**Creation of Services and Task definition using Cloud Formation**

* To create a service and task definition using AWS CloudFormation, you can use the **AWS::ECS::Service** and **AWS::ECS::TaskDefinition** resources in your CloudFormation template.
* Example Cloud Formation Template

Resources:

# Define the task definition

MyTaskDefinition:

Type: AWS::ECS::TaskDefinition

Properties:

# Replace these values with your own

ContainerDefinitions:

- Name: my-container

Image: 1234567890.dkr.ecr.us-east-1.amazonaws.com/my-image:latest

Memory: 512

CPU: 256

PortMappings:

- ContainerPort: 80

HostPort: 80

Essential: true

NetworkMode: awsvpc

ExecutionRoleArn: arn:aws:iam::1234567890:role/ecsTaskExecutionRole

Family: my-task-definition

# Define the service

MyService:

Type: AWS::ECS::Service

Properties:

# Replace these values with your own

Cluster: my-cluster

ServiceName: my-service

TaskDefinition: MyTaskDefinition

DesiredCount: 1

LaunchType: EC2

NetworkConfiguration:

AwsvpcConfiguration:

SecurityGroups:

- sg-12345678

Subnets:

- subnet-12345678

* Call cloud formation template using Gitlab
* Push your CloudFormation template to a Git repository hosted on GitLab, such as a project repository or a personal repository.
* Create a new pipeline in your GitLab project by going to the "CI/CD" section and clicking on "Pipelines."
* In the pipeline configuration file (e.g., .gitlab-ci.yml), define a job that calls the aws CloudFormation command to create or update a stack.
* Run the pipeline to execute the job and create or update the CloudFormation stack.

Running-Cloudformation:

  stage: Running\_CloudFormation

  image:

    name: amazon/aws-cli

    entrypoint: [""]

  before\_script:

    - echo $AWS\_ACCESS\_KEY\_ID\_SANDBOX

    - echo $AWS\_SECRET\_ACCESS\_KEYSANDBOX

    - echo $AWS\_REGION\_SANDBOX

    - aws --version

    - aws configure set aws\_access\_key\_id $AWS\_ACCESS\_KEY\_ID\_SANDBOX

    - aws configure set aws\_secret\_access\_key $AWS\_SECRET\_ACCESS\_KEYSANDBOX

    - aws configure set region  $AWS\_REGION\_SANDBOX

script:

    - aws cloudformation create-stack --stack-name my-stack --template-url https://example.com/template.yml --region $AWS\_REGION\_SANDBOX