



Semester: V  
Academic Year: 2024-25  
Class / Branch: TE IT/B  
Subject: Advanced Devops Lab (ADL)  
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## EXPERIMENT NO. 02

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

### Step1: Create a deployment environment

a. If you plan to use Amazon S3 as your source, you will retrieve the sample code from the AWS GitHub repository,

Create storage and deployment buckets on Amazon S3 bucket

Amazon S3

Account snapshot - updated every 24 hours [All AWS Regions](#) [View Storage Lens dashboard](#)

Storage lens provides visibility into storage usage and activity trends. [Learn more](#)

General purpose buckets | Directory buckets

General purpose buckets (2) [Info](#) [All AWS Regions](#) [Refresh](#) [Copy ARN](#) [Empty](#) [Delete](#) [Create bucket](#)

Buckets are containers for data stored in S3.

	Name	AWS Region	IAM Access Analyzer	Creation date
<input type="radio"/>	<a href="#">storage-builld</a>	US East (N. Virginia) us-east-1	<a href="#">View analyzer for us-east-1</a>	August 7, 2024, 11:12:43 (UTC+05:30)
<input type="radio"/>	<a href="#">deploy-buck</a>	US East (N. Virginia) us-east-1	<a href="#">View analyzer for us-east-1</a>	August 7, 2024, 11:13:00 (UTC+05:30)

Create project on codebuild



Developer Tools > CodeBuild > Build projects > pwa-codebuild

## pwa-codebuild

Actions ▼ Create trigger Edit Clone Debug build Start build with overrides **Start build**

### Configuration

Source provider	Primary repository	Artifacts upload location	Service role
GitHub	RiseHarsh/Car-pwa-deploy-on-aws <a href="#">🔗</a>	-	arn:aws:iam::058264448436:role/service-role/codebuild-pwa-service-role
Public builds			
Disabled			

## Create Pipeline and add build stage, deploy stage

## Review Info

Step 5 of 5

### Step 1: Choose pipeline settings

#### Pipeline settings

Pipeline name	pwa-pipeline2
Pipeline type	V2
Execution mode	QUEUED
Artifact location	storage-build
Service role name	AWSCodePipelineServiceRole-us-east-1-pwa-plpipeline2



Build action provider

Build action provider

AWS CodeBuild

ProjectName

pwa-codebuild

**Step 4: Add deploy stage**

Deploy action provider

Deploy action provider

Amazon S3

Extract

true

BucketName

deploy-buck

Configure automatic rollback on stage failure

Disabled

Cancel Previous **Create pipeline**

On clicking Create Pipeline it will give error in build and deploy stage

**pwa-pipeline2** Notify Edit Stop execution Clone pipeline Release change

Pipeline type: V2 Execution mode: QUEUED

**Source** Succeeded

Pipeline execution ID: [1b57e66d-0477-4f87-8c2a-3b5f8e24b5a7](#)

Source

[GitHub \(Version 1\)](#)

Succeeded - Just now

[e9696332](#)

[View details](#)

[e9696332](#) Source: Delete CNAME

[Disable transition](#)

**Build** Failed

[Start rollback](#) [Retry stage](#) [Retry failed actions](#)

Pipeline execution ID: [1b57e66d-0477-4f87-8c2a-3b5f8e24b5a7](#)

Build

[AWS CodeBuild](#)

Failed - Just now

[View details](#)



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Disable transition

**Build** Failed Start rollback Retry stage Retry failed actions

Pipeline execution ID: [1b57e66d-0477-4f87-8c2a-3b5f8e24b5a7](#)

Build  
[AWS CodeBuild](#)  
Failed - 1 minute ago  
[View details](#)

[e9690332](#) [Source: Delete CNAME](#)

Disable transition

**Deploy** Didn't Run Start rollback

Deploy  
[Amazon S3](#)  
Didn't Run  
*No executions yet.*

After enabling the static website hosting on Deployment bucket the build stage and deploy stage error will get solved

Build Succeeded Start rollback

Pipeline execution ID: [1b57e66d-0477-4f87-8c2a-3b5f8e24b5a7](#)

Build  
[AWS CodeBuild](#)  
Succeeded - Just now  
[View details](#)

[e9690332](#) [Source: Delete CNAME](#)

Disable transition

Deploy Succeeded Start rollback

Pipeline execution ID: [1b57e66d-0477-4f87-8c2a-3b5f8e24b5a7](#)

Deploy  
[Amazon S3](#)  
Succeeded - Just now  
[View details](#)

[e9690332](#) [Source: Delete CNAME](#)



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### Object Lock

[Edit](#)

Store objects using a write-once-read-many (WORM) model to help you prevent objects from being deleted or overwritten for a fixed amount of time or indefinitely. Object Lock works only in versioned buckets. [Learn more](#)

Object Lock  
Disabled

### Requester pays

[Edit](#)

When enabled, the requester pays for requests and data transfer costs, and anonymous access to this bucket is disabled. [Learn more](#)

Requester pays  
Disabled

### Static website hosting

[Edit](#)

Use this bucket to host a website or redirect requests. [Learn more](#)

Static website hosting  
Enabled

Hosting type  
Bucket hosting

Bucket website endpoint

When you configure your bucket as a static website, the website is available at the AWS Region-specific website endpoint of the bucket. [Learn more](#)

<http://deploy-buck-s3-website-us-east-1.amazonaws.com>

On clicking the link given in Deployment bucket under Static Website Hosting it'll show us error due to permissions

## 403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: B8QZ5P0W31KM7PJQ
- HostId: 5WyXsjcIJ3ZkdvPD65xAKRZAYrTetVx8MRNbOvug1UVfuDDgQRR/GLulmGaHzmkTq6eqJKVGm0=



After giving permission we get

Successfully edited bucket policy.

Amazon S3 > Buckets > deploy-buck

deploy-buck Info

Objects Properties **Permissions** Metrics Management Access Points

### Permissions overview

Access finding  
Access findings are provided by IAM external access analyzers. Learn more about [How IAM analyzer findings work](#)

[View analyzer for us-east-1](#)

### Block public access (bucket settings) Edit

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to all your S3 buckets and objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to your buckets or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

Block *all* public access  
 Off  
▶ Individual Block Public Access settings for this bucket

### Bucket policy Edit Delete

The bucket policy, written in JSON, provides access to the objects stored in the bucket. Bucket policies don't apply to objects owned by other accounts. [Learn more](#)

Activities Google Chrome Wed 12:14

Major - Google Drive x deploy-buck - S3 buck x deploy-buck.s3-websit x codebuild-pwa-servic x RiseHarshy/Car-pwa-d x Setting permissions f x +

Not secure | deploy-buck.s3-website-us-east-1.amazonaws.com

Gmail YouTube Maps All Bookmarks

+55-4XX-634-7071 info@themevessel.com Mon - Sun: 8:00am - 6:00pm LOGIN REGISTER

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**Conclusion:** In this experiment we have deployed the projects on aws s3 bucket.