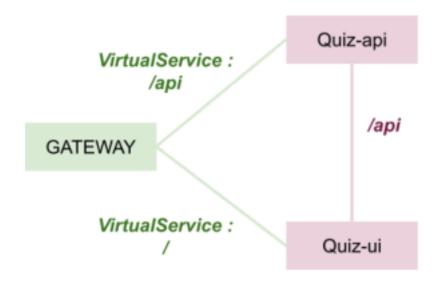
# **Projet virtualisation**

Réalisé par Yohan Astier et Maryline Fernandes

Architecture du projet	2
Travail réalisé	2
Docker	2
Création des images	2
Build des images	2
Publication des images	3
Création des service Kubernetes	3
Configuration Kubernetes	3
Déploiement	3
Test minikube	3
Lancement de la gateway ingress	4
Nettoyage du projet	4
Lancement rapide du projet	4
Résultats attendus	4
Google labs	7
Maryline Fernandes	7
Vohan Astion	7

# Architecture du projet



### Travail réalisé

#### **Docker**

### Création des images

Les images docker se trouvent chacune dans le dossier respectif de leur projet :

quiz-api : Dockerfile quiz-ui : Dockerfile

### **Build des images**

```
cd quiz-ui
docker build -t quiz-ui .

cd quiz-api
docker build -t quiz api .
```

#### **Publication des images**

```
docker tag [idImage] marfrnds/quiz-api:latest
docker push marfrnds/quiz-api:latest

docker tag [idImage] marfrnds/quiz-ui:latest
docker push marfrnds/quiz-ui:latest
```

#### Création des service Kubernetes

#### **Configuration Kubernetes**

La configuration Kubernetes a été réalisée sur 3 fichiers différents :

quiz-ui.yml: créer le service et le déploiement de quiz-ui quiz-api.yml: créer le service et le déploiement de quiz-api istio-config.yml: créer la gateway, le virtualservice quiz-api et le virtualservice quiz-ui

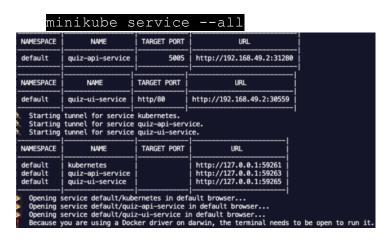
#### Déploiement

On peut déployer ces 3 configurations à l'aide du fichier suivant :

./deployment.sh

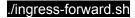
#### Test minikube

On teste les services avec :



### Lancement de la gateway ingress

On lance la gateway avec le script suivant :



### Nettoyage du projet

Pour nettoyer tous les services et deploiements créer, lancer :



# Lancement rapide du projet



### Résultats attendus

Page d'accueil

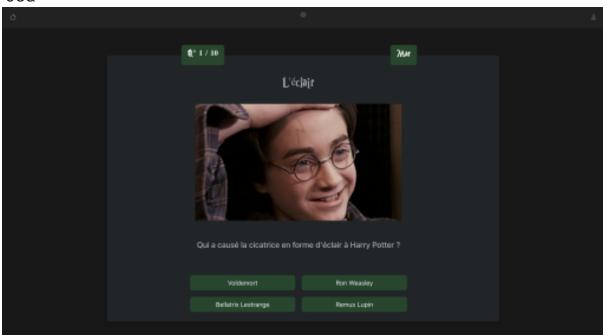


# Page de début du jeu





#### Jeu



# Google labs

# **Maryline Fernandes**



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Course Lab Quest Quiz Game In prog	gress Finished				
Activity	Туре	Date started	Date finished	Score	Passed
Form Parsing with Document AI (Python)	Lab	Mar 4, 2024	Mar 4, 2024	Assessment: 100%	~
BigQuery Machine Learning using Soccer Data	Lab	Mar 4, 2024	Mar 4, 2024	Assessment: 100%	~
BigQuery Soccer Data Analytical Insight	Lab	Mar 4, 2024	Mar 4, 2024	Assessment: 100%	~
BigQuery Soccer Data Analysis	Lab	Mar 4, 2024	Mar 4, 2024	Assessment: 100%	~
BigQuery Soccer Data Ingestion	Lab	Mar 4, 2024	Mar 4, 2024	Assessment: 100%	~
Configuring Networks via gcloud	Lab	Mar 4, 2024	Mar 4, 2024	Assessment: 100%	~
Infrastructure as Code with Terraform	Lab	Mar 4, 2024	Mar 4, 2024	Assessment: 100%	~
Installing Anthos Service Mesh on Google Kubernetes Engine	Lab	Mar 4, 2024	Mar 4, 2024	Assessment: 100%	~
Deploy, Scale, and Update Your Website on Google Kubernetes Engine	Lab	Feb 19, 2024	Feb 19, 2024	Assessment: 100%	~
A Tour of Google Cloud Hands-on Labs	Lab	Feb 8, 2024	Feb 8, 2024	Assessment: 100%	~

# **Yohan Astier**

Getting Started with VPC Networking and Google Compute Engine		Lab	Mar 4, 2024	Mar 4, 2024	Assessment	100%	<b>✓</b>
Google Cloud Fundamentals: Getting Started with Cloud Marketplace		Lab	Feb 28, 2024	Feb 28, 2024	Assessment	100%	<b>✓</b>
Google Cloud Fundamentals: Core Infrastructure		Course	Feb 28, 2024	Mar 4, 2024			<b>✓</b>
Using BigQuery Omni with AWS		Lab	Feb 28, 2024	Feb 28, 2024	Assessment	0%	
Installing Anthos Service Mesh on Google Kubernetes Engine		Lab	Feb 28, 2024	Feb 28, 2024	Assessment	100%	<b>✓</b>
A Tour of Google Cloud Hands-on Labs		Lab	Feb 28, 2024	Feb 28, 2024	Assessment	100%	<b>✓</b>
Deploy, Scale, and Update Your Website on Google Kubernetes Engine		Lab	Feb 19, 2024	Feb 19, 2024	Assessment	100%	<b>✓</b>
Configuring Networks via gcloud		Lab	Feb 14, 2024	Feb 14, 2024	Assessment	100%	<b>✓</b>
App Dev: Deploying the Application into Kubernetes Engine - Python		Lab	Feb 14, 2024	Feb 14, 2024	Assessment	50%	
Introduction to Docker		Lab	Feb 14, 2024	Feb 14, 2024	Assessment	0%	
Infrastructure as Code with Terraform		Lab	Feb 12, 2024	Feb 12, 2024	Assessment	100%	<b>✓</b>
Configuring Networks via gcloud		Lab	Feb 12, 2024	Feb 12, 2024	Assessment	100%	<b>✓</b>
A Tour of Google Cloud Hands-on Labs		Lab	Feb 8, 2024	Feb 8, 2024	Assessment	100%	<b>✓</b>
Activity	Туре	Date started		Date finished	Score	Passed	
Google Cloud Fundamentals: Core Infrastructure	Course	Feb 28, 2024	Į.	Mar 4, 2024		<b>✓</b>	