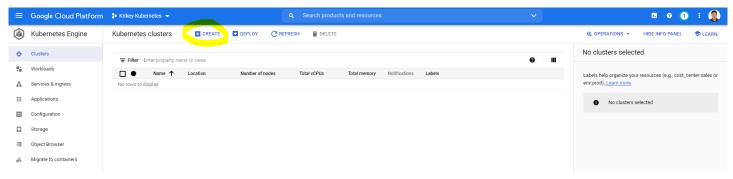
Google Cloud Platform - Deploy Docker compose

Requirement

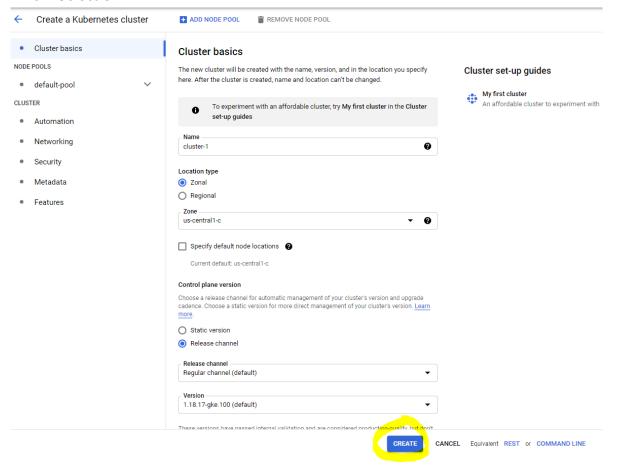
- 1. Must pull all my Node js applications on Github (!important)
- 2. Require "Dockerfile" for Node application
- 3. Require "docker-compose.yml" for combining Node application and PostgreSQL

Deployment Process

- 1. Login GCP
- 2. Search Product: Kubernetes Engine and enable API



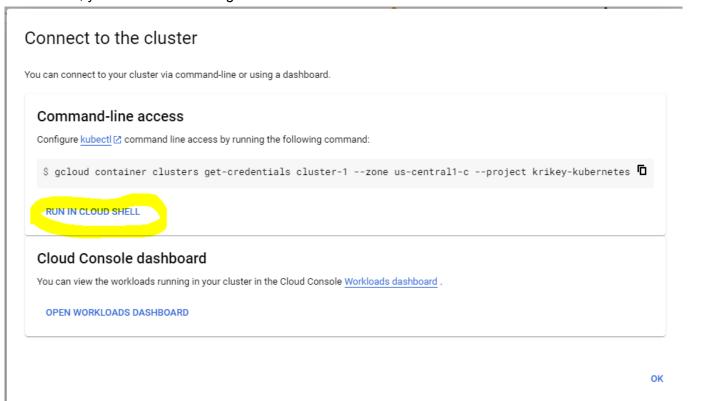
- 3. Create Kubernetes cluster (Yellow Circle)
- 4. Choose Standard
- 5. Select CREATE



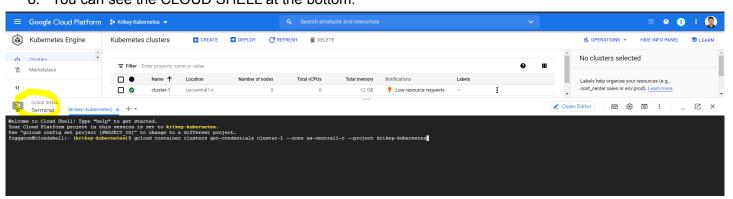
6. When it finishes, select right option button and click CONNECT



7. Now, you can connect Google cloud shell on Kubernetes



8. You can see the CLOUD SHELL at the bottom.



9. Press enter and Authorize

10. Clone Node application from github

git clone https://github.com/jungwony629/Krikey-Backend.git

```
foggyoon@cloudshell:~ (krikey-kubernetes) $ git clone https://github.com/jungwony629/Krikey-Backend.git
Cloning into 'Krikey-Backend'...
Username for 'https://github.com': jungwony629
Password for 'https://jungwony629@github.com':
remote: Enumerating objects: 76, done.
remote: Counting objects: 100% (76/76), done.
remote: Compressing objects: 100% (51/51), done.
remote: Total 76 (delta 30), reused 67 (delta 21), pack-reused 0
Unpacking objects: 100% (76/76), done.
foggyoon@cloudshell:~ (krikey-kubernetes) $ 11
total 64
drwxr-xr-x 11 foggyoon foggyoon 4096 May 8 23:55 ./
drwxr-xr-x 4 root root 4096 May 8 19:46 ../
-rw----- 1 foggyoon foggyoon 1883 May 8 23:55 .bash history
-rw-r--- 1 foggyoon foggyoon 220 Apr 18 2019 .bash logout
-rw-r--- 1 foggyoon foggyoon 3564 May 4 18:49 .bashrc
drwxr-xr-x 3 foggyoon foggyoon 4096 May 8 21:29 .cache/
drwxr-xr-x 2 foggyoon foggyoon 4096 May 8 21:30 .cloudcode/
drwxr-xr-x 4 foggyoon foggyoon 4096 May 8 21:30 .config/
drwxr-xr-x 2 foggyoon foggyoon 4096 May 8 19:46 .docker/
drwxr-xr-x 6 foggyoon foggyoon 4096 May 8 23:55 Krikey-Backend/
drwxr-xr-x 2 foggyoon foggyoon 4096 May 8 19:47 .kube/
-rw-r-r-- 1 foggyoon foggyoon 807 Apr 18 2019 .profile
-rw-r-r-- 1 foggyoon foggyoon 913 May 8 23:53 README-cloudshell.txt
drwx---- 2 foggyoon foggyoon 4096 May 8 21:31 .ssh/
drwxr-xr-x 6 foggyoon root 4096 May 8 21:47 .theia/
drwxr-xr-x 3 foggyoon foggyoon 4096 May 8 21:29 .yarn/
foggyoon@cloudshell:~ (krikey-kubernetes)$
```

Enter Krikey-Backend folder cd Krikey-Backend/

12. Type "docker build -t foggyoon/krikey-node-app."

```
foggyoon@cloudshell:~/Krikey-Backend$ docker build -t foggyoon/krikey-node-app .
Sending build context to Docker daemon 160.3kB
Step 1/7 : FROM node:12
---> 29be39bd6917
Step 2/7 : WORKDIR /usr/src/app
---> Using cache
---> af22262b3b9b
Step 3/7 : COPY package*.json ./
---> Using cache
---> lebcec0d9509
Step 4/7 : RUN npm install
---> Using cache
---> c4d620156a3d
Step 5/7 : COPY . .
---> Using cache
---> a86a94196684
Step 6/7 : EXPOSE 8080
---> Using cache
---> 8b5a3f72fb70
Step 7/7 : CMD npm run migrate && npm run start
---> Using cache
---> 547dad4592da
Successfully built 547dad4592da
Successfully tagged foggyoon/krikey-node-app:latest
foggyoon@cloudshell:~/Krikey-Backend$
```

Check Docker completely create an image file docker images

foggyoon@cloudshell:~/Krikey-Backend\$ docker images				
REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
foggyoon/krikey-node-app	latest	547dad4592da	About a minute ago	927MB
node	12	29be39bd6917	4 weeks ago	918MB

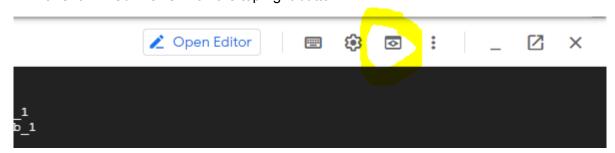
14. Type "docker-compose up -d"

```
foggyoon@cloudshell:~/Krikey-Backend$ docker-compose up -d
Creating network "krikey-backend default" with the default driver
Pulling db (postgres:)...
latest: Pulling from library/postgres
f7ec5a41d630: Pull complete
d073cd070242: Pull complete
03790957a916: Pull complete
b3776ac15dab: Pull complete
7144fd00aec4: Pull complete
54f6491bd120: Pull complete
247ab23c6036: Pull complete
57800498c536: Pull complete
bcb15a4d14f4: Pull complete
cfc751ecbc6e: Pull complete
bbf042afd4a4: Pull complete
453056a20de6: Pull complete
d5b1a75378ef: Pull complete
7841e2074775: Pull complete
Digest: sha256:61d5d8ef6cb4e2035f053f26b6b455c201a809354084cc8426b6904b8dd35602
Status: Downloaded newer image for postgres:latest
Creating krikey-backend web 1 ...
Creating krikey-backend db 1
```

15. Check the container is working well docker container list



16. Click "Web Preview" on the top right button



17. Finally, we can preview our web application

