



المعهد الوطني للبريد والهواصالات

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Institut National des Postes et Télécommunications

TP5 – GCP

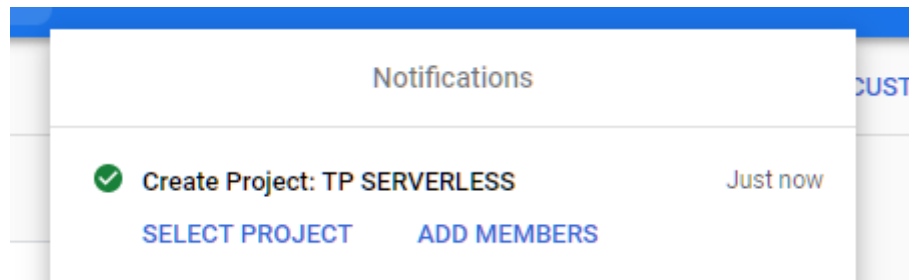
SERVERLESS ET CLOUD NATIVE APPLICATIONS

Réalisé par :

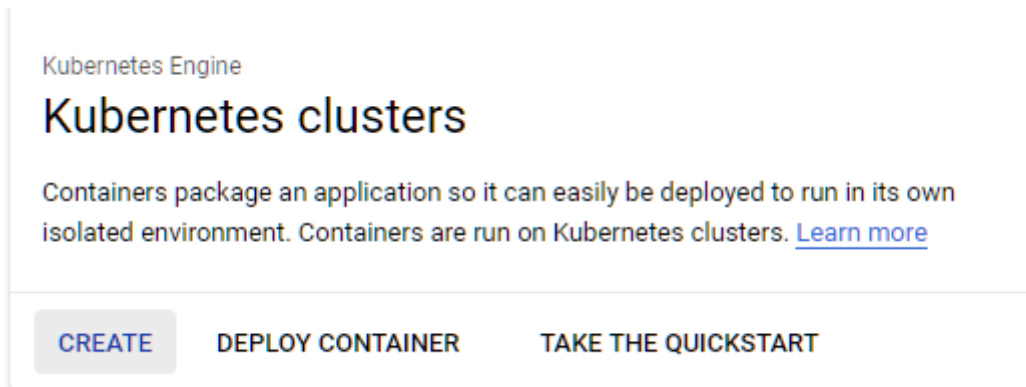
Younes IBIZZI

INE2 ASEDS

1- Création du projet sur GCP :



2- Création du cluster :



Cluster set-up guides

- My first cluster**
An affordable cluster to experiment with
- Cost-optimized cluster**
A cluster designed for maximum cost efficiency

This process will help you create an affordable cluster to experiment with using Kubernetes Engine or deploying your first application.

You'll make these changes to the current configuration:

- ✓ **Cluster name:** my-first-cluster-1
- ✓ **Cluster zone:** us-central1-c
- ✓ **Version:** Rapid release channel
- ✓ **Machine type:** g1-small instead of e2-medium
- ✓ **Boot disk size:** 32GB instead of 100GB boot disk size
- ✓ **Autoscaling:** Disabled
- ✓ **Cloud Operations for GKE:** Disabled

Select **Create now** to create the cluster with these settings applied. Choose **Customize** to go through the process step by step and customize your cluster.

CREATE NOW CUSTOMIZE

Filter Enter property name or value							
<input type="checkbox"/>	Name ↑	Location	Number of nodes	Total vCPUs	Total memory	Notifications	Labels
<input checked="" type="checkbox"/>	my-first-cluster-1	us-central1-c	3	3	5.1 GB	—	⋮

Kubernetes Engine

Clusters

Workloads

Services & Ingress

Applications

Configuration

Storage

Object Browser

Migrate to containers

← Clusters

EDIT

DELETE

ADD NODE POOL

DEPLOY

CONNECT

DUPLICATE

my-first-cluster-1

Cluster creation can take five minutes or more.

67% - Cluster health checks are running...

Configuring

Deploying

Health checks

HIDE PROGRESS STEPS

DETAILS

NODES

STORAGE

LOGS

Cluster basics

Name	my-first-cluster-1	🔒
Location type	Zonal	🔒
Control plane zone	us-central1-c	🔒
Default node zones	us-central1-c	✎
Release channel	Rapid channel	✎ UPGRADE AVAILABLE
Version	1.20.6-gke.1400	
Total size	3	①
Endpoint	34.71.218.151	🔒

Automation

Maintenance window	Any time	✎
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Filter Enter property name or value

<input type="checkbox"/>	Status	Name ↑	Zone	Recommendations	In use by	Internal IP	External IP
<input type="checkbox"/>	✓	gke-my-first-cluster-1-default-pool-178c065f-219p	us-central1-c		gke-my-fir...	✓ 10.128.0.2 (nic0)	35.193.29.146
<input type="checkbox"/>	✓	gke-my-first-cluster-1-default-pool-178c065f-8b5c	us-central1-c		gke-my-fir...	✓ 10.128.0.4 (nic0)	104.197.143.181
<input type="checkbox"/>	✓	gke-my-first-cluster-1-default-pool-178c065f-x8xk	us-central1-c		gke-my-fir...	✓ 10.128.0.3 (nic0)	35.232.20.194

3- Handling the cluster

Connect to the cluster

You can connect to your cluster via command-line or using a dashboard.

Command-line access

Configure [kubectl](#) command line access by running the following command:

```
$ gcloud container clusters get-credentials my-first-cluster-1 --zone us-central1-c --project tp-serverless-318013
```

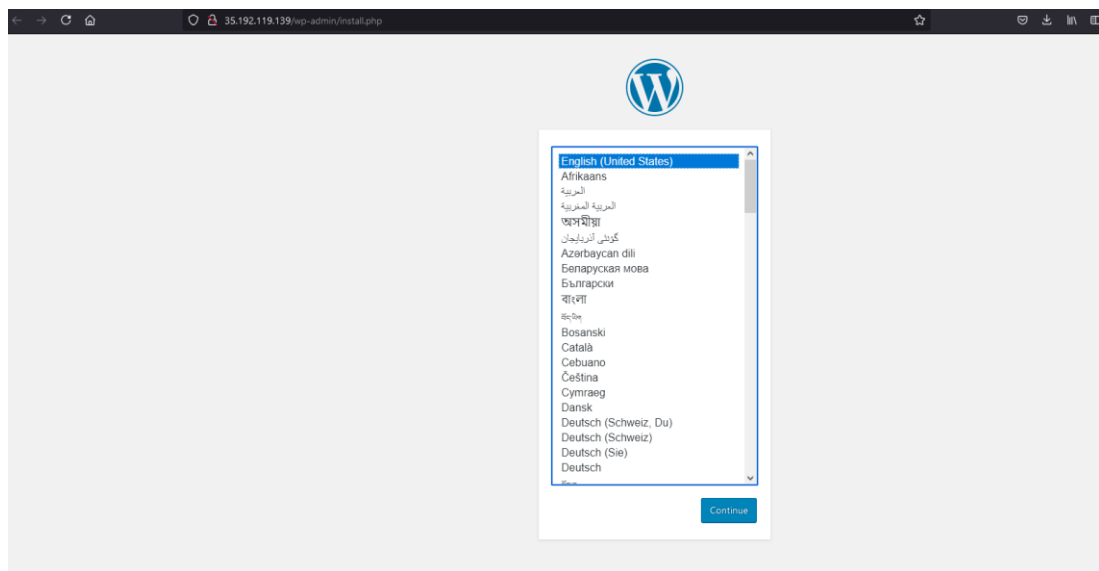
[RUN IN CLOUD SHELL](#)

Cloud Console dashboard

You can view the workloads running in your cluster in the Cloud Console [Workloads dashboard](#).

[OPEN WORKLOADS DASHBOARD](#)

OK

This screenshot shows the 'Welcome' and 'Information needed' screen of the WordPress installation process. The page has a light gray background with a white central box containing the form. The 'Welcome' section at the top says: 'Welcome to the famous five-minute WordPress installation process! Just fill in the information below and you'll be on your way to using the most extendable and powerful personal publishing platform in the world.' The 'Information needed' section follows, with a note: 'Please provide the following information. Don't worry, you can always change these settings later.' The form fields are: 'Site Title' (test_wordpress), 'Username' (yibizzi), 'Password' (TE%dheQs0!tbKr4SFP) with a 'Hide' button and a 'Strong' strength indicator, 'Your Email' (yibizzi.fcb@gmail.com), and 'Search Engine Visibility' (unchecked). An 'Important' note states: 'You will need this password to log in. Please store it in a secure location.' and another note says: 'Double-check your email address before continuing.' At the bottom is an 'Install WordPress' button. The browser's address bar at the top shows '35.192.119.139/wp-admin/'.