Microservices Deployment

## Build Jar files for each spring boot application

We need to change the application configuration file as per our requirements. Server port, Eureka and MySQL configuration details should be updated before building jars.

Execute following command for building jar:

Go to maven project directory on command prompt and execute below command:



Jar file is created in *target* directory.

## Create Dockerfile

Once jar files are created we need to create *Dockerfile* for the same.



Change the jar file name with your jar file name on 3rd line and save the file.

## Build Image

Execute below command for creating image for the *Dockerfile*.



Change file name of image as per requirement.

## Run Container

Execute below command for starting the container.



First port number represents Host port no and Second port number represents Docker port number.

***--net=host*** is used for binding container to host network directly.

## Note:

* Order of Execution of containers: Mysql -> Eureka -> Zuul -> User -> Order -> Item -> Turbine(Optional)
* Basic Authentication Credentials for API:

kpit:kpit123

* Swagger API Documentation URL:

User API: <http://localhost:7071/swagger-ui.html>

Order API: <http://localhost:7072/swagger-ui.html>

Item API: <http://localhost:7073/swagger-ui.html>

## Current URL Configurations:

|  |  |  |
| --- | --- | --- |
| Service Name | URL | Zuul-Router |
| Eureka Server | <http://localhost:9091> |  |
| Zuul Service | <http://localhost:8084> |  |
| User Service | <http://localhost:7071/users> | <http://localhost:8084/users/users> |
| Order Service | <http://localhost:7072/orders> | <http://localhost:8084/orders/orders> |
| Item Service | <http://localhost:7073/items> | <http://localhost:8084/items/items> |
| Turbine Service | <http://localhost:8089/hystrix> |  |

## Docker Executed Commands:

* MySQL Service – It should have *Dockerfile* and *sql* file



* Eureka Server – It should have *Dockerfile* and Jar file



* Zuul Service – It should have *Dockerfile* and *Jar* file



* User Service – It should have *Dockerfile* and *Jar* file



* Order Service – It should have *Dockerfile* and *Jar* file



* Item Service – It should have *Dockerfile* and *Jar* file



* Turbine Service – It should have *Dockerfile* and *Jar* file

