Tutorial for github & aws deployment

1.construct github repository.

-please run this git commands:

git clone <https://github.com/Linkolis/12_client_app_front_end.git>

cd 12\_client\_app\_front\_end

after copy source code to this directory,

git add .

git commit -m “first upload”

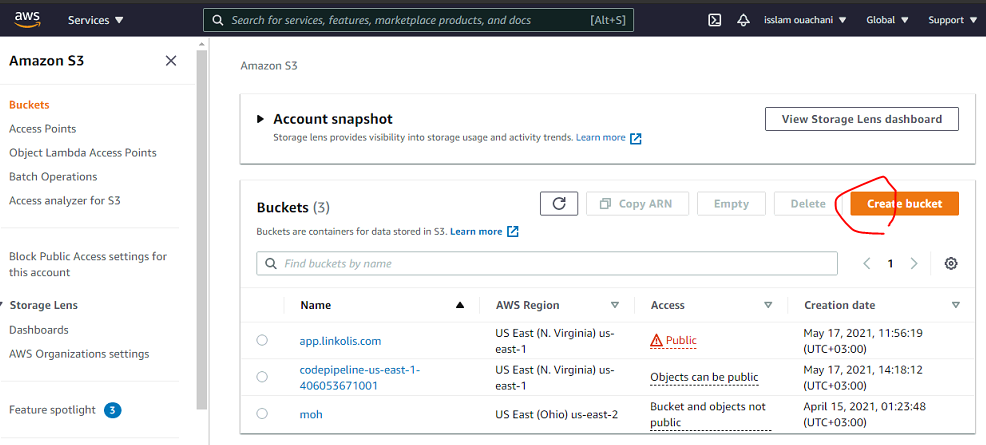
git push

2. deploy first static website in amazon s3

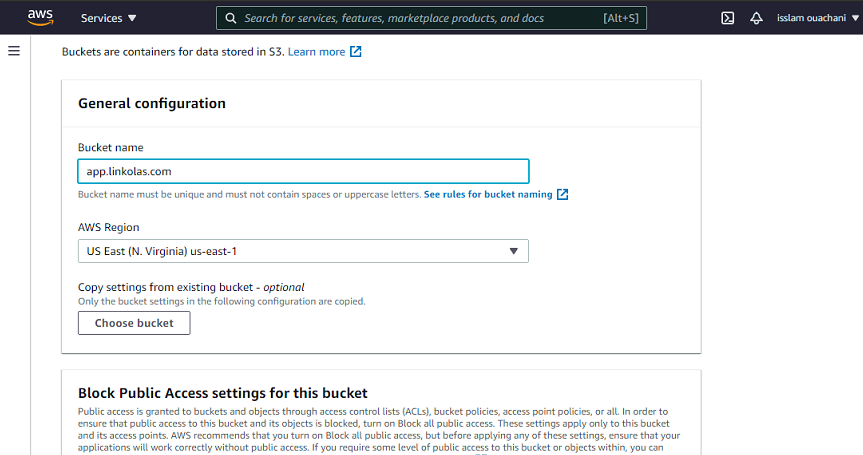
ng build -> generates dist directory (static website)

go to <https://s3.console.aws.amazon.com/s3/home>

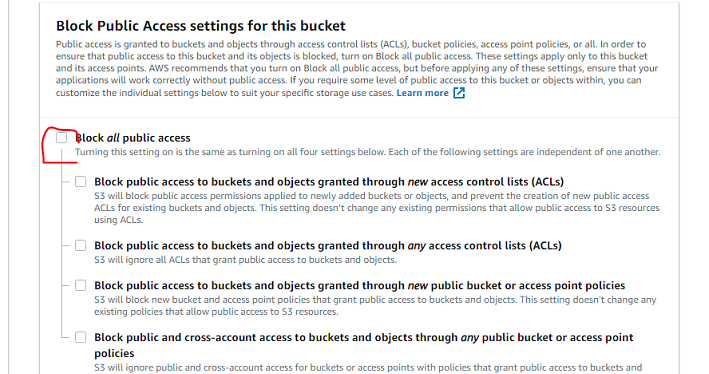
Create new bucket.



Bucket name: app.linkolas.com

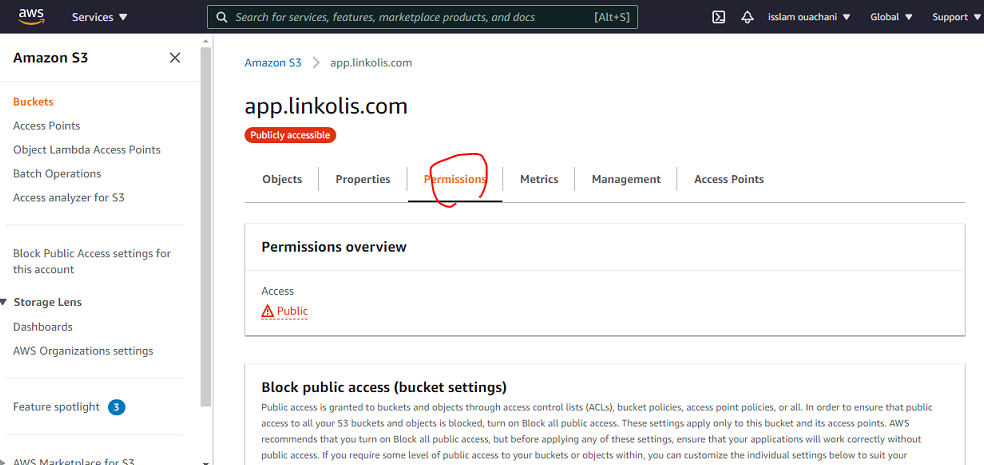


Uncheck “Block all public access”

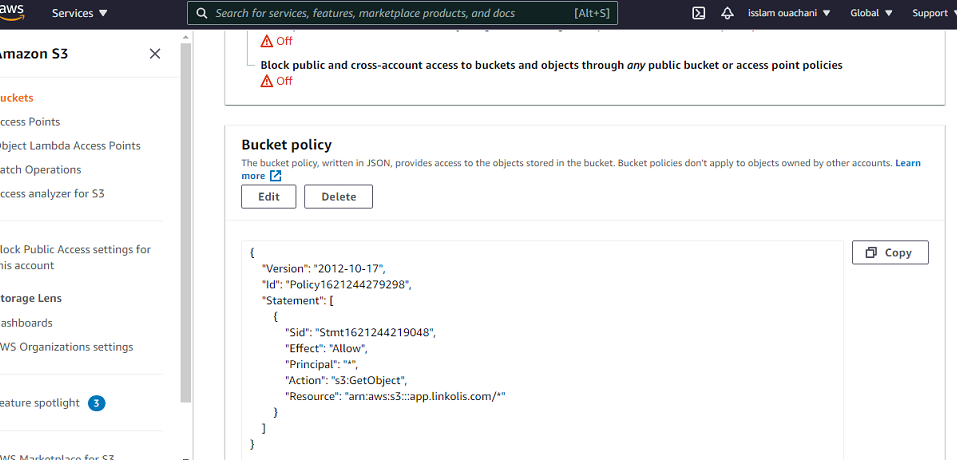


Click Create bucket

Go to “Permissions” of this bucket.

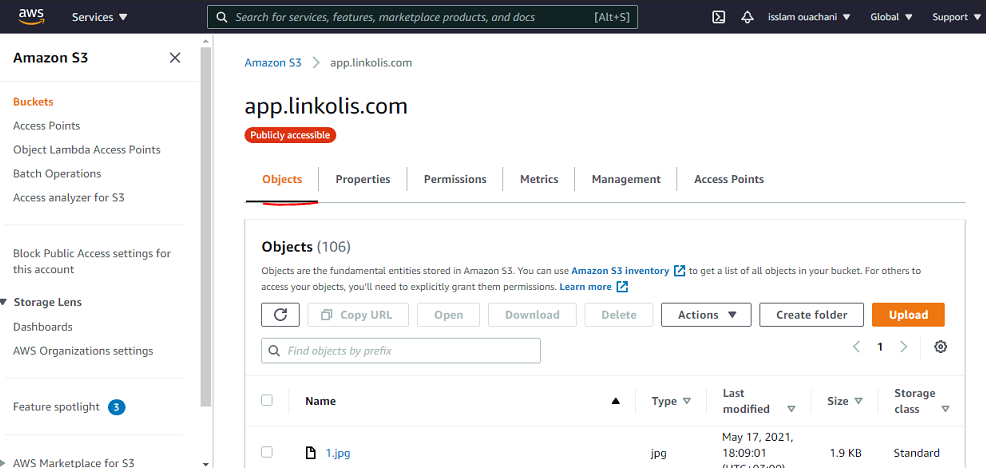


Edit Bucket policy

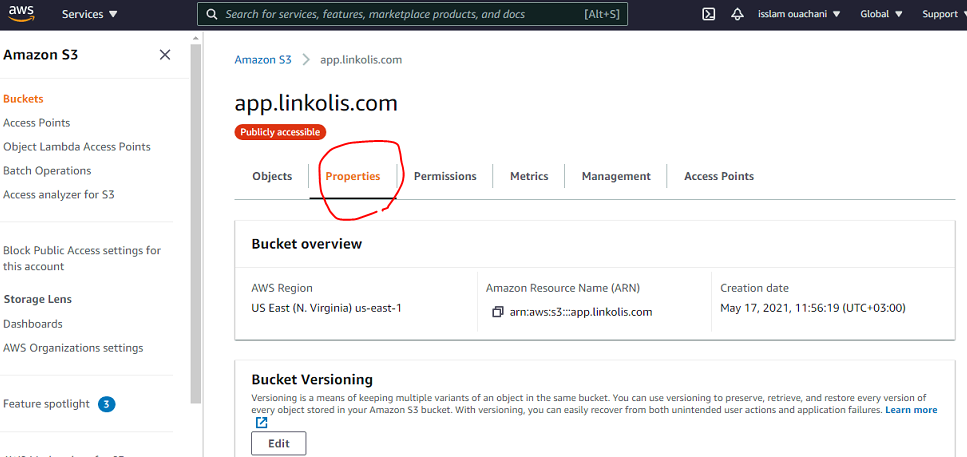


Go to “Objects”

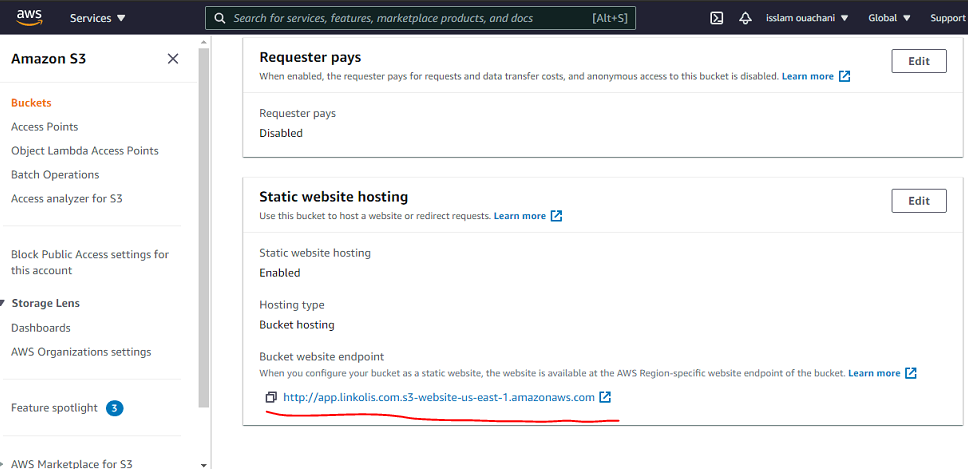
And upload static website (dist directory)



Test s3 bucket url



…

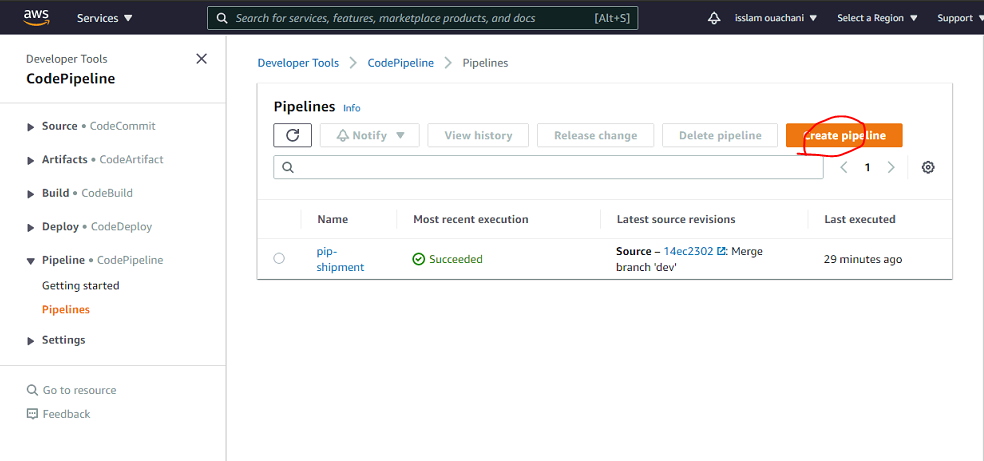


3. Create AWSCodePipeline

Go to CodePipeline service

<https://console.aws.amazon.com/codesuite/codepipeline/pipelines>

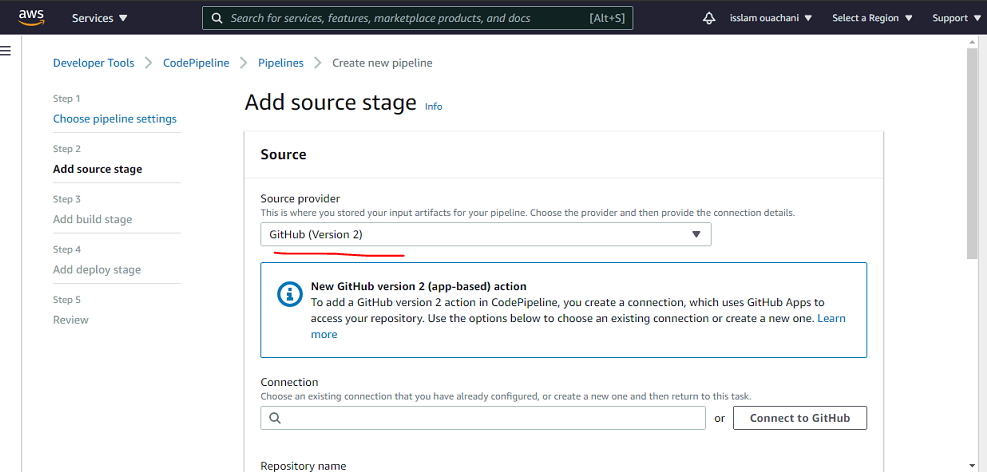
click Create pipeline



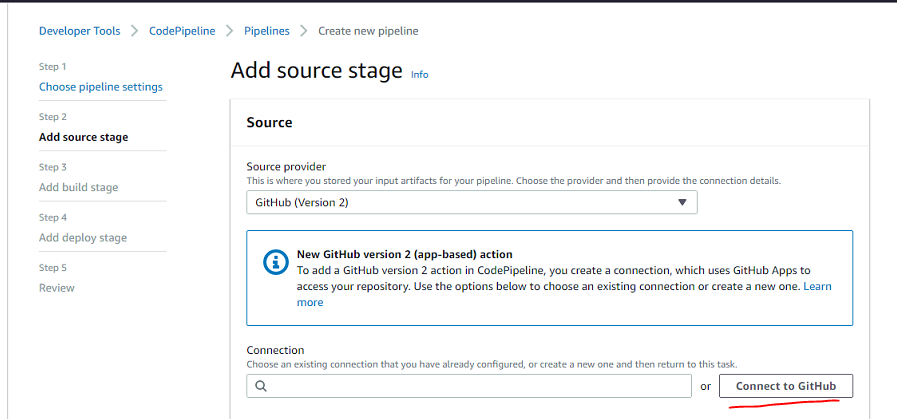
Pipeline name:any name (for example:pip-client-app)

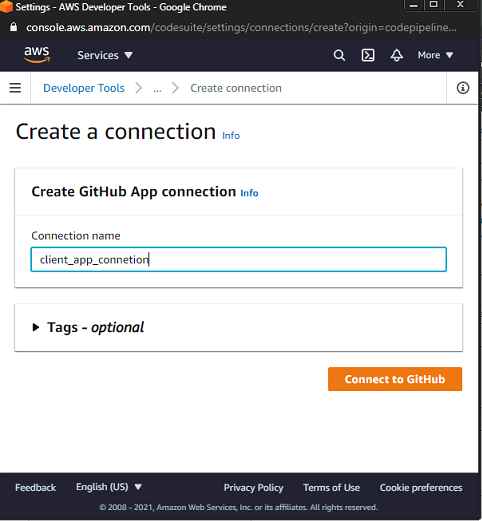
Click “Next” button

Set github source provider



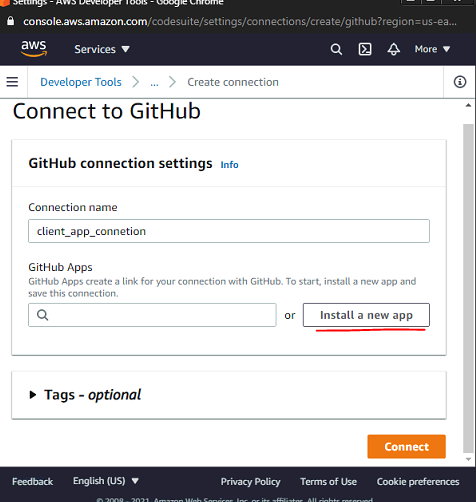
Click “Connect to Github”

input connectin name:



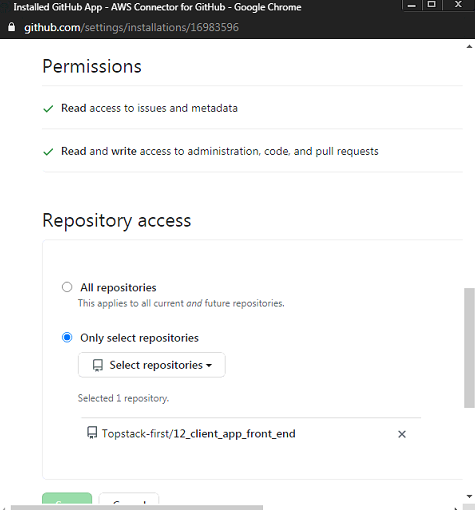
Click “Connect to Github”

And Click “Install a new app”

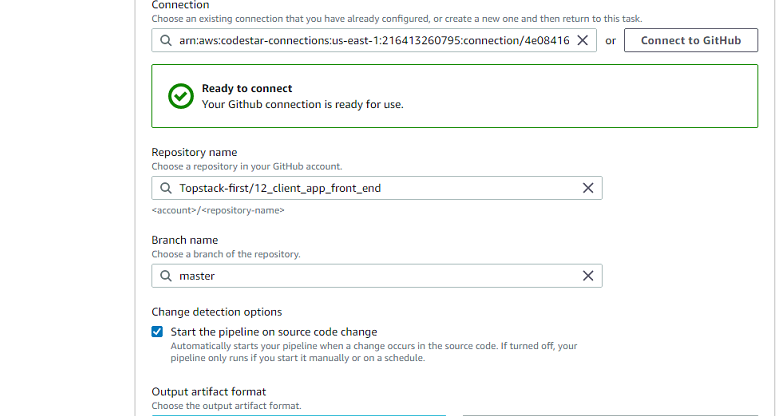


Pass Github authentication

Select github repository

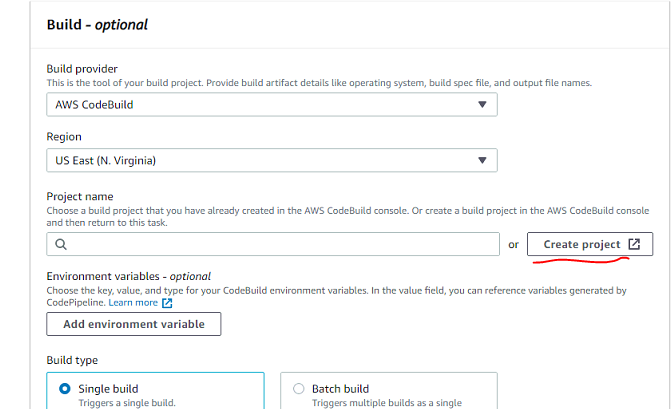


Select repository and branch also in creating pipeline

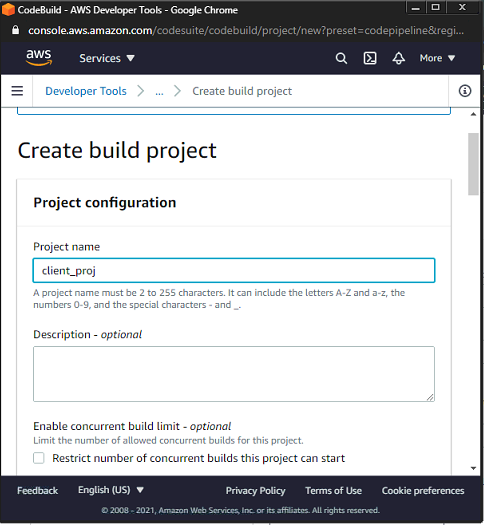


Click “Next”

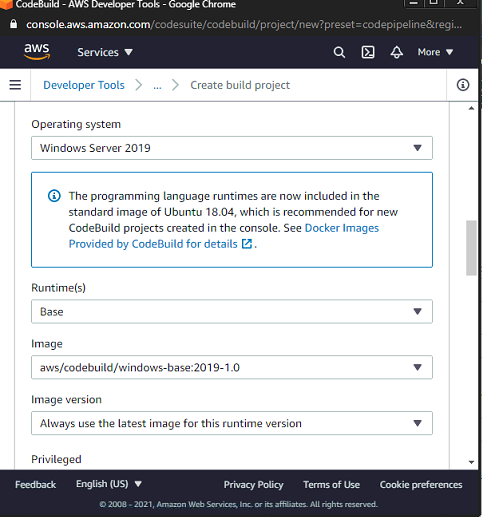
Select Build provider , Region and create project



Input project’s name

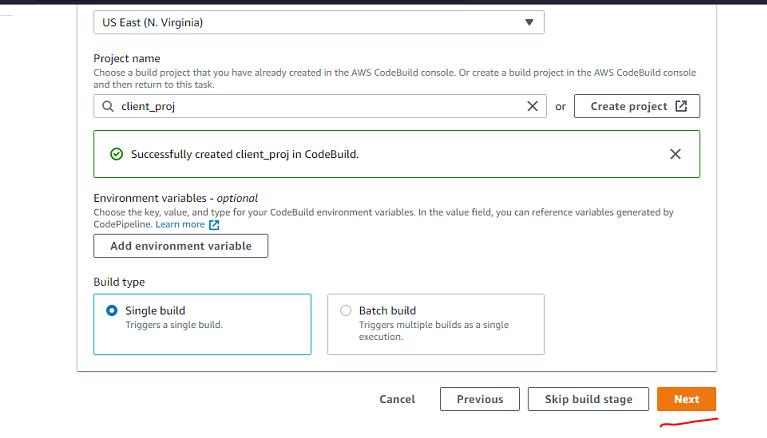


Select operating system (“windows server 2019”), Runtime(Base) and Image



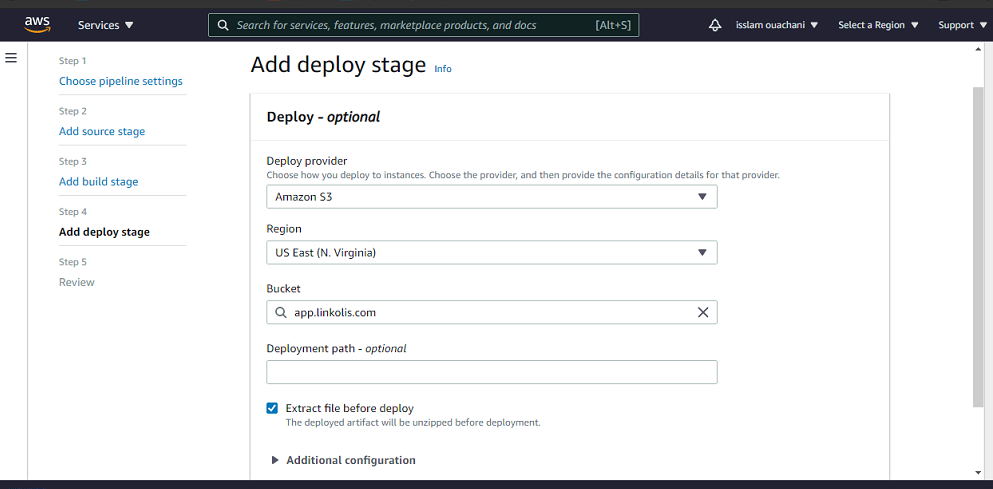
Click “Continue to CodePipeline”

And Click “Next” to continue



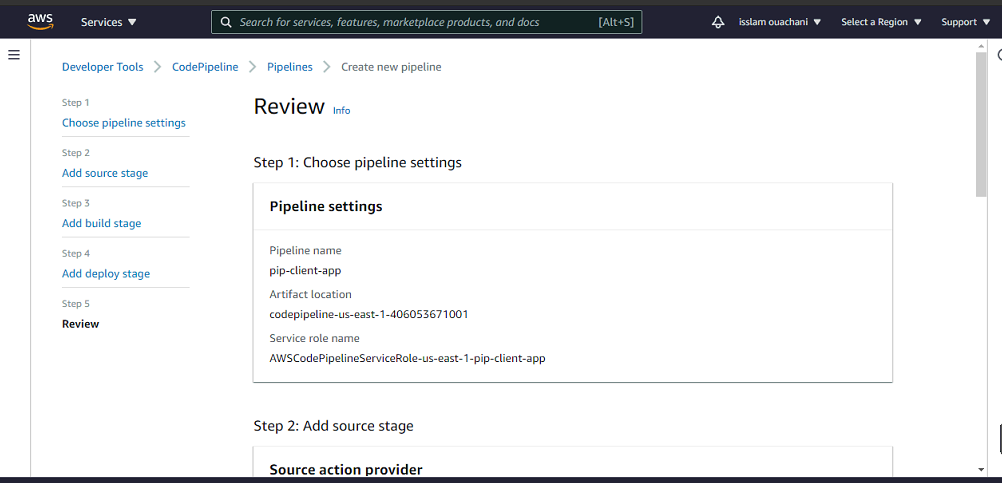
Select Deploy provider (Amazon S3), Region and Bucket(app.linkolis.com)

And check Extract file before deploy

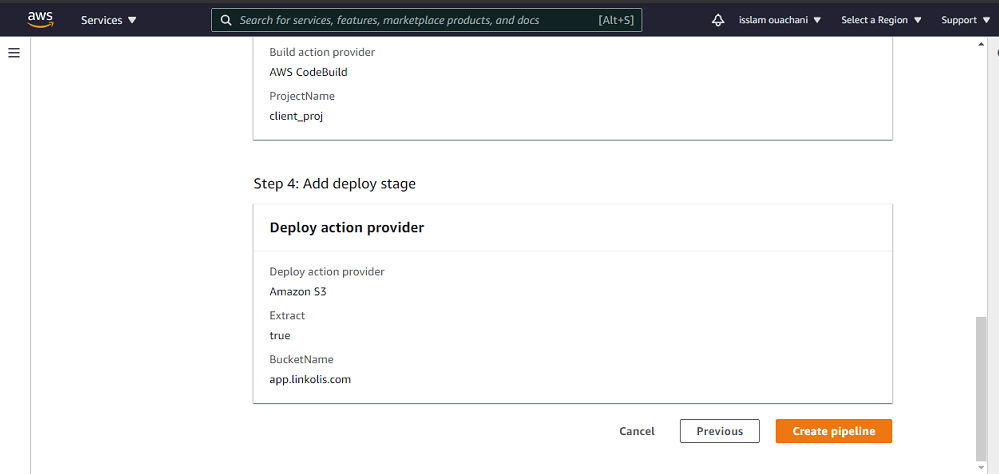


Click “Next”

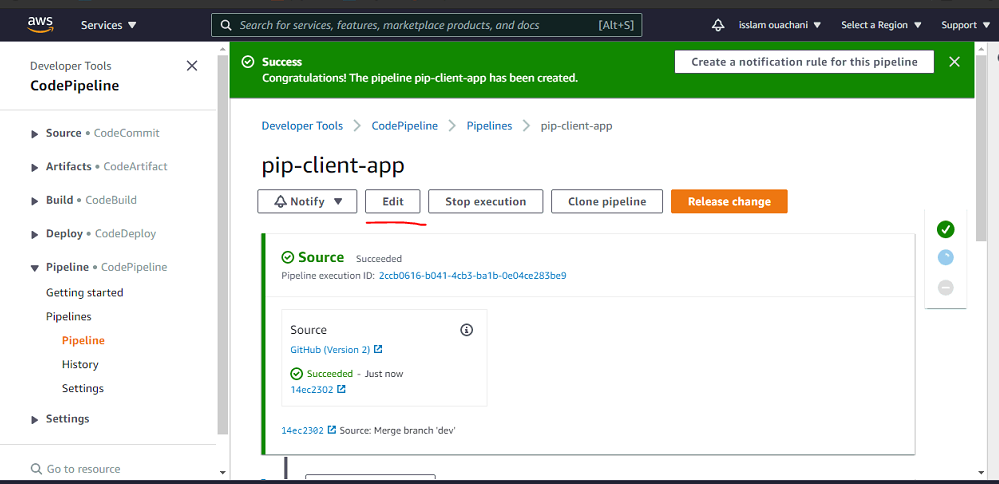
You will see “Review” flow.



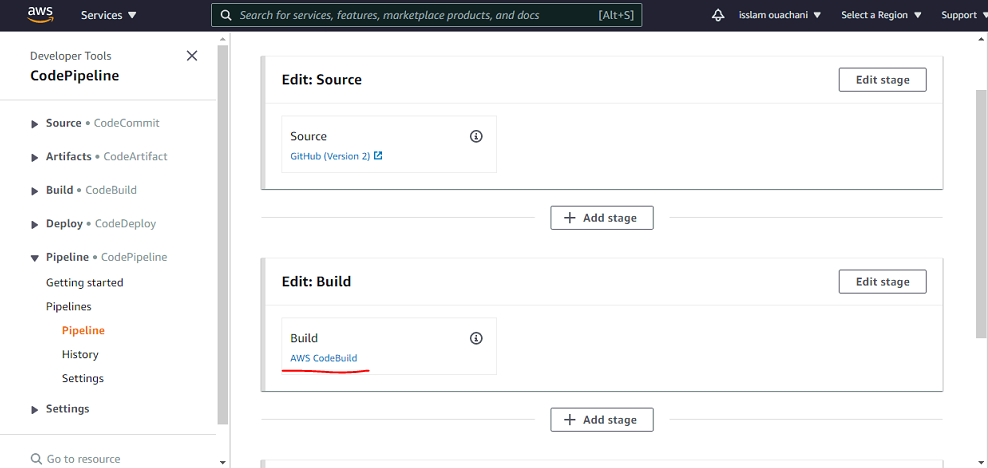
Click “Create pipeline” so will create new CodePipeline



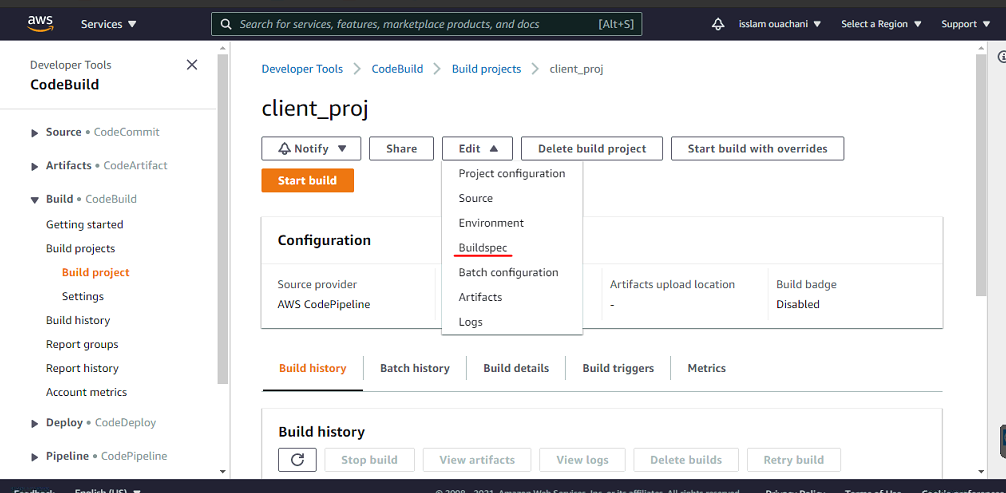
Click “Edit”



Click “AWS CodeBuild” in Edit stage

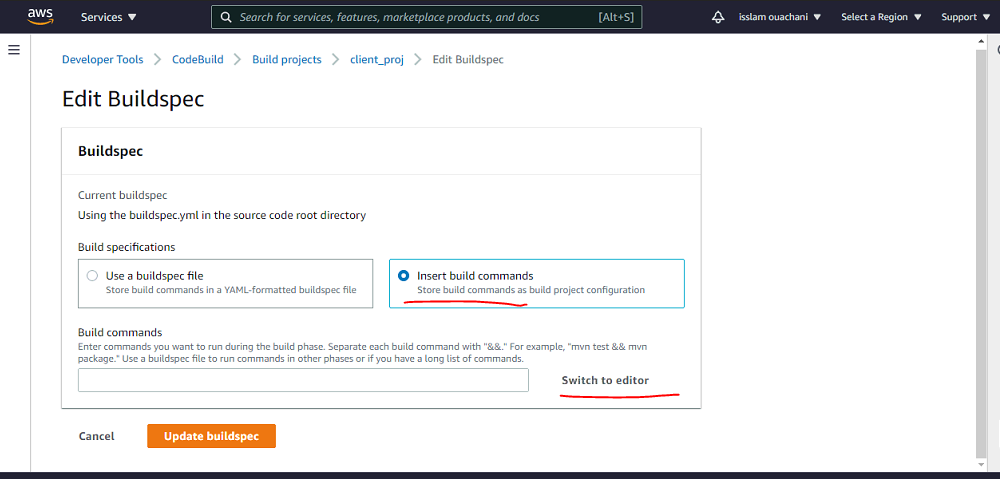


Select “Buildspec”



Select “Insert build commands”

And Switch to editor



Copy and paste this commands in there

version: 0.2

env:

variables:

CACHE\_CONTROL: "86400"

S3\_BUCKET: "{{your\_url}}"

BUILD\_FOLDER: "dist"

phases:

install:

runtime-versions:

nodejs: 14

commands:

- echo Installing source NPM dependencies...

- npm install

- npm install -g @angular/cli

build:

commands:

- echo Build started

- ng build

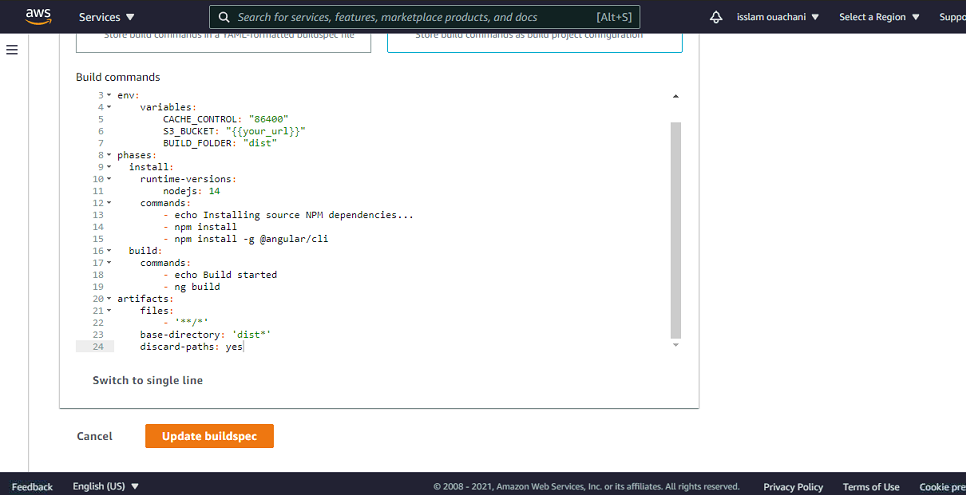
artifacts:

files:

- '\*\*/\*'

base-directory: 'dist\*'

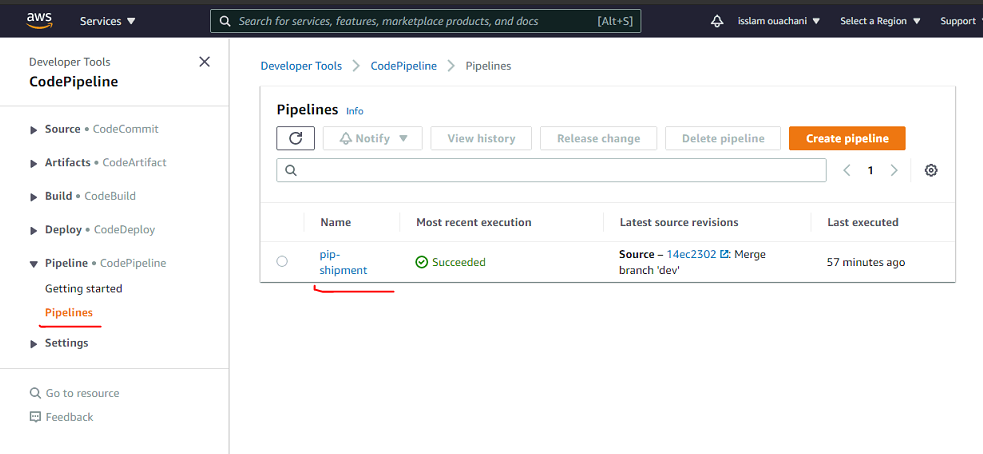
discard-paths: yes



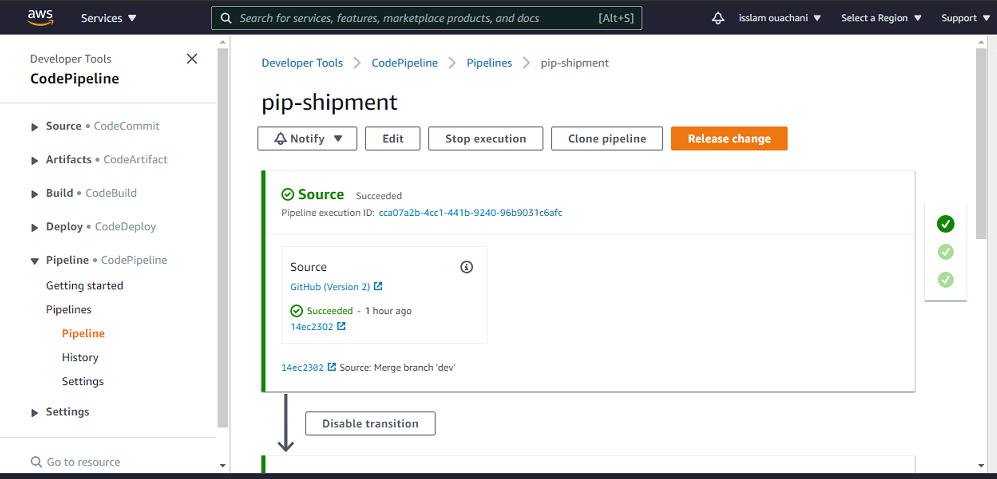
Click “Update buildspec”

To check autobuild from github,

Go to pipeline



You can see this screen

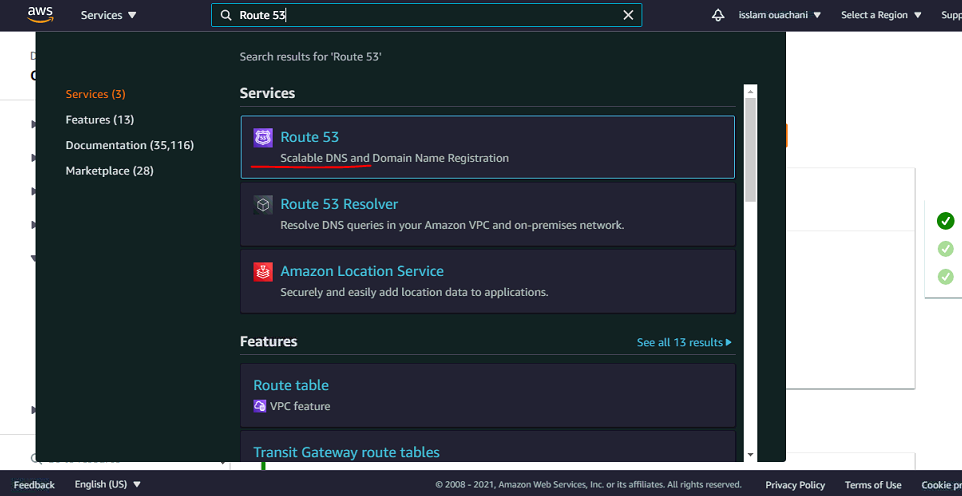


Finally please commit to dev branch and merge to master branch in github.

It will be built automatically and deployed to asw s3 bucket.

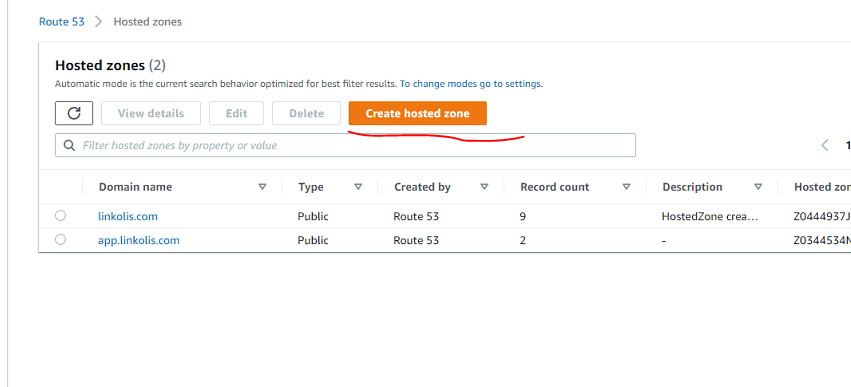
4. Create subdomain and create new record in root domain

Go to Route 53 service

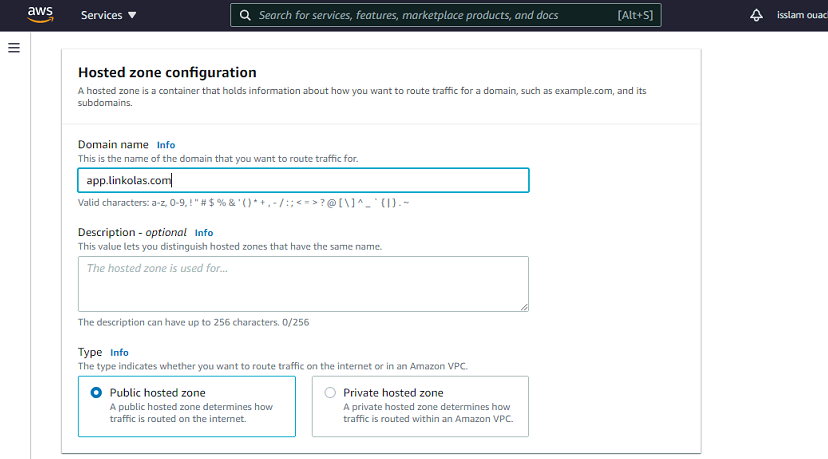


Go to “Hosted zones”

Click “Create hosted zone”



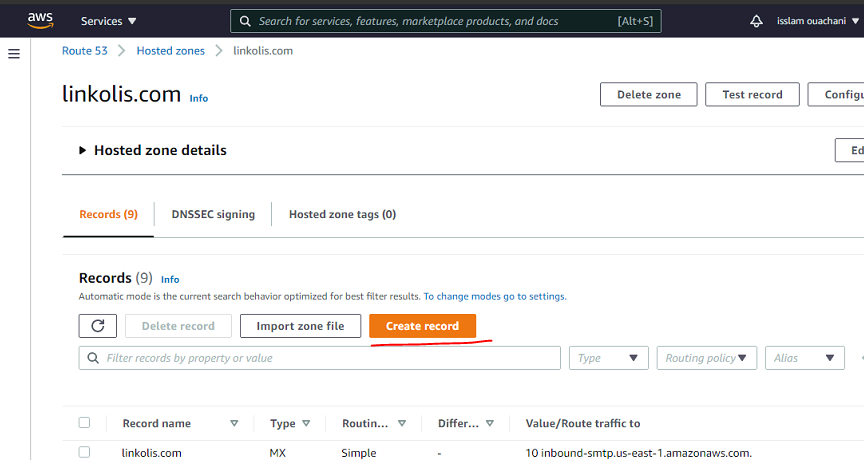
Input subdomain (app.linkolas.com)



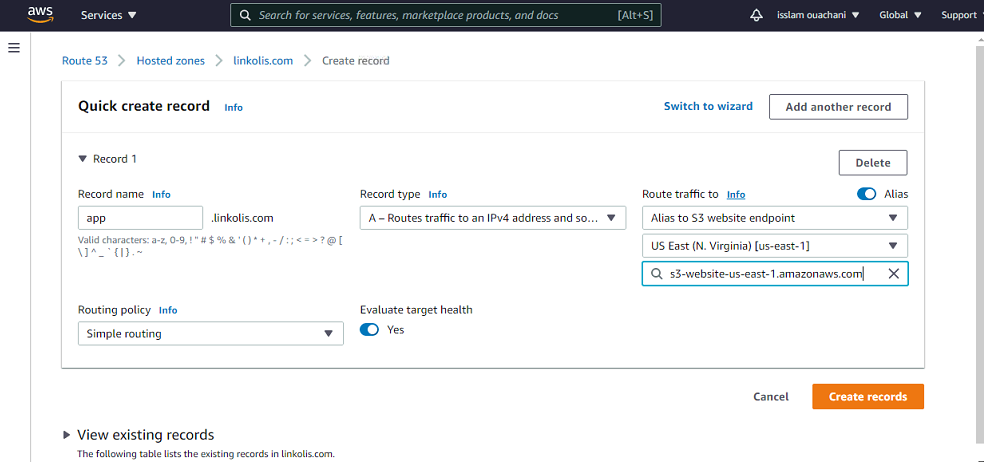
And create hosted zone.

So subdomain will be created.

Select root domain and create record



Input record name (app), record type, route traffic etc like below picture



Click “Create records”

So you can access to s3 bucket web endpoint by using subdomain.

Thanks for your reading!