

DEPARTEMENT MATHEMATIQUES ET INFORMATIQUE

Compte rendu

Filière:

« Ingénierie Informatique : Big Data et Cloud Computing »

II-BDCC

Activité pratique N°3

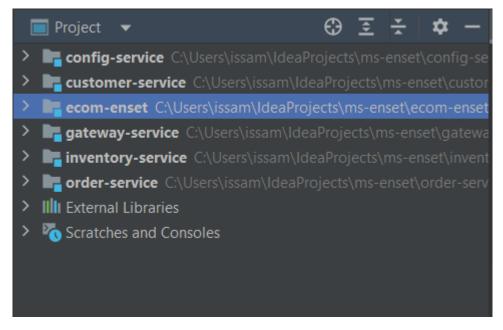
Réalisé par :

Issam AZEHAF

Année Universitaire: 2022-2023



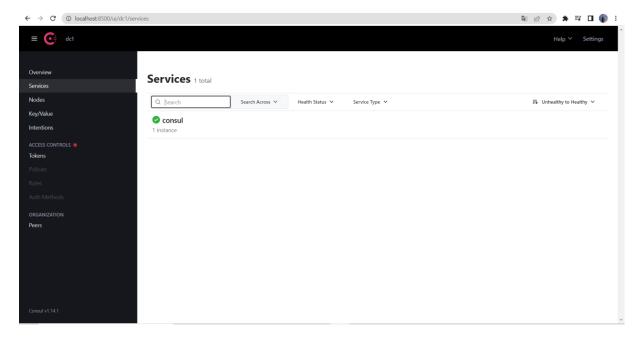
Architecture du projet :



Ecom-enset contient tous les modules ou bien les microservices dans le fichier modules.xml

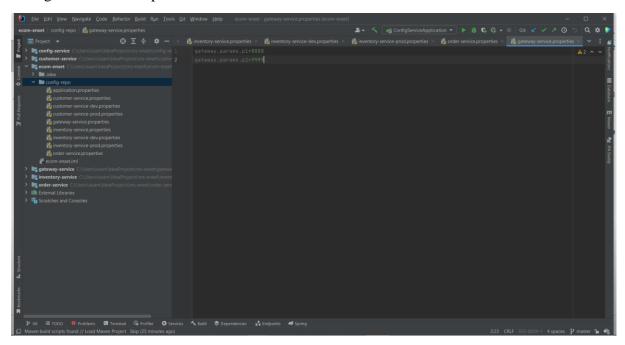
Platform consul:

Consul est un outil distribué, hautement disponible et compatible avec plusieurs centres de données pour la découverte, la configuration et l'orchestration de services. Consul permet un déploiement, une configuration et une maintenance rapides d'architectures orientées services à grande échelle





Après on ajoute le repository de la configuration pour que chaque microservice prend sa configuration de ce repo



Config-service:

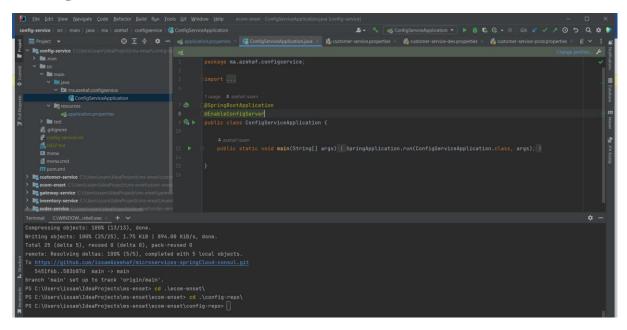


Figure 1: configServiceApplication



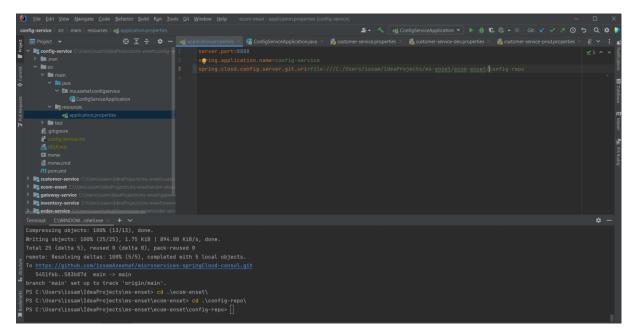
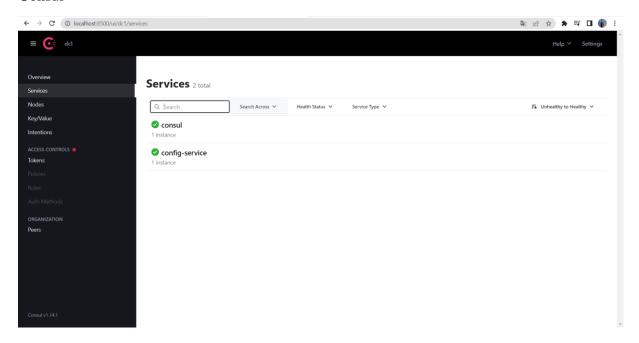


Figure 2 : Application.properties

Après on démarre notre service de configuration et on va bien qu'il est bien démmarer sur Consul



Maintenant on peut avoir toutes les configuration des micro services



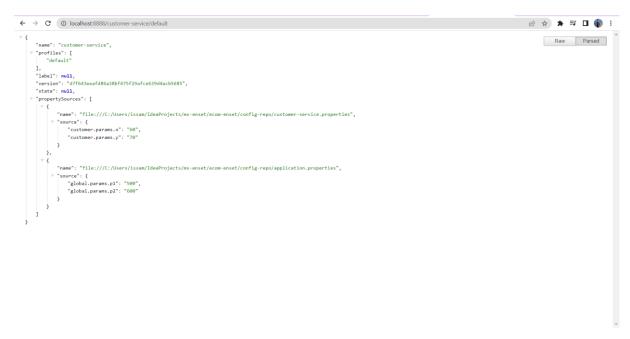


Figure 3: customer-service configuration default

Figure 4: customer-service configuration dev



Customer-service:

Tout d'abord on mettre la configuration dans le fichier customer-service .properties qui se trouve dans notre repo

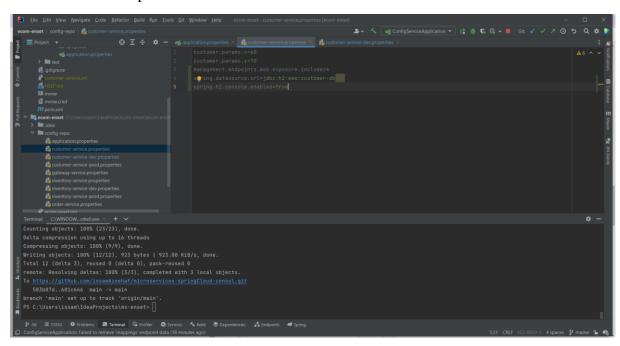


Figure 5: customer-service configuration

Après j'ai créer ma classe Customer

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Figure 6 : classe customer

Par la suite repository



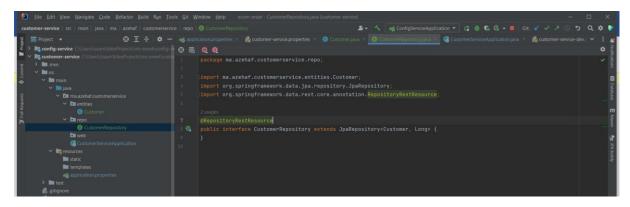


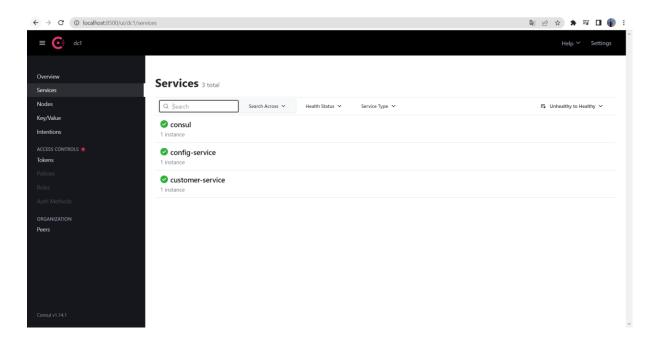
Figure 7 : customerRepository

Et dans customerServiceApplication j'ai créer quelque customer

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Lorsque j'ai demarrer le service on vosi bien qu'il est bien enregistré dans consul





La base de données a été bien créer



Figure 8 : base de données customer-db

A l'aide de spring data rest je vois bien la liste des customers

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gateway-service:



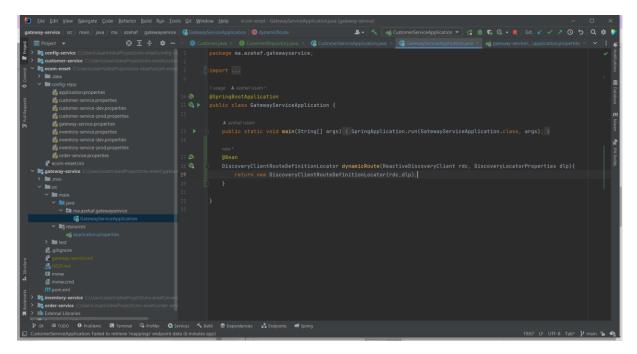


Figure 9: dynamicRoute

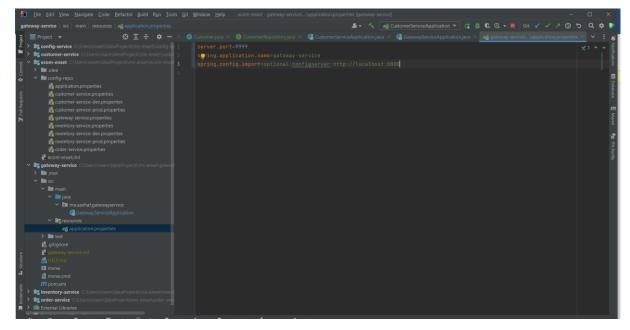
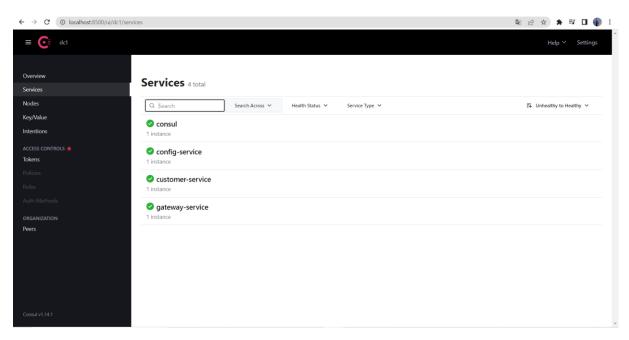


Figure 10 : application.properties

Et lorsque on demarre le service on le vois bien dans consul





Maintenant on verifie si la gateway fonctionne



Inventory-service:

tout d'abord on va créer notre entité product

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| Direct Date | Barriaghe | Code | Barbato | Barbat | Bar
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Figure 11: classe product

Après on va créer notre repository

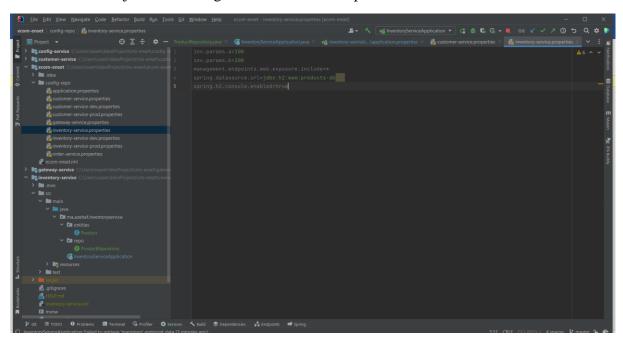
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Par la suite on va ajouter quelque enregistrement dans la base de données

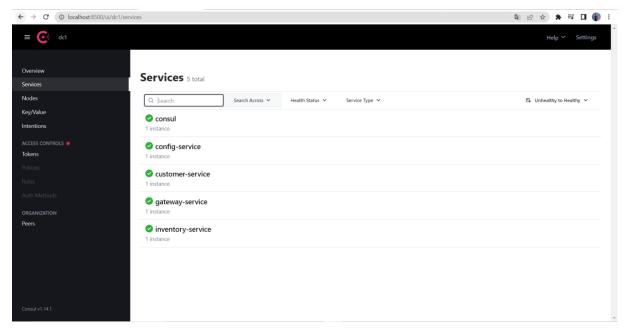
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Et ensuite on va ajouter la configuration dans notre repo



Après on démarre notre service





On vois bien qu'il est bien démarrer dans consul

Et voila on vois bien les enregistrements des produits

Maintenant on va créer une projection



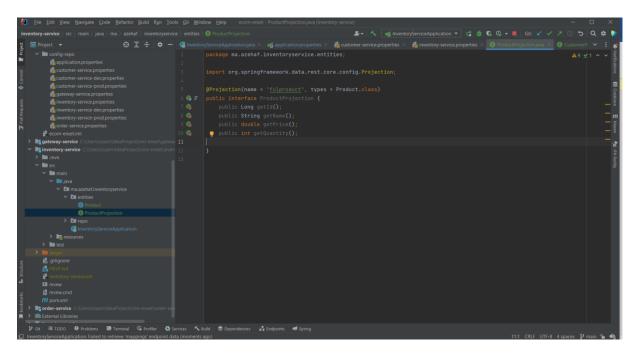


Figure 12: productProjection

Et voici la liste des produits avec projection



Order -service:

Tout d'abord on va créer les classe qu'on va utiliser

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Figure 13 : classe order

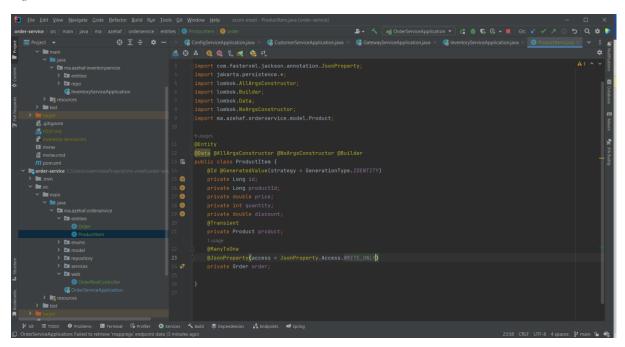
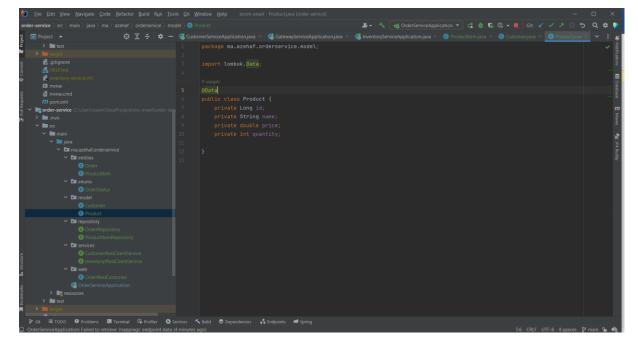


Figure 14: classe productItem



Ensuite on va créer 2 model qui contient deux classe customer et product avec que le setter et getter

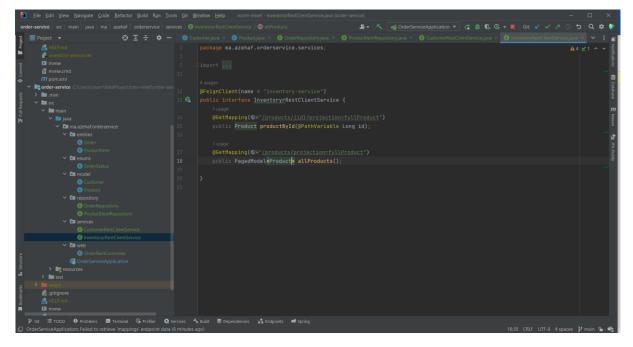
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Par la suite nos repository et nos services



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Et ensuite un package web qui contient notre controller

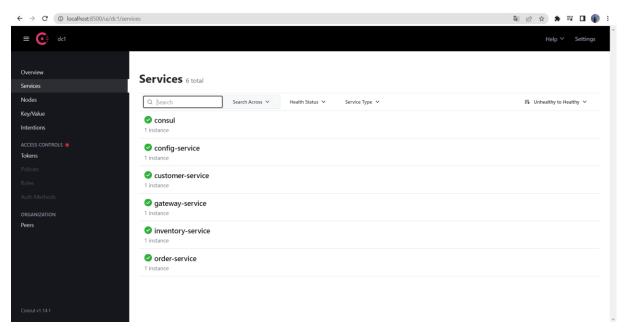


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Et enfin on va remplir nos order avec des enregistrements

Et maintenant on demarre notre order-service





On le vois sur la platform consul

Et voila lorsque on consulte un order