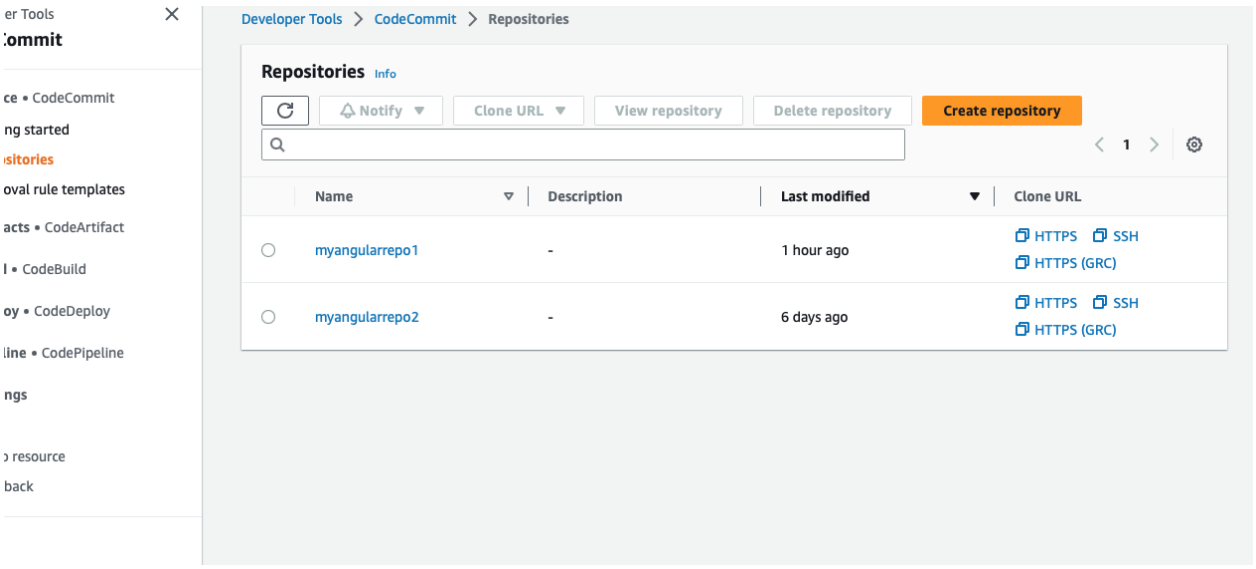
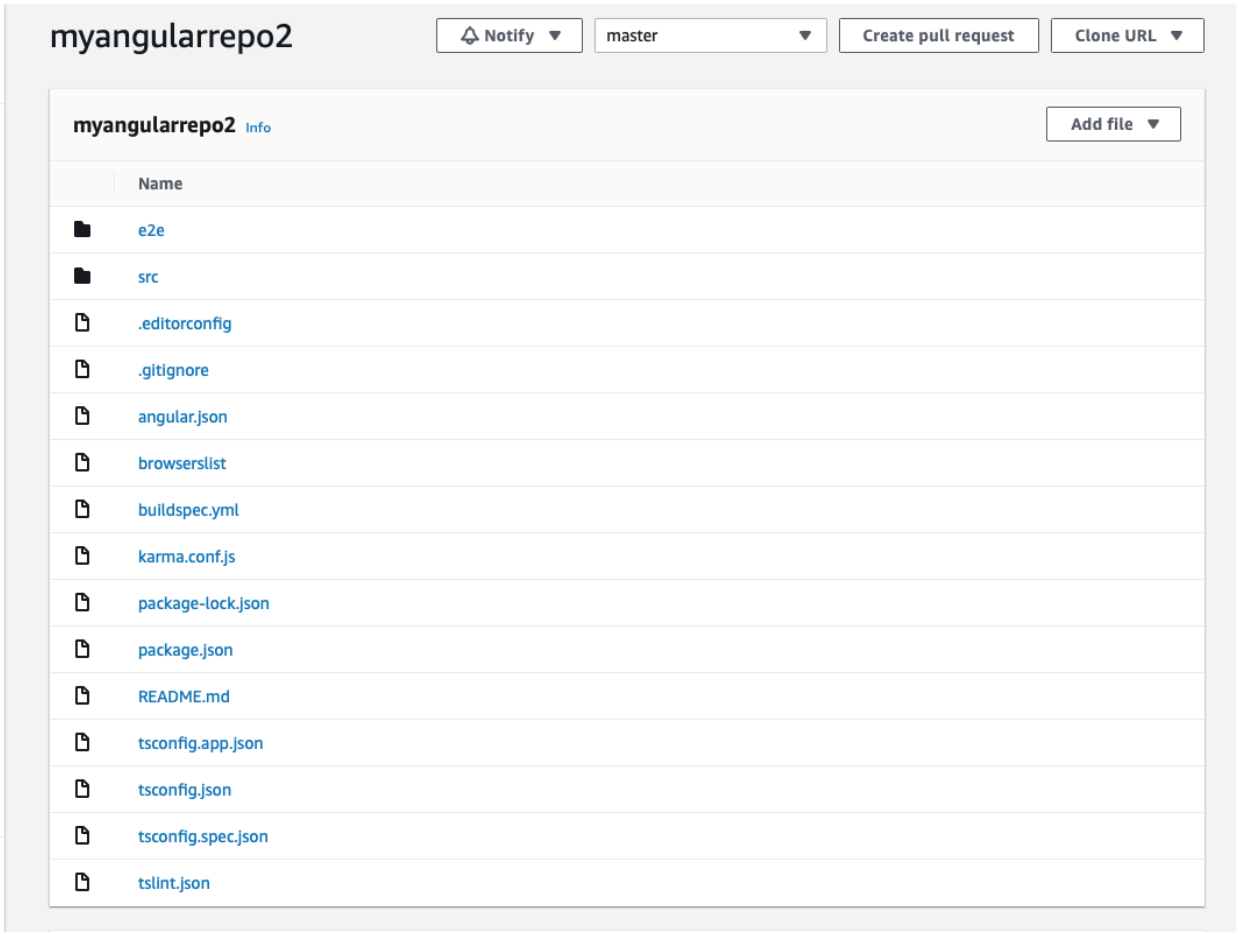
In this project we accomplished multiple tasks

1) Push source code developed in Angular to a code commit repository called "myangularrepo2"
2) Create an S3 bucket that is hosting a static website "muyangularwebsite11"
3) Create a code pipeline with a build stage to build and deploy the code to an S3 bucket that hosts the application




myangularrepo2
Notify
master
Create pull request
Clone URL
myangularrepo2 Info
Add file
Name
e2e
src
.editorconfig
.gitignore
angular.json
browserslist
buildspec.yml
karma.conf.js
package-lock.json
package.json
README.md
tsconfig.app.json
tsconfig.json
tsconfig.spec.json
tslint.json

README.md

View source | Edit

MyAngularProject

This project was generated with Angular CLI version 9.0.6.

Development server

Run `ng serve` for a dev server. Navigate to `http://localhost:4200/`. The app will automatically reload if you change any of the source files.

Code scaffolding

Run `ng generate component component-name` to generate a new component. You can also use `ng generate directive|pipe|service|class|guard|interface|enum|module`.

Build

Run `ng build` to build the project. The build artifacts will be stored in the `dist/` directory. Use the `--prod` flag for a production build.

Running unit tests

Run `ng test` to execute the unit tests via Karma.

Running end-to-end tests

Run `ng e2e` to execute the end-to-end tests via Protractor.

Further help

To get more help on the Angular CLI use `ng help` or go check out the Angular CLI README.

Create bucket Info

Buckets are containers for data stored in S3. Learn more

General configuration

Bucket name

myangularwebsite11

Bucket name must be unique within the global namespace and follow the bucket naming rules. See rules for bucket naming

AWS Region

US East (N. Virginia) us-east-1

Copy settings from existing bucket - *optional*

Only the bucket settings in the following configuration are copied.

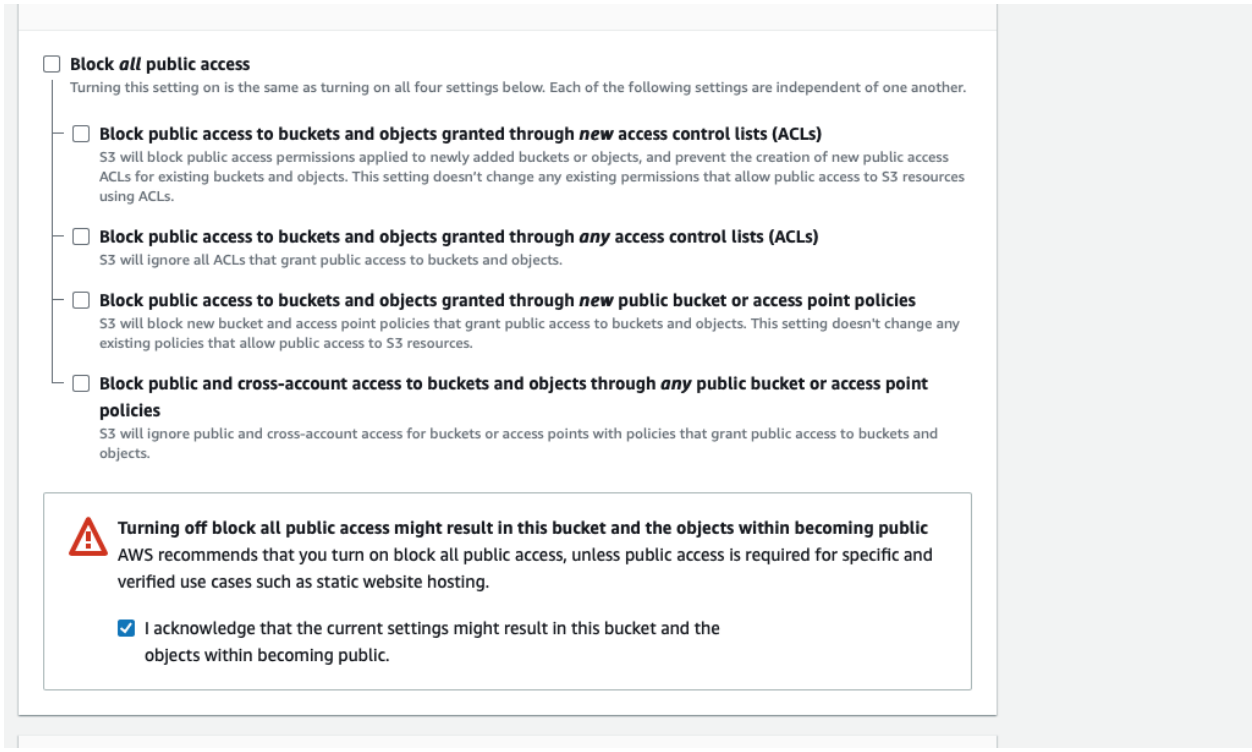
Choose bucket

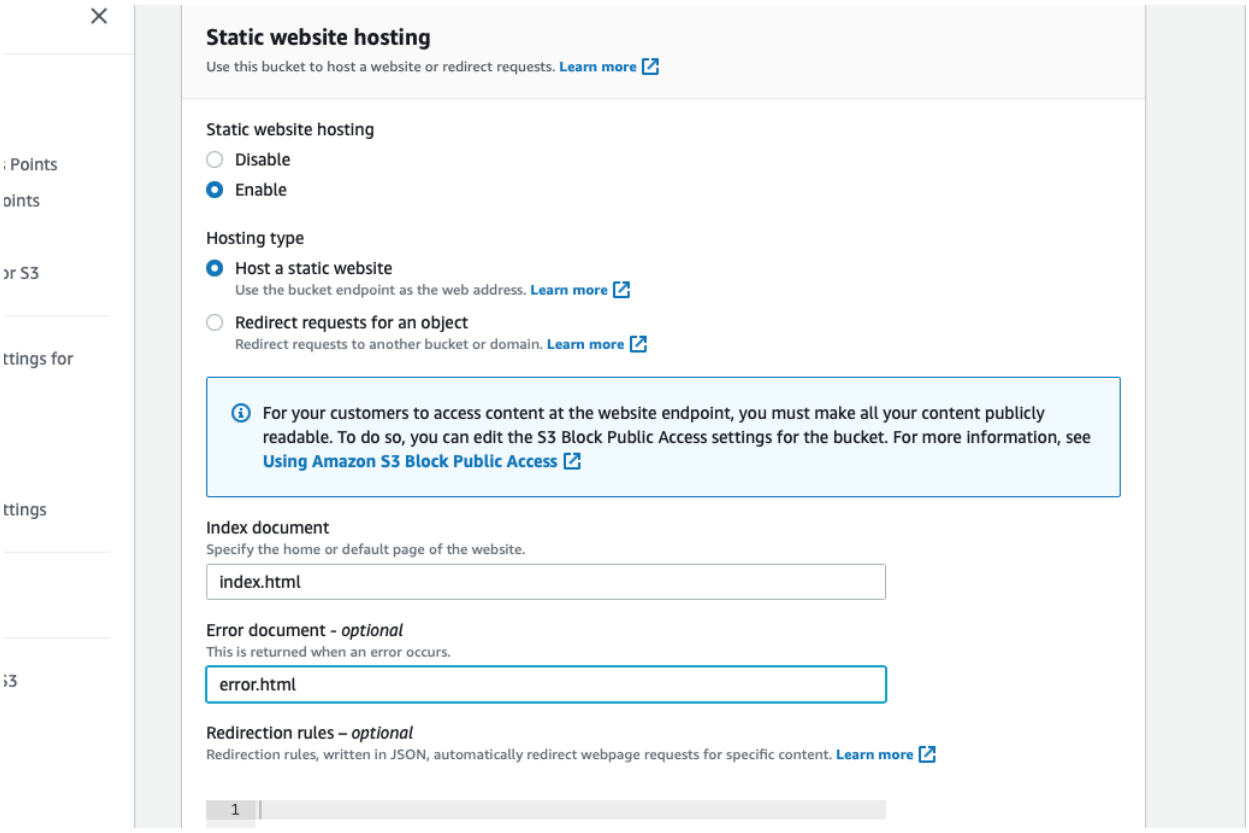
Object Ownership Info

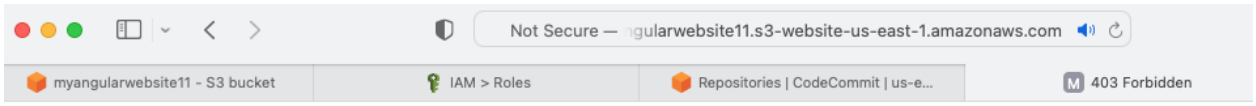
Control ownership of objects written to this bucket from other AWS accounts and the use of access control lists (ACLs). Object ownership determines who can specify access to objects.

ACLs disabled (recommended)
All objects in this bucket are owned by this account. Access to this bucket and its objects is specified using only policies.

ACLs enabled
Objects in this bucket can be owned by other AWS accounts. Access to this bucket and its objects can be specified using ACLs.


Block all public access
Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.
Block public access to buckets and objects granted through new access control lists (ACLs)
S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.
Block public access to buckets and objects granted through any access control lists (ACLs)
S3 will ignore all ACLs that grant public access to buckets and objects.
Block public access to buckets and objects granted through new public bucket or access point policies
S3 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to S3 resources.
Block public and cross-account access to buckets and objects through any public bucket or access point policies
S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.
Turning off block all public access might result in this bucket and the objects within becoming public
AWS recommends that you turn on block all public access, unless public access is required for specific and verified use cases such as static website hosting.
I acknowledge that the current settings might result in this bucket and the objects within becoming public.


Static website hosting
Use this bucket to host a website or redirect requests. Learn more
Static website hosting
Disable
Enable
Hosting type
Host a static website
Use the bucket endpoint as the web address. Learn more
Redirect requests for an object
Redirect requests to another bucket or domain. Learn more
For your customers to access content at the website endpoint, you must make all your content publicly readable. To do so, you can edit the S3 Block Public Access settings for the bucket. For more information, see Using Amazon S3 Block Public Access
Index document
Specify the home or default page of the website.
index.html
Error document - optional
This is returned when an error occurs.
error.html
Redirection rules – optional
Redirection rules, written in JSON, automatically redirect webpage requests for specific content. Learn more
1



403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: 8HHNJVPXR4S0FKDV
- HostId: D/Hi2GsWyKY9IvmzsxHvPLoxo+J2waUgnbpdCldajBfYIXmTZCWrOMyJpFsaFPe+i37f7JQNhh8=

An Error Occurred While Attempting to Retrieve a Custom Error Document

- Code: AccessDenied
- Message: Access Denied

Choose pipeline settings Info

Pipeline settings

Pipeline name

Enter the pipeline name. You cannot edit the pipeline name after it is created.

myangularpipeline1

No more than 100 characters

Service role

New service role
Create a service role in your account

Existing service role
Choose an existing service role from your account

Role name

AWSCodePipelineServiceRole-us-east-1-myangularpipeline1

Type your service role name

Allow AWS CodePipeline to create a service role so it can be used with this new pipeline

▸ Advanced settings

Cancel Next

ings

Source

Source provider
This is where you stored your input artifacts for your pipeline. Choose the provider and then provide the connection details.

AWS CodeCommit

Repository name
Choose a repository that you have already created where you have pushed your source code.

myangularrepo2

Branch name
Choose a branch of the repository

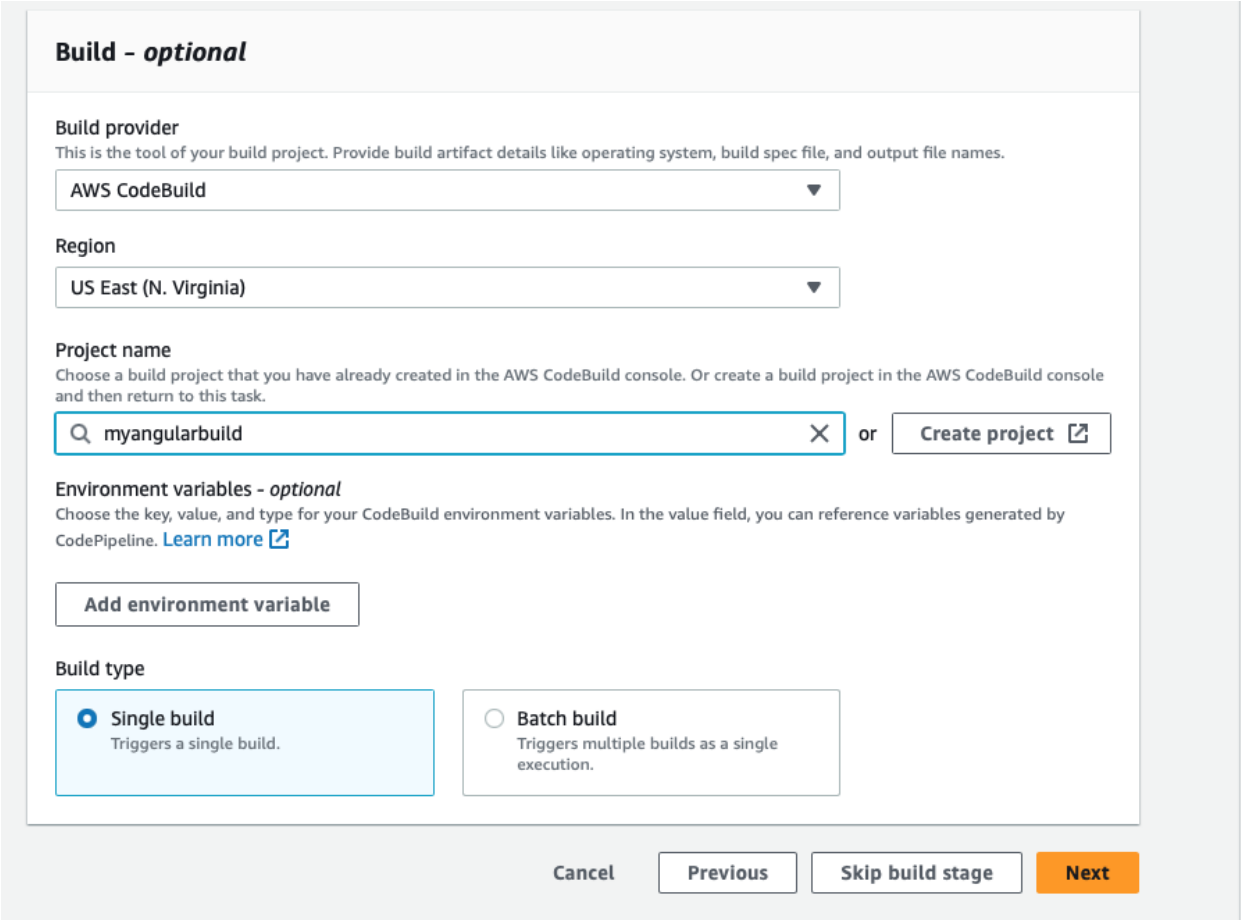
master

Change detection options
Choose a detection mode to automatically start your pipeline when a change occurs in the source code.

- (•) **Amazon CloudWatch Events (recommended)**
  Use Amazon CloudWatch Events to automatically start my pipeline when a change occurs
- ( ) **AWS CodePipeline**
  Use AWS CodePipeline to check periodically for changes

Output artifact format
Choose the output artifact format.

- (•) **CodePipeline default**
  AWS CodePipeline uses the default zip format for artifacts in the pipeline. Does not include Git metadata about the repository.
- ( ) **Full clone**
  AWS CodePipeline passes metadata about the repository that allows subsequent actions to do a full Git clone. Only supported for AWS CodeBuild actions.


Build - optional
Build provider
This is the tool of your build project. Provide build artifact details like operating system, build spec file, and output file names.
AWS CodeBuild
Region
US East (N. Virginia)
Project name
Choose a build project that you have already created in the AWS CodeBuild console. Or create a build project in the AWS CodeBuild console and then return to this task.
myangularbuild
or
Create project
Environment variables - optional
Choose the key, value, and type for your CodeBuild environment variables. In the value field, you can reference variables generated by CodePipeline. Learn more
Add environment variable
Build type
Single build
Triggers a single build.
Batch build
Triggers multiple builds as a single execution.
Cancel
Previous
Skip build stage
Next

Add deploy stage Info

Deploy - *optional*

Deploy provider
Choose how you deploy to instances. Choose the provider, and then provide the configuration details for that provider.

Amazon S3

Region

US East (N. Virginia)

Bucket

myangularwebsite11

Deployment path - *optional*

Extract file before deploy
The deployed artifact will be unzipped before deployment.

▼ Additional configuration

Extract file before deploy
The deployed artifact will be unzipped before deployment.

▼ Additional configuration

KMS encryption key ARN - *optional*
Encrypt your object using a KMS encryption key. If no key is provided, objects remain un-encrypted.

arn:aws:kms:<region-ID>:<account-ID>:key/<key-ID> OR arn:aws:kms:<region-ID>:<account-ID>:alias/<alias-name>

Canned ACL - *optional*
Specify an Amazon S3 canned access control list (ACL) for your bucket.

public-read

Cache control - *optional*
Set cache control for objects requested from your Amazon S3 bucket.

Cancel | Previous | Skip deploy stage | Next

Step 1: Choose pipeline settings

Pipeline settings

Pipeline name
myangularpipeline1

Artifact location
codepipeline-us-east-1-819264394326

Service role name
AWSCodePipelineServiceRole-us-east-1-myangularpipeline1

Step 2: Add source stage

Source action provider

Source action provider
AWS CodeCommit

RepositoryName
myangularrepo2

BranchName
master

PollForSourceChanges
false

OutputArtifactFormat
CODE_ZIP

Step 3: Add build stage

Build action provider

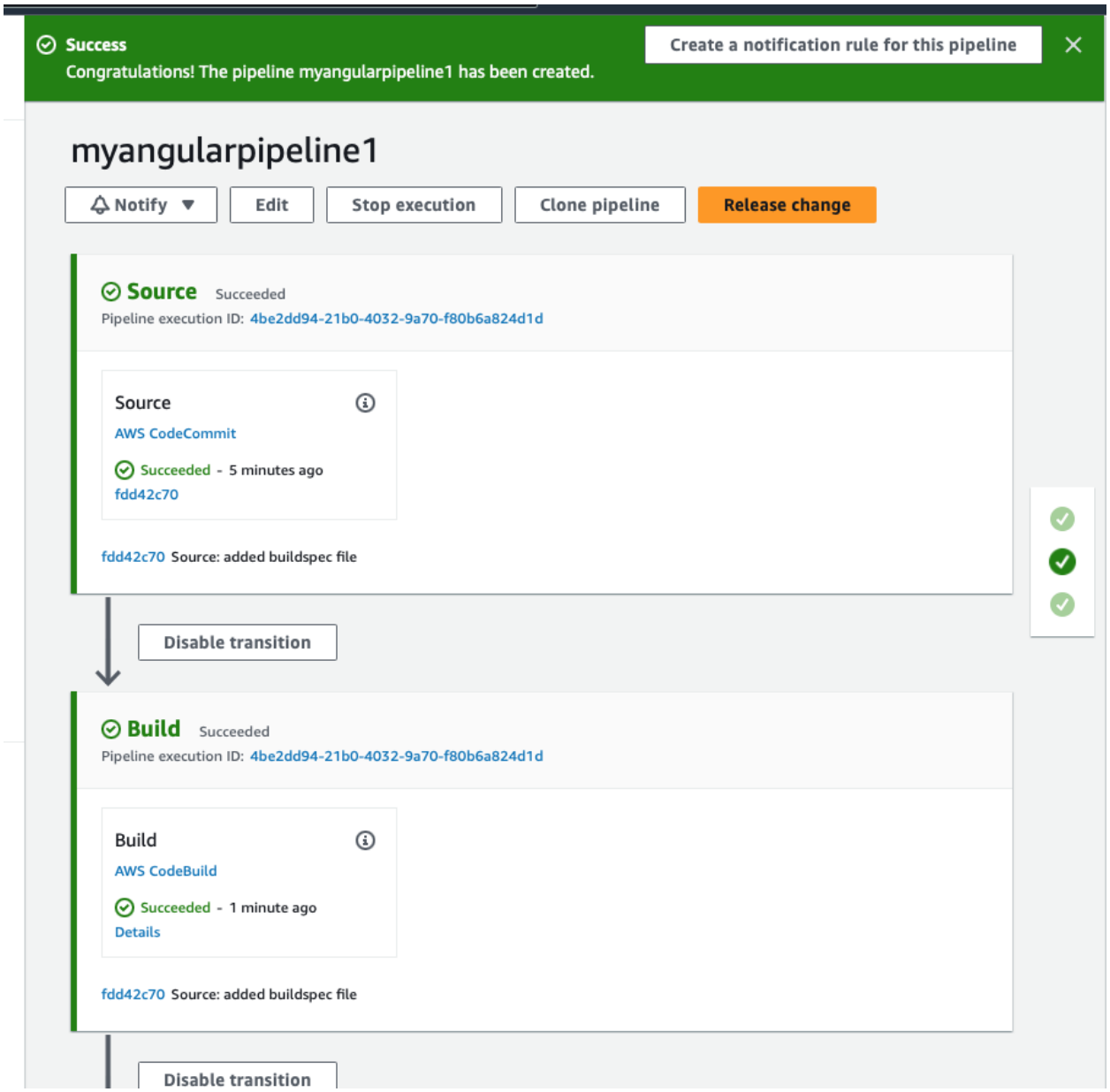
Build action provider
AWS CodeBuild
ProjectName
myangularbuild

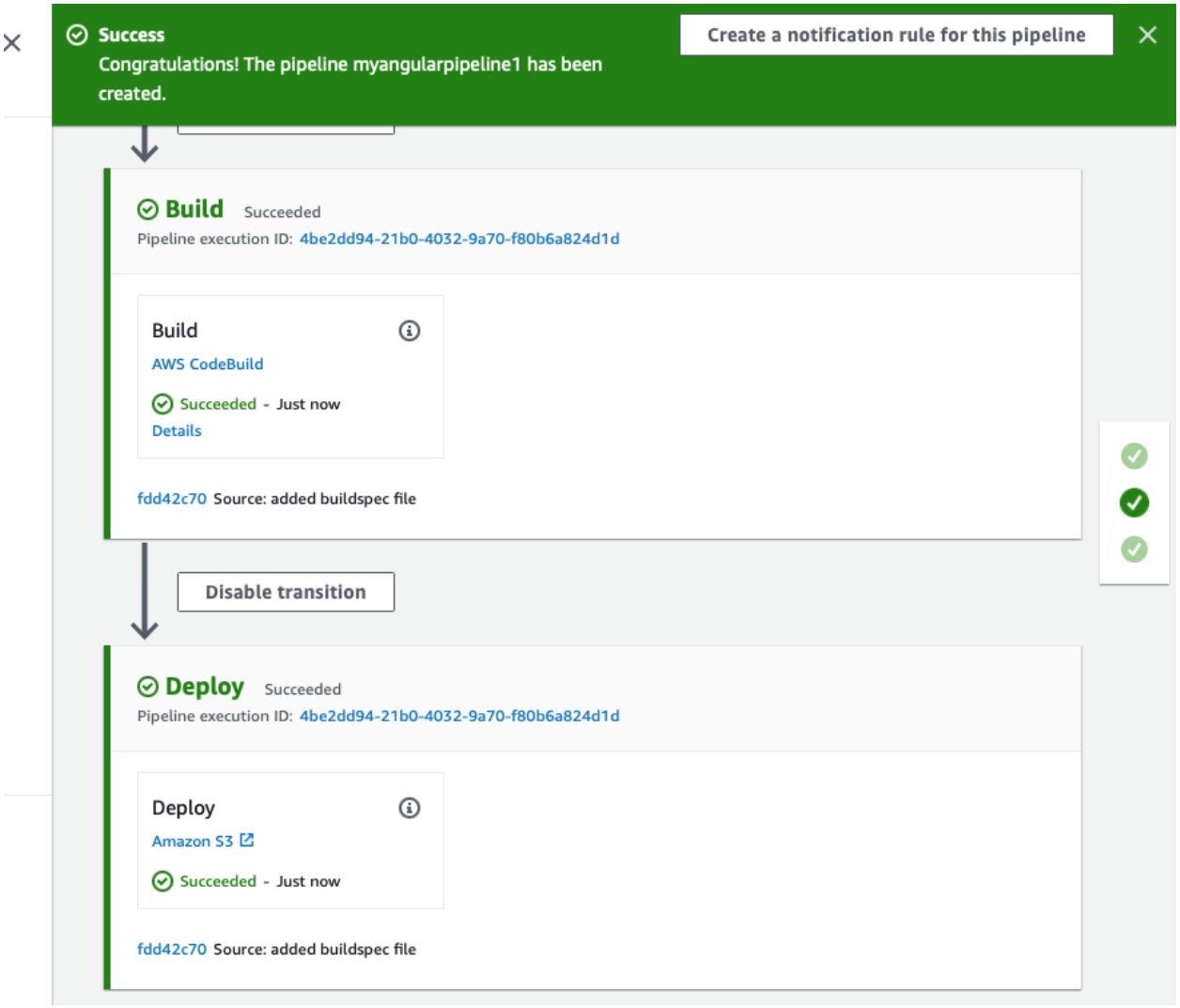
Step 4: Add deploy stage

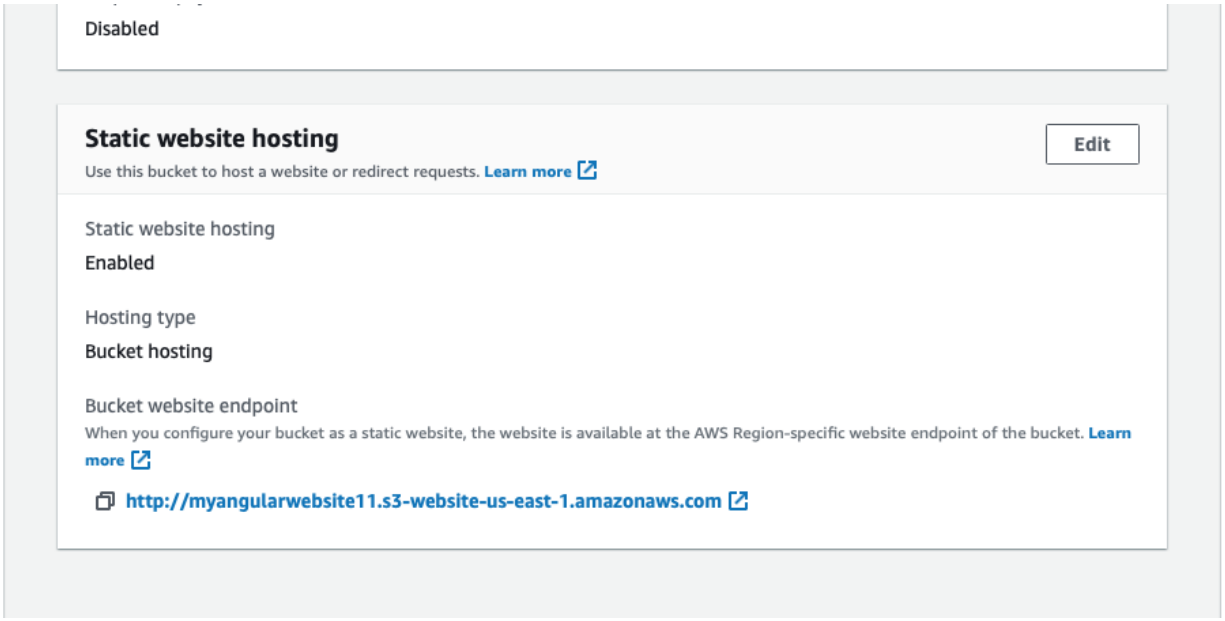
Deploy action provider

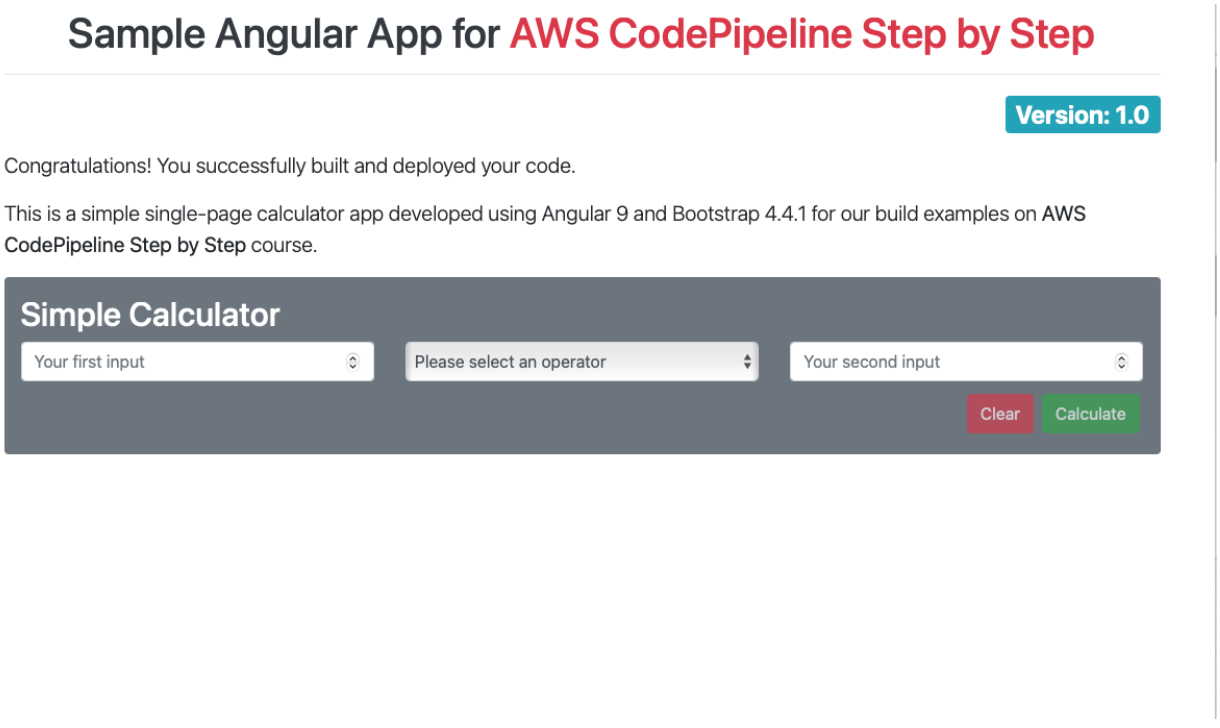
Deploy action provider
Amazon S3
Extract
true
BucketName
myangularwebsite11
CannedACL
public-read

Cancel | Previous | Create pipeline

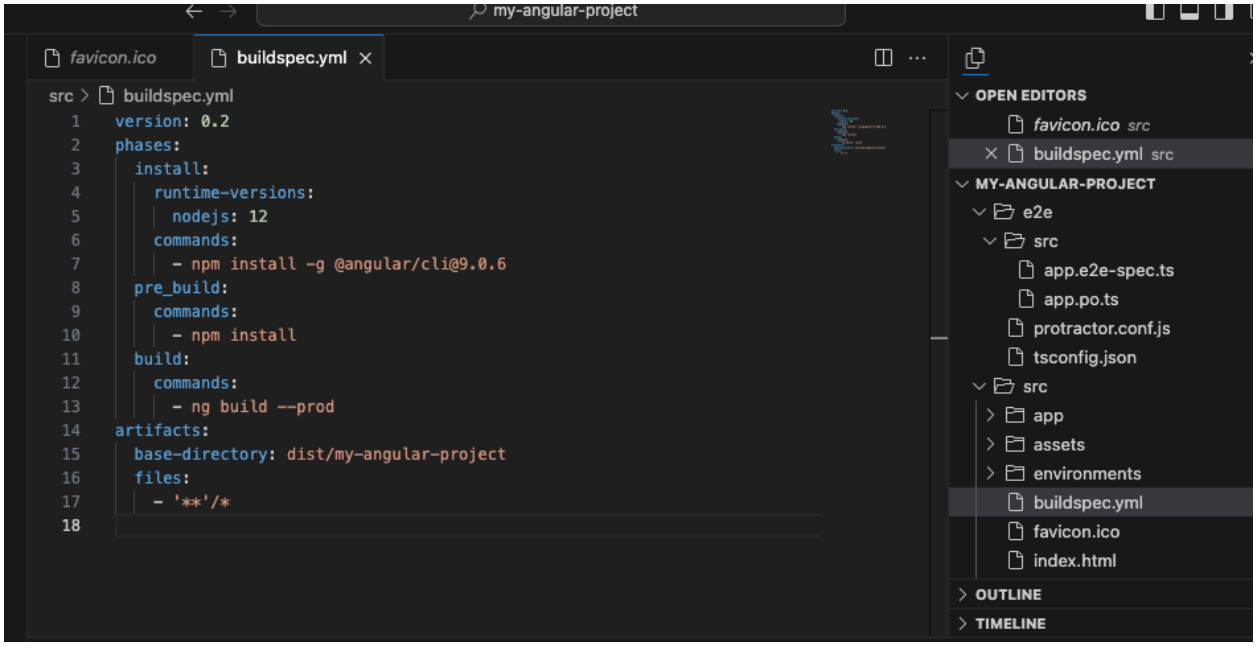

Success
Congratulations! The pipeline myangularpipeline1 has been created.
Create a notification rule for this pipeline
myangularpipeline1
Notify
Edit
Stop execution
Clone pipeline
Release change
Source
Succeeded
Pipeline execution ID: 4be2dd94-21b0-4032-9a70-f80b6a824d1d
Source
AWS CodeCommit
Succeeded - 5 minutes ago
fdd42c70
fdd42c70 Source: added buildspec file
Disable transition
Build
Succeeded
Pipeline execution ID: 4be2dd94-21b0-4032-9a70-f80b6a824d1d
Build
AWS CodeBuild
Succeeded - 1 minute ago
Details
fdd42c70 Source: added buildspec file
Disable transition


Success
Congratulations! The pipeline myangularpipeline1 has been created.
Create a notification rule for this pipeline
Build
Succeeded
Pipeline execution ID: 4be2dd94-21b0-4032-9a70-f80b6a824d1d
Build
AWS CodeBuild
Succeeded - Just now
Details
fdd42c70 Source: added buildspec file
Disable transition
Deploy
Succeeded
Pipeline execution ID: 4be2dd94-21b0-4032-9a70-f80b6a824d1d
Deploy
Amazon S3
Succeeded - Just now
fdd42c70 Source: added buildspec file





The file below is the Buildspec.yml file we created.


my-angular-project
favicon.ico
buildspec.yml
src > buildspec.yml
version: 0.2
phases:
install:
runtime-versions:
nodejs: 12
commands:
- npm install -g @angular/cli@9.0.6
pre_build:
commands:
- npm install
build:
commands:
- ng build --prod
artifacts:
base-directory: dist/my-angular-project
files:
- '**'/*
OPEN EDITORS
favicon.ico src
buildspec.yml src
MY-ANGULAR-PROJECT
e2e
src
app.e2e-spec.ts
app.po.ts
protractor.conf.js
tsconfig.json
src
app
assets
environments
buildspec.yml
favicon.ico
index.html
OUTLINE
TIMELINE