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D15A 32

ADVANCE DEVOPS EXP-2

Aim: To build your application using AWS Codebuild and deploy on S3 using AWS CodePipeline deploy sample application on EC2 instance using AWS codedeploy. Code and Output : Using

Elastic Beanstalk:

The screenshot displays the AWS Elastic Beanstalk 'Configure environment' console page. On the left, a sidebar lists the steps: Step 1 (Configure environment), Step 2 (Configure service access), Step 3 (optional: Set up networking, database, and tags), Step 4 (optional: Configure instance traffic and scaling), Step 5 (optional: Configure updates, monitoring, and logging), and Step 6 (Review). The main content area is titled 'Configure environment' and includes several sections:

- Environment tier:** Two options are shown: 'Web server environment' (selected) and 'Worker environment'. The 'Web server environment' description states it runs a website, web application, or web API that serves HTTP requests. The 'Worker environment' description states it runs a worker application that processes long-running workloads on demand or performs tasks on a schedule.
- Application information:** The 'Application name' field is set to 'myFirstApp'. A note indicates the maximum length is 100 characters. There is an expandable section for 'Application tags (optional)'.
- Environment information:** A warning message states 'Choose the name, subdomain and description for your environment. These cannot be changed later.' The 'Environment name' field is set to 'MyFirstApp-env'. A note specifies the name must be from 4 to 40 characters in length, contain only letters, numbers, and hyphens, and cannot start or end with a hyphen. The 'Domain' field is set to '.eu-north-1.elasticbeanstalk.com'. There is a 'Check availability' button. The 'Environment description' field is empty.
- Platform:** Two options are shown: 'Managed platform' (selected) and 'Custom platform'. The 'Managed platform' description states it includes platforms published and maintained by AWS.

Platform

Info

Platform type

☒ Managed platform

Platforms published and maintained by Amazon Elastic Beanstalk. [Learn more](#)

☐ Custom platform

Platforms created and owned by you. This option is unavailable if you have no platforms.

Platform

PHP

Platform branch

PHP 8.3 running on 64bit Amazon Linux 2023

Platform version

4.3.2 (Recommended)

Application code

Info

Sample application

us-east-1.console.aws.amazon.com/elasticbeanstalk/home/?region=us-east-1#/create-environment

WS

Services

Search

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Step 1

Configure environment

Step 2

Configure service access

Step 3 - optional

Set up networking, database, and tags

Step 4 - optional

Configure instance traffic and scaling

Step 5 - optional

Configure updates, monitoring, and logging

Step 6

Review

Configure service access

Info

Service access

IAM roles, assumed by Elastic Beanstalk as a service role, and EC2 instance profiles allow Elastic Beanstalk to create and manage your environment. Both the IAM role and instance profile must be attached to IAM managed policies that contain the required permissions. [Learn more](#)

Service role

☐ Create and use new service role

☒ Use an existing service role

Existing service roles

Choose an existing IAM role for Elastic Beanstalk to assume as a service role. The existing IAM role must have the required IAM managed policies.

aws-elasticbeanstalk-service-role

EC2 key pair

Select an EC2 key pair to securely log in to your EC2 instances. [Learn more](#)

newKey

EC2 instance profile

Choose an IAM instance profile with managed policies that allow your EC2 instances to perform required operations.

aws-elasticbeanstalk-ec2-role

View permission details

Cancel

Skip to review

Previous

Next

aws

Services

codeArtifact

Elastic Beanstalk

Applications

Environments

Change history

▼ Application: vedantap

Application version

Saved configuration

▼ Environment: Vedant

Go to environment

Configuration

Events

Health

Logs

Monitoring

Alarms

Managed updates

Taas

Search results for 'code'

Services (32)

Features (45)

Resources **New**

Documentation (104,065)

Knowledge Articles (137)

Marketplace (5,859)

Blogs (2,975)

Events (51)

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Services

See all 32 results ▶

Amazon Q Developer (Including Amazon CodeWhisperer) ☆

Build applications faster, and spend less time solving software development problems.

CodeCommit ☆

Store Code in Private Git Repositories

CodePipeline ☆

Release Software using Continuous Delivery

AWS Signer ☆

Ensuring trust and integrity of your code

Features

See all 45 results ▶

Full repository analysis

Amazon CodeGuru feature

Pull request code review

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Developer Tools > CodePipeline > Pipelines

Introducing the new V2 pipeline type with improved release safety, pipeline triggers, parameterized pipelines, and a new billing model. [Learn more](#)

Pipelines Info

🔄

🔔 Notify ▼

View history

Release change

Delete pipeline

Create pipeline

🔍

< 1 > 🔄

	Name	Latest execution status	Latest source revisions	Latest execution started	Most recent executions
○	newpipeline (Type: V2 Execution mode: QUEUED)	Failed	Source - fb61b094 🔗 Update index.html	6 days ago	🔗 View details

us-east-1.console.aws.amazon.com/codesuite/settings/connections/create/github...

aws

Services

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Developer Tools > Connections > Create connection

Beginning July 1, 2024, the console will create connections with codeconnections in the resource ARN. Resources with both service prefixes will continue to display in the console. [Learn more](#)

Connect to GitHub

GitHub connection settings

Info

Connection name

connection

App installation - optional

Install GitHub App to connect as a bot. Alternatively, leave it blank to connect as a GitHub user, which can be used in AWS CodeBuild projects.

53726872

X

or

Install a new app

Tags - optional

Connect

CloudShellFeedback

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Default branch

Default branch will be used only when pipeline execution starts from a different source or ma

aws

Services

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Step 2

Add source stage

Step 3

Add build stage

Step 4

Add deploy stage

Step 5

Review

Source

Source provider

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

GitHub (Version 2)

New GitHub version 2 (app-based) action

To add a GitHub version 2 action in CodePipeline, you create a connection, which uses GitHub Apps to access your repository. Use the options below to choose an existing connection or create a new one. [Learn more](#)

Connection

Choose an existing connection that you have already configured, or create a new one and then return to this task.

Q am:aws:codeconnections:us-east-1:314146309670:connection/7e91c9d2-bb X

 or

Connect to GitHub

Ready to connect

Your GitHub connection is ready for use.

Repository name

Choose a repository in your GitHub account.

Q Morphious0110/aws-codepipeline-s3-codedeploy-linux-2.0 X

You can type or paste the group path to any project that the provided credentials can access. Use the format 'group/subgroup/project'.

Default branch

Default branch will be used only when pipeline execution starts from a different source or manually started.

Q master X

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.

Trigger

Trigger type

Choose the trigger type that starts your pipeline.

☒ No filter

Starts your pipeline on any push and clones the HEAD.

☐ Specify filter

Starts your pipeline on a specific filter and clones the exact commit. Pipeline type V2 is required.

☐ Do not detect changes

Don't automatically trigger the pipeline.

You can add additional sources and triggers by editing the pipeline after it is created.

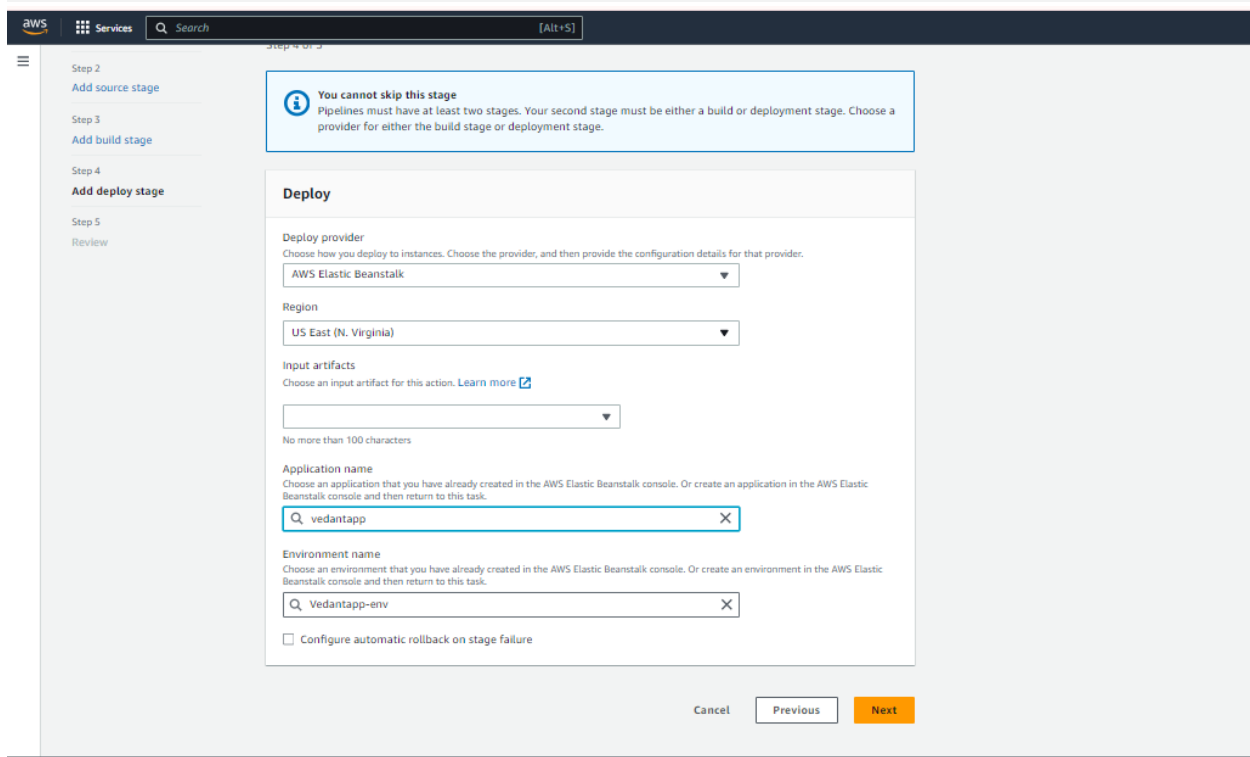
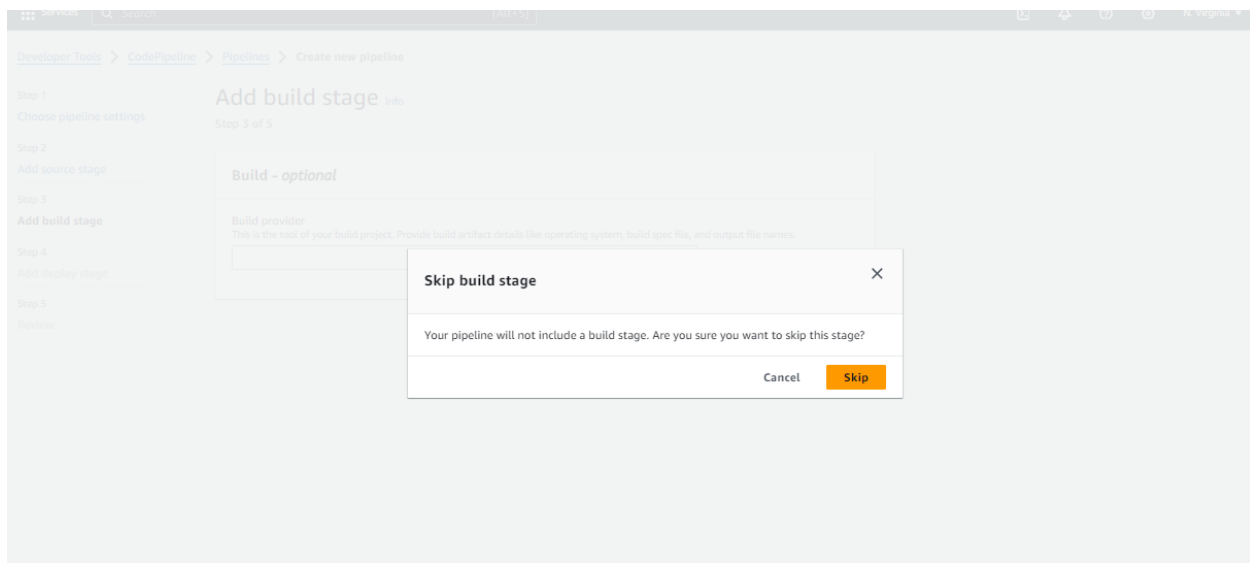
Cancel

Previous

Next

Feedback

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→ ↺

us-east-1.console.aws.amazon.com/codesuite/codepipeline/pipeline/new?region=us-east-1

Services

Search

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Trigger configuration

You can add additional pipeline triggers after the pipeline is created.

Trigger type

No filter

Step 3: Add build stage

Build action provider

Build stage

No build

Step 4: Add deploy stage

Deploy action provider

Deploy action provider

AWS Elastic Beanstalk

ApplicationName

vedantapp

EnvironmentName

Vedantapp-env

Configure automatic rollback on stage failure

Disabled

Cancel

Previous

Create pipeline

Build • CodeBuild

Deploy • CodeDeploy

Pipeline • CodePipeline

Getting started

Pipelines

Pipeline

History

Settings

Settings

Go to resource

Feedback

Pipeline type: V2 Execution mode: QUEUED

Source

Succeeded

Pipeline execution ID: [g20db2u4-728w-4sdf-9u80-497633d31011](#)

Source

[Github \(Version 2\)](#)

Succeeded - 1 minute ago

[f961b094](#)

View details

[View logs](#) Source: Update index.html

Disable transition

Deploy

Succeeded

Pipeline execution ID: [g20db2u4-728w-4sdf-9u80-497633d31011](#)

Deploy

[AWS Elastic Beanstalk](#)

Succeeded - Just now

Start rollback

CloudShell Feedback

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Elastic Beanstalk > Environments

Environments (2) info

Filter environments

Actions

Create environment

	Environment name	Health	Application name	Platform	Domain	Running versions	Tier name	Date created
	Mynewapp-env (terminated)	Unknown	MyNewApp	PHP 8.3 running on 64...	Mynewapp-env.eba-pfz7h5nw...	-	WebServer	August 13, 2024 14:08...
	Vedantapp-env	Ok	vedantapp	PHP 8.3 running on 64...	Vedantapp-env.eba-5xm9gup...	code-pipeline-172413...	WebServer	August 20, 2024 12:56...

Unbittl x Unbittl x Enviro x Veda x Inboi x AdDe x Advai x AdvD x Advai x D15 x 172.3 x + -

Not secure vedantapp-env.eba-5xm9gupn.us-east-1.elasticbeanstalk.com

Congratulations!

You have successfully created a pipeline that retrieved this source application from an Amazon S3 bucket and deployed it to three Amazon EC2 instances using AWS CodeDeploy.

Updated CHanges

S3 Bucket :

Buckets are containers for data stored in S3.

General configuration

AWS Region
Europe (Stockholm) eu-north-1

Bucket type | Info

☒ General purpose
Recommended for most use cases and access patterns.
General purpose buckets are the original S3 bucket type.
They allow a mix of storage classes that redundantly store objects across multiple Availability Zones.

☐ Directory - New
Recommended for low-latency use cases. These buckets use only the S3 Express One Zone storage class, which provides faster processing of data within a single Availability Zone.

Bucket name | Info

Pratham-Bucket

Bucket name must be unique within the global namespace and follow the bucket naming rules. [See rules for bucket naming](#)

Copy settings from existing bucket - optional

Only the bucket settings in the following configuration are copied.

Choose bucket

Format: s3://bucket/prefix

Object Ownership | Info

Drag and drop files and folders you want to upload here, or choose **Add files** or **Add folder**.

Files and folders (1 Total, 505.0 B)

Remove

Add files

Add folder

All files and folders in this table will be uploaded.

Find by name

< 1 >

<input type="checkbox"/>	Name	Folder	Type
<input type="checkbox"/>	index.html	-	text/html

Destination [Info](#)

Destination

s3://vedantawsbucket

► Destination details

Bucket settings that impact new objects stored in the specified destination.

Feedback

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Edit Block public access (bucket settings) [Info](#)

Block public access (bucket settings)

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

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.

Object Ownership


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.

 We recommend disabling ACLs, unless you need to control access for each object individually or to have the object writer own the data they upload. Using a bucket policy instead of ACLs to share data with users outside of your account simplifies permissions management and auditing.

 **Enabling ACLs turns off the bucket owner enforced setting for Object Ownership**
Once the bucket owner enforced setting is turned off, access control lists (ACLs) and their associated permissions are restored. Access to objects that you do not own will be based on ACLs and not the bucket policy.


☒ I acknowledge that ACLs will be restored.

Object Ownership

 **Upload succeeded**
View details below.


Upload: status


Close

 The information below will no longer be available after you navigate away from this page.

Summary

Destination
s3://vedantawsbucke

Succeeded
 1 file, 505.0 B (100.00%)

Failed
 0 files, 0 B (0%)


Files and folders

Configuration

Files and folders (1 Total, 505.0 B)

Edit static website hosting [Info](#)



Static website hosting



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

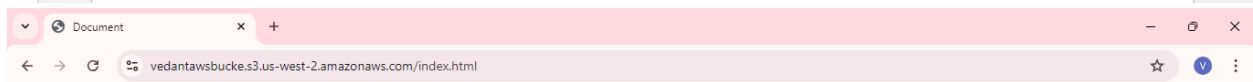
Static website hosting

- ☐ 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](#) 



Hello World

Hello World Lorem ipsum dolor sit amet consectetur, adipisicing elit. Rem voluptatibus sint ipsam, iure eligendi velit laboriosam vitae nisi facilis ipsa recusandae nulla quia assumenda rerum quos, exercitationem doloribus consectetur voluptate.

