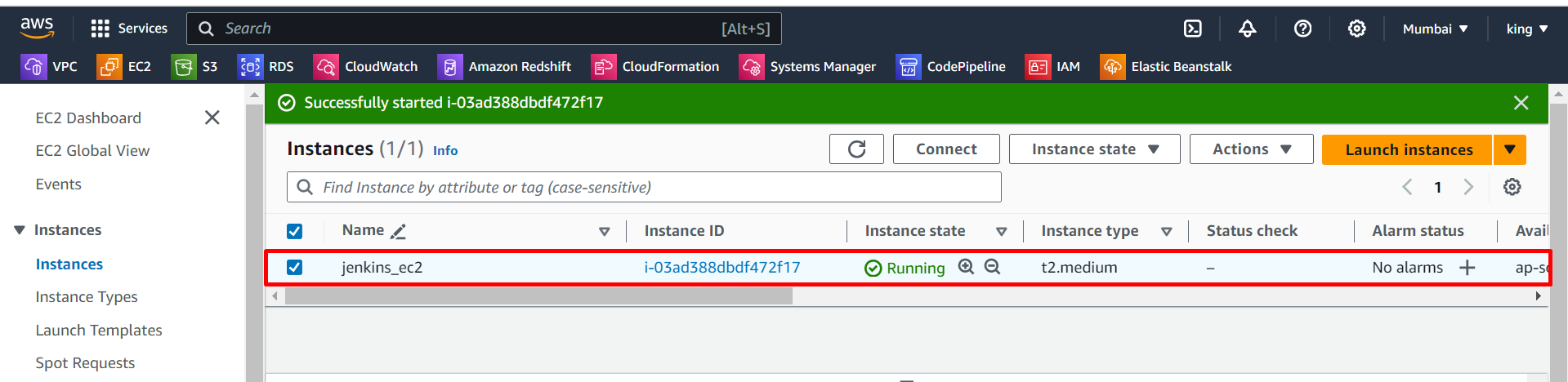
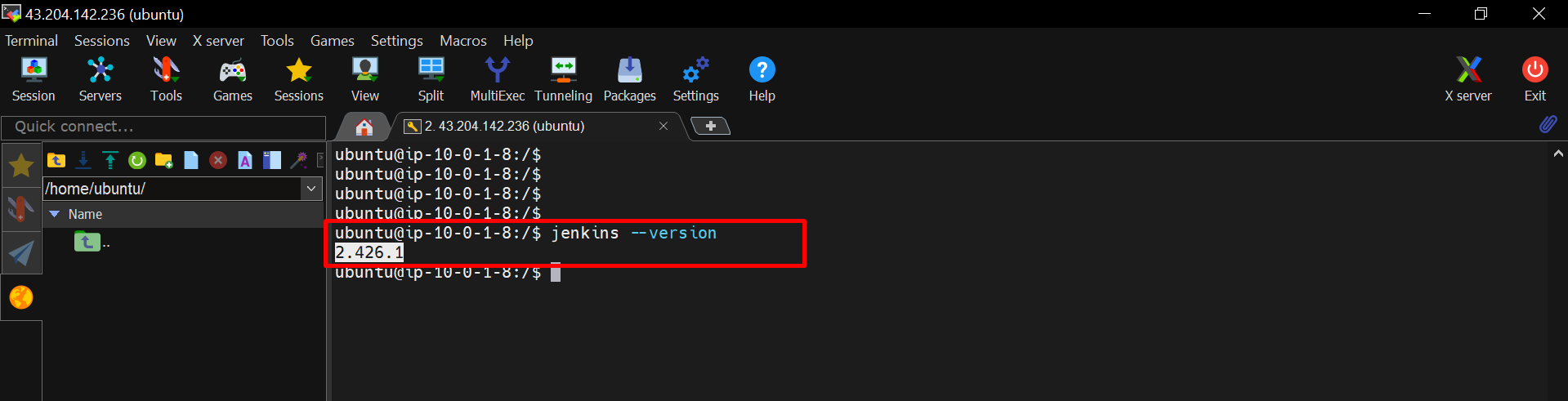
**How to create a Jenkins pipeline for deploying from GitHub to AWS S3 bucket.**

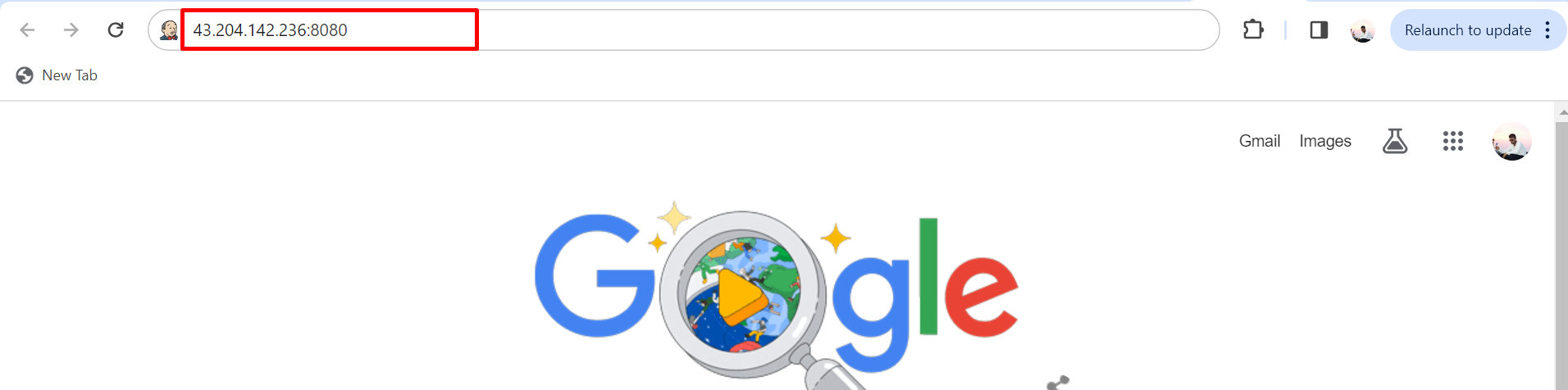
First, we should have one ec2 instance on AWS. Must give 8080 port in the security group.



Next, we installed Jenkins in this instance.

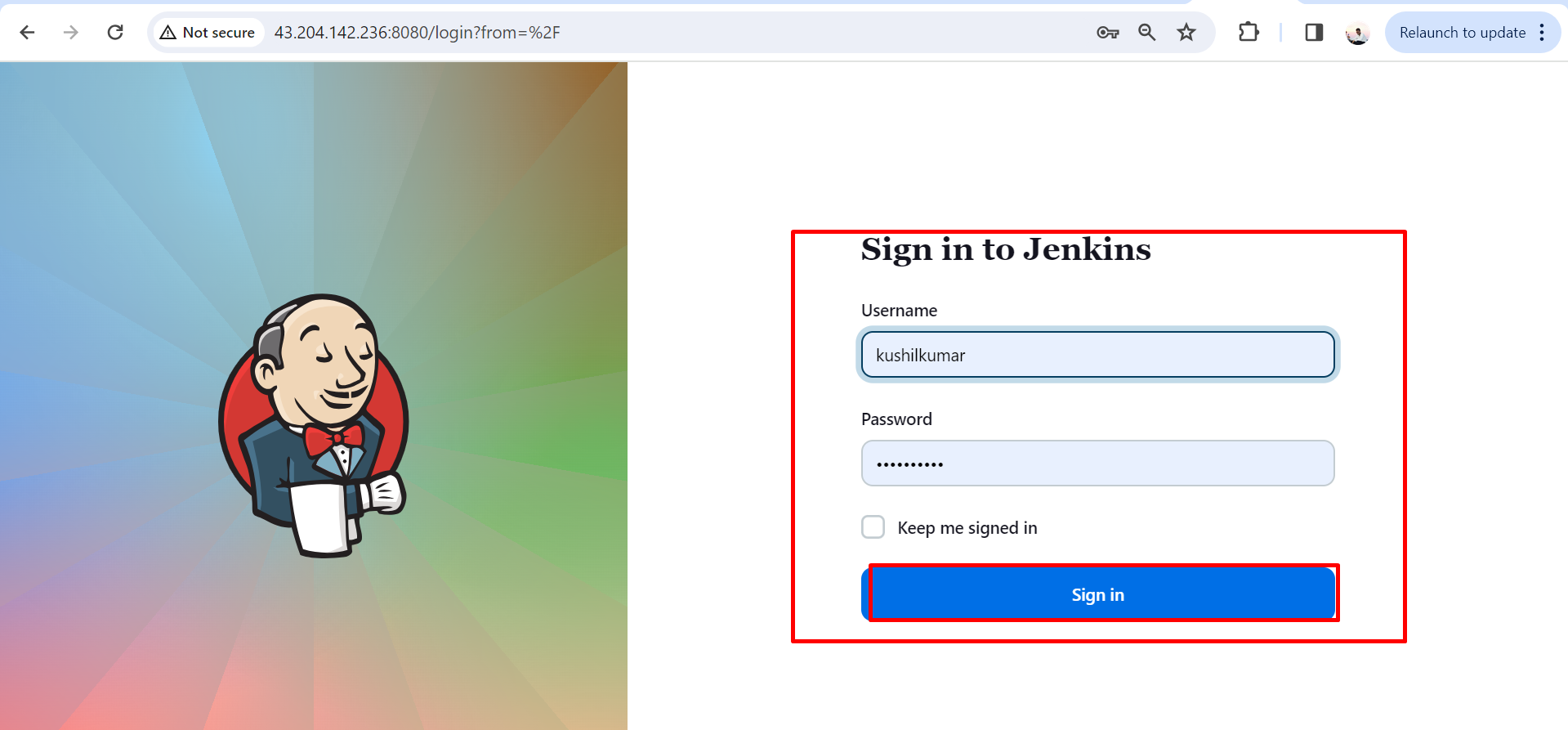


Copy the instance public IP and enter the public IP in Google along with port 8080.

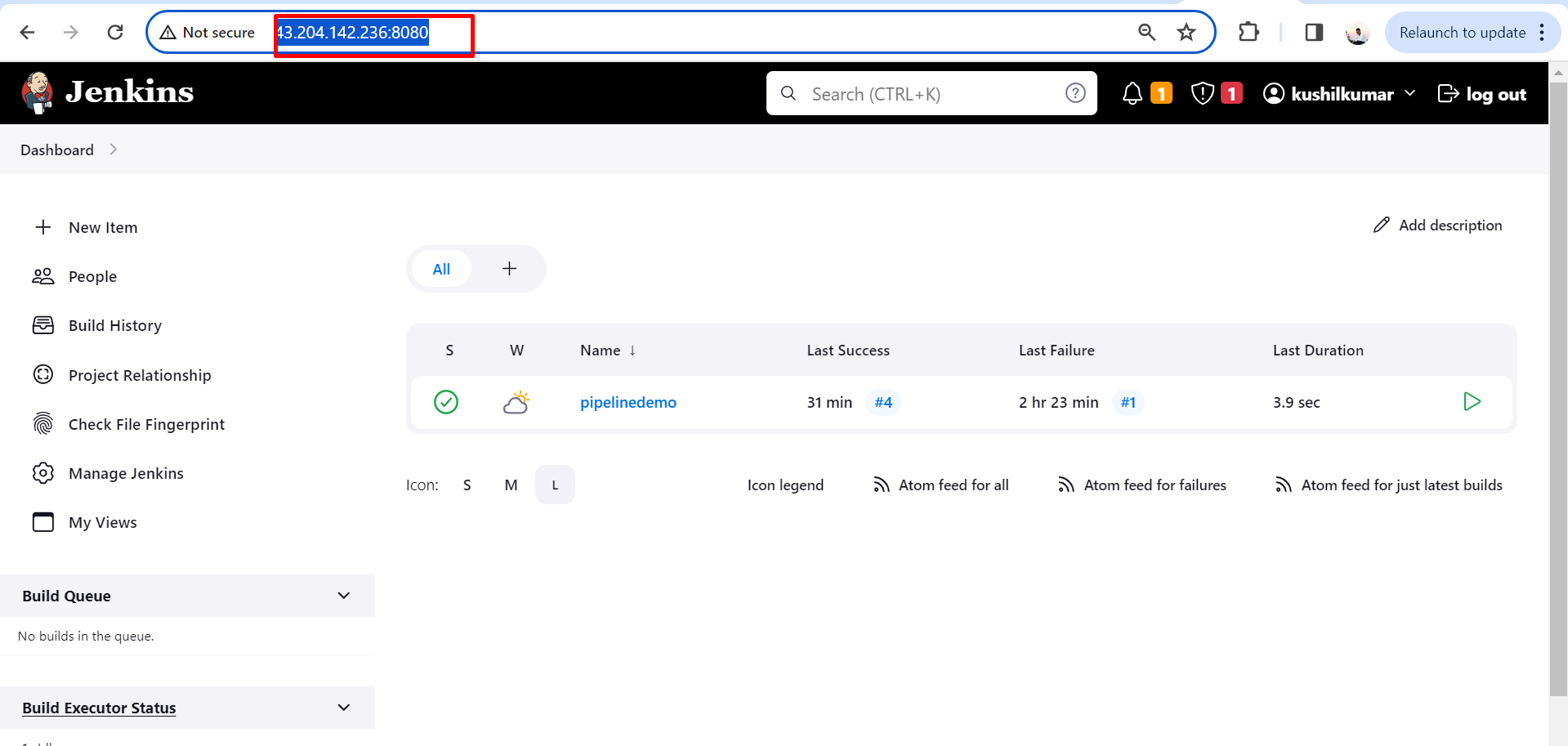


Here, we should know one thing first time while entering a public IP along with the port it will display one path and copy the path, next go to the instance then cat that path, it will show one ID copy that ID and paste it in Jenkins, and next we create username and password.

Enter the username and password.

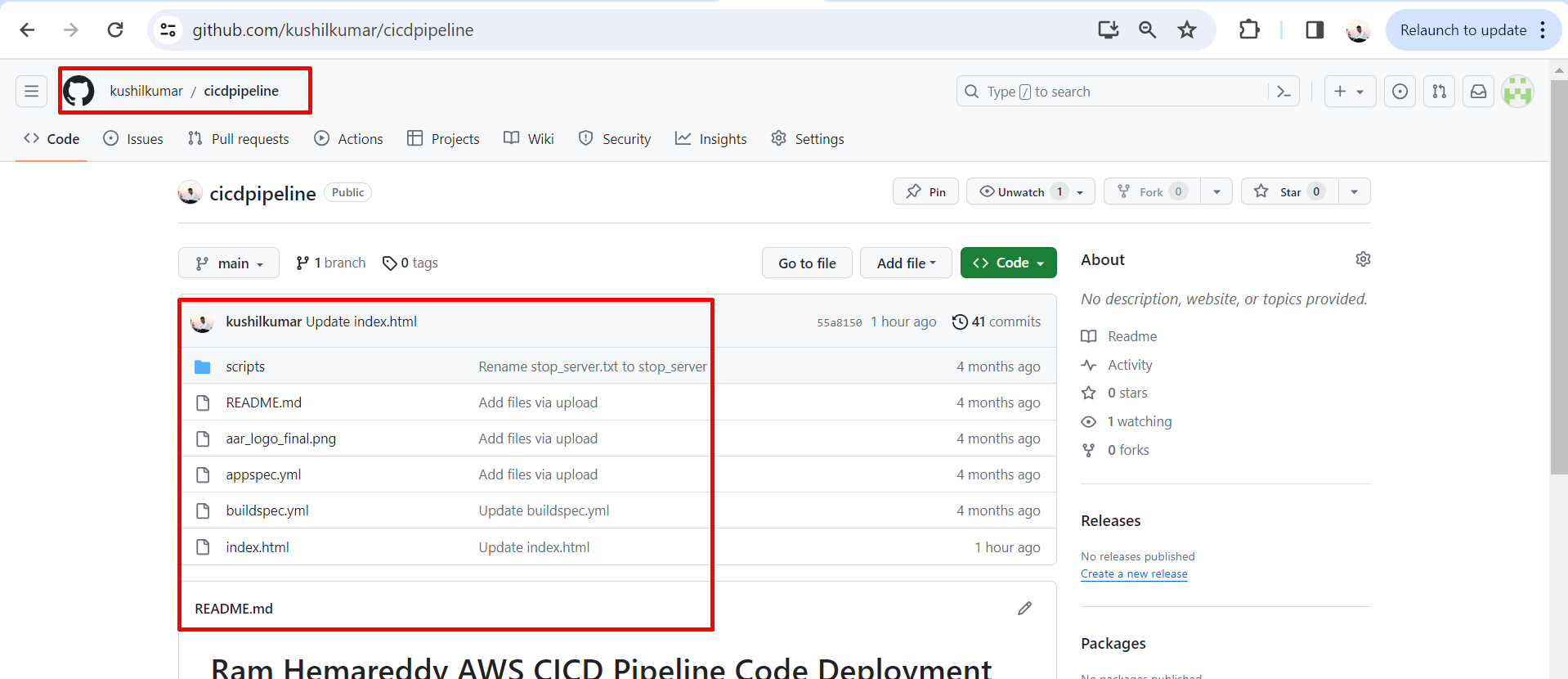


We successfully login.

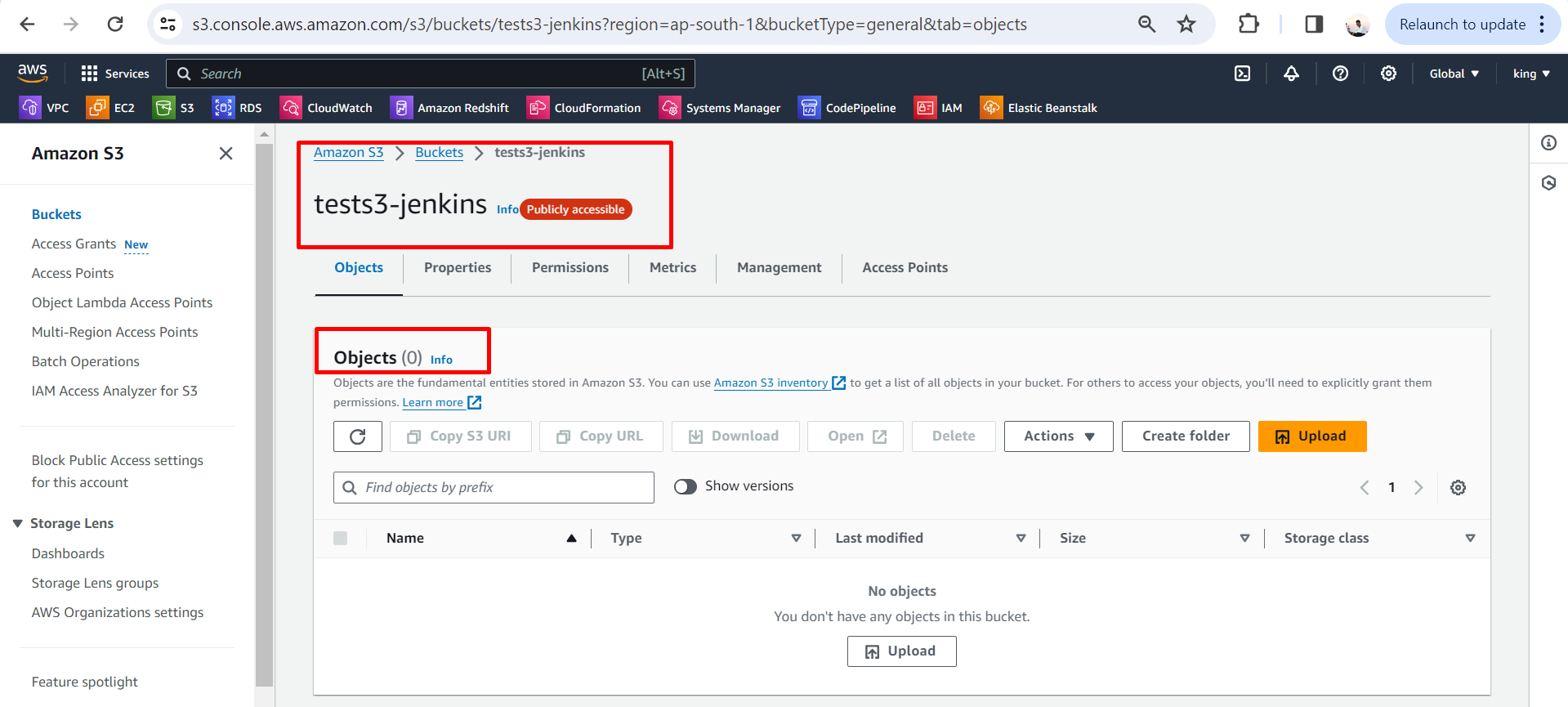


We successfully installed Jenkins on the instance, now we want to deploy files from GitHub to the AWS S3 bucket.

GitHub files:-

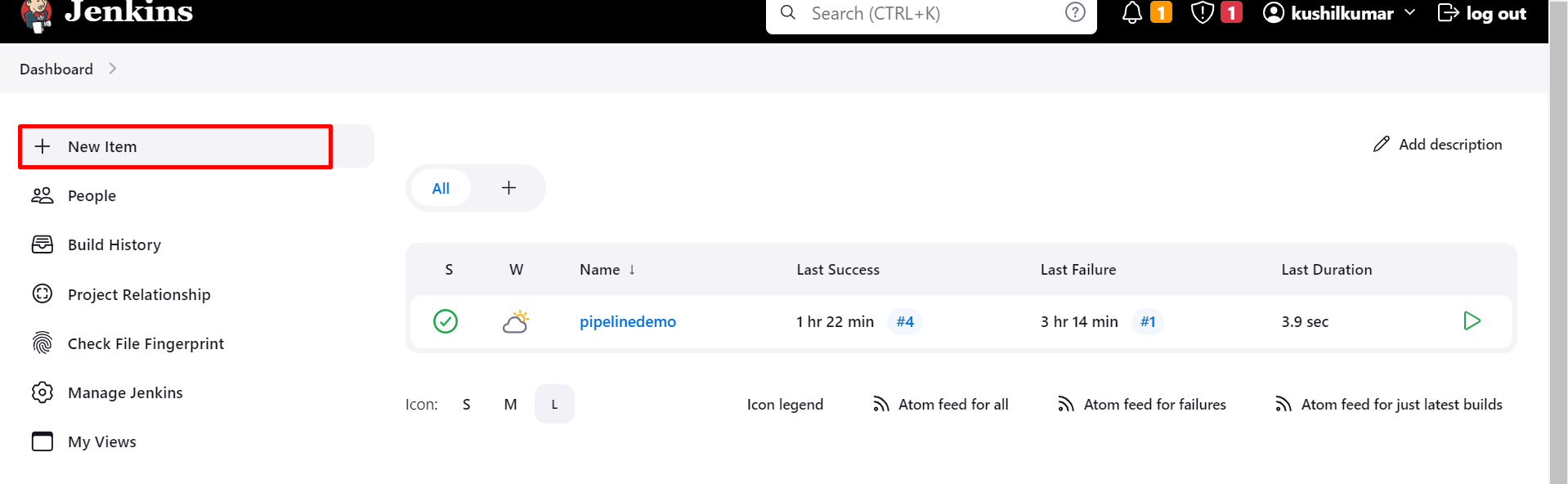


S3 bucket:-

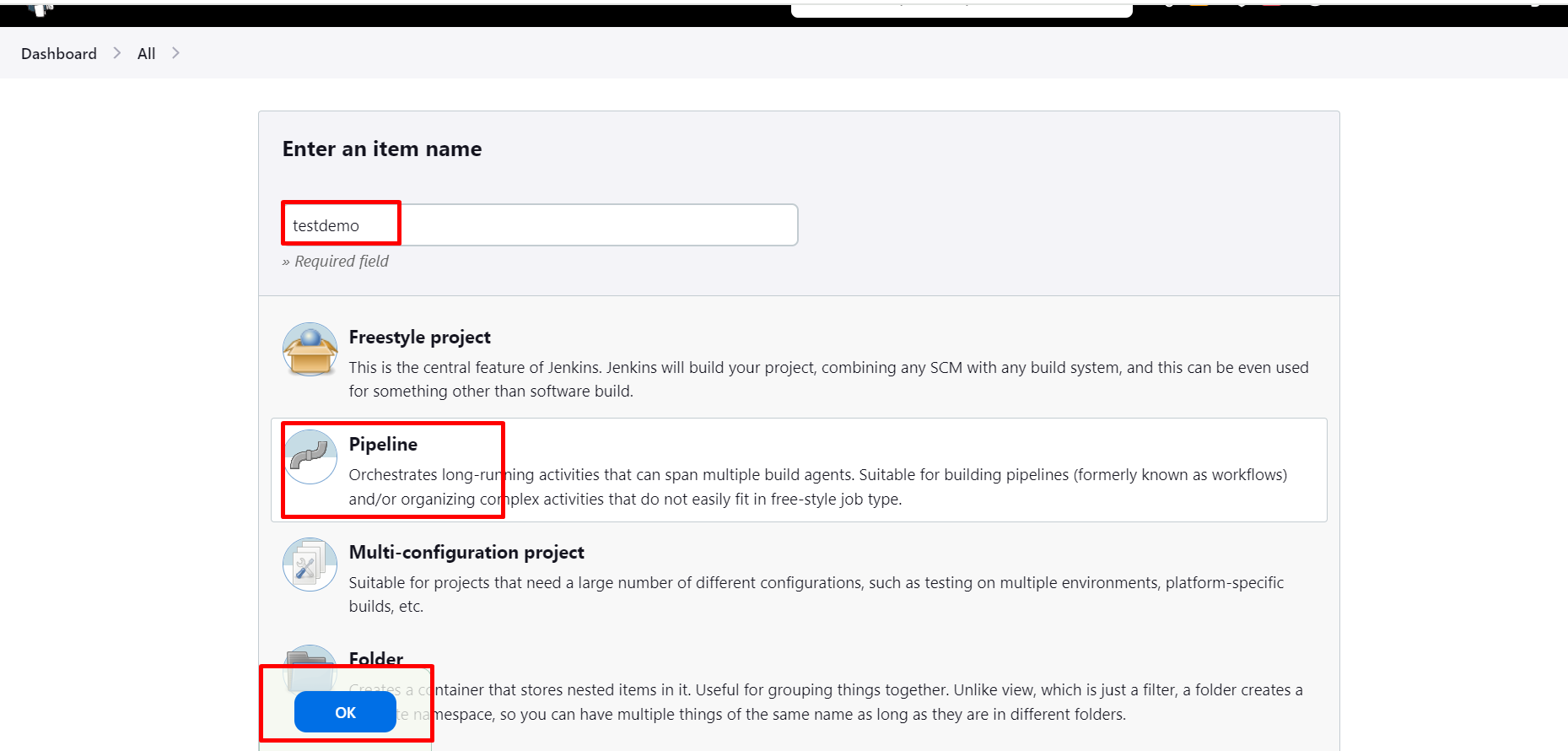


Now we want to deploy those GitHub files to the s3 bucket with Jenkins pipeline.

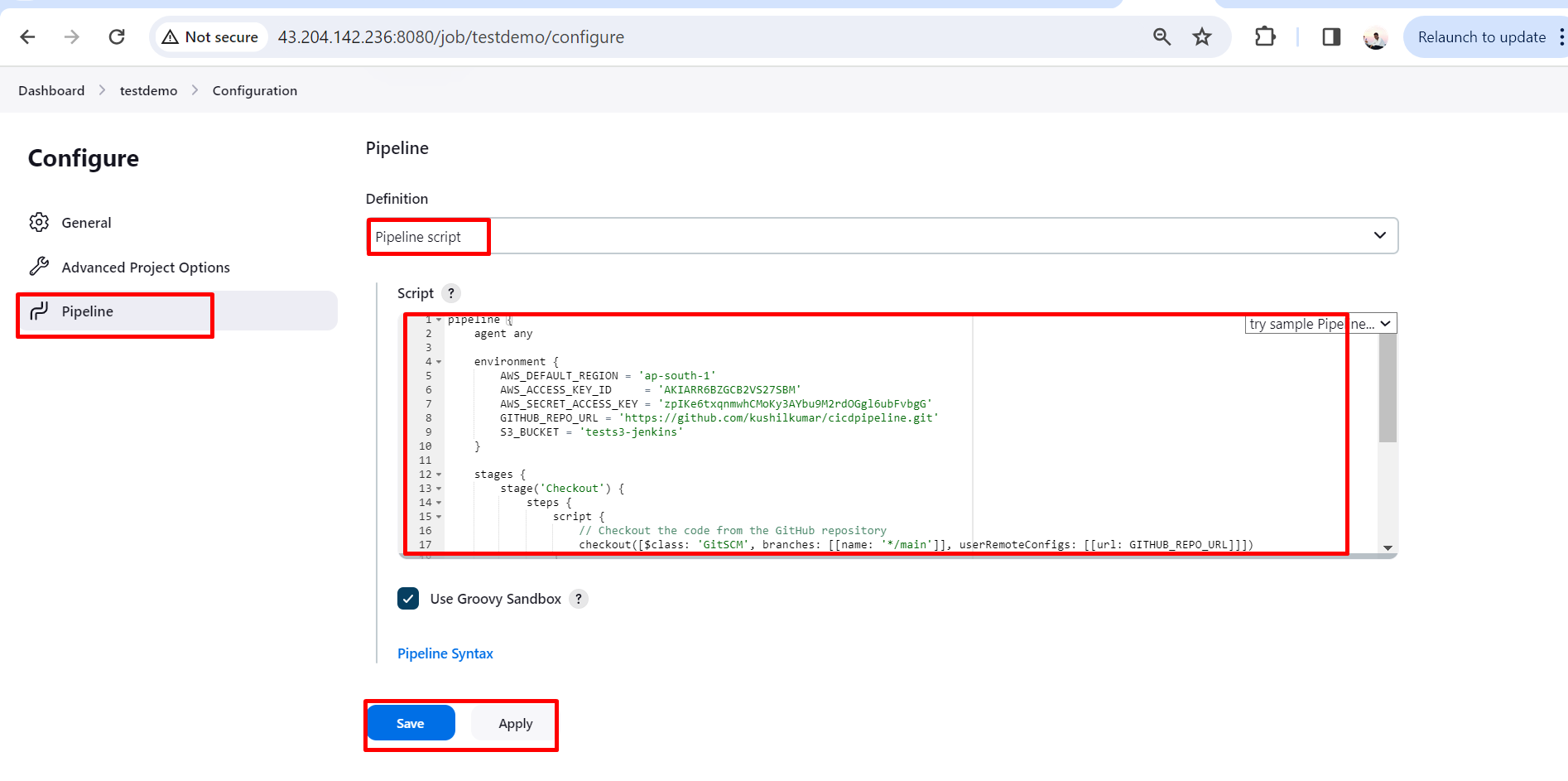
Go to Jenkins pipeline and then select New Item.



Enter name and pipeline then enter OK.



Next, we select the pipeline script and then enter the script in that space, and then enter apply and save.



**Script:-**

pipeline {

agent any

environment {

AWS\_DEFAULT\_REGION = 'ap-south-1'

AWS\_ACCESS\_KEY\_ID = 'AKIARR6BZGCB2VS27SBM'

AWS\_SECRET\_ACCESS\_KEY = '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'

GITHUB\_REPO\_URL = 'https://github.com/kushilkumar/cicdpipeline.git'

S3\_BUCKET = 'tests3-jenkins'

}

stages {

stage('Checkout') {

steps {

script {

// Checkout the code from the GitHub repository

checkout([$class: 'GitSCM', branches: [[name: '\*/main']], userRemoteConfigs: [[url: GITHUB\_REPO\_URL]]])

}

}

}

stage('Build and Deploy to S3') {

steps {

script {

// Build or process your files if needed

// Use AWS CLI to sync files to S3

sh "aws s3 sync . s3://${S3\_BUCKET}/ --delete"

}

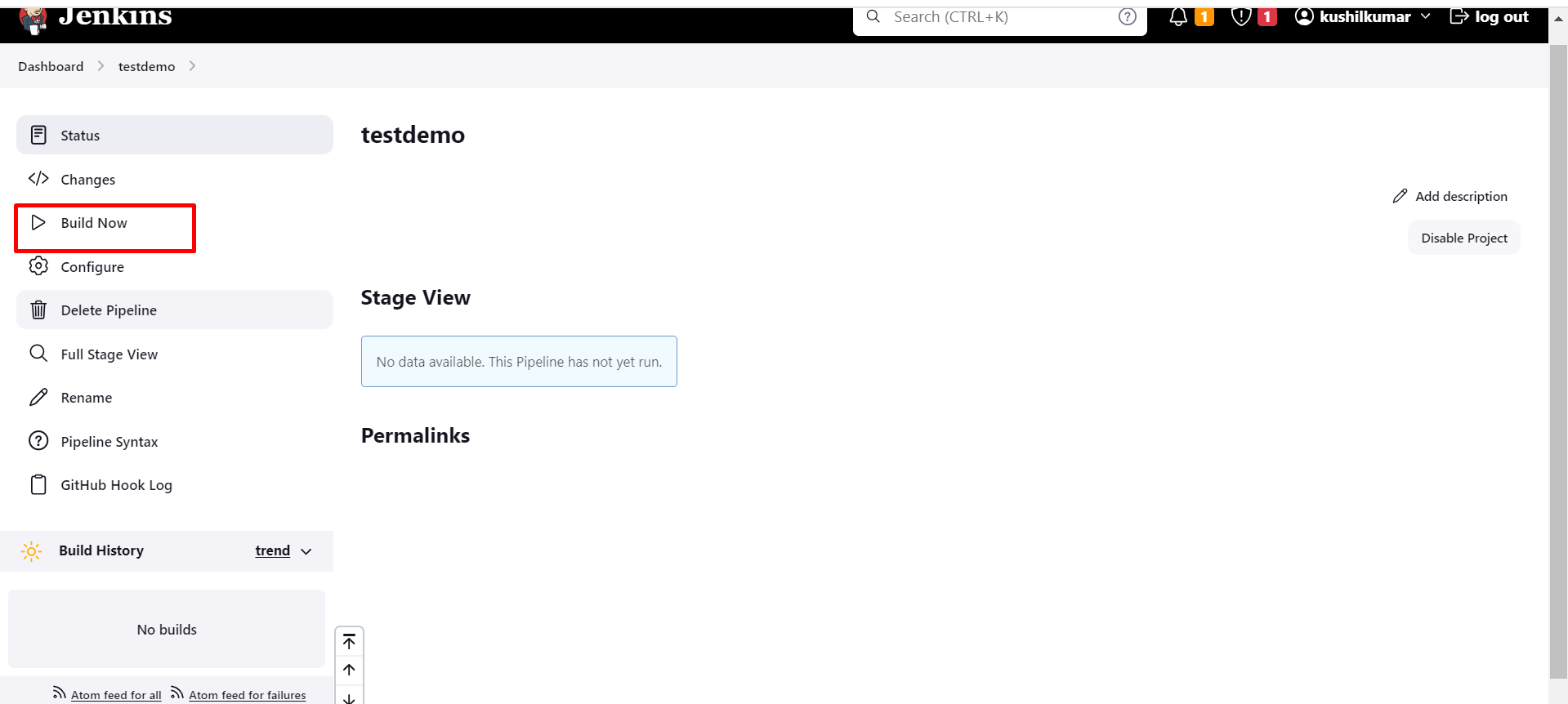
}

}

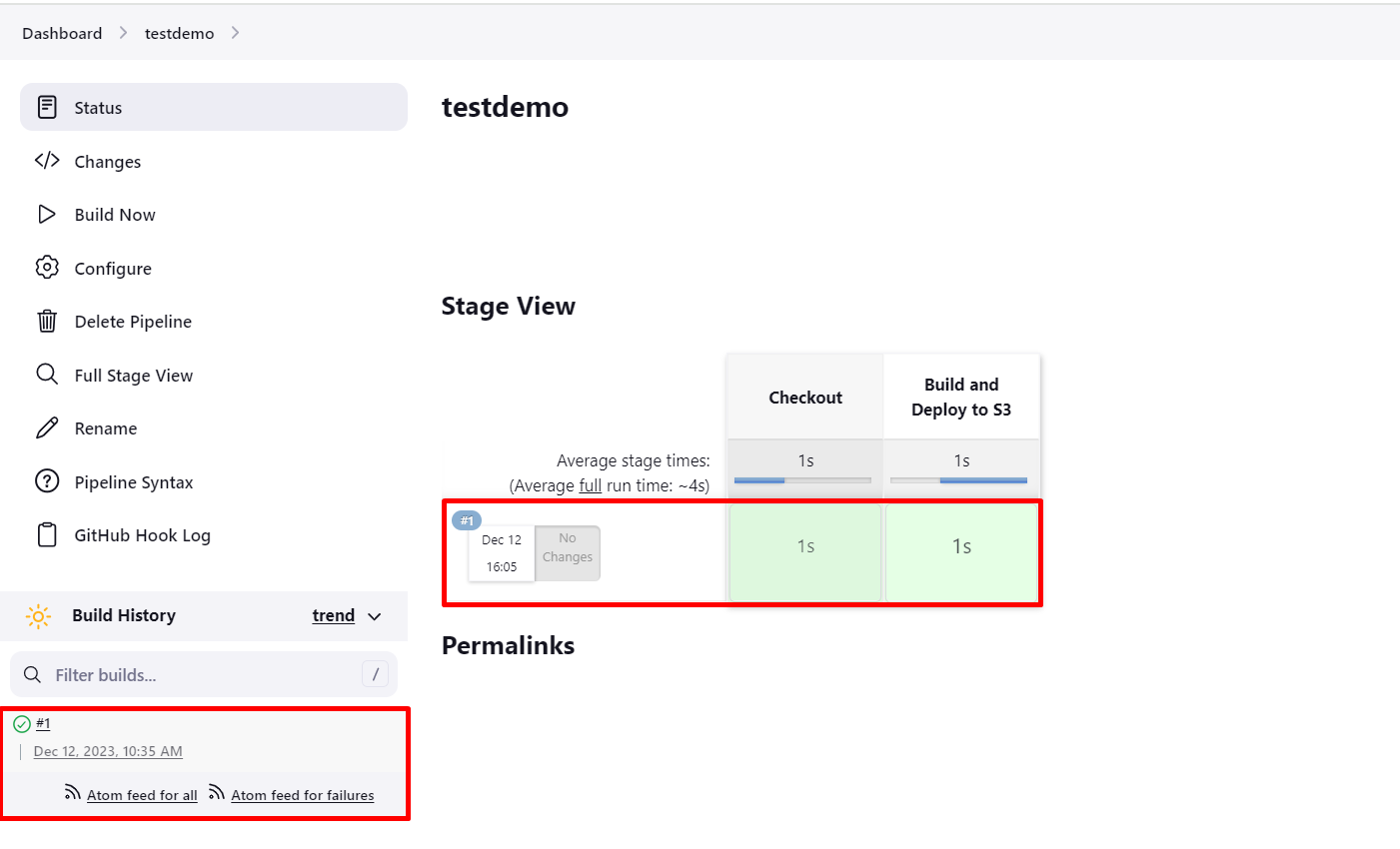
}

}

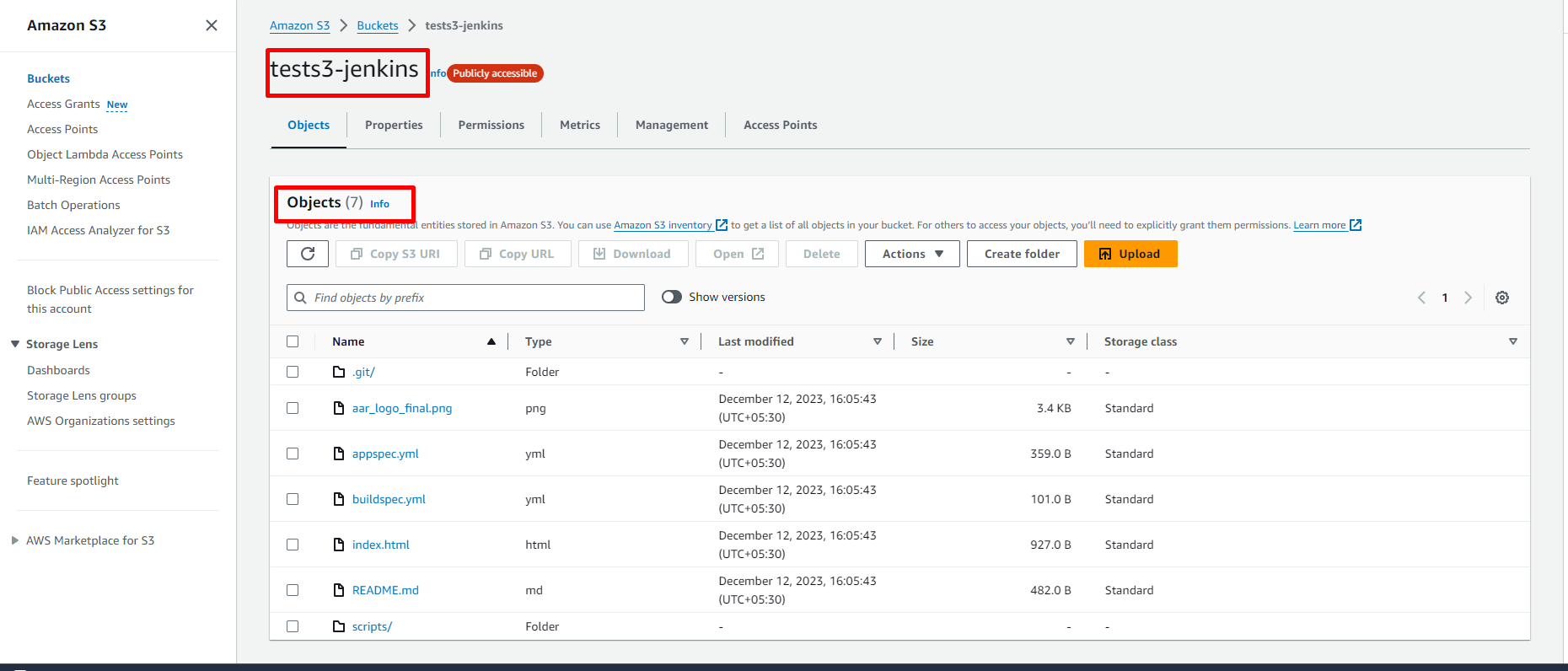
Click on Build now.



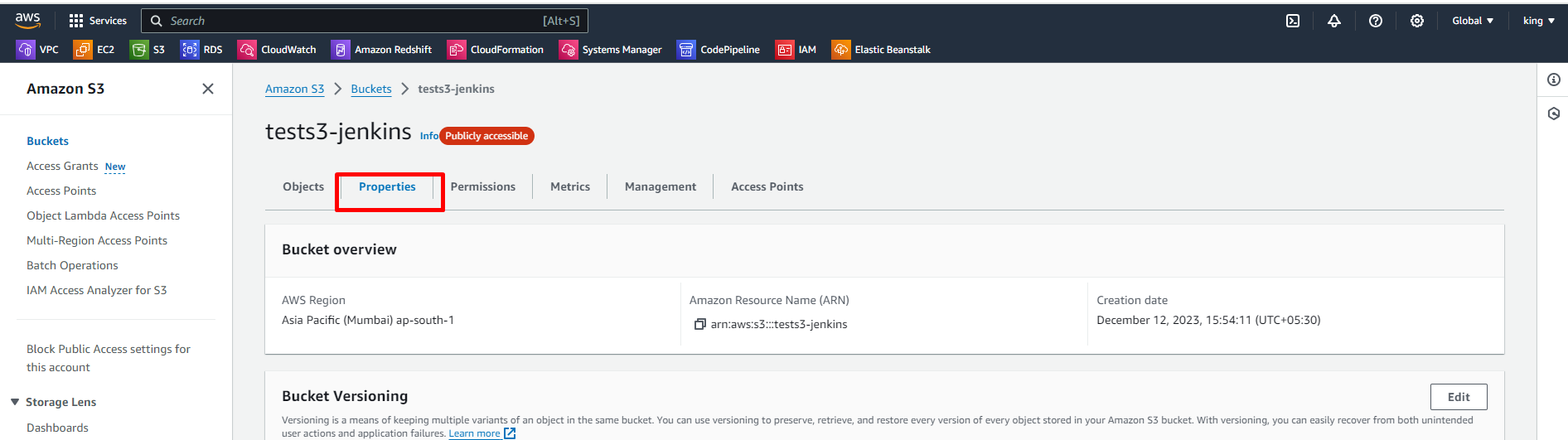
We successfully build a pipeline.



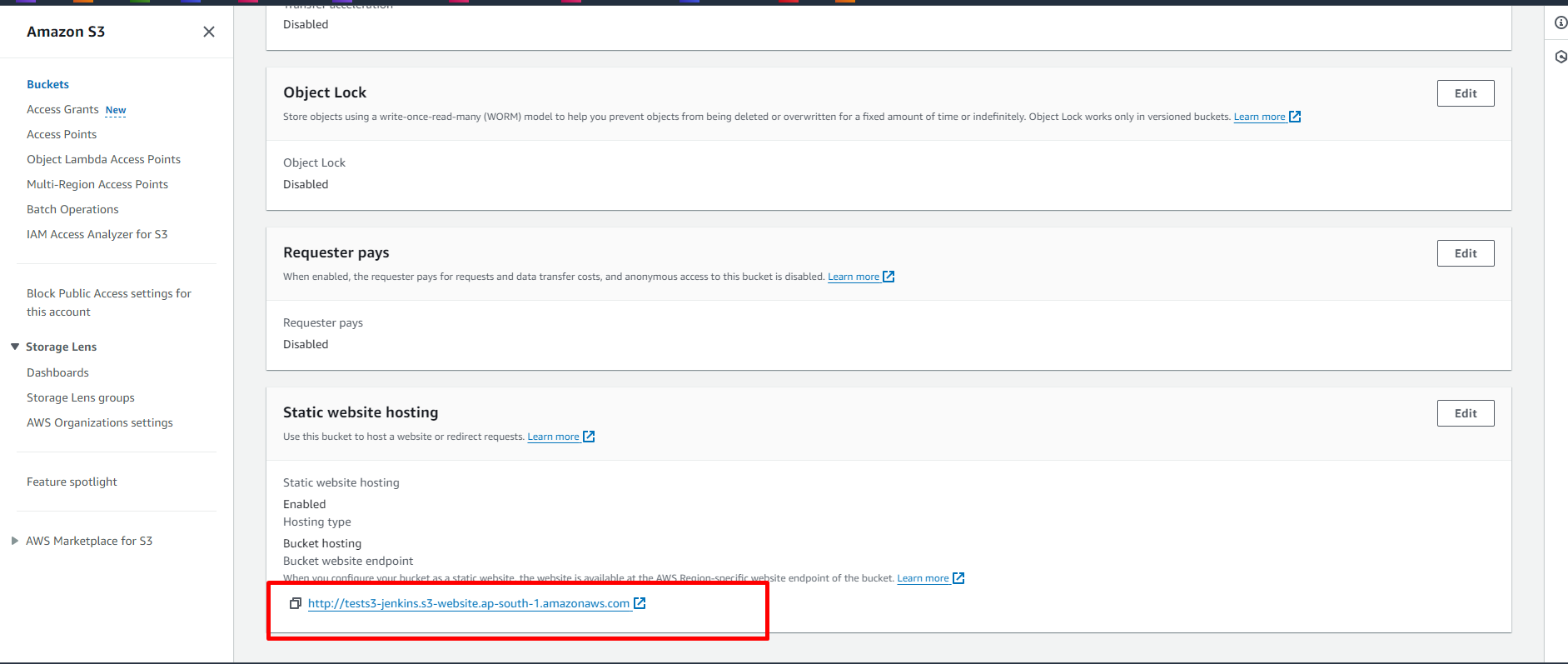
We successfully deployed files from GitHub to the S3 bucket.



Next, we go to bucket properties.



Then click on the static website hosting URL.



Finally, we successfully deployed the GitHub application to the S3 bucket and also successfully browsed that application.

