Comparaison entre des architectures monolithes et en microservices
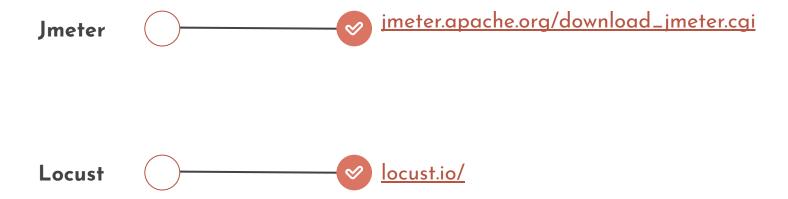
28/05/22

Objectives de TP

01 Différence entre architecture monolithes et en microservices en terme d'architecture

02 Evaluation de performance des deux systemes

Outils

Jmeter — jmeter.apache.org/download_jmeter.cgi

Locust — locust.io/

Exemple: VIS LAB

VIS LAB

Version Monolithes

docker-compose -f
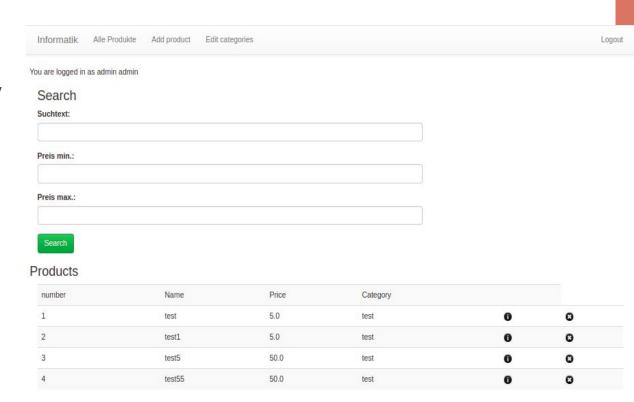docker-compose-legacy.yml up

Version Microservices

docker-compose -f
docker-compose-microservices.yml up

Exemple: VIS LAB - Monolithes

Entry point:
http://localhost:8888/EShop-1.0.0/

Credential: admin/admin

Exemple: VIS LAB - Monolithes

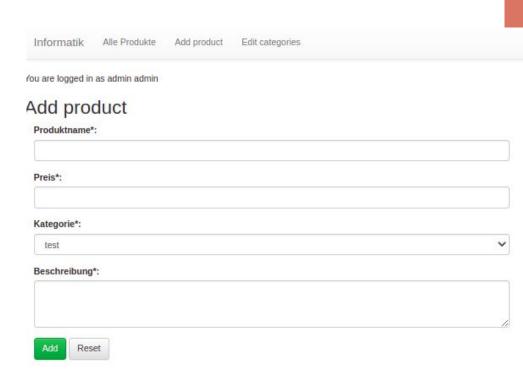(!) First you need to add a category

API Endpoint:
http://localhost:8888/EShop-1.0.0/
AddProductAction.action

METHOD:
POST

Payload:
Name, price, category id

Informatik   Alle Produkte   Add product   Edit categories

You are logged in as admin admin

Add product

Produktname*:

Preis*:

Kategorie*:

test

Beschreibung*:

Add   Reset

6

JMeter

HTTP Request

Name: HTTP Request

Comments:

Web Server
Server Name or IP: localhost   **Port Number:** 8888

Timeouts (milliseconds)
Connect: **Response:**

HTTP Request

Implementation: [dropdown]   **Protocol [http]:** http   **Method:** POST [dropdown]   **Content encoding:**

Path: /EShop-1.0.0/AddProductAction.action?name=test&price=50&categoryId=1

☐ Redirect Automatically   ☑ Follow Redirects   ☑ Use KeepAlive   ☐ Use multipart/form-data for POST   ☐ Browser-compatible headers

Parameters | **Body Data**

Send Parameters With the Request:

Name:	Value	Encode?	Include Equals?

Monitoring

Github: https://github.com/wejdeneHaouari/monitor-tp3

```
sudo apt install -y python3-venv
python3 -m venv env
pip install -r requirements.txt
source env/bin/activate
Python main.py
```

Merci !

Avez-vous des questions?

[Lien invitation Slack](#)

wejdene.haouari@polymtl.ca