

Hi Ivo,

Here are the 2 solutions which I have created:

## **Project-1:**

Github: <https://github.com/sama863nz/Project1-k8s-minikube-kubectl>

In this project,

1. I developed files on vs code editor:

**Index.html**

**Script.js**

**Styles.css**

**Sam.jpg**

2. I spun an EC2 Ubuntu t2-**micro** to generate to create docker image and deployed the image to dockerhub using:

**Dockerfile**

3. I spun an EC2 Ubuntu t2-**medium** to generate to create a minikube Kubernetes cluster and used kubectl to deploy the following yml files:

**Deployment.yml**

**Service.yml**

I have defined all steps clearly in **README.md**

### **Output:**

Minikube service --all

Final output (in the Ubuntu terminal)

```

ubuntu@ip-172-31-22-224:~/k8s$ minikube service -all
Error: unknown shorthand flag: 'a' in -all
See 'minikube service --help' for usage.
| default | kubernetes | | No node port |
|-----|-----|-----|-----|
🐱 service default/kubernetes has no node port
|-----|-----|-----|-----|
| NAMESPACE | NAME | TARGET PORT | URL |
|-----|-----|-----|-----|
| default | sam-website-deployment | 80 | http://192.168.49.2:32086 |
|-----|-----|-----|-----|
| NAMESPACE | NAME | TARGET PORT | URL |
|-----|-----|-----|-----|
| default | sam-website-service | 80 | http://192.168.49.2:31000 |
|-----|-----|-----|-----|
🌐 Opening service default/sam-website-deployment in default browser...
👉 http://192.168.49.2:32086
🌐 Opening service default/sam-website-service in default browser...
👉 http://192.168.49.2:31000

```

## For you:

### Testing:

1. EC2 Ubuntu docker server –

```

curl -L http://54.197.201.14
http://54.197.201.14

```

**above should work** in the terminal and on the browser respectively.

2. EC2 Ubuntu minikube Kubernetes cluster:

```

curl -L http://192.168.49.2:31000
minikube service --all

```

**above should work in the terminal.**

In the browser it may or may not work, depending on the port forwarding.

## **Project-2:**

<https://github.com/sama863nz/CI-CD>

I architected and developed a complete CI-CD pipeline using  
AWS CodeCommit  
AWS CodeBuild  
AWS CodeDeploy  
AWS CodePipeline

I have deployed the code, files and README.md on both AWS CodeCommit and Github.

I have defined all steps clearly in **README.md**

### **For you:**

#### **Testing:**

##### **a) In the terminal**

```
curl -L http://3.88.8.244
```

##### **b) On browser**

```
http://3.88.8.244
```

**above should work** in the terminal and on the browser respectively.

I am keeping my 3 EC2 Ubuntu instances running till you test the solutions and are okay with it. After which I will stop them. The reason why I am not stopping and restarting them is because by doing so their IPs will change.