**Deploying an Angular Application to an S3 Bucket**

Steps to manually deploy an nG application to an S3 bucket:

1) configure a S3 bucket for Static Web Hosting

* A bucket level policy will be required that allows for anyone to retrieve objects from the bucket:

{  
 "Version":"2012-10-17",  
 "Statement":[{  
 "Sid":"PublicReadGetObject",  
 "Effect":"Allow",  
 "Principal": "\*",  
 "Action":["s3:GetObject"],  
 "Resource":["arn:aws:s3:::example-bucket/\*"]  
 }]  
 }

2) run `ng build --prod` on your nG app to generate the `dist` folder

3) If unsuccessful, debug the app and rebuild

4) If successful, deposit the contents of the `dist` folder to you configured S3 bucket

Setting up an automated Continuous Delivery Pipeline using CodeBuild

You can use CodePipeline to automate this and have CodeBuild build the app. A buildspec.yml file will be required to tell CodeBuild how to build the app, and configure the S3 bucket to allow for the CodeBuild Service to have DeleteObject, List\*, and PutObject permissions. I recommend adding the S3FullAccess IAM Policy to the IAM role associate with your CodeBuild project. It is much easier to do this versus configuring bucket level policies.

Example of a buildspec.yml file for CodeBuild:

version: 0.2

phases:

install:

commands:

- echo Installing source NPM dependencies…

- npm install

- npm install -g @angular/cli

build:

commands:

- echo Build started on `date`

- ng build --prod

- echo Build completed on `date`

post\_build:

commands:

- echo Deploying production files to S3 web hosting bucket

- aws s3 sync --delete dist s3://<NAME OF YOUR S3 BUCKET>

- echo Files deployed on `date`

artifacts:

files:

- '\*\*/\*'

base-directory: 'dist'

discard-paths: yes1