AWS Project: Build a Game with a Continuous Deployment Pipeline from GitHub to S3

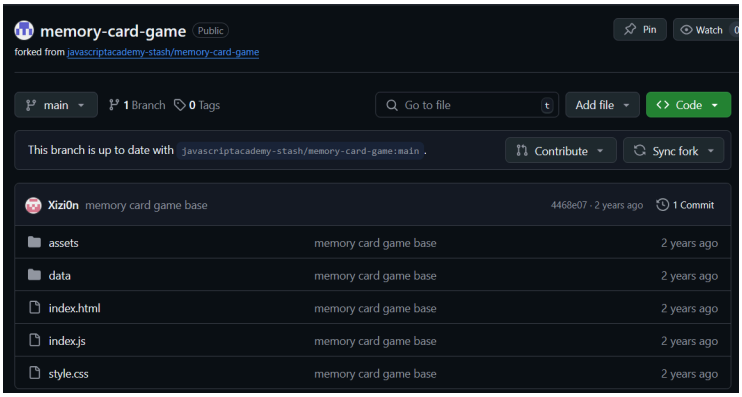
For this project I will be building a simple memory game with HTML, CSS, and Javascript. The code will be in ___ GitHub. Then I will be using an S3 bucket and configure it for static website hosting. Lastly, I will be creating a CodePipeline that pulls the code stored on GitHub and deploy to the S3 bucket.

What is CodePipeline?

AWS CodePipeline is a managed service that automates essential processes such as building, testing and deploying projects. The user only needs to specify a source (where the project code is stored, usually a GitHub Repository), and where to deploy it to (in this case S3), and CodePipeline handles everything else.

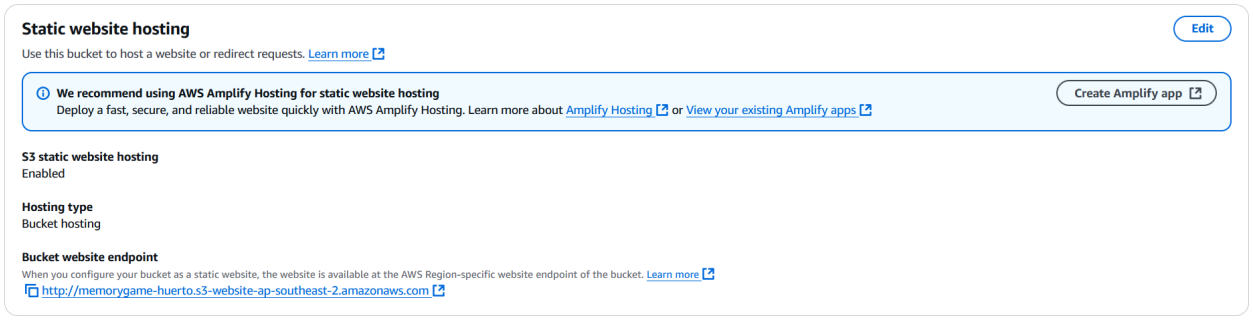
Create the Source

The simple memory game is created using HTML, CSS, and Javascript. I found a working memory game on GitHub and forked the repository into my own to get the game code.

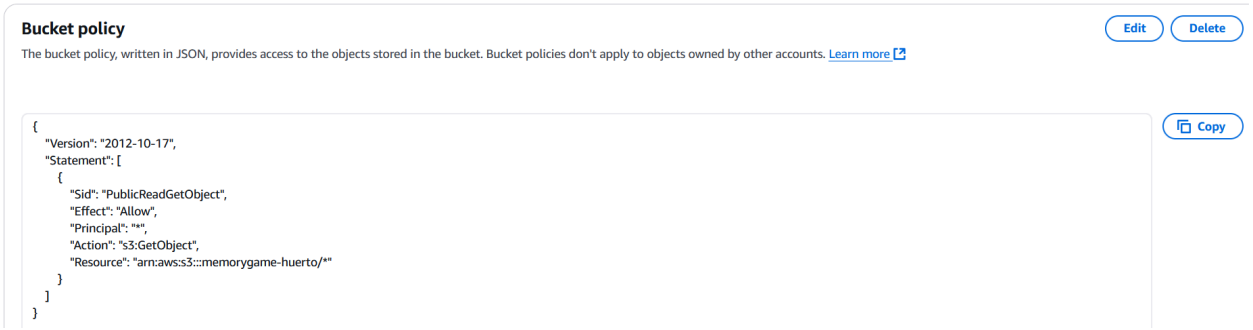


Create and Configure The S3 Bucket

The S3 bucket is an object storage service that can also be configured to host websites. I created an S3 bucket named memorygame-huerto, and disabled the option, “Block All Public Access” since I want anyone to have easy access to this memory game. Next, I enabled Static Website Hosting under the properties tab.

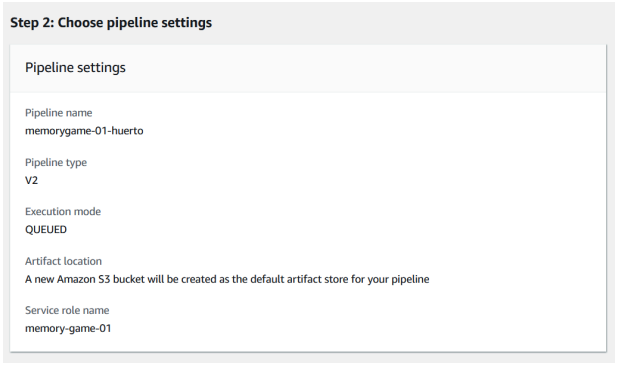


Lastly for the bucket configurations, I added a bucket policy to allow any principal to access the objects in the S3 bucket.

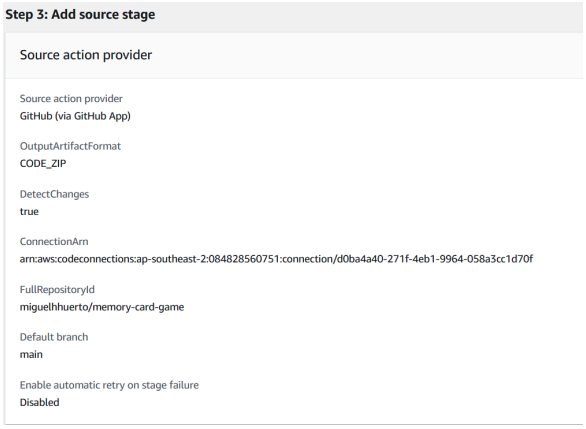


Create CodePipeline

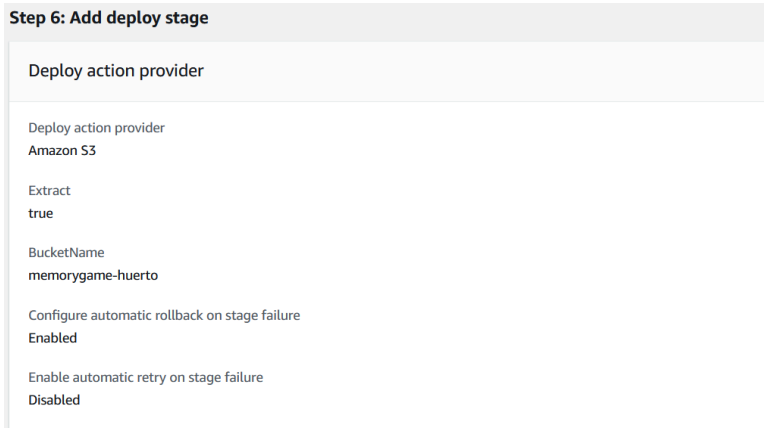
Now with the code setup in GitHub, and the S3 bucket configured, all that’s left is creating Code Pipeline. CodePipeline orchestrates getting the code from GitHub onto the S3 bucket. I created a custom pipeline with these settings:



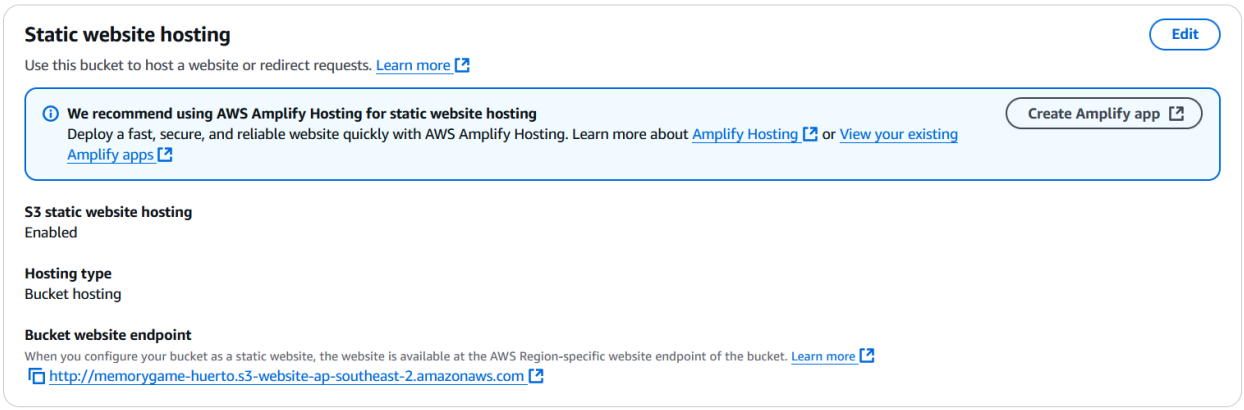
Then I connected my GitHub account and repository to my AWS account



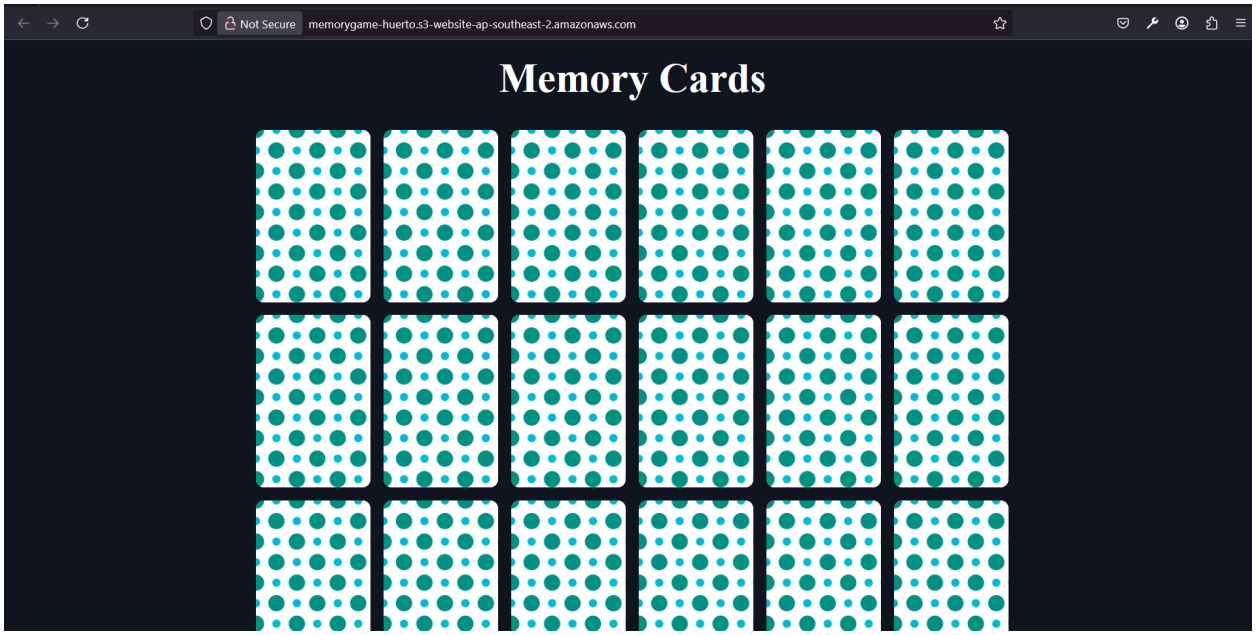
Lastly I defined my deploy stage, which is the S3 bucket I configured in the previous step.

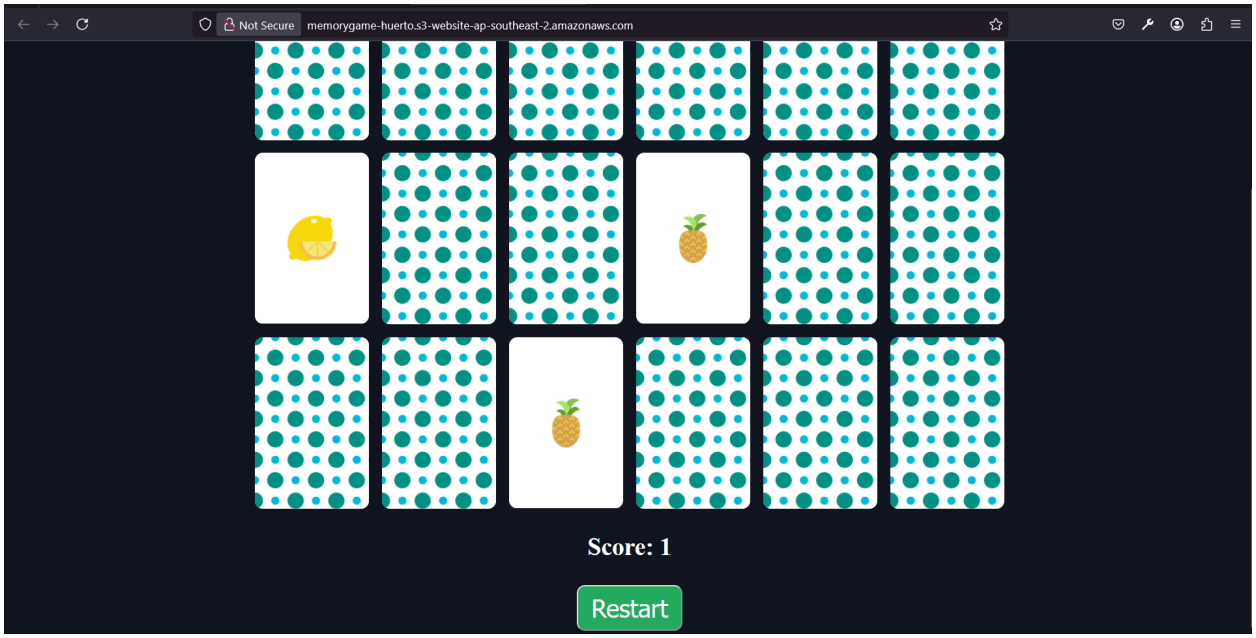


After the Pipeline indicates that it has been successfully completed, a website endpoint can be seen under the properties of the S3 bucket.



The game is now live on a real URL that can be shared and accessed publicly.




Not Secure
memorygame-huerto.s3-website-ap-southeast-2.amazonaws.com
Score: 1
Restart