***COPILOT Assignment Documentation***

**AWS Copilot -** AWS Copilot is an open-source CLI-based tool by the AWS which lets you deploy containerized services easily by running a few simple commands. Behind the scenes, AWS takes care of all the infrastructure provisioning and configuration.

With AWS Copilot, you can use to quickly launch and manage containerized applications on AWS. It simplifies running applications on Amazon Elastic Container Service (ECS), AWS Fargate, and AWS App Runner.



In the above diagram we'll create dcker image from dockerfile run the container on AWS ECS using COPILOT and will attach a load balancer to it and make a pipeline on it. So there are some steps and commands that we'll use :

Install AWS CLI on server and configure credentials with following commads :

**sudo apt install awscli**

**aws configure**

Install Docker on system or ec2 with the command :

**Sudo apt install docker.io**

Create a dockerfile to build the image from dockerfile

FROM node:12-alpine

RUN apk add --no-cache python2 g++ make

WORKDIR /app

COPY . .

RUN yarn install --production

CMD ["node", "src/index.js"]

EXPOSE 3000

Now install copilot on your system :

**curl -Lo copilot** [**https://github.com/aws/copilot-cli/releases/latest/download/copilot-darwin**](https://github.com/aws/copilot-cli/releases/latest/download/copilot-darwin) **&& chmod +x copilot && sudo mv copilot /usr/local/bin/copilot && copilot --help**

Now initialize the copilot with the following command :

**copilot init**

commands to make pipeline

**copilot pipeline init**

**copilot pipeline deploy**