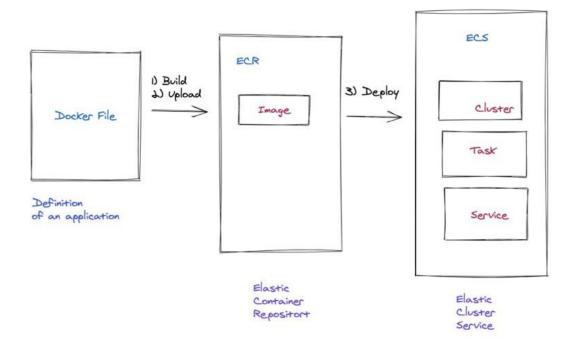
Project Deploying Docker containers on ECS

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Deploying Docker containers on ECS



Creating Docker Image on ec2 instance:

sudo yum update
aws configure list
mkdir project
sudo yum install docker
sudo systemctl status docker
sudo systemctl enable docker
sudo systemctl start docker

```
sudo vi package.json
```

```
"name": "docker_web_app",
"version": "1.0.0",
"description": "Node.js on Docker",
"main": "server.js",
 "scripts": {
 "start": "node server.js"
"dependencies": {
 "express": "^4.17.1"
sudo vi server.js
"use strict"
const express = require("express")
// Constants const
PORT = 8080 const
HOST = "0.0.0.0"
// App const app =
express() app.get("/",
(req, res) => {
res.send(`Hello World - ${new Date().toISOString()}`)
app.listen(PORT, HOST)
console.log(`Running on http://${HOST}:${PORT}`)
sudo vi Dockerfile
FROM node:14
# Create app directory
WORKDIR /usr/src/app
COPY package*.json ./
RUN npm install
COPY..
EXPOSE 8080
```

sudo docker build -t node-web-app.

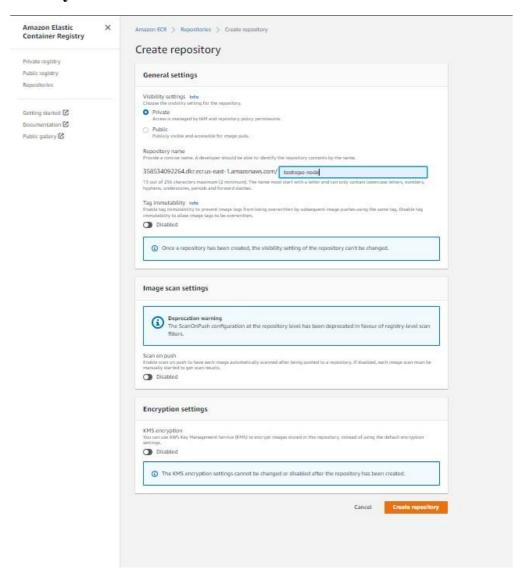
sudo docker run -p 80:8080 -d node-web-app curl

http://localhost:80

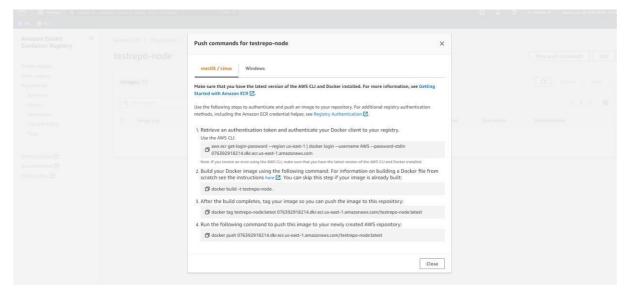
Result:

Hello World - 2021-02-11T05:06:12.739Z

Create your Amazon ECR in the AWS Console:



Viewing pushing Command



Uploading image using these command.

Copy the image URI: we need to keep this to create a task definition for the following steps.

Create an ECS Cluster

Go to the ECS home page and click on the create cluster button:

Choose EC2 Linux + Networking and then click next:

Then enter the following information:

• name of the cluster: ecs01

• EC2 instance type: t3-micro

• Number of instances: 1

sThen choose:

- Default VPC
- Auto assign IP: Enabled
- Security group: default
- Choose one of the subnet

Create a new Task definition

Click on new Task definition

Choose EC2

Then next

Choose NodeWebAppTask for the name of the task definition.

Enter 128 for memory size.

Click Add Container:

Add the name of the container: NodeWebApp

Set the image URI that we have saved to add the end of the add image step

Set the port mappings 80:8080

Click create.

Create Application load Balancer attach it to service and check the DNS:

http://my-alb-1205436972.us-east-1.elb.amazonaws.com/

It is working 😉

