**ATC\_Project**

**Name:** Python\_Static\_Webpage

**Technologies**: Python, Docker

**Infrastructure:** AWS, CloudFormation, ECS, FARGATE.

**By: Kola Mani.**

This project developed in python deploying on docker image using CloudFormation and ECS.

**Deployment requirement:** AWS IAM role, one VPC, two subnets.

**Code path -** https://github.com/kolamani803/ATC\_ECS\_Template

**Docker file path –** <https://github.com/kolamani803/ATC_ECS_Template/blob/main/Dockerfile>

**Python code path -**

Steps to provision:

**Step 1:**

Create AWS IAM role using below CloudFormation template in your AWS account.

* CloudFomation path and deploy this on CloudFormation to get it created.

Git path - <https://github.com/kolamani803/ATC_ECS_Template/blob/main/ECSRole.yml>

\*\* once IAM role created take the ARN of the IAM role

Ex: arn:aws:iam::616188387185:role/ATCECSWEB

**Step 2**:

Deploy one more CF template to provision ECS, FARGATE, Loadbalancer, Python web application

* CF template code in git - <https://github.com/kolamani803/ATC_ECS_Template/blob/main/ecswithpython.yml>

While deploying this you should select the VPC and Subnet A , Subnet B, and need to enter the AWS IAM role which you just created.

Ex: after provisioning you can access using your Loadbalancer URL.

Here is the URL looks like and which I was deployed already on ECS and you can access it.

**http://atcwebapploadbalancer-1595796524.us-east-2.elb.amazonaws.com/**

**Note:** This project is designed for internet facing and ecs services also available with public IP address.