

Send the git location and if possible create a simple video to show it works in your account

Open a free AWS account using your email id

Part 1) Create a cloud formation template in your AWS account

have a look

<https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/GettingStarted.Walkthrough.html>

Tasks:

Sign up for AWS, familiarize yourself with AWS Home Console GUI.

Create two EC2 Instance t2.micro with different operating systems

create a Virtual Private Cloud (VPC) with a single subnet, an internet gateway & security group.

The subnet is configured to map public IP addresses on launch, and the security group allows incoming traffic on ports 22 (SSH) and 80 (HTTP).

Make sure its free EC2 Instance and instances created in different VPC. (connectivity must be both external and internal IP)

Create SecurityGroup and IAM roles for EC2 Instance

Should have outgoing and incoming access: ICMP, TCP/22, 80, 443, only to EC2

Make sure there is an SSH connection from your host to the created EC2 and make it public

Install NodeJS server to one instance;

Create web page with text "Hello World" or copy any create sample react app (like

<https://reactjs.org/docs/create-a-new-react-app.html>

Make sure web server accessible from internet and you can see your web page "Hello World" in your browser;

Result: Upload this cloud formation template to git and share the git location and if possible create a simple video to show it works in your account

Part 2) Create a Simple Ci/CD pipeline using AWS codedeploy for the below task

Have a look sample

<https://docs.aws.amazon.com/codebuild/latest/userguide/how-to-create-pipeline.html>

<https://docs.aws.amazon.com/codebuild/latest/userguide/sample-codedeploy.html>

<https://pages.awscloud.com/awsmvp-wsm-dev-workshop-series-module3-evolving-to-continuous-deployment-tutorial.html>

Tasks

Git integration with any create sample react app with NodeJS and some sample Free aws DB

Setup/configure CI/CD;

Application/s should be containerized;

make some changes in text "Hello World" to new text "Hello World 2023"

CI pipeline should automatically kick off then update the EC2 machine

Then when we refresh EC2 ip it should the new text on the site

Result: Upload this to git and share the git location or if possible create a simple video to show it works in your account