



Semester: V

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Class / Branch: TE IT B

Subject: Advanced Devops Lab (ADL)

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## EXPERIMENT NO.03

**Aim:** To Build Your Application using AWS CodeBuild and Deploy on S3/SEB using AWS CodePipeline, deploy Sample Application on EC2 instance using AWS CodeDeploy.

### Step 1: Creation of Buckets (Storage and Deployment)

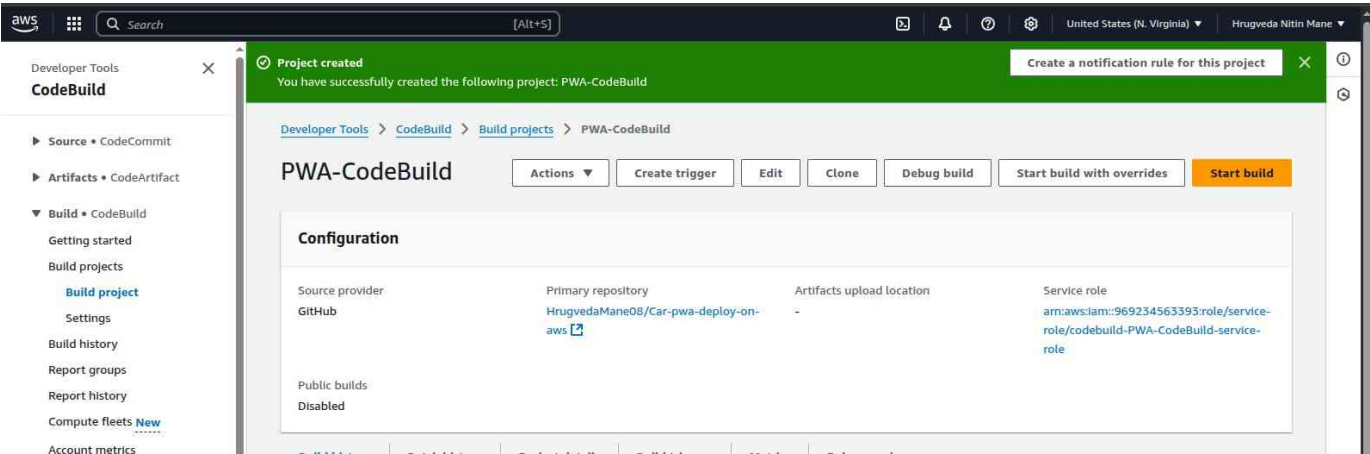
The screenshot shows the AWS Management Console interface. At the top, a green banner indicates "Successfully created bucket 'hrugvedadeploy'". Below this, the "Buckets" page is displayed. The "General purpose buckets" tab is active, showing a table with two buckets: "hrugvedadeploy" and "hrugvedastorage", both in the "US East (N. Virginia) us-east-1" region. To the right, there are sections for "Account snapshot" and "External access summary".

Name	AWS Region	Creation date
hrugvedadeploy	US East (N. Virginia) us-east-1	July 24, 2025, 13:06:13 (UTC+05:30)
hrugvedastorage	US East (N. Virginia) us-east-1	July 24, 2025, 13:05:46 (UTC+05:30)

### Step 2: Connection to Github Account:

The screenshot shows the "Authorize AWS CodeBuild (N. Virginia)" dialog box. It lists the permissions being requested: "Organization webhooks" (Admin access), "Organizations and teams" (Read-only access), and "Repositories" (Public and private). At the bottom, there are "Cancel" and "Authorize aws-codesuite" buttons. A note at the bottom states: "Authorizing will redirect to https://us-east-1.console.aws.amazon.com".

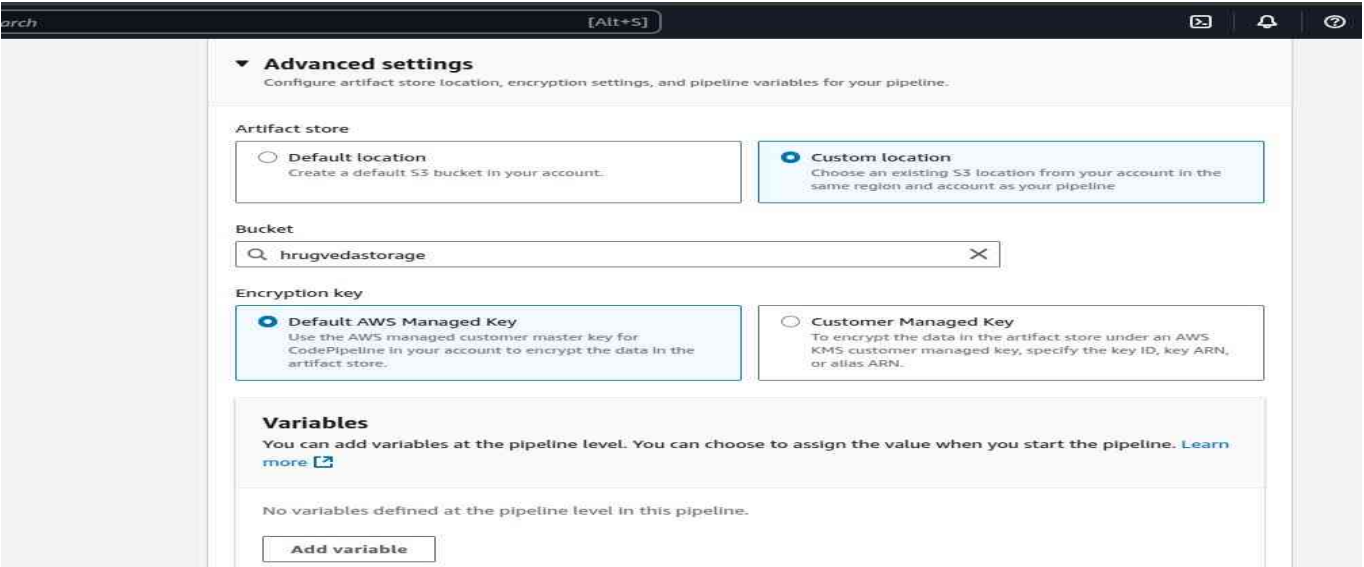
Step3:CreationOfCodebuildProject



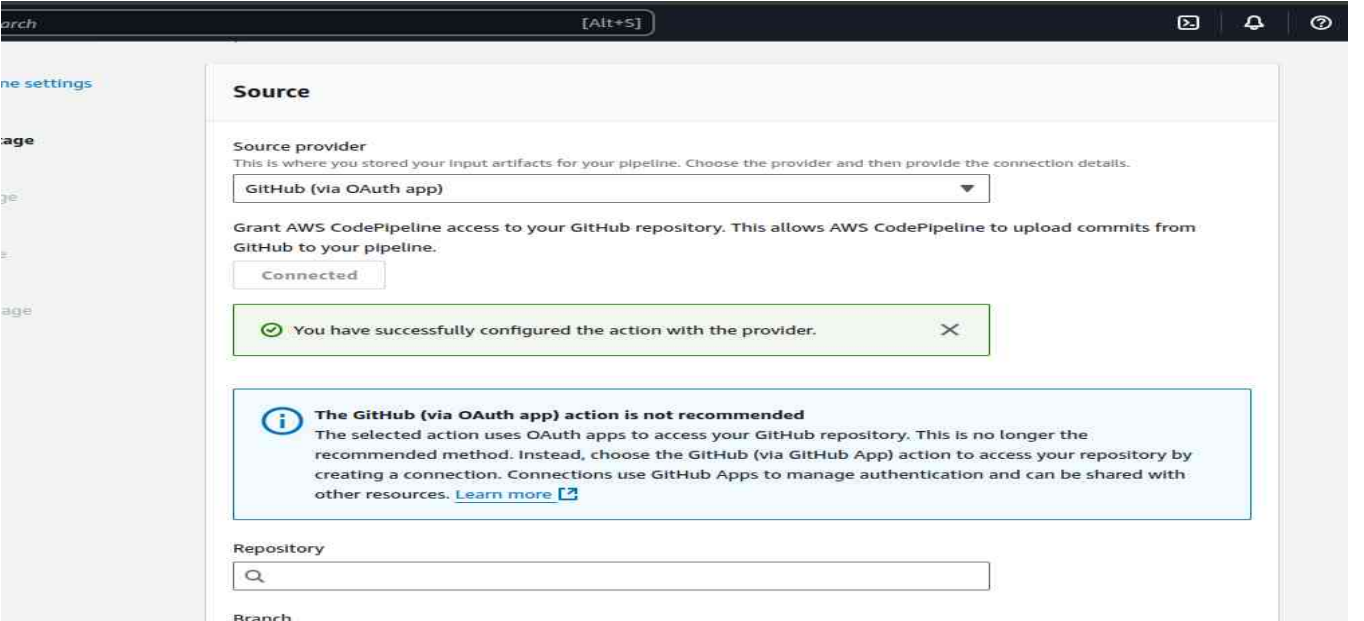
Step4:CreatingaPipeline



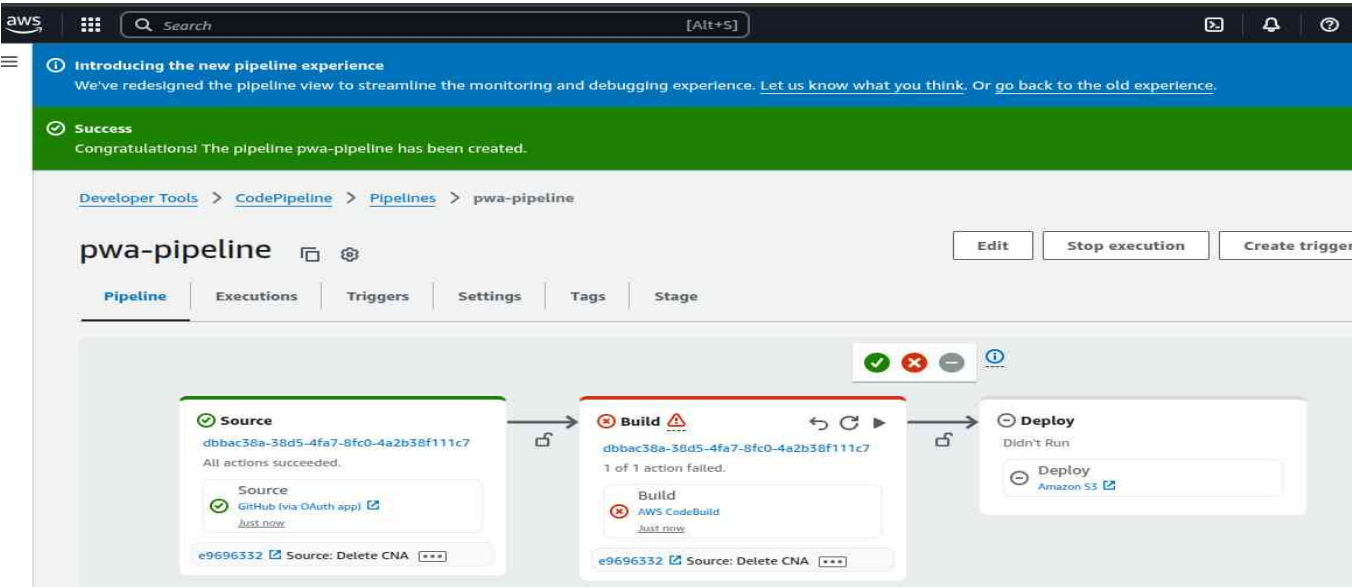
Step5:Selectingthecustomlocationandthestoragebucket



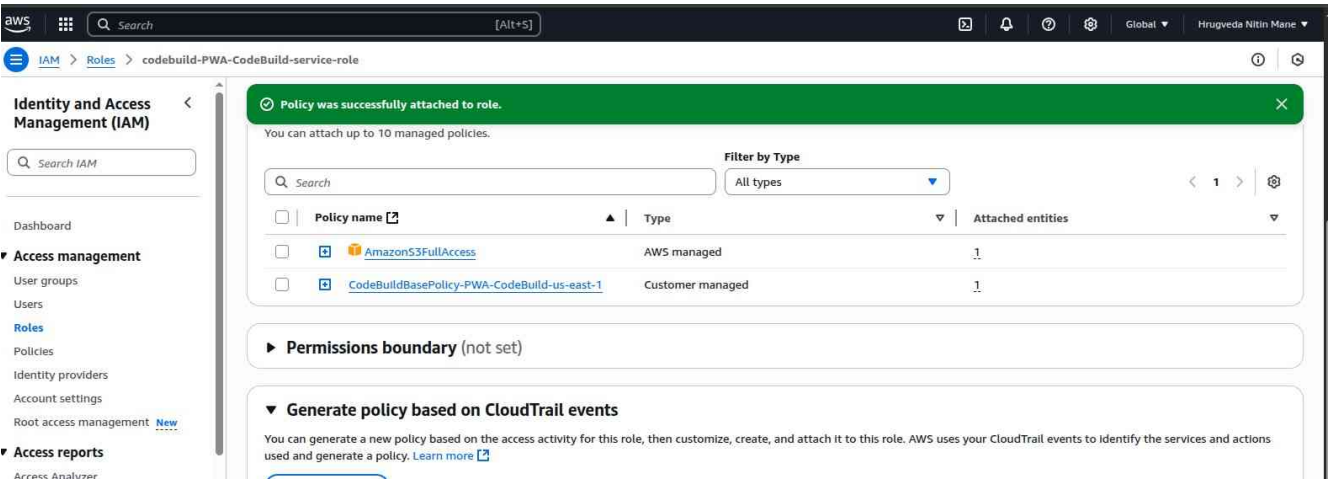
Step6:SelectSourceProviderasGithubaswehavethewebsitetobedeployedonGithubaccount



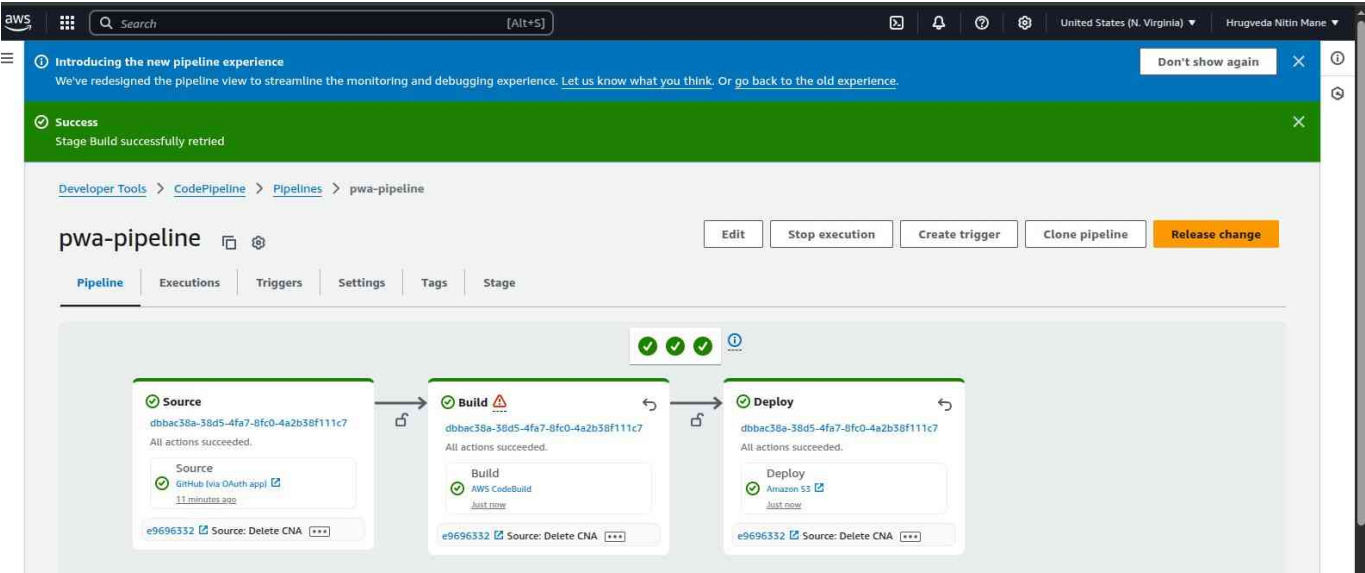
Step7:CreatethepipelineandTestit(Initiallyitwillgiveerroraspolicieshavenotbeenappliedyet)



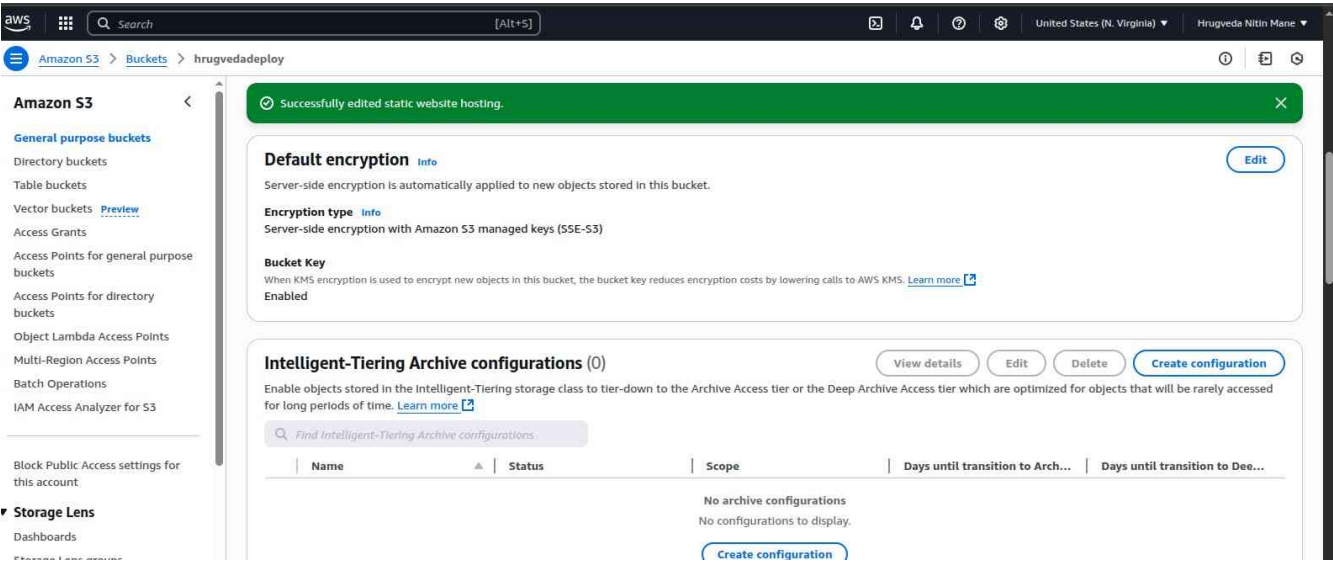
Step8:Attachtherequiredpoliciestothespecifiedroles



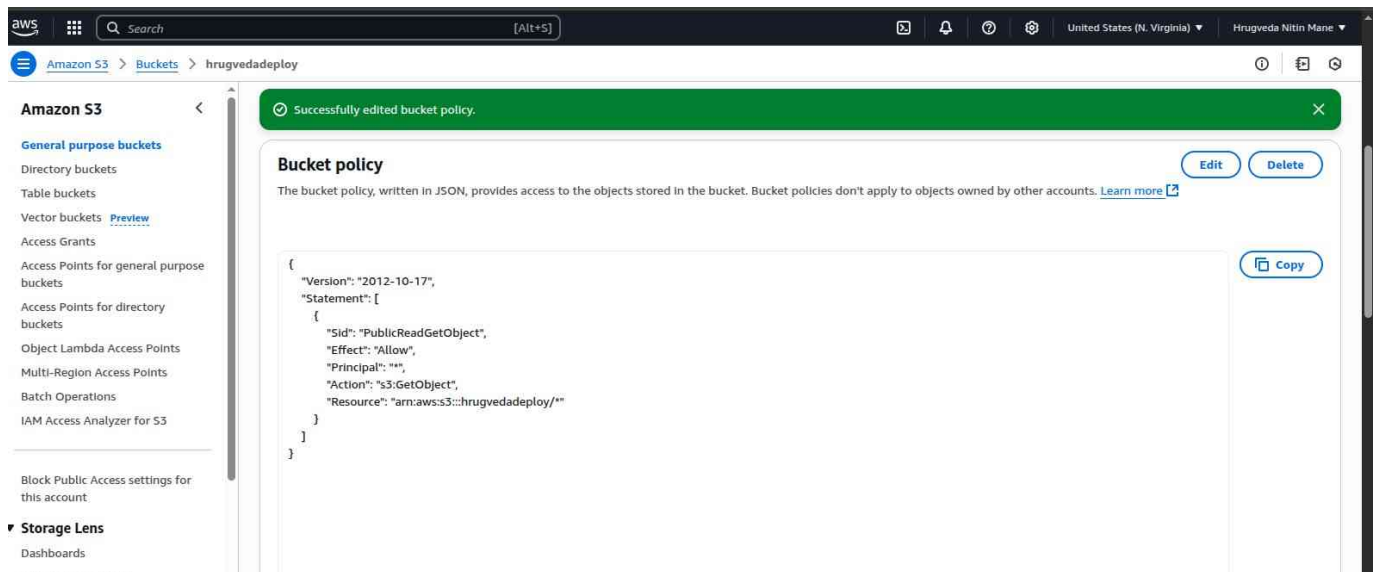
Step9:RefreshthePageoftestingandnowThebuildisSuccessful



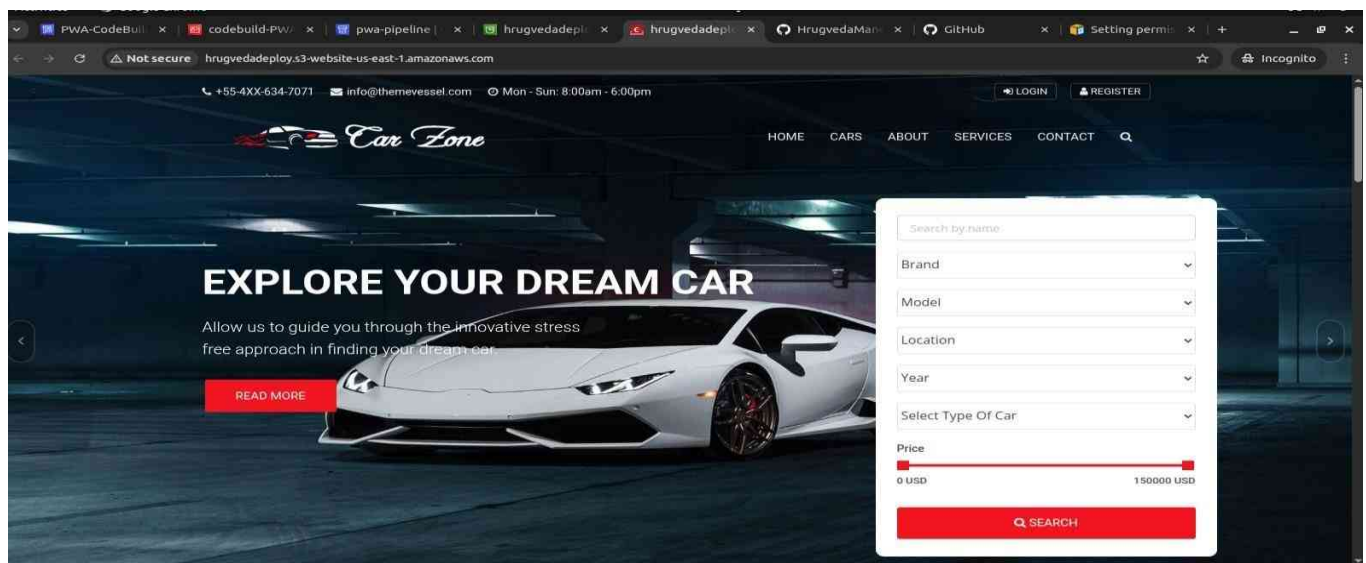
Step10:Nowgotopropertiesandedititbyenablingthestaticwebsitehostingandpastingthe index.html code of the website in the given window



**Step11:** Goto Permissionstab and set the permissions for website access using the website WebsiteAccessPermissionsReqd.html and paste the policy code into it



**Step12:** Now just click on the link and access the static website



**Conclusion:** Hence we studied to Build our Application using AWS CodeBuild and Deploy on S3 / SEBS using AWS CodePipeline, deploy Sample Application on EC2 instance using AWS CodeDeploy