

Building a CI/CD Pipeline with AWS CloudPipeline to deploy a static website on AWS S3

-Kavitha Bangalore

AWS CodePipeline provides a native AWS continuous deployment pipeline to manage web application deployments from the source code repository to the deployment of the web application.

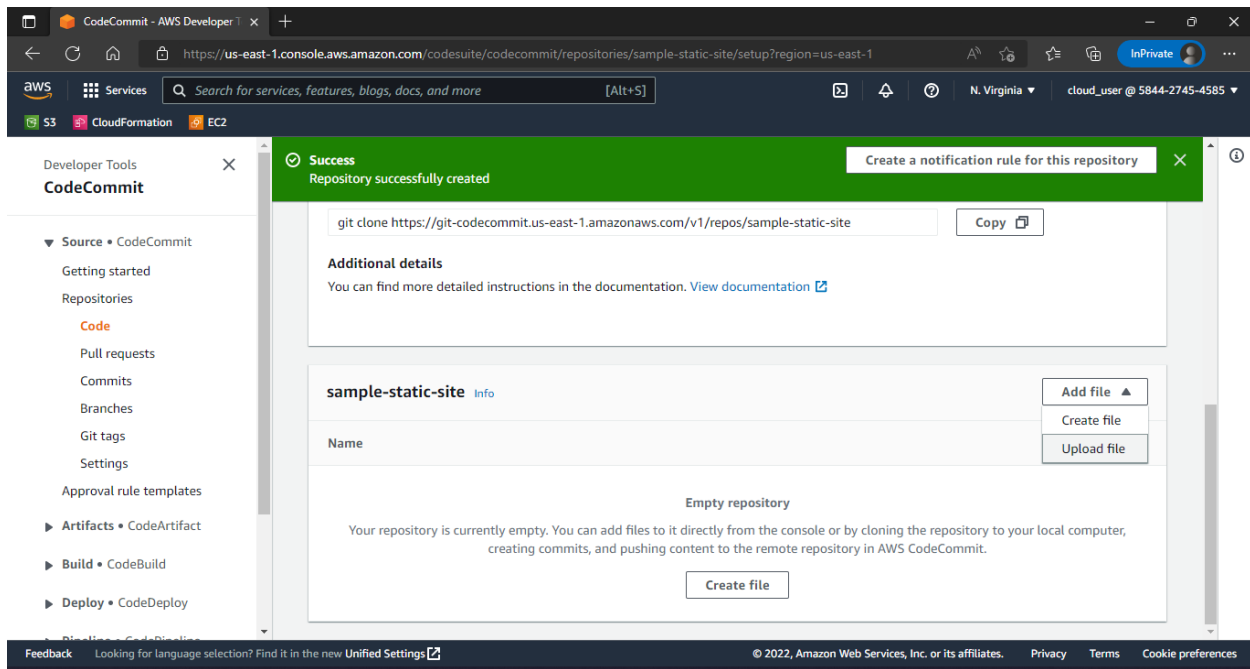
Below is a high-level architecture diagram of how the CI/CD Pipeline with AWS CodePipeline to Deploy a Static Website on AWS:



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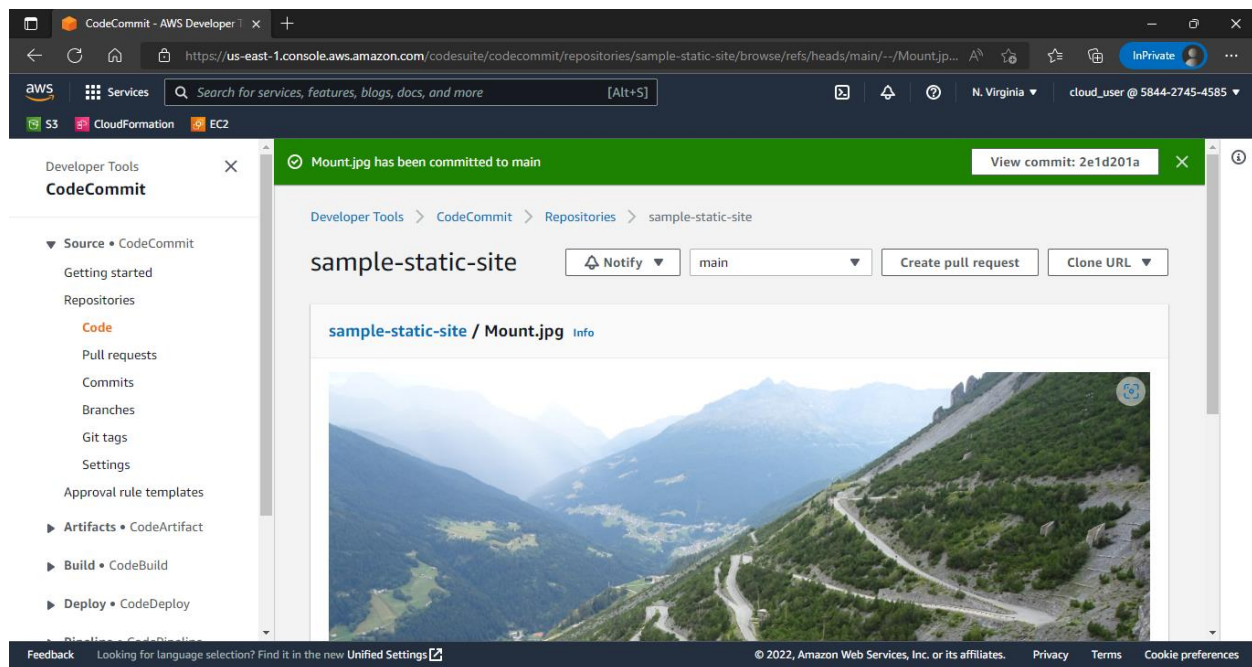
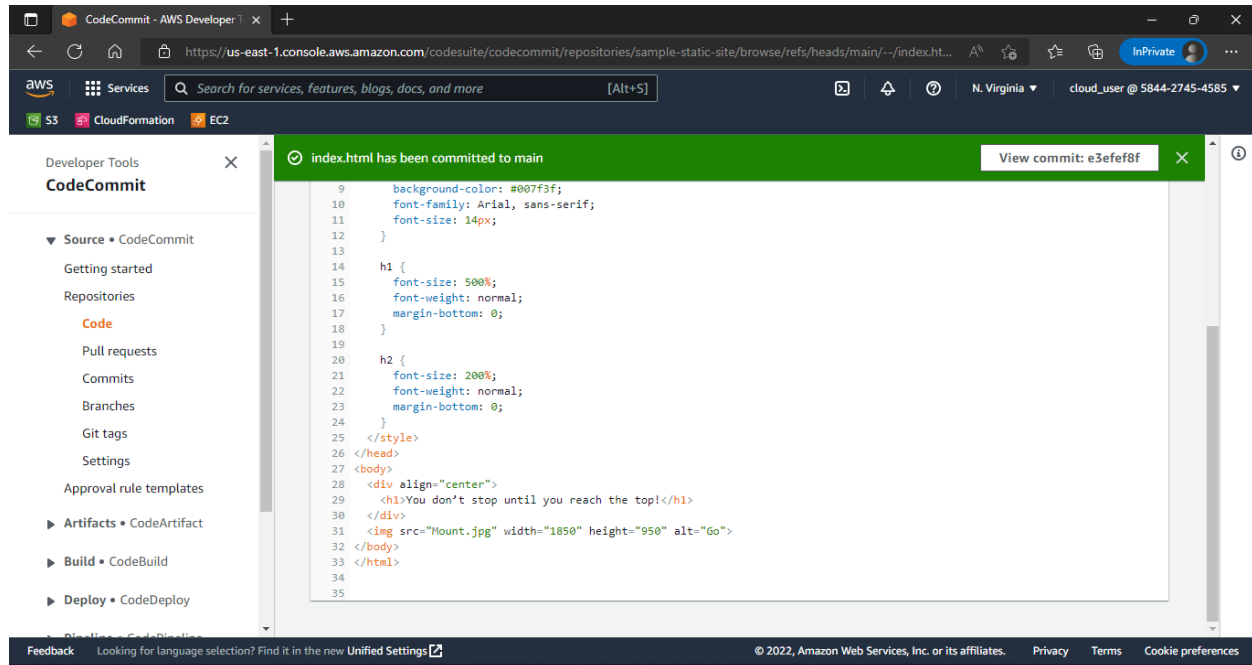
STEP 1: First, create a Repo using CodeCommit from the AWS Management Console.



STEP 2: Upload files using CodeCommit – index.html and mount.jpg

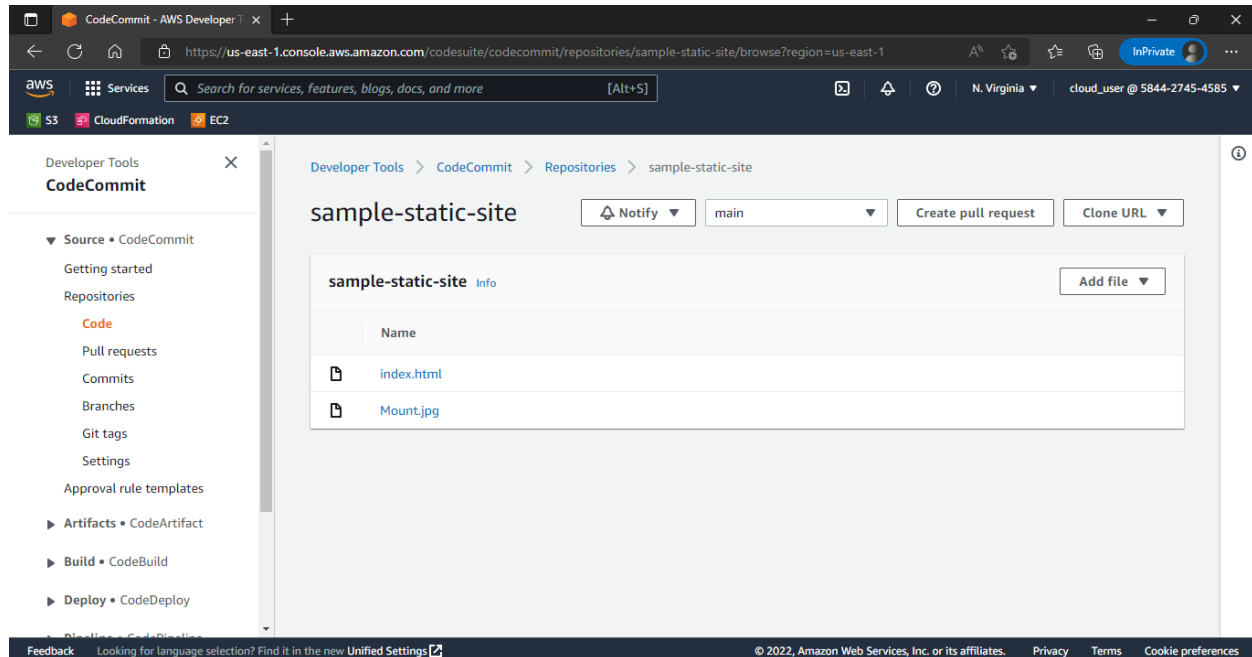
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STEP 3: Next setup the S3 bucket and the bucket policy

1. When creating the S3 bucket, enable Static Website Hosting.
2. In the S3 Bucket under permissions, select the Policy Generator and the Action: GetObject, The Bucket ARN number can be got from the Bucket main page.
3. Then Add Statement and generate the policy.
4. Copy the policy and paste it in the S3 bucket policy editor.

STEP 4 : Next create the CodePipeline

1. The CodePipeline as indicated in the architecture diagram uses the CodeCommit and CodeDeploy services of AWS to deploy the static website.
2. Then extract the file to deploy and create a pipeline.
3. Click the bucket website endpoint URL to view the static website.