GCP Kubernetes in four steps

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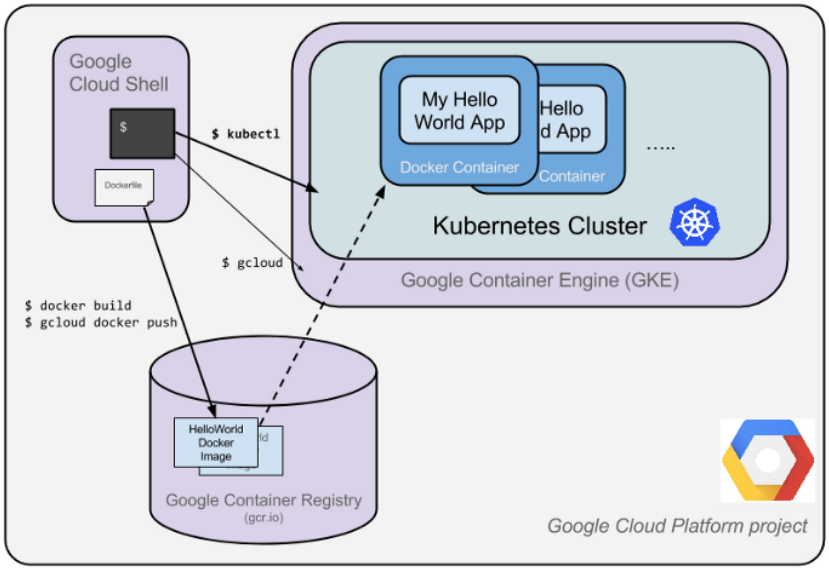
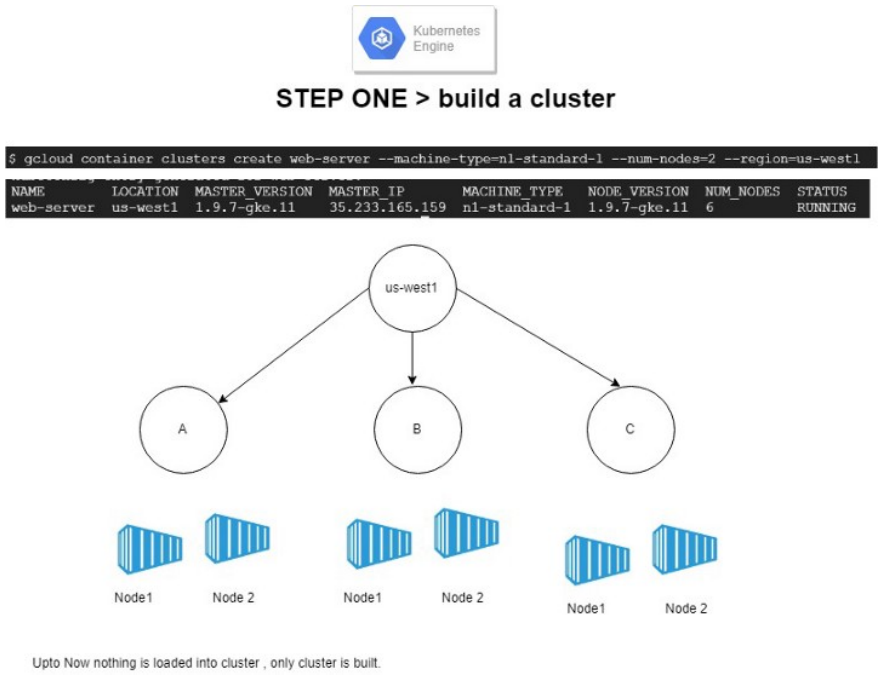
This blog will demonstrate how to deploy containers using kubernetes engine in GCP.



How kubernetes work

Step one: Build a cluster

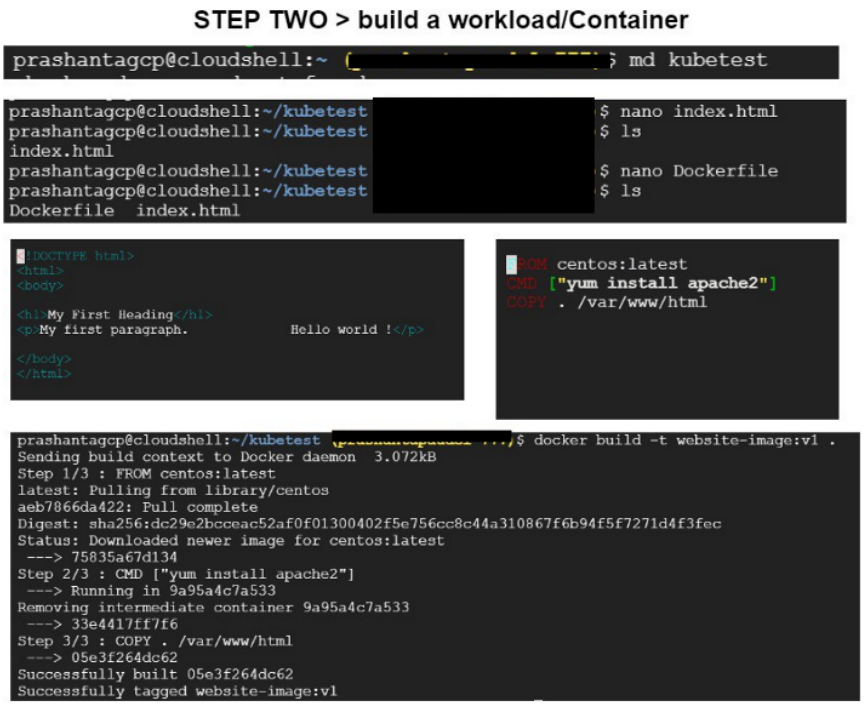


Step 2: Build a workload/Container

I am going to build a small hello world website for test purpose but it could be anything from a thousand lines of codes.

To built a docker image we need code and docket file. So, I created a folder containing index file and docker file.

Lastly, I created a docker image from these two files.

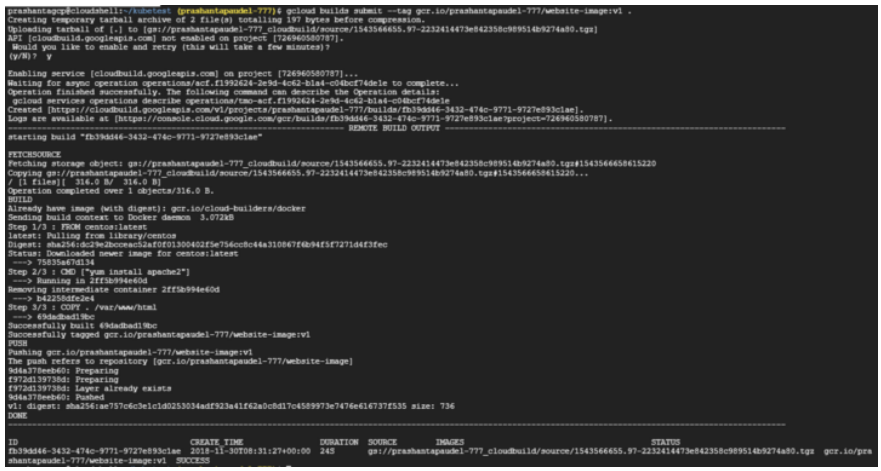


Step 3: Upload to Google Container Registry

After the container is built it needs to be uploaded to GCP for implementing.

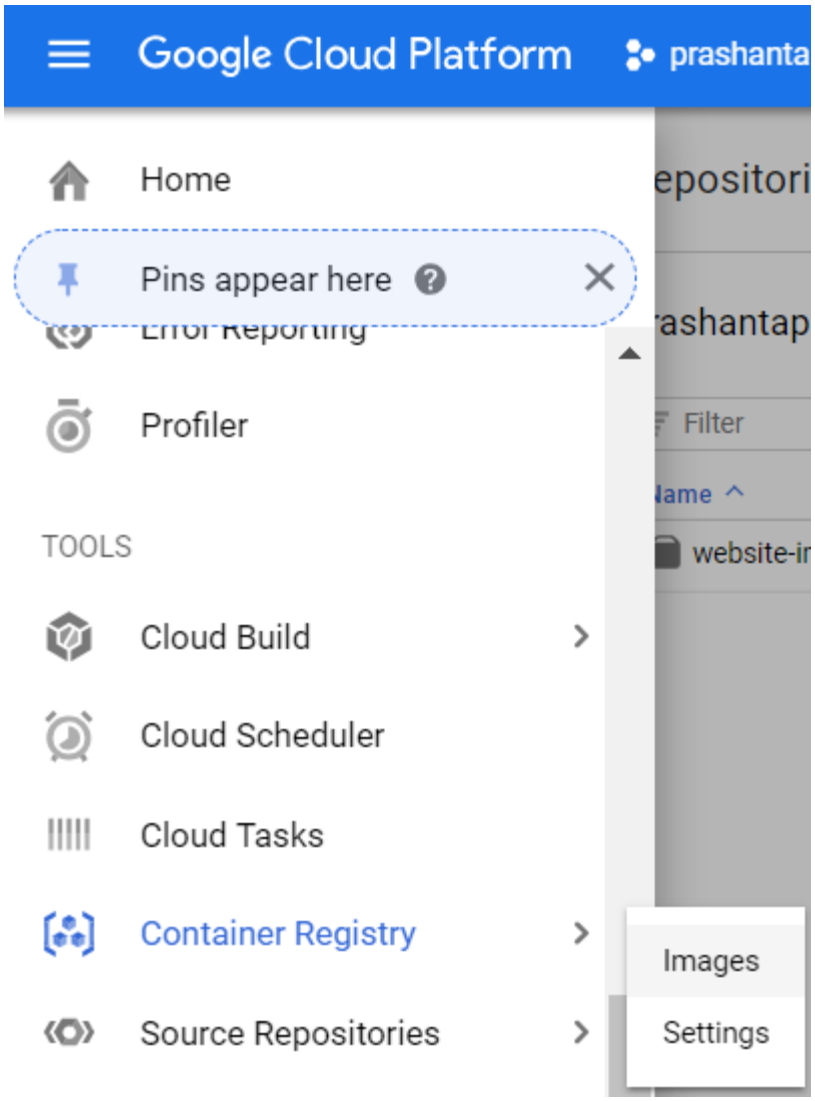
Command

```
$ gcloud builds submit --tag gcr.io/project_name/website-
image:v1 .
```



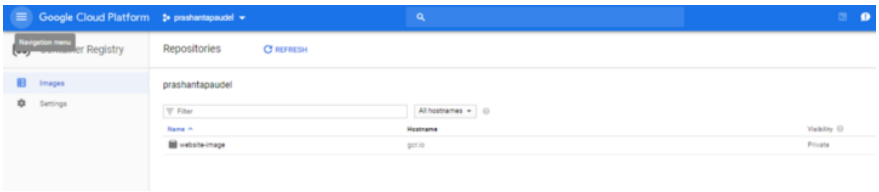
uploading to container registry

Let's check whether it is in registry or not



Go to container registry > images

Hurray! we have the image now.



Images

Step four: Deploy from Registry

After you have the image in the registry, just deploy to the cluster we have built in step one.

```
$ kubectl run website --image=gcr.io/project name/website-
image:v2 --port 8080

$ kubectl expose deployment website --type=Loadbalance --
port=80 --target-port=8080
```