**Objective:** To automate the creation and deployment of a Docker Lambda function. The workflow involves automating the process of creating Docker images, pushing them to Amazon ECR, and updating the Lambda function. Currently, this process is done manually by creating the Docker image on EC2, pushing it to ECR, and updating the Lambda function. The goal is to automate these steps, eliminating the need for manual intervention.

The ECR is linked with an AWS Lambda function that is associated with an Application Load Balancer (ALB). To achieve this, we need to set up the following components:

1. CodeBuild: To build the Docker images.

2. CodePipeline: To automate the deployment process.

3. CodeDeploy: To handle the deployment of the Docker images.

**Current Setup:**

- Docker is already installed on the EC2 instance.

- The CodeDeploy agent is running properly.

- All IAM permissions are correctly configured.

**Problems:**

1. Issue with CodeBuild:

During the CodeBuild process, we encounter an error stating that Docker could not be installed, which prevents us from successfully creating the CodeBuild project.

2. Error with Docker Login Command:

We are facing an error while executing the Docker login command:

```sh

aws ecr get-login-password --region ap-south-1 | docker login --username AWS --password-stdin xxxxxxxx.dkr.ecr.ap-south-1.amazonaws.com

The error message is: `exit status 127`.