Deploy a Web App on Nginx Server using AWS App Runner

Overview

In this project, you will learn how to deploy a sample containerized application on a Nginx server using AWS App Runner.

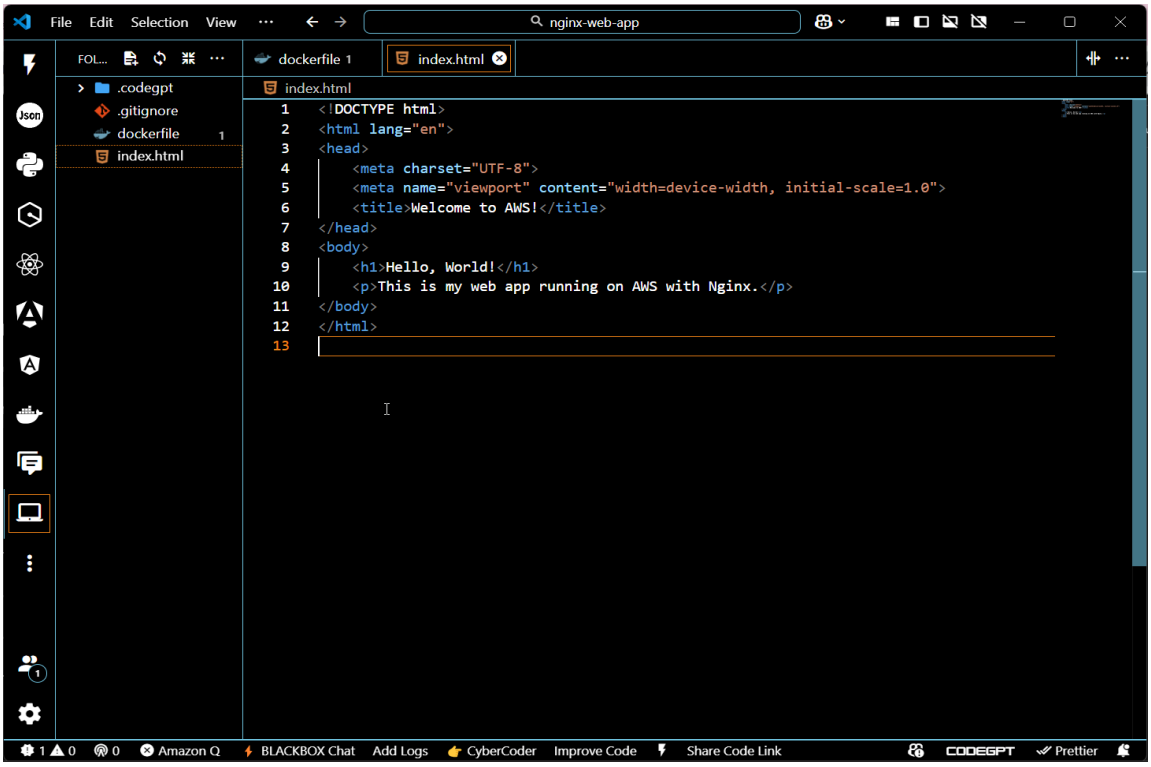
AWS App Runner is a fully managed service that makes it easy for developers to quickly deploy containerized web applications and APIs, at scale and with no prior infrastructure experience required. Start with your source code or a container image. App Runner automatically builds and deploys the web application and load balances traffic with encryption. App Runner also scales up or down automatically to meet your traffic needs.

What you will accomplish

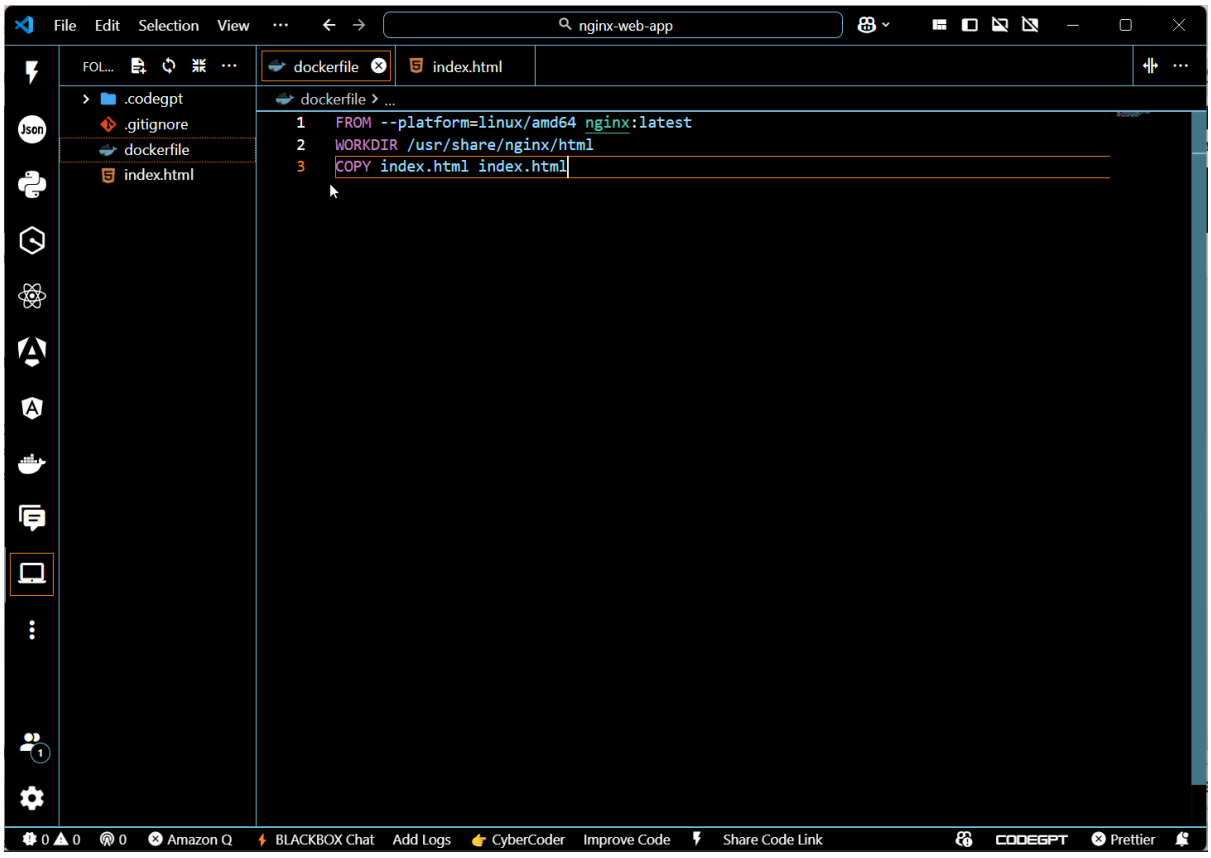
In this project, you will:

- **Create a container image for your web app**
- **Push the image to Amazon Elastic Container Registry**
- **Create an AWS App Runner service**
- **Clean up your resources**
- **STEP 1 CREATE A CONTAINER IMAGE FOR YOUR WEB APP**

- **Set Up Your Web App Locally**
- Let's assume you have a basic web app (like an `index.html` file).
  LIKE THIS



Create another file named *Dockerfile*, and update it



- **Then login into aws linux 2 instances and then follow bellow steps**
- **cmd**

mkdir nginx-web-app

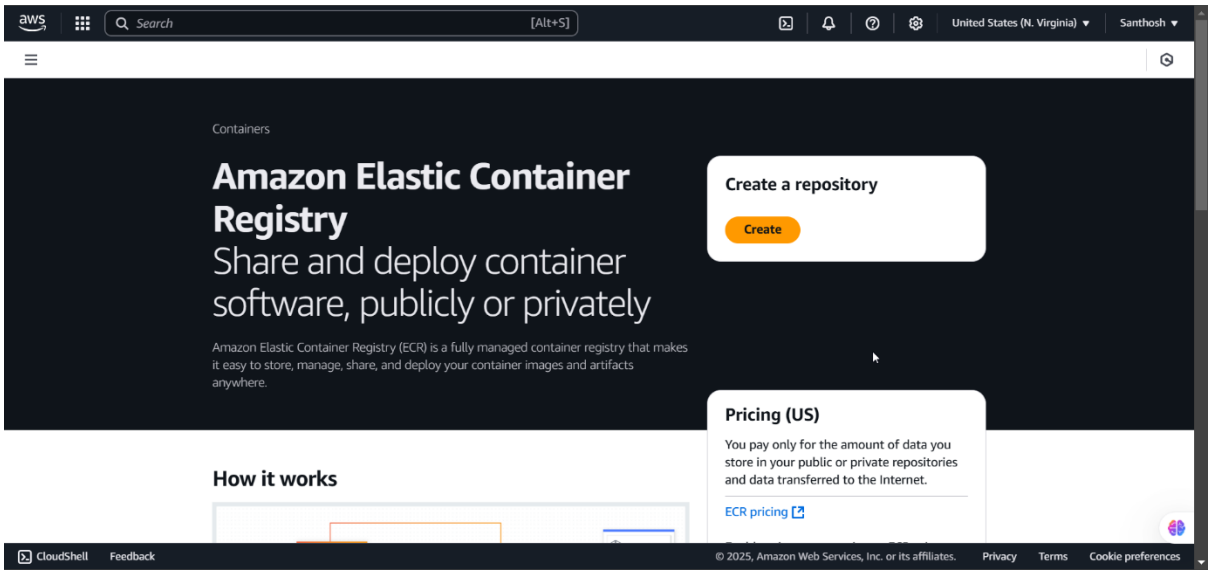
cd nginx-web-app

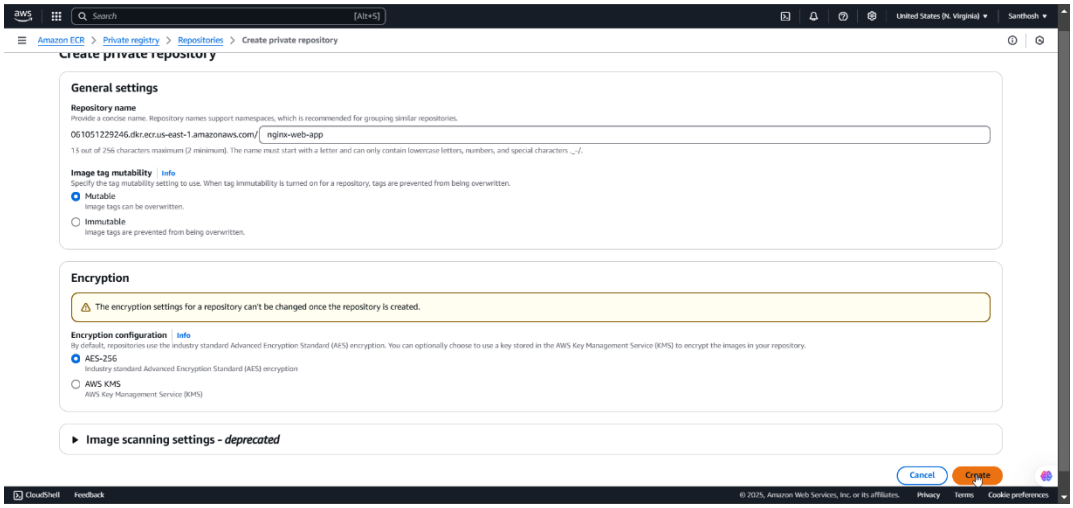
,then move the my local file into ec2 instance using filezilla (ftp tool) or github clone

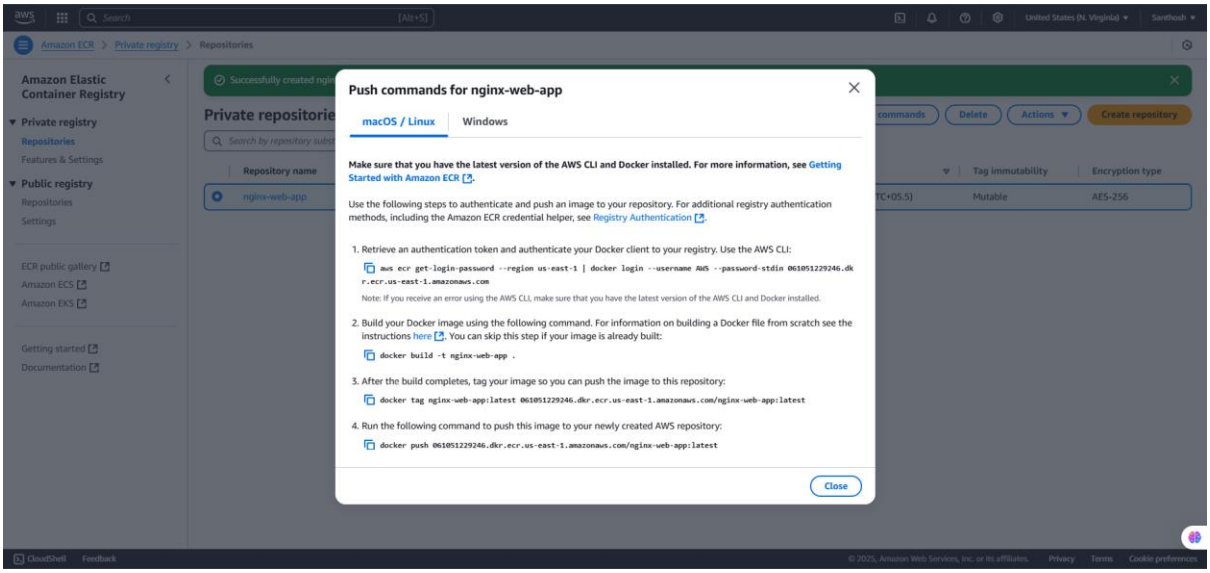
Create the container images >>>docker build -t nginx-web-app .

STEP 2> Push the image to Amazon Elastic registry

Create



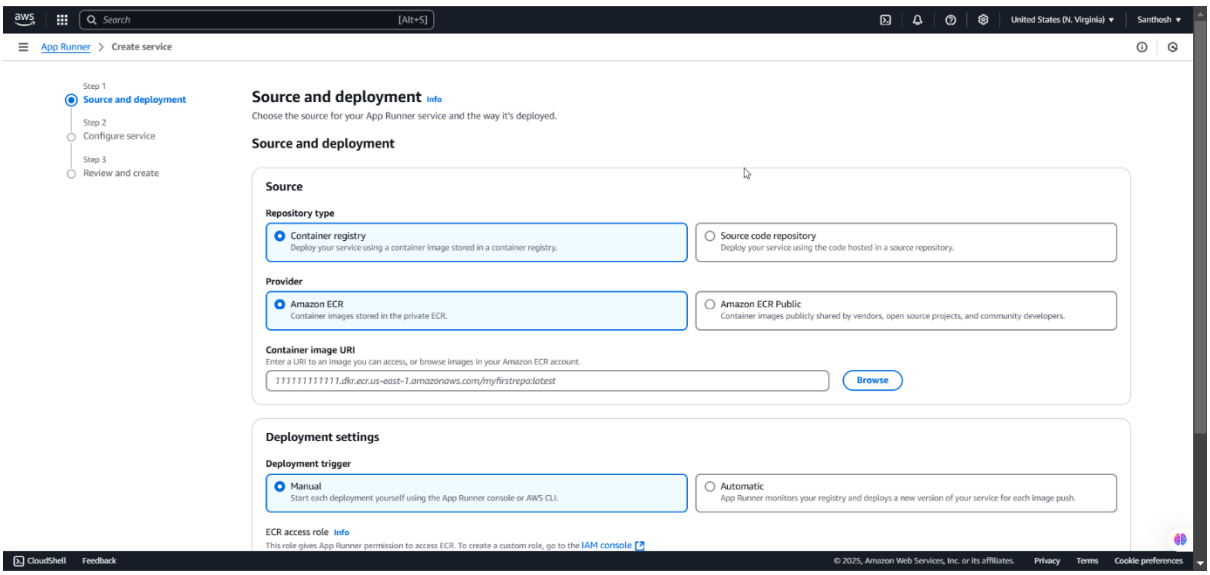




Then need install cli in ec2 server

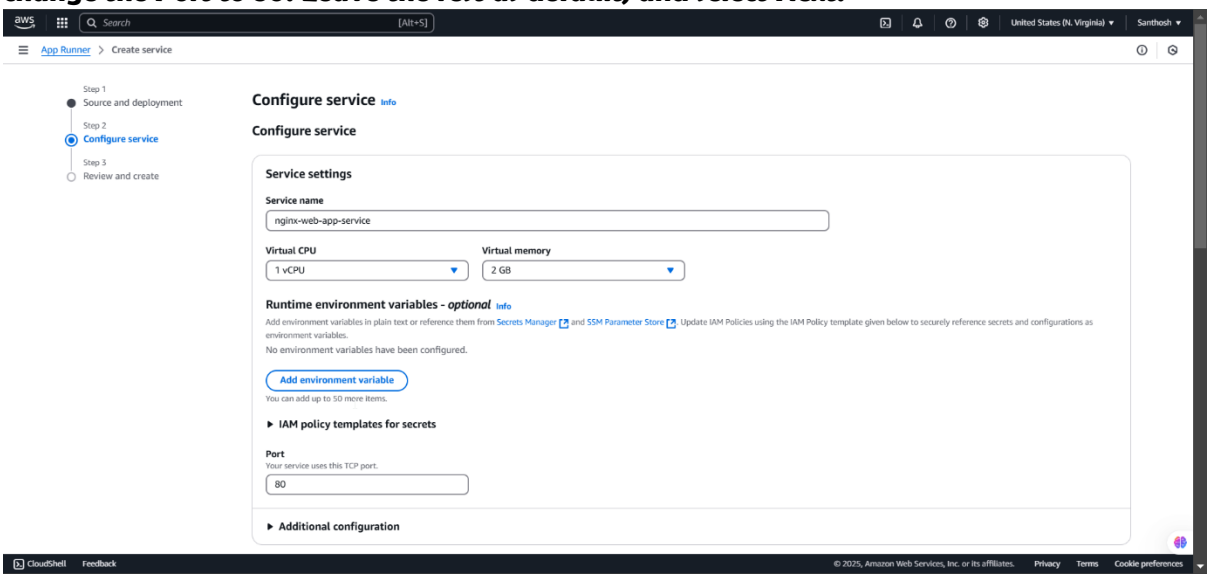
NEED ADD IAM ROLE IN(AmazonSSMRoleForInstancesQuickSetup) Search this and add this permission (AmazonEC2ContainerRegistryFullAccess.)

Step 3 create an AWS App Runner service



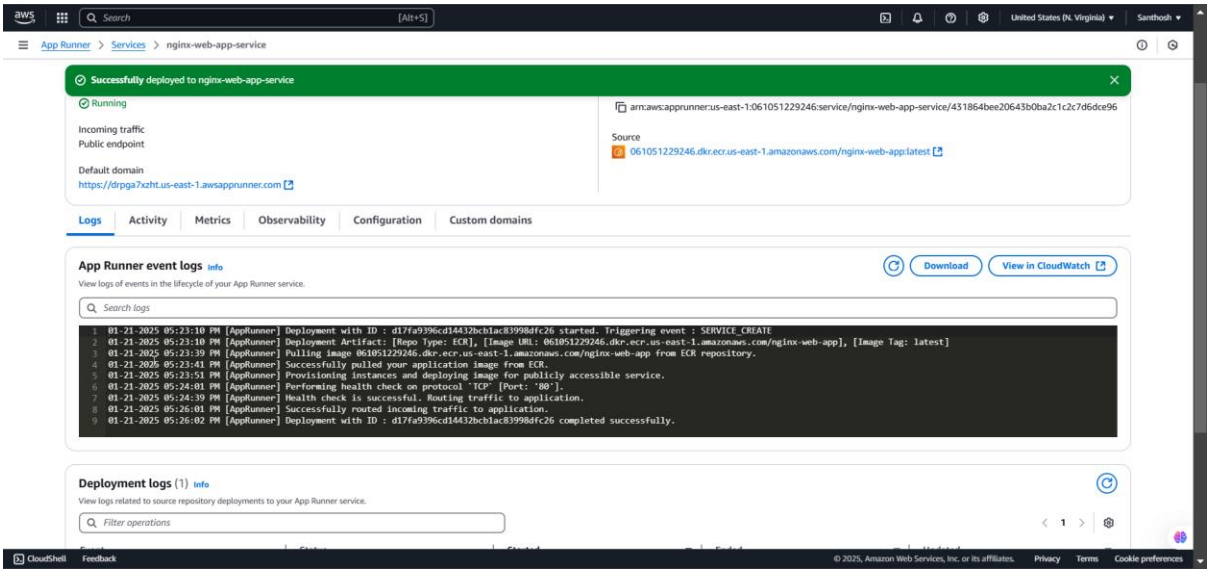
In the Deployment settings section, for ECR access role, select Create new service role, and choose Next.

On the Configure service page, for Service name enter nginx-web-app-service, and change the Port to 80. Leave the rest as default, and select Next.

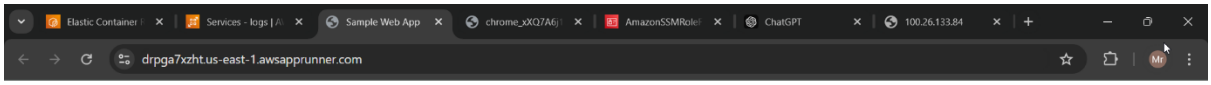


On the Review and create page, review all inputs, and choose Create & deploy.

It will take several minutes for the service to be deployed. You can view the event logs for progress.



Once the status updates to Running, choose the default domain name URL to view the web app.



Welcome to AWS App Runner!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

Thank you for using AWS App Runner!