

# E5FI - Virtualisation - Project

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## 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

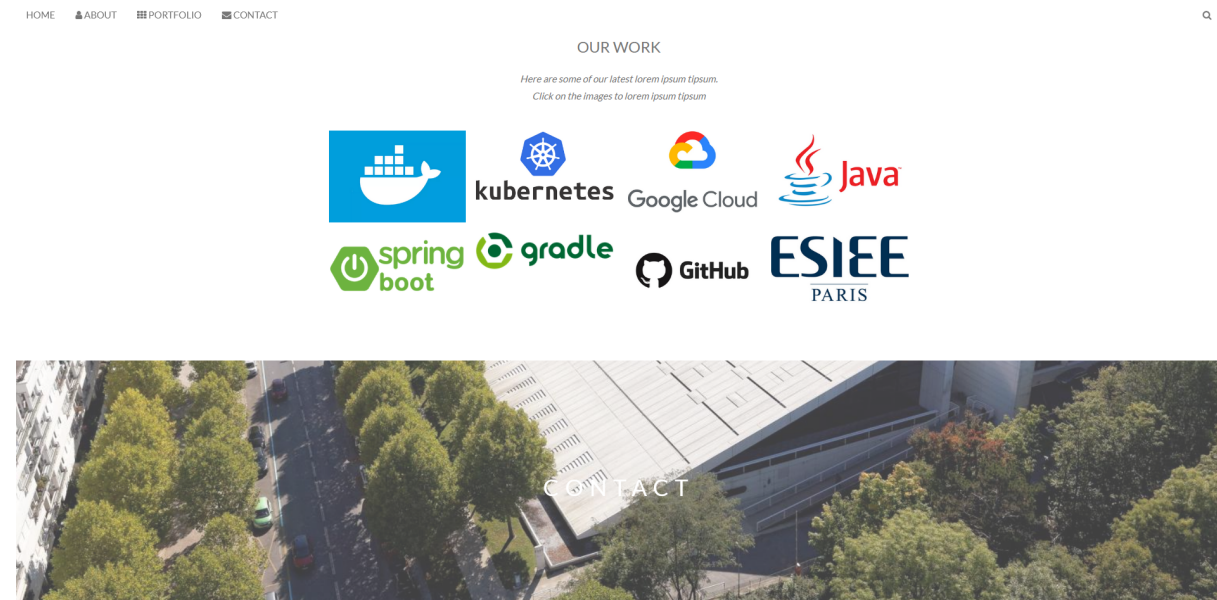
`kubectl apply -f front-back-app.yml`

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



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Course	Lab	Quest	Quiz	Game	
In progress		Finished			
Activity	Type	Date started	Date finished	Score	Passed
<a href="#">Interact with Terraform Modules</a>	Lab	19 hours ago	19 hours ago	100.0/100.0	✓
<a href="#">Infrastructure as Code with Terraform</a>	Lab	20 hours ago	19 hours ago	100.0/100.0	✓
<a href="#">Configuring Networks via gcloud</a>	Lab	20 hours ago	20 hours ago	100.0/100.0	✓
<a href="#">Configuring Networks via gcloud</a>	Lab	Feb 14, 2023	Feb 14, 2023	100.0/100.0	✓
<a href="#">Orchestrating the Cloud with Kubernetes</a>	Lab	Feb 14, 2023	Feb 14, 2023	100.0/100.0	✓
<a href="#">Kubernetes Engine: Qwik Start</a>	Lab	Feb 14, 2023	Feb 14, 2023	100.0/100.0	✓
<a href="#">Introduction to Docker</a>	Lab	Jan 16, 2023	Jan 16, 2023	100.0/100.0	✓
<a href="#">Getting Started with Cloud Shell and gcloud</a>	Lab	Jan 16, 2023	Jan 16, 2023	100.0/100.0	✓
<a href="#">Creating a Virtual Machine</a>	Lab	Jan 4, 2023	Jan 4, 2023	100.0/100.0	✓
<a href="#">A Tour of Google Cloud Hands-on Labs</a>	Lab	Jan 4, 2023	Jan 4, 2023	100.0/100.0	✓