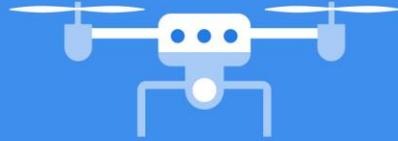


DEVCON#11



23 SEPTEMBRE 2021 – SPECIALE
.NET PROGRAMMEZ!
Le magazine des développeurs

DEVCON#11 : MERCI À NOS PARTENAIRES !

PROGRAMMEZ!
Le magazine des développeurs

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{ EPITECH. }
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LA
MANUFACTURE
CACD2

Kaïbee



De la DEV à la PROD avec Jhipster.NET



@nicoraymond01



nicolas63

Qui suis-je ?

Tech lead CGI

Intervenant à l'IUT Clermont

Membre MugIn Clermont





1. C'est quoi Jhipster ?



JHipster

- ◎ Générateur d'application web (Angular + Spring Boot)
- ◎ Accélérer les développements
- ◎ Prêt pour la production
- ◎ Montrer les bonnes pratiques de développement



◎ Énorme projet open source



◎ Environ 500 contributeurs

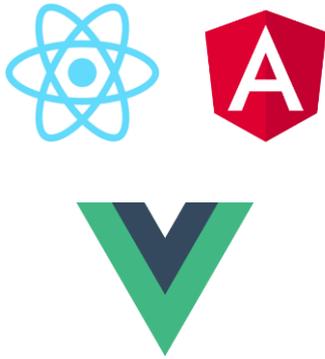
◎ Budget annuel 100k grâce aux sponsors

◎ Pour les évènements

◎ Pour les dev <3 avec un programme de bug bounty

◎ Protéger la marque

Front

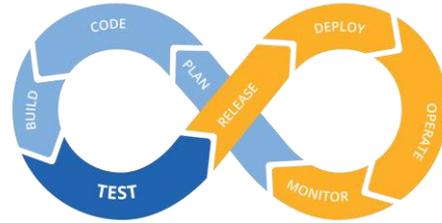
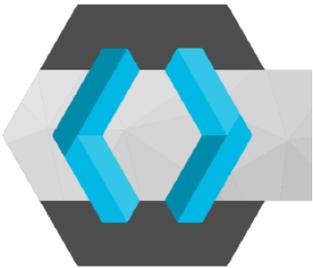


Back



BDD





```
npm
Microsoft Windows [Version 10.0.18362.778]
(c) 2019 Microsoft Corporation. All rights reserved.
```

```
C:\my-project>jhipster
INFO! Using JHipster version installed globally
INFO! Running default command
INFO! Executing jhipster:app
INFO! Options: from-cli: true
```

JHIPSTER

<https://www.jhipster.tech>

Welcome to JHipster v6.2.0
Application files will be generated in folder: C:\my-project

Documentation for creating an application is at <https://www.jhipster.tech/creating-an-app/>
If you find JHipster useful, consider sponsoring the project at <https://opencollective.com/generator-jhipster>

JHipster update available: 6.8.0 (current: 6.2.0)

Run `npm install -g generator-jhipster` to update.

```
? Which *type* of application would you like to create? Monolithic application (recommended for simple projects)
? What is the base name of your application? myproject
? What is your default Java package name? com.myproject
? Do you want to use the JHipster Registry to configure, monitor and scale your application? No
? Which *type* of authentication would you like to use? JWT authentication (stateless, with a token)
? Which *type* of database would you like to use? SQL (H2, MySQL, MariaDB, PostgreSQL, Oracle, MSSQL)
? Which *production* database would you like to use? PostgreSQL
? Which *development* database would you like to use? H2 with disk-based persistence
? Do you want to use the Spring cache abstraction? Yes, with the Hazelcast implementation (distributed cache, for multiple nodes, supports rate-limiting for gateway applications)
? Do you want to use Hibernate 2nd level cache? Yes
? Would you like to use Maven or Gradle for building the backend? Maven
? Which other technologies would you like to use? (Press <space> to select, <a> to toggle all, <i> to invert selection)
? Which *Framework* would you like to use for the client? React
? Would you like to use a Bootswatch theme (https://bootswatch.com/)? Default JHipster
? Would you like to enable internationalization support? Yes
? Please choose the native language of the application English
? Please choose additional languages to install Serbian
? Besides JUnit and Jest, which testing frameworks would you like to use? Cucumber, Protractor
? Would you like to install other generators from the JHipster Marketplace? No
```

```
Installing languages: en, sr
Git repository initialized.
Generating 2,048 bit RSA key pair and self-signed certificate (SHA256withRSA) with a validity of 99,999 days
for: CN=Java Hipster, OU=Development, O=com.myproject, L=, ST=, C=
```

```
KeyStore 'src/main/resources/config/tls/keystore.p12' generated successfully.
```

```
create .prettierrc
```



2. Et Jhipster.NET ?

JHipster

- Système de blueprint et de modules
- Blueprint officiel :
 - Kotlin
 - .NET
 - Node.js
 - Quarkus
 - Micronaut (équipe micronaut)
 - Ionic (okta)
- Go, Svelte, React Native (WIP)

JHipster

- Quelques modules :
 - Multi tenant
 - Kafka
 - Pulsar
 - Pleins de modules sur du changement UI

Avantages des blueprint ?

- ◎ Profite du code non surchargé (ex : front,tools,etc)
- ◎ Programme bug bounty
- ◎ Communauté

Front



Back



BDD





DEMO

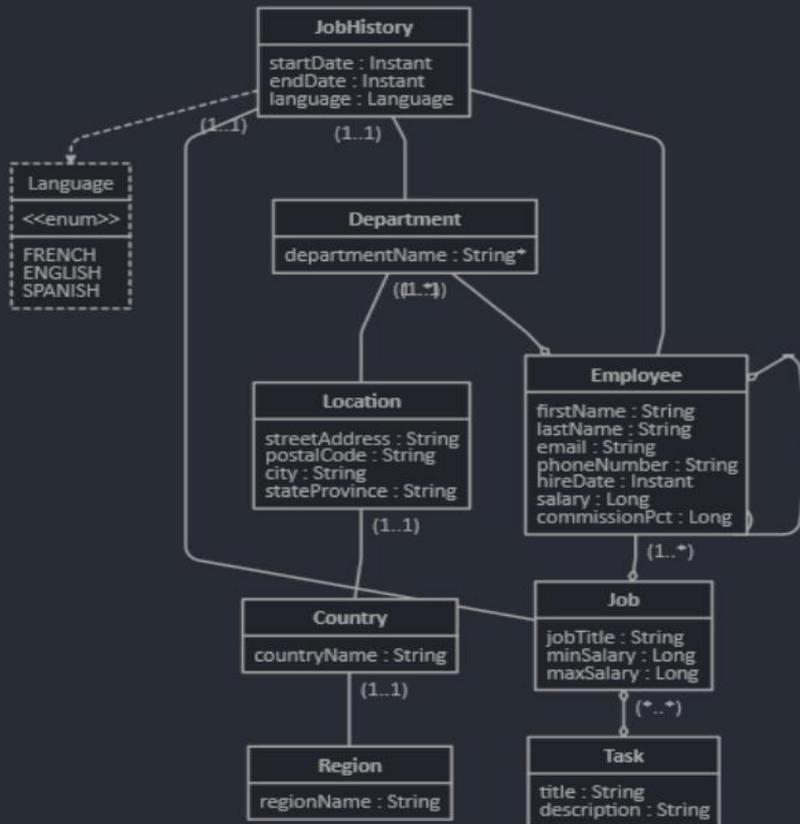
Génération des entités

- ◎ Génération des entités :
 - En mode cli
 - En mode jdl (<https://start.jhipster.tech/jdl-studio/>)

```

1
2 entity Region {
3     regionName String
4 }
5
6 entity Country {
7     countryName String
8 }
9
10 // an ignored comment
11 /** not an ignored comment */
12 entity Location {
13     streetAddress String,
14     postalCode String,
15     city String,
16     stateProvince String
17 }
18
19 entity Department {
20     departmentName String required
21 }
22
23 /**
24  * Task entity.

```





DEMO

Pourquoi JHipster.NET ?

- ⦿ En .NET seulement de la génération par template
- ⦿ Template souvent incomplet (pas de front, pas de CI/CD, pas de dockerisation, pas de monitoring, pas de TU, pas les entités etc...)

Pourquoi JHipster.NET ?

- ⦿ Le code vous appartient
- ⦿ Montrer les bonnes pratiques dans le monde .NET
- ⦿ Permettre de se concentrer sur les vrais enjeux client

JHipster.NET

- Initié par Daniel Petisme en 2019
- Dev par un stagiaire CGI de Grenoble (2019)
- 2020 – 2021 (26 contributeurs) :
 - 4 dev qui contribuent régulièrement
2 clermontois dont 1 ancien alternant CGI,
1 bordelais (freelancer pour atos, ancien dev java qui passe à .NET à cause des licences) ,1 brésilien
 - 1 mainteneur

DEV avec JHipster.NET : Code de qualité



- ◎ Tests unitaires
- ◎ Tests d'intégration
- ◎ Tests E2E (cypress)
- ◎ Tests performance (gatling)

DEV avec JHipster.NET

- ◎ Génération d'une application type monolith
- ◎ Sécurité JWT ou OpenId connect (keycloak ou okta)
- ◎ Localisation (Toutes les langues de jhipster)
- ◎ Monitoring (influxDb, telegraph, grafana ou chronograf)
- ◎ CQRS

ET la prod ?

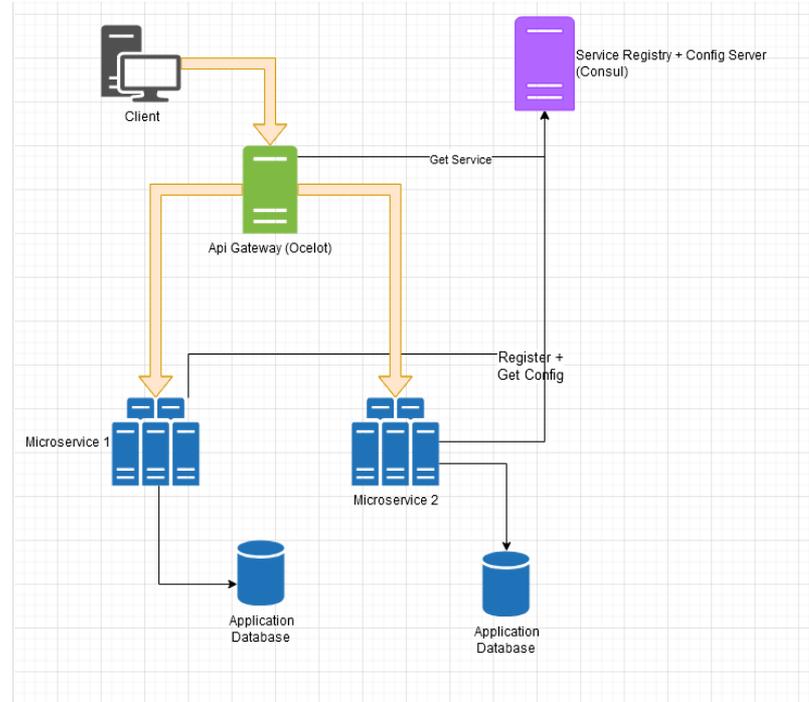
- ◎ Dockerisation de l'application avec configuration de prod
- ◎ Deploiement terraform sur azure



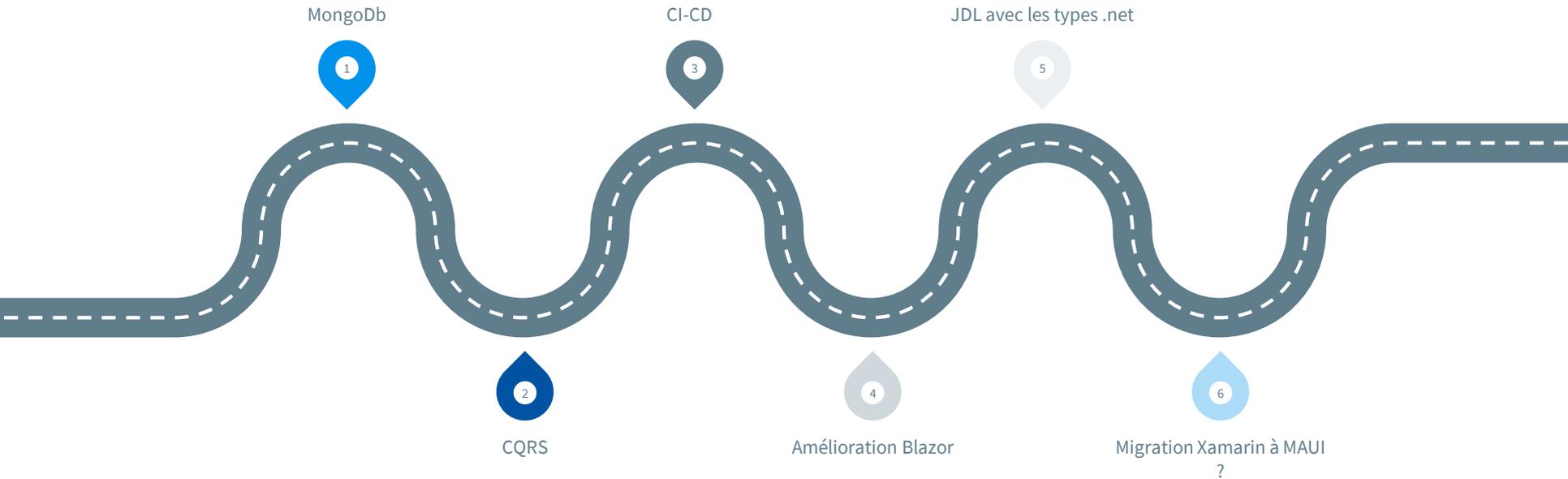
DEMO

JHipster.NET : Pour aller plus loin

- ◎ Génération d'une application type micro service (ocelot + consul)



Roadmap



Merci !

Questions?

N'oubliez pas de mettre une étoile

<https://github.com/jhipster/jhipster-dotnetcore>

