

Comparaison entre des architectures monolithes et en microservices

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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/

Example: 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

[Informatik](#) [Alle Produkte](#) [Add product](#) [Edit categories](#) [Logout](#)

You are logged in as admin admin









Search

Suchtext:

Preis min.:

Preis max.:

Products

number	Name	Price	Category		
1	test	5.0	test		
2	test1	5.0	test		
3	test5	50.0	test		
4	test55	50.0	test		

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

The screenshot displays the admin interface of EShop-1.0.0. At the top, there is a navigation bar with links: 'Informatik', 'Alle Produkte', 'Add product', and 'Edit categories'. Below the navigation bar, a message states 'You are logged in as admin admin'. The main section is titled 'Add product'. It contains four form fields: 'Produktname*' (a text input), 'Preis*' (a text input), 'Kategorie*' (a dropdown menu with 'test' selected), and 'Beschreibung*' (a large text area). At the bottom of the form, there are two buttons: a green 'Add' button and a grey 'Reset' button.

JMeter

HTTP Request

Name: HTTP Request

Comments:

Web Server

Server Name or IP: localhost Port Number: 8888

Timeouts (milliseconds)

Connect: Response:

HTTP Request

Implementation: Protocol [http]: http Method: POST 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?
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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