelliJ IDEA. Then as there is already a `.idea` folder with the configuration you only have to click on the green arrow to start the server :



Once you see those lines :



```
2020-12-12 10:40:52.742  INFO 90069 --- [         task-1] j.LocalContainerEntityManagerFactoryBean : Initialized JPA EntityManagerFactory for persistence unit 'default'
2020-12-12 10:40:52.966  INFO 90069 --- [         task-2] o.s.b.d.a.OptionalLiveReloadServer       : LiveReload server is running on port 35729
2020-12-12 10:40:53.029  INFO 90069 --- [  restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer  : Tomcat started on port(s): 9090 (http) with context path ''
2020-12-12 10:40:53.031  INFO 90069 --- [  restartedMain] DeferredRepositoryInitializationListener : Triggering deferred initialization of Spring Data repositories…
2020-12-12 10:40:53.534  INFO 90069 --- [  restartedMain] DeferredRepositoryInitializationListener : Spring Data repositories initialized!
2020-12-12 10:40:53.544  INFO 90069 --- [  restartedMain] i.n.enstabretagne.ctfa.CTFaApplication   : Started CTFaApplication in 7.049 seconds (JVM running for 8.031)
```

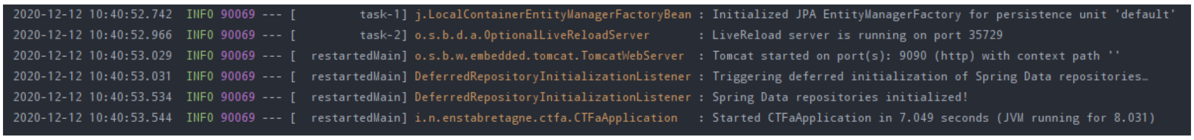
you are ready to go!

Using the CLI

Using the command line interface, you need to have maven installed. `cd` into the project folder. Then you need to clean the build folder, package the app and then run the server :

```
mvn clean
mvn package
java -jar target/ctfa-0.0.1-SNAPSHOT.jar
```

Once you see those lines :

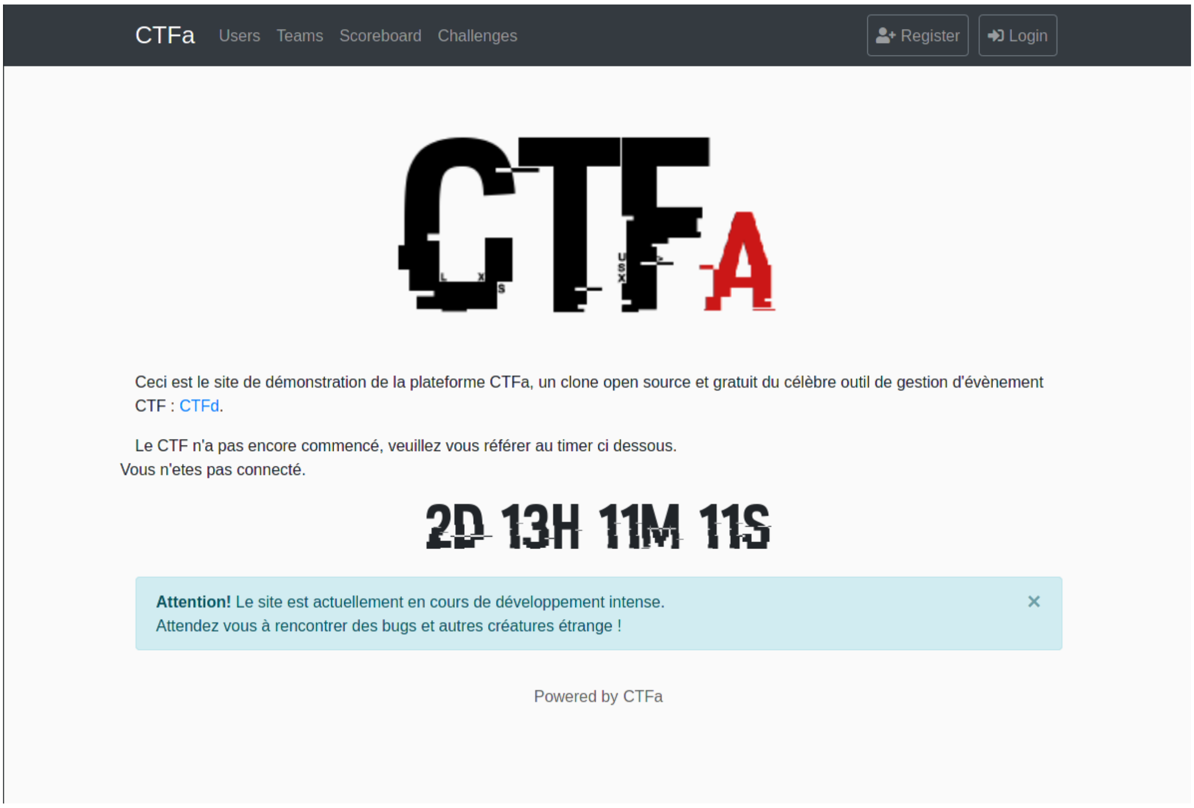


```
2020-12-12 10:40:52.742  INFO 90069 --- [         task-1] j.LocalContainerEntityManagerFactoryBean : Initialized JPA EntityManagerFactory for persistence unit 'default'
2020-12-12 10:40:52.966  INFO 90069 --- [         task-2] o.s.b.d.a.OptionalLiveReloadServer       : LiveReload server is running on port 35729
2020-12-12 10:40:53.029  INFO 90069 --- [  restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer  : Tomcat started on port(s): 9090 (http) with context path ''
2020-12-12 10:40:53.031  INFO 90069 --- [  restartedMain] DeferredRepositoryInitializationListener : Triggering deferred initialization of Spring Data repositories…
2020-12-12 10:40:53.534  INFO 90069 --- [  restartedMain] DeferredRepositoryInitializationListener : Spring Data repositories initialized!
2020-12-12 10:40:53.544  INFO 90069 --- [  restartedMain] i.n.enstabretagne.ctfa.CTFaApplication   : Started CTFaApplication in 7.049 seconds (JVM running for 8.031)
```

you are ready to go!

Reaching the frontend

Once the server (backend) has started you may reach the index page on the following link : http://localhost:9090/.



Ceci est le site de démonstration de la plateforme CTFa, un clone open source et gratuit du célèbre outil de gestion d'évènement CTF : CTFd.

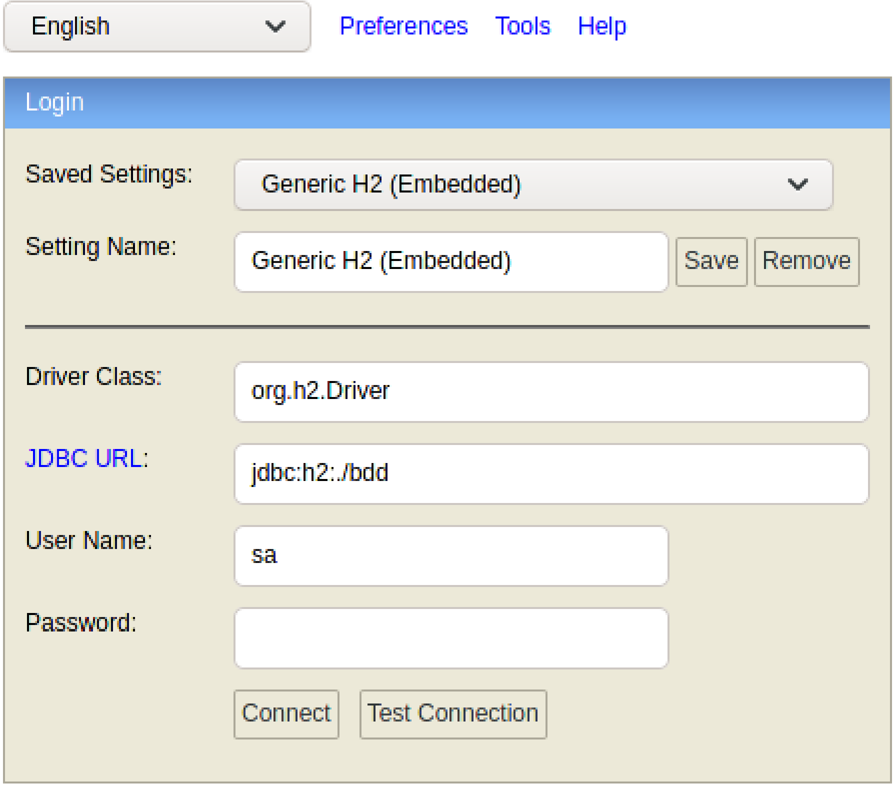
Le CTF n'a pas encore commencé, veuillez vous référer au timer ci dessous.
Vous n'etes pas connecté.

2D 13H 11M 11S

Attention! Le site est actuellement en cours de développement intense.
Attendez vous à rencontrer des bugs et autres créatures étrange !

Powered by CTFa

And as the project uses an H2 database you may access the h2 console on the following link: http://localhost:9090/h2/. You then can login using the following parameters :



Saved Settings: Generic H2 (Embedded)
Setting Name: Generic H2 (Embedded)
Driver Class: org.h2.Driver
JDBC URL: jdbc:h2:./bdd
User Name: sa
Password:

```
Driver class: org.h2.Driver
JDBC URL: jdvc:h2:./bdd
User Name: sa
Password: (empty)
```

The h2 console allow the sysadmin to check the content of the database.

Default accounts

Every account on this project have the following password : `123456789`.

Moreover there is two other accounts to try the rights system with an `user` and an `admin` account with the following credentials :

```
username: user
password: user

username: admin
password: admin
```