

E5FI - Virtualisation - Project

By Fabien Courtois & Julien Faidide

Docker Hub Images

Front-end : <https://hub.docker.com/r/fabiencrts/front-end>

Back-end : <https://hub.docker.com/r/fabiencrts/back-end>

Commands / Test

Initialization :

- Lancer Docker Desktop
- `minikube start`

Déploiement and services

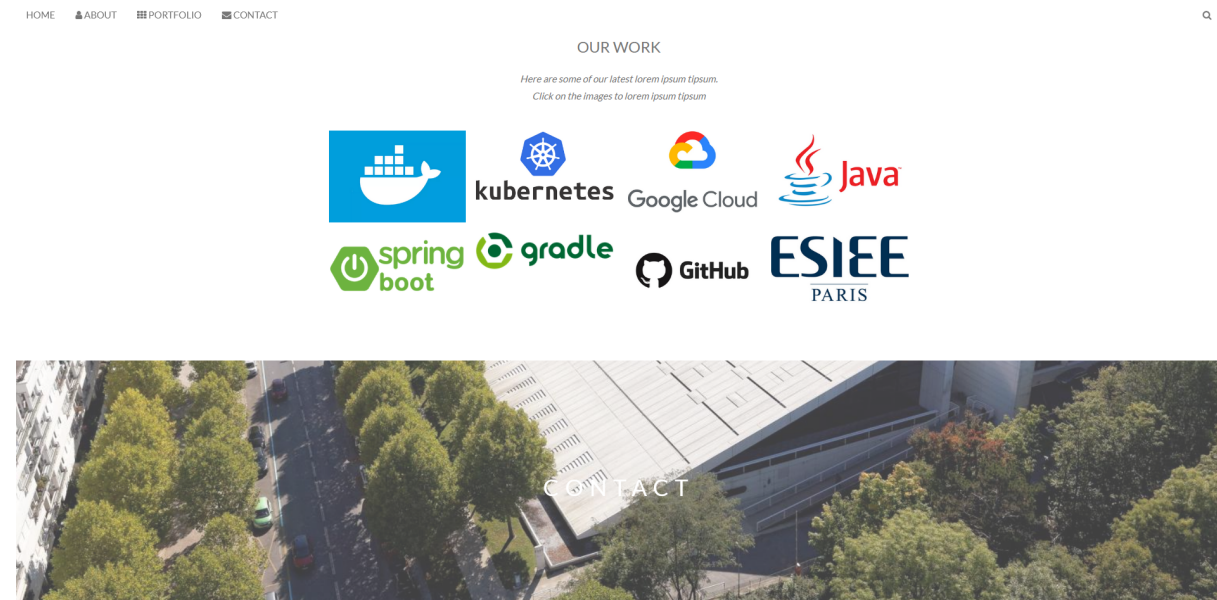
`kubectl apply -f front-back-app.yml`

`minikube tunnel`

Test it on : <http://virtu-project.info/> After editing your etc/hosts file

Description

Our project is a sample portfolio website, with a pretty front-end, a simple back-end and a cluster gateway.



The data returned by the back-end modify the `<title>` HTML element of the front-end. This corresponds to the title of the tab in the web browser. If the backend can't be accessed, the `<title>` HTML element is set to "...".



The cluster gateway is set to "virtu-projet.info". It must be configured in the etc/host file of your OS.

All of the project has been configured to work with Docker and Kubernetes : 2 services (front-end and back-end)

Google Skill Boost Activities



Fabien COURTOIS

Date d'abonnement : 2023

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| En cours | | Terminée | | | |
| Activité | Type | Date de début | Date de fin | Score | Réussie |
| Interagir avec les modules Terraform | Atelier | 14 févr. 2023 | 14 févr. 2023 | 100.0/100.0 | ✓ |
| Infrastructure as Code avec Terraform | Atelier | 14 févr. 2023 | 14 févr. 2023 | 100.0/100.0 | ✓ |
| Configuring Networks via gcloud | Atelier | 13 févr. 2023 | 13 févr. 2023 | 100.0/100.0 | ✓ |
| Orchestrer le cloud avec Kubernetes | Atelier | 6 févr. 2023 | 6 févr. 2023 | 100.0/100.0 | ✓ |
| Kubernetes Engine : Qwik Start | Atelier | 6 févr. 2023 | 6 févr. 2023 | 100.0/100.0 | ✓ |
| Présentation de Docker | Atelier | 16 janv. 2023 | 16 janv. 2023 | 100.0/100.0 | ✓ |
| Premiers pas avec Cloud Shell et gcloud | Atelier | 16 janv. 2023 | 16 janv. 2023 | 100.0/100.0 | ✓ |
| Créer une machine virtuelle | Atelier | 4 janv. 2023 | 4 janv. 2023 | 100.0/100.0 | ✓ |
| Présentation de Qwiklabs et de Google Cloud | Atelier | 4 janv. 2023 | 4 janv. 2023 | 100.0/100.0 | ✓ |



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| Interact with Terraform Modules | Lab | 19 hours ago | 19 hours ago | 100.0/100.0 | ✓ |
| Infrastructure as Code with Terraform | Lab | 20 hours ago | 19 hours ago | 100.0/100.0 | ✓ |
| Configuring Networks via gcloud | Lab | 20 hours ago | 20 hours ago | 100.0/100.0 | ✓ |
| Configuring Networks via gcloud | Lab | Feb 14, 2023 | Feb 14, 2023 | 100.0/100.0 | ✓ |
| Orchestrating the Cloud with Kubernetes | Lab | Feb 14, 2023 | Feb 14, 2023 | 100.0/100.0 | ✓ |
| Kubernetes Engine: Qwik Start | Lab | Feb 14, 2023 | Feb 14, 2023 | 100.0/100.0 | ✓ |
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