Challenge for Cloud DevOps

★ Deploy an EC2 Machine using CFT/TF.

- o Install Java8 and Jenkins server using Ansible.
 - No passwords should be used while connecting to the machine.(configure ansible.cfg according to not use the password in the command line)
 - Jenkins UI configuration can be done manually. No need to automate that part.

★Create a pipeline in the jenkins you have deployed.

- Retrieve Source code from VCS(Github or anything of your choice)
 Case 1:
- Write a lambda function (python) to Add, Subtract, Multiply, and Divide two numbers.
 - --> Ask user to input two numbers and the operator (+, -, *, /). Based on the input program should compute the result and display the output.
 - --> Write the test case to validate any operator's functionality and then deploy the code in AWS (lambda) with Jenkins.

Case 2:

- o Build a docker image (Any image which can run a web application service)
 - Example: A node:12/python:3.6(with flask application) image which returns a message("Hello Airbus") when we curl it.

 Note: You should write the flask application or node js application which returns the data.
 - Python Flask: Please write Class structured code while implementing.
- Test the docker image
 - Testing is basically Running the docker image, checking the status of the service. Curl and check if it is returning information(message body="Hello Airbus"), and check the status code as well.
- The stage results should be published in a slack or other communication channel.