

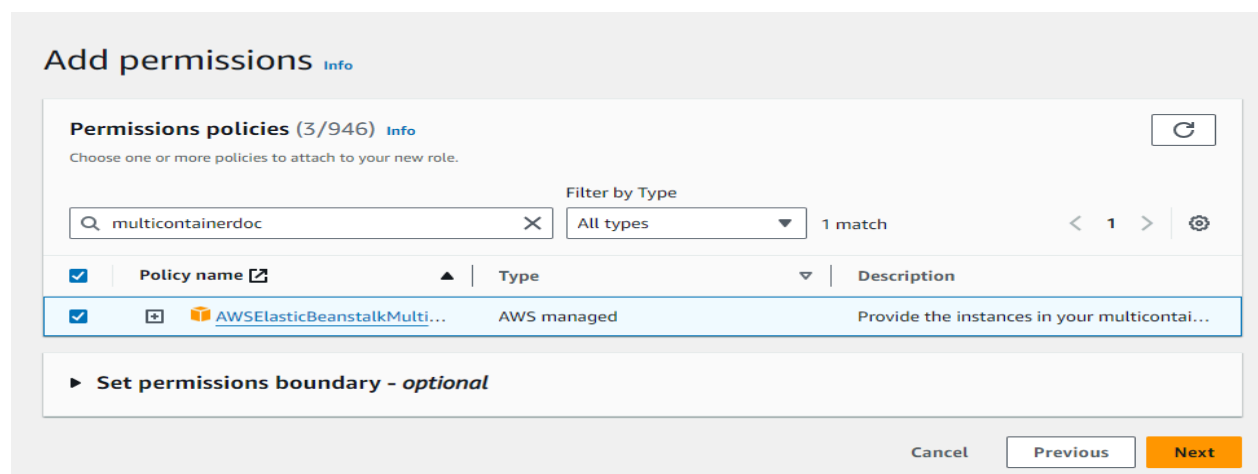
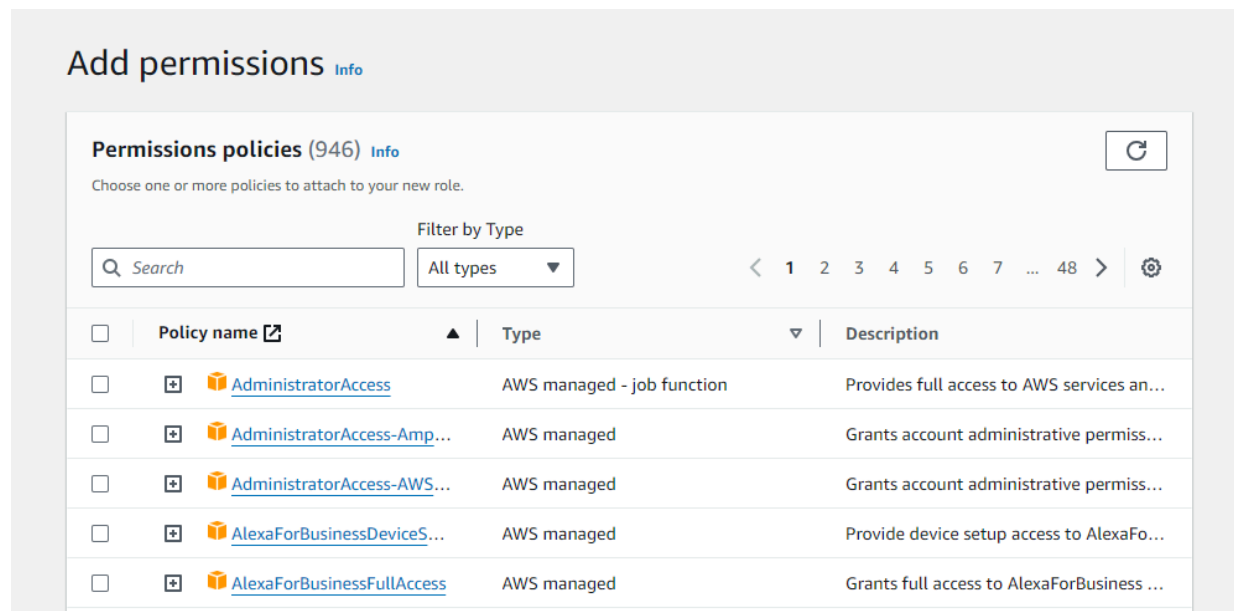
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Experiment 2: To Build Your Application using AWS CodeBuild and Deploy on S3 / SEBS using AWS CodePipeline, deploy Sample Application on EC2 instance using AWS CodeDeploy.

Login into your AWS account and navigate to services. Search for Elastic Beanstalk service and click on create application. Give your application a suitable name.



Now, while creating the environment, we are asked to provide an IAM role with the necessary EC2 permissions. We are supposed to make sure that we have made an existing IAM role with the following set of permissions:

1. AWSElasticBeanstalkWebTier
2. AWSElasticBeanstalkWorkerTier
3. AWSElasticBeanstalkMulticontainerDocker

Step 2: Add permissions Edit

Permissions policy summary

Policy name ?	Type	Attached as
AWSElasticBeanstalkMulticontainerDocker	AWS managed	Permissions policy
AWSElasticBeanstalkWebTier	AWS managed	Permissions policy
AWSElasticBeanstalkWorkerTier	AWS managed	Permissions policy

[Elastic Beanstalk](#) > [Applications](#) > atharva_app

Application atharva_app environments (0) [Info](#) ↺ Actions Create new environment

Environ...	Health	Date cre...	Domain	Running ...	Platform	Pla
No environments						
No environments currently exist for this application.						
Create environment						

For the platform, select PHP. Rest of the configuration settings are to be kept as default.

Platform

PHP

Platform branch

PHP 8.3 running on 64bit Amazon Linux 2023

Platform version

4.3.2 (Recommended)

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.

atharva_patil ▼

↻

EC2 key pair

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

Choose a key pair ▼

↻

EC2 instance profile

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

atharva_patil ▼

↻

[View permission details](#)

Cancel

Skip to review

Previous

Next

Review Info

Step 1: Configure environment

Edit

Environment information

Environment tier	Application name
Web server environment	atharva_app
Environment name	Application code
Atharvaapp-env	Sample application
Platform	
arn:aws:elasticbeanstalk:eu-north-1::platform/PHP 8.3 running on 64bit Amazon Linux 2023/4.3.2	

Step 2: Configure service access

Edit

Service access

Info

Configure the service role and EC2 instance profile that Elastic Beanstalk uses to manage your environment. Choose an EC2 key pair to securely log in to your EC2 instances.

Service role	EC2 instance profile
arn:aws:iam::010928207735:role/atharva_patil	atharva_patil

After reviewing everything properly, our environment can successfully be created.

Environment successfully launched.

Elastic Beanstalk > Environments > Atharvaapp-env

Atharvaapp-env

Info

Actions

Upload and deploy

Environment overview

Health

Warning - View causes

Environment ID

e-xdhcna3tnx

Domain

Atharvaapp-env.eba-tpdjeeem.eu-north-1.elasticbeanstalk.com

Application name

atharva_app

Platform

Change version

Platform

PHP 8.3 running on 64bit Amazon Linux 2023/4.3.2

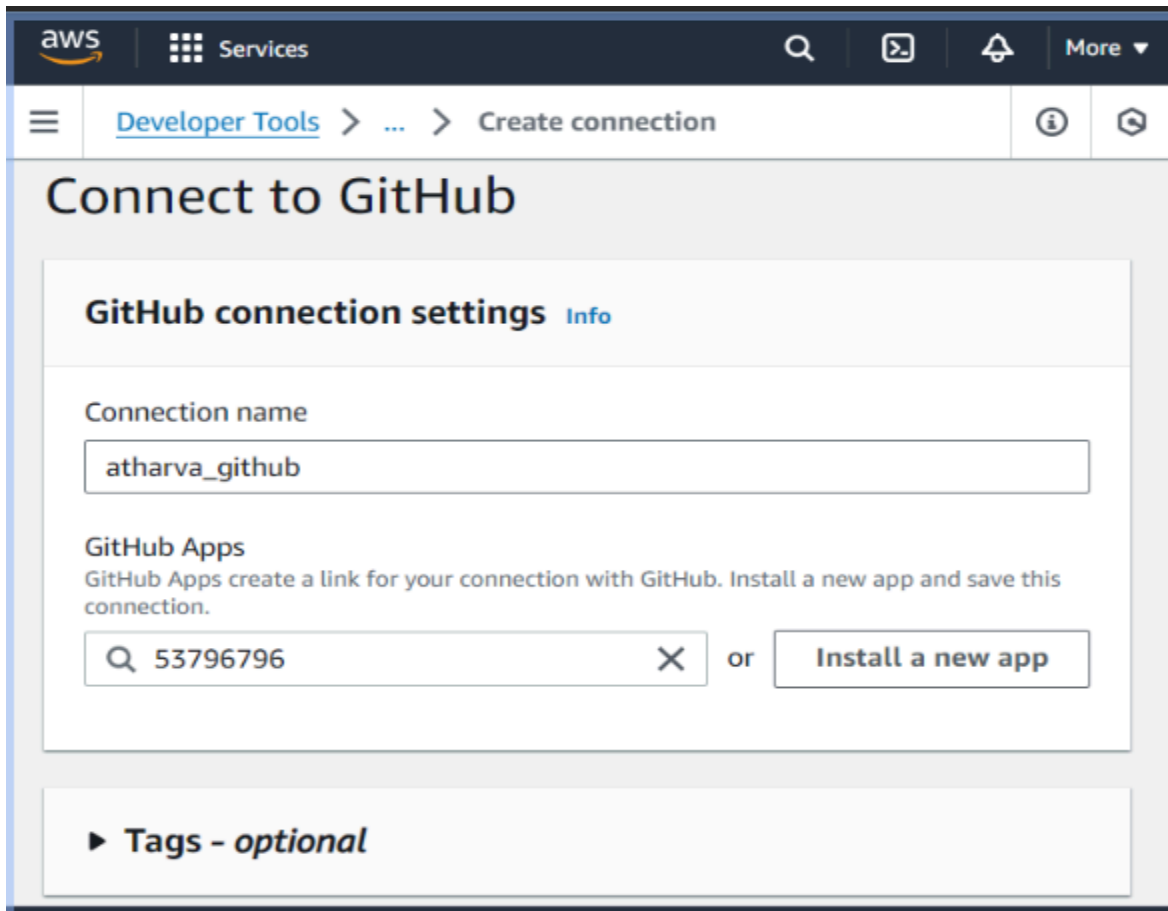
Running version

-

Platform state

Supported

In this step, we are supposed to create a github connection and add our existing repository over here



aws Services

Developer Tools > ... > Create connection

Connect to GitHub

GitHub connection settings [Info](#)

Connection name

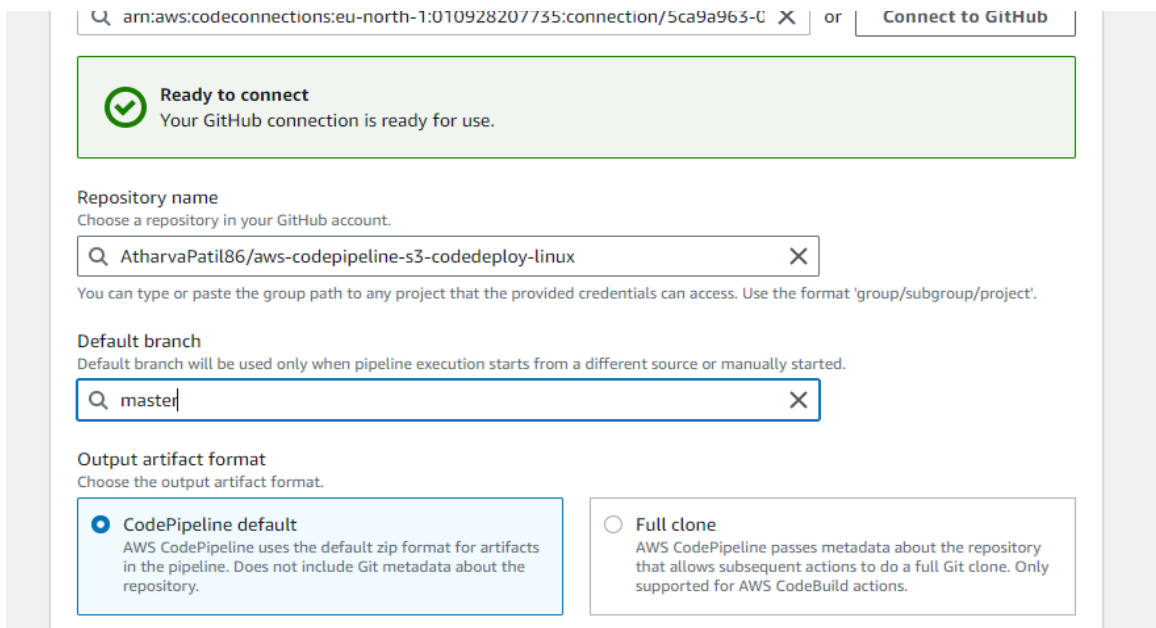
atharva_github

GitHub Apps


GitHub Apps create a link for your connection with GitHub. Install a new app and save this connection.

53796796 or [Install a new app](#)

► Tags - optional



arn:aws:codeconnections:eu-north-1:010928207755:connection/5ca9a963-0 or [Connect to GitHub](#)

 **Ready to connect**
Your GitHub connection is ready for use.

Repository name

Choose a repository in your GitHub account.

AtharvaPatil86/aws-codepipeline-s3-codedeploy-linux

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.

master

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.

Navigate to Codepipeline inside Developer Tools. Give a suitable name to the pipeline you want.

Success

Create a notification rule for this pipeline

Congratulations! The pipeline atharva_pipeline has been created.

Developer Tools > CodePipeline > Pipelines > atharva_pipeline

atharva_pipeline

Notify Edit Stop execution Clone pipeline Release change

Pipeline type: V2 Execution mode: QUEUED

Source In progress

Pipeline execution ID: 98de2513-5c06-413b-a62e-fe329445a135

Source

In progress - 1 minute ago

View details

Success

The most recent change will re-run through the pipeline. It might take a few moments for the status of the run to show in the pipeline view.

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

Refresh Notify View history Release change Delete pipeline Create pipeline

Search

< 1 > Settings

Name	Latest execution status	Latest source revisions	Latest execution started	Most recent executions
<div>atharva_pipeline</div> <div>(Type: V2 Execution mode: QUEUED)</div>	<div>Succeeded</div>	<div>Source – 72b19b9c</div> <div>: Update index.html</div>	5 minutes ago	<div>View details</div>

When all the stages run successfully, this is what is displayed onto the screen. It shows us that our application and our environment have successfully been deployed using a dedicated pipeline created

