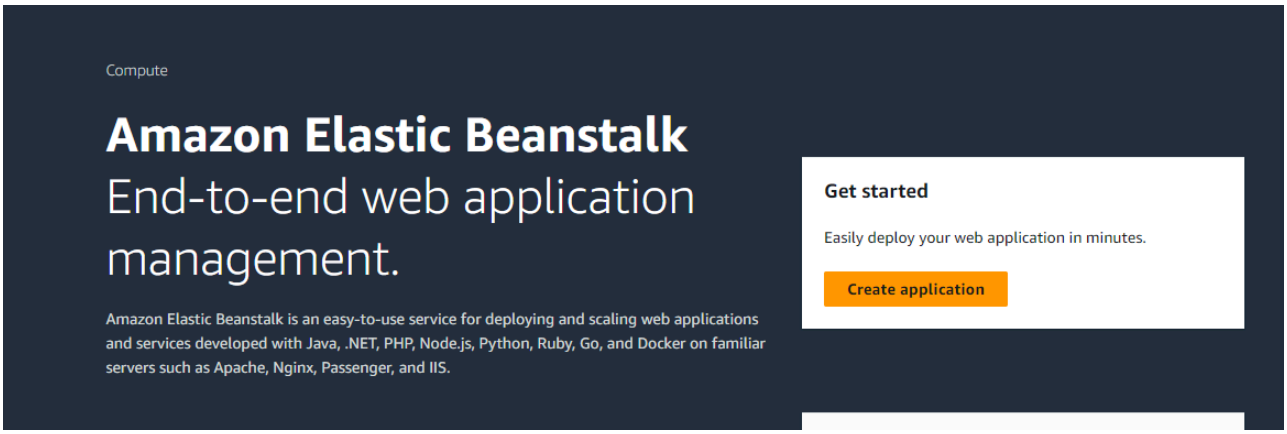
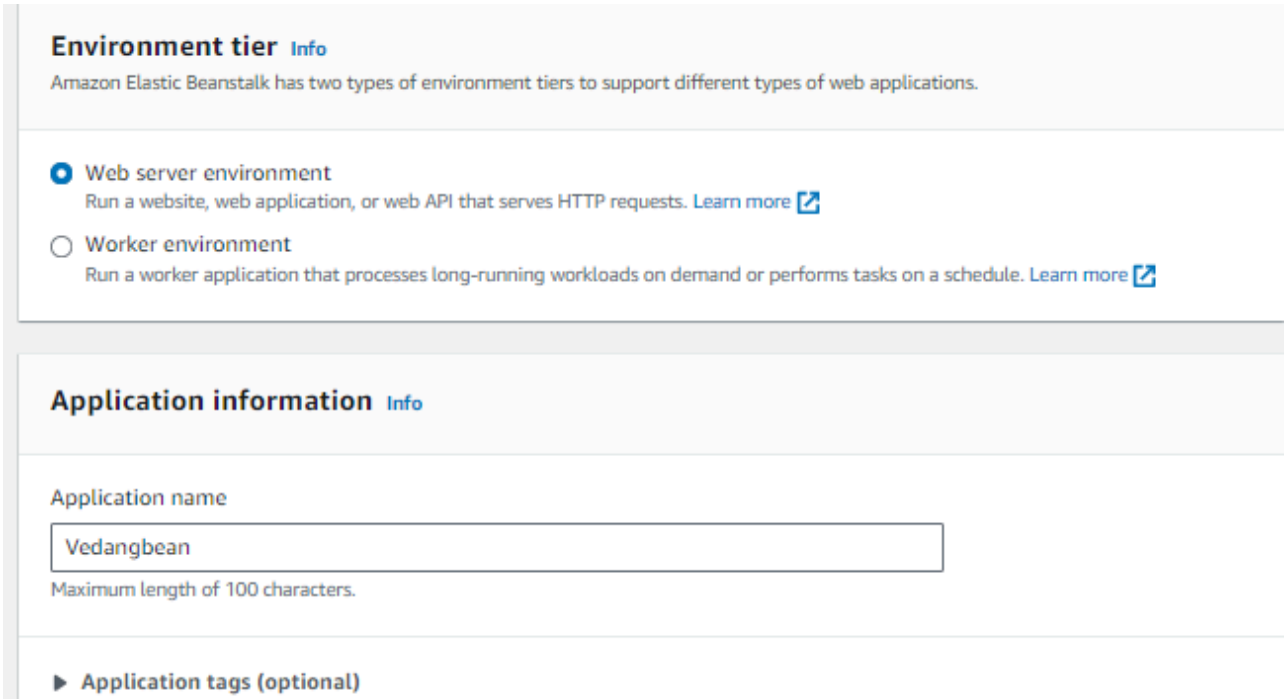
# ADVANCE DEVOPS EXP-2

## Vedang Wajge D15A/66

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:



## 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)

### Environment properties

| Key | Value |
| --- | --- |

**No environment properties**

There are no environment properties defined

Cancel | Previous | Submit

## Vedangbean-env Info

Actions | Upload and deploy

### Environment overview

Health
Unknown

Environment ID
e-vbejiswjbp

Domain
–

Application name
Vedangbean

### Platform

Change version

Platform
PHP 8.3 running on 64bit Amazon Linux 2023/4.3.2

Running version
–

Platform state
Supported

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

| Name | Latest execution status | Latest source revisions | Latest execution started | Most recent executions |
| --- | --- | --- | --- | --- |

**No results**

There are no results to display.

a

# Choose pipeline settings Info

Step 1 of 5

## Pipeline settings

Pipeline name

Enter the pipeline name. You cannot edit the pipeline name after it is created.

vedangpipeline

No more than 100 characters

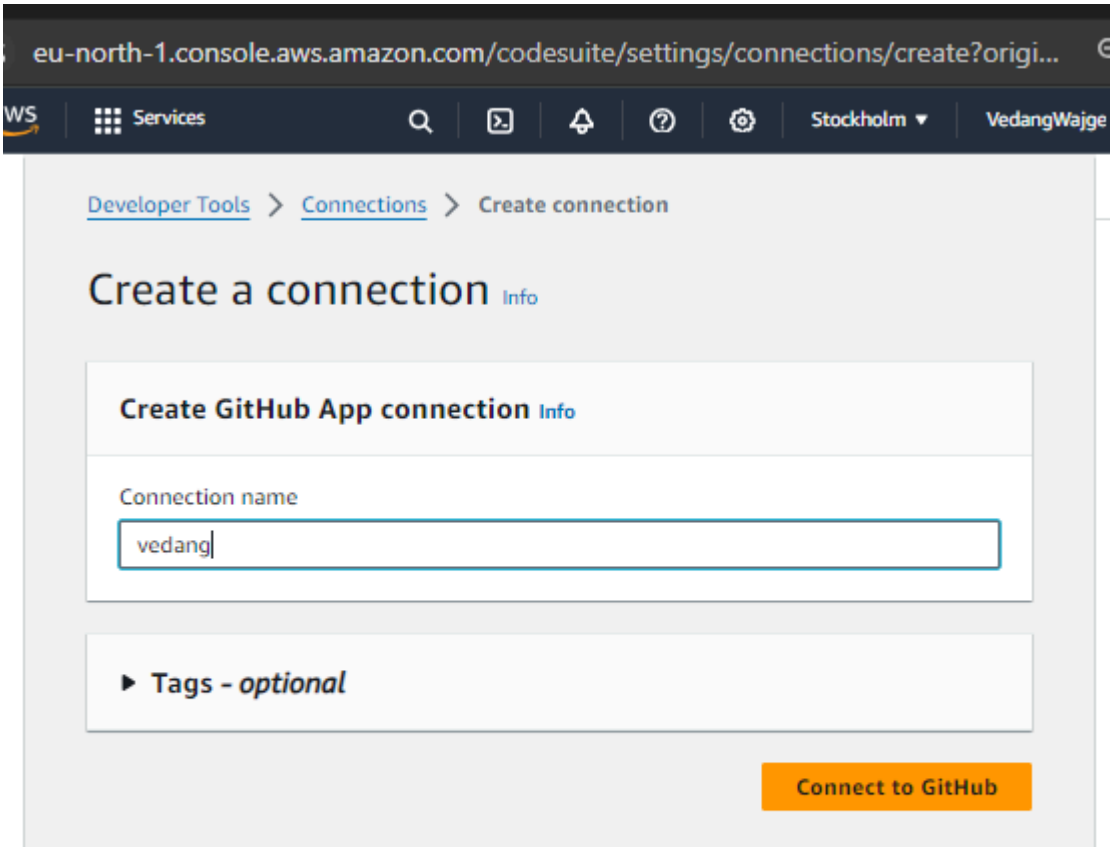
Pipeline type

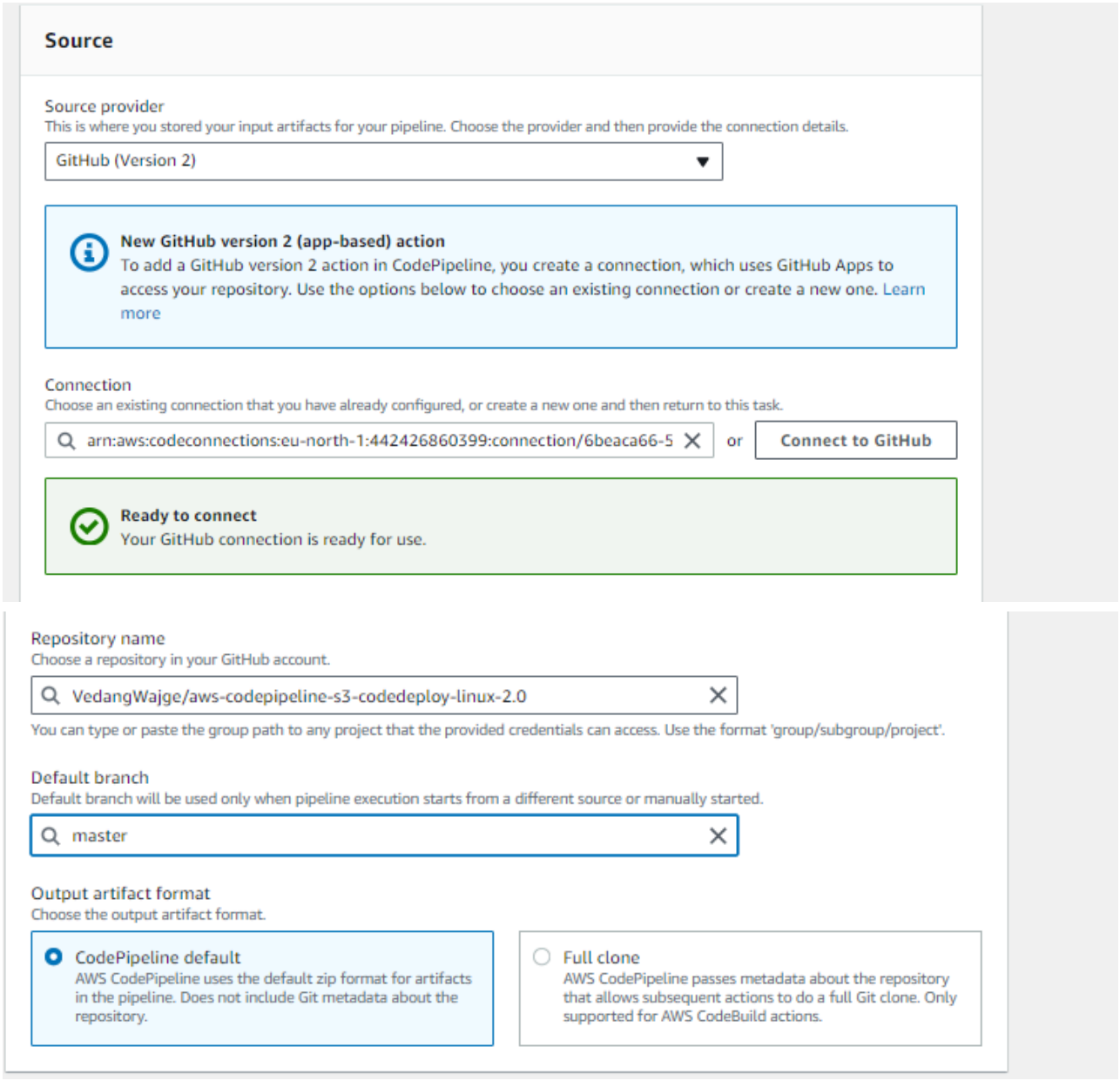
You can no longer create V1 pipelines through the console. We recommend you use the V2 pipeline type with improved release safety, pipeline triggers, parameterized pipelines, and a new billing model.

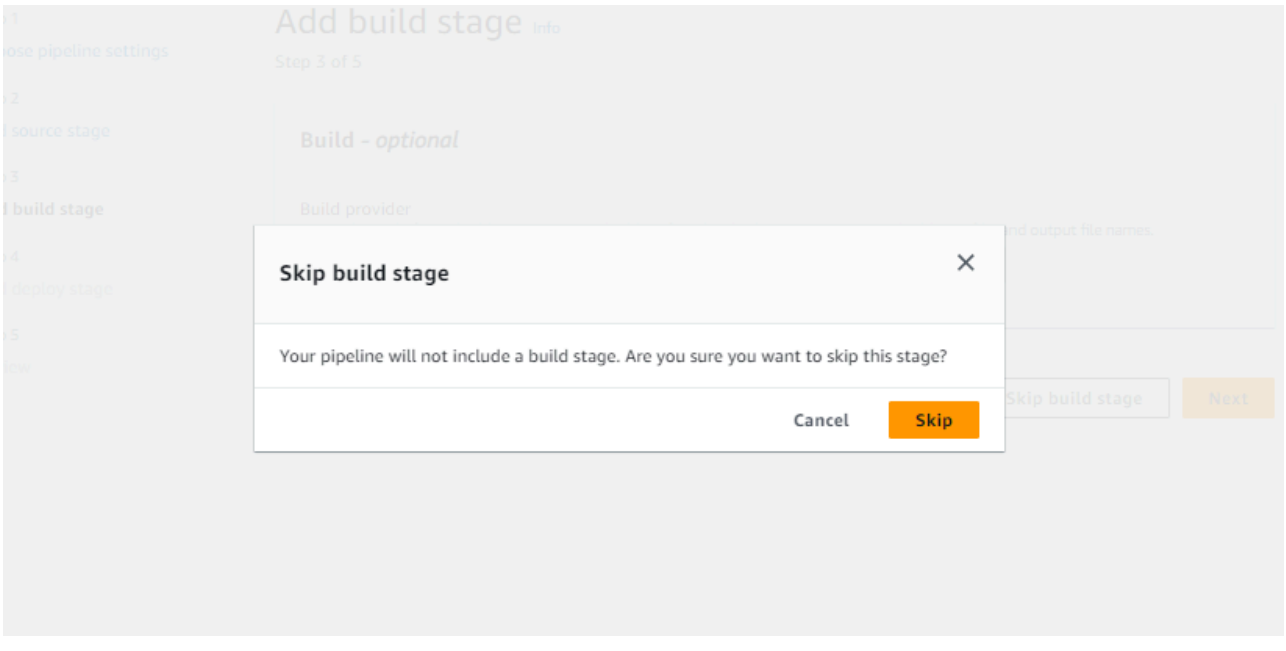
Execution mode

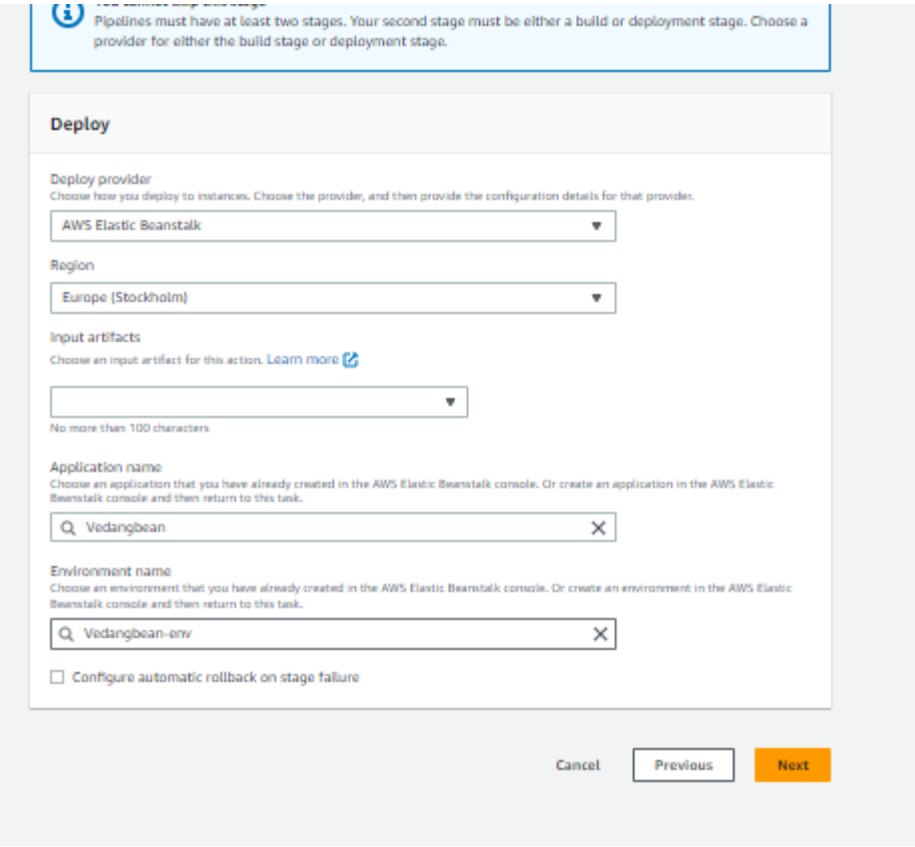
Choose the execution mode for your pipeline. This determines how the pipeline is run.

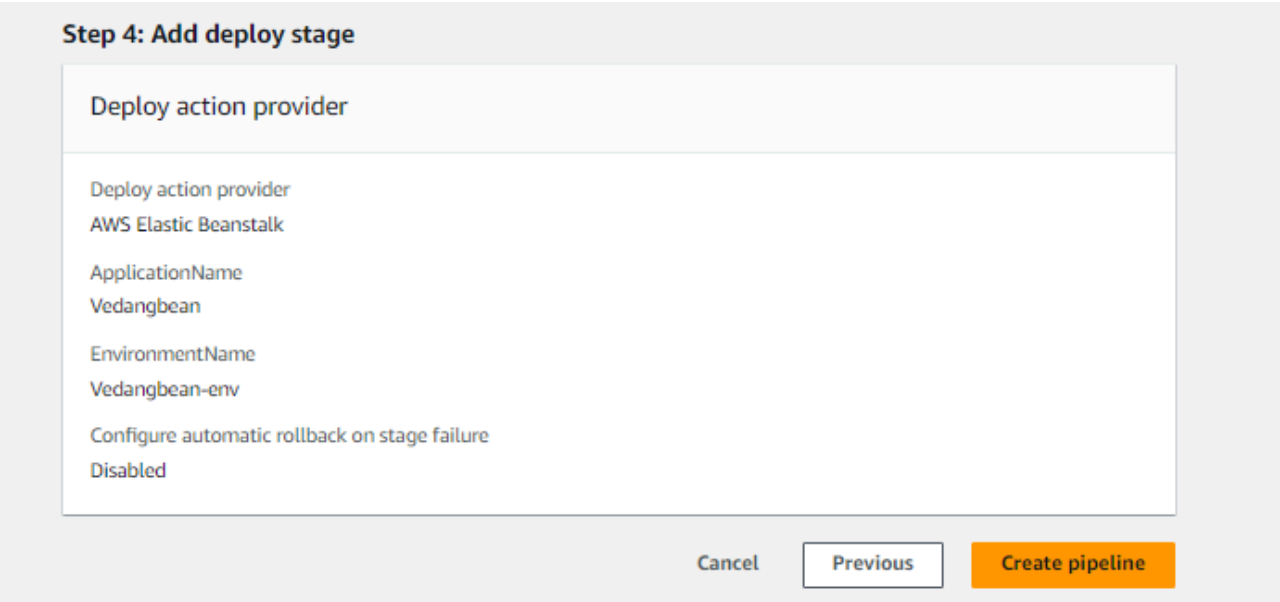
- ○ Superseded
  A more recent execution can overtake an older one. This is the default.
- ◉ Queued (Pipeline type V2 required)
  Executions are processed one by one in the order that they are queued.
- ○ Parallel (Pipeline type V2 required)
  Executions don't wait for other runs to complete before starting or finishing.

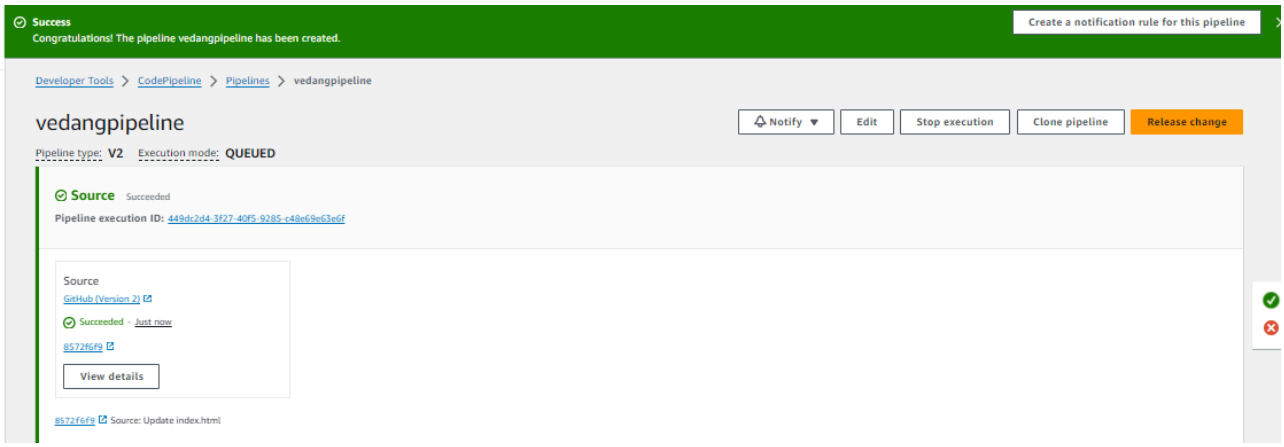


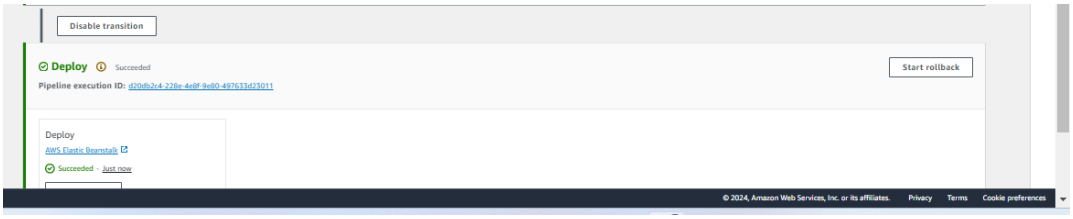

Source
Source provider
This is where you stored your input artifacts for your pipeline. Choose the provider and then provide the connection details.
GitHub (Version 2)
New GitHub version 2 (app-based) action
To add a GitHub version 2 action in CodePipeline, you create a connection, which uses GitHub 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.
arn:aws:codeconnections:eu-north-1:442426860399:connection/6beaca66-5
or
Connect to GitHub
Ready to connect
Your GitHub connection is ready for use.
Repository name
Choose a repository in your GitHub account.
VedangWajge/aws-codepipeline-s3-codedeploy-linux-2.0
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.

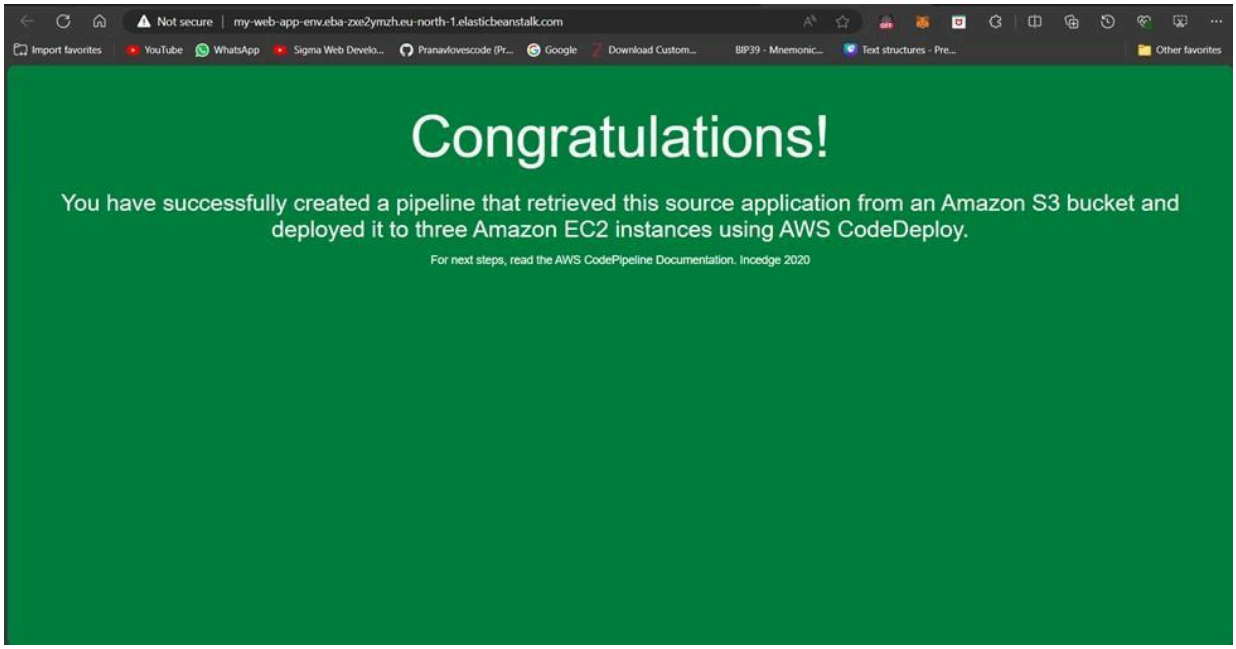

Add build stage
Step 3 of 5
Build - optional
Skip build stage
Your pipeline will not include a build stage. Are you sure you want to skip this stage?
Cancel
Skip
Next


Pipelines must have at least two stages. Your second stage must be either a build or deployment stage. Choose a provider for either the build stage or deployment stage.
Deploy
Deploy provider
Choose how you deploy to instances. Choose the provider, and then provide the configuration details for that provider.
AWS Elastic Beanstalk
Region
Europe (Stockholm)
Input artifacts
Choose an input artifact for this action. Learn more
No more than 100 characters
Application name
Choose an application that you have already created in the AWS Elastic Beanstalk console. Or create an application in the AWS Elastic Beanstalk console and then return to this task.
Vedangbean
Environment name
Choose an environment that you have already created in the AWS Elastic Beanstalk console. Or create an environment in the AWS Elastic Beanstalk console and then return to this task.
Vedangbean-env
Configure automatic rollback on stage failure
Cancel
Previous
Next

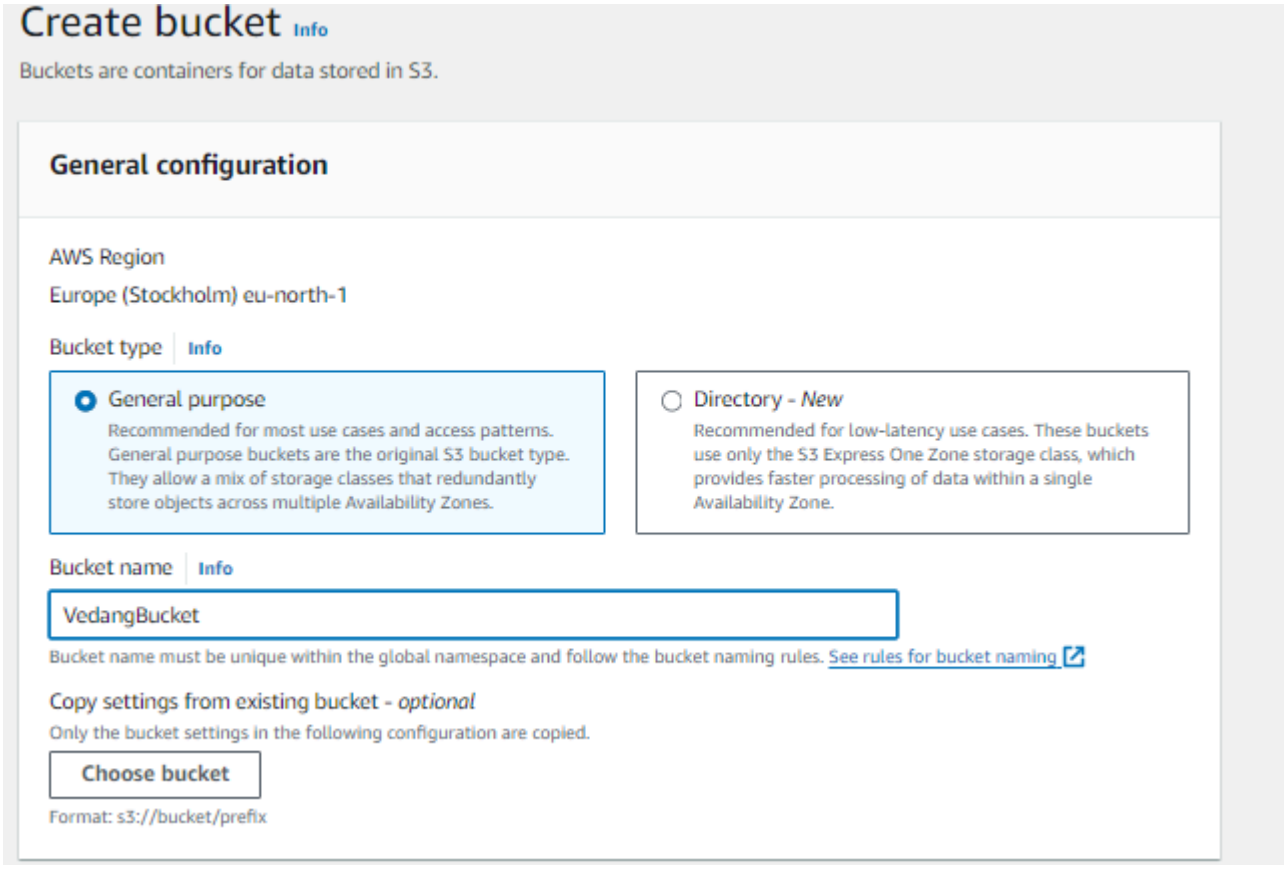

Step 4: Add deploy stage
Deploy action provider
Deploy action provider
AWS Elastic Beanstalk
ApplicationName
Vedangbean
EnvironmentName
Vedangbean-env
Configure automatic rollback on stage failure
Disabled
Cancel
Previous
Create pipeline

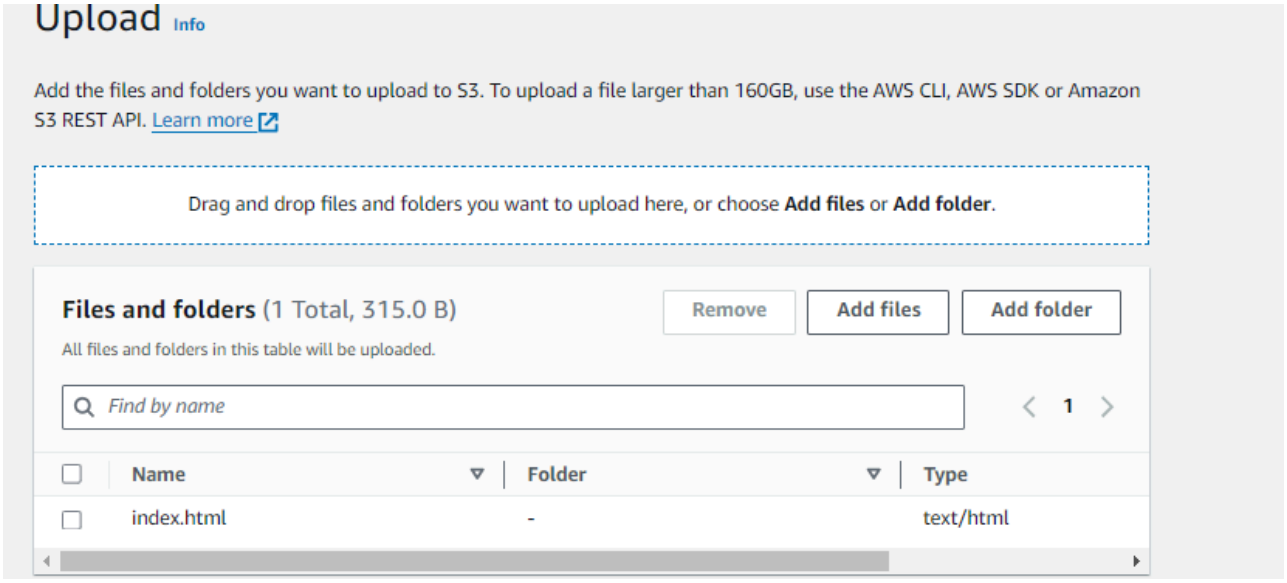

Success
Congratulations! The pipeline vedangpipeline has been created.
Create a notification rule for this pipeline
Developer Tools > CodePipeline > Pipelines > vedangpipeline
vedangpipeline
Notify
Edit
Stop execution
Clone pipeline
Release change
Pipeline type: V2
Execution mode: QUEUED
Source
Succeeded
Pipeline execution ID: 449dc2d4-3f27-40f5-9285-c48e69e63e6f
Source
GitHub (Version 2)
Succeeded - Just now
8572f6f9
View details
8572f6f9 Source: Update index.html


Disable transition
Deploy
Succeeded
Start rollback
Pipeline execution ID: d20db2c4-228e-4e8f-9e80-497633d23011
Deploy
AWS Elastic Beanstalk
Succeeded - Just now
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences


Not secure | my-web-app-env.eba-zxe2ymzh.eu-north-1.elasticbeanstalk.com
Import favorites
YouTube
WhatsApp
Sigma Web Develo...
Pranavlovescode (Pr...
Google
Download Custom...
BIP39 - Mnemonic...
Text structures - Pre...
Other favorites
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.
For next steps, read the AWS CodePipeline Documentation. Incedge 2020

## Using S3 Bucket:



# 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**

## Object Ownership

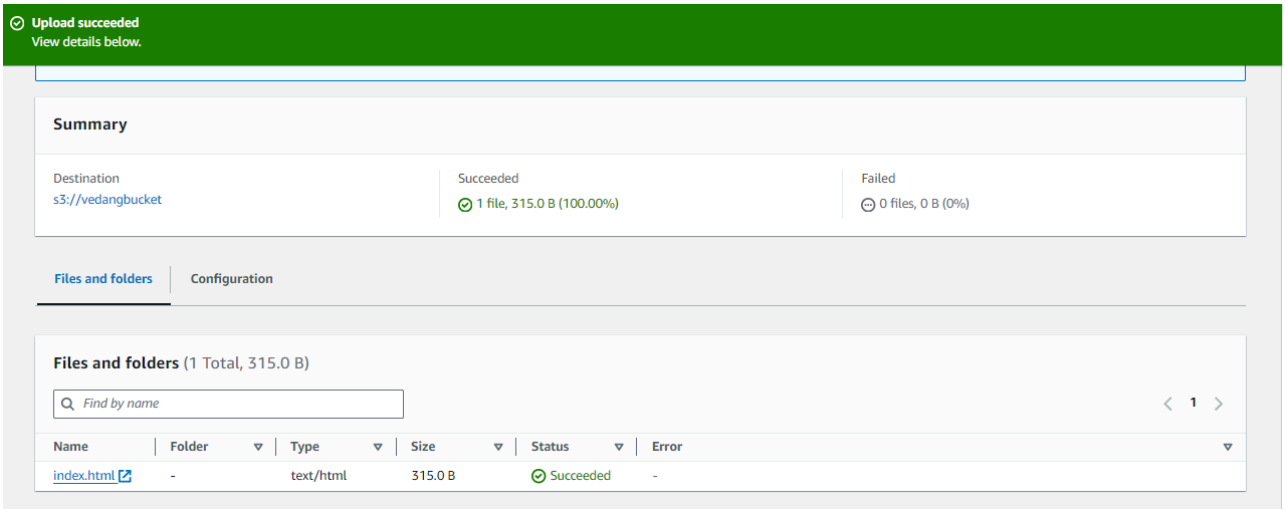
Control ownership of objects written to this bucket from other AWS accounts and the use of access control lists (ACLs). Object ownership determines who can specify access to objects.

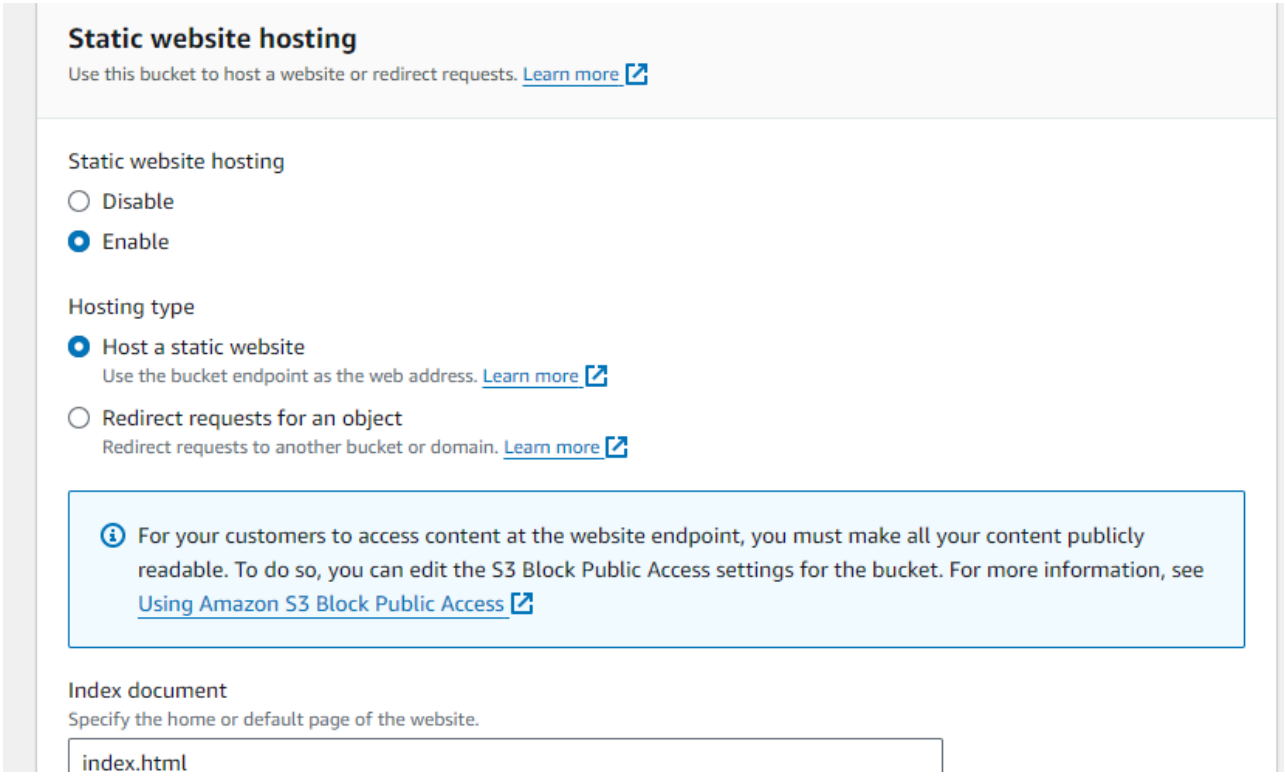
- ○ ACLs disabled (recommended)
  All objects in this bucket are owned by this account. Access to this bucket and its objects is specified using only policies.
- ◉ ACLs enabled
  Objects in this bucket can be owned by other AWS accounts. Access to this bucket and its objects can be specified using ACLs.

⚠ 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.

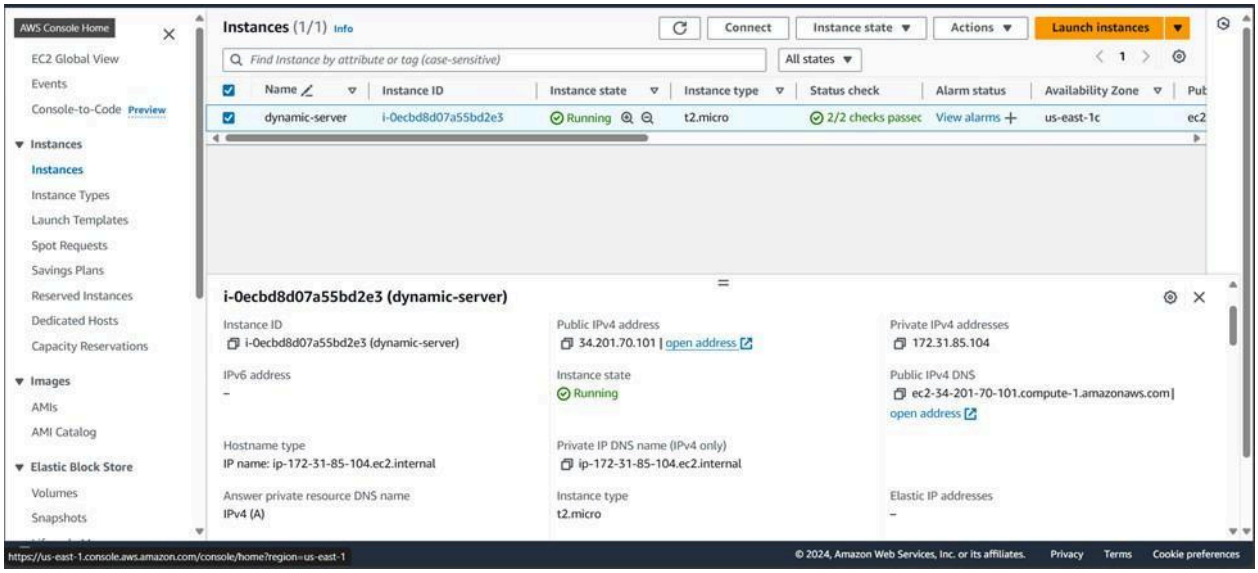
⚠ **Enabling ACLs turns off the bucket owner enforced setting for Object Ownership**
Once the bucket owner enforced setting is turned off, access control lists (ACLs) and their associated permissions are restored. Access to objects that you do not own will be based on ACLs and not the bucket policy.

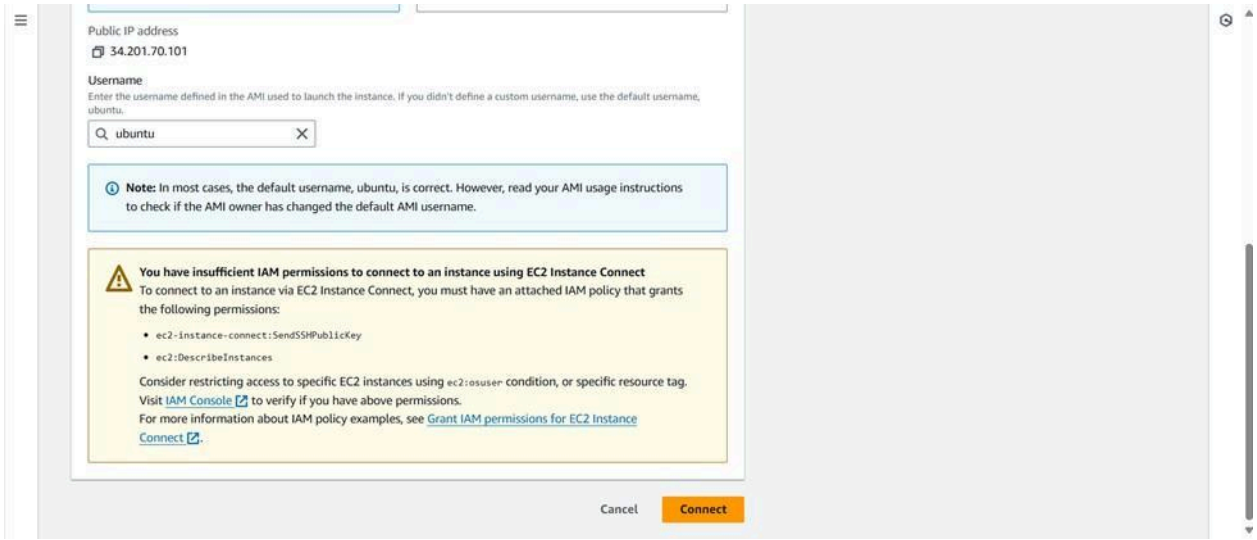
☑ I acknowledge that ACLs will be restored.


Upload succeeded
View details below.
Summary
Destination
s3://vedangbucket
Succeeded
1 file, 315.0 B (100.00%)
Failed
0 files, 0 B (0%)
Files and folders
Configuration
Files and folders (1 Total, 315.0 B)
Find by name
1
Name
Folder
Type
Size
Status
Error
index.html
-
text/html
315.0 B
Succeeded
-


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
Index document
Specify the home or default page of the website.
index.html

## Using EC2:

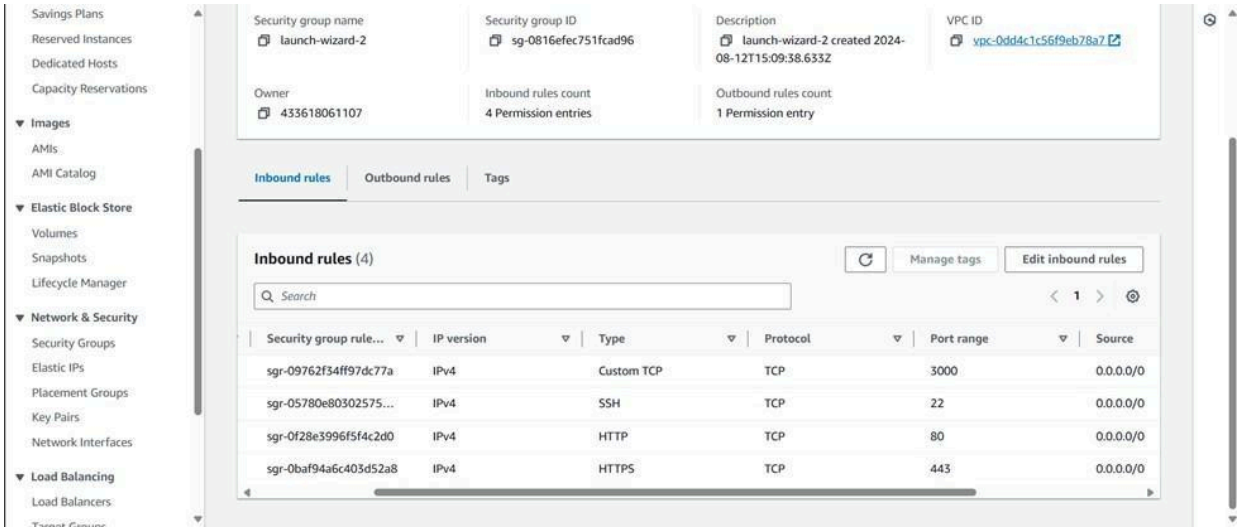


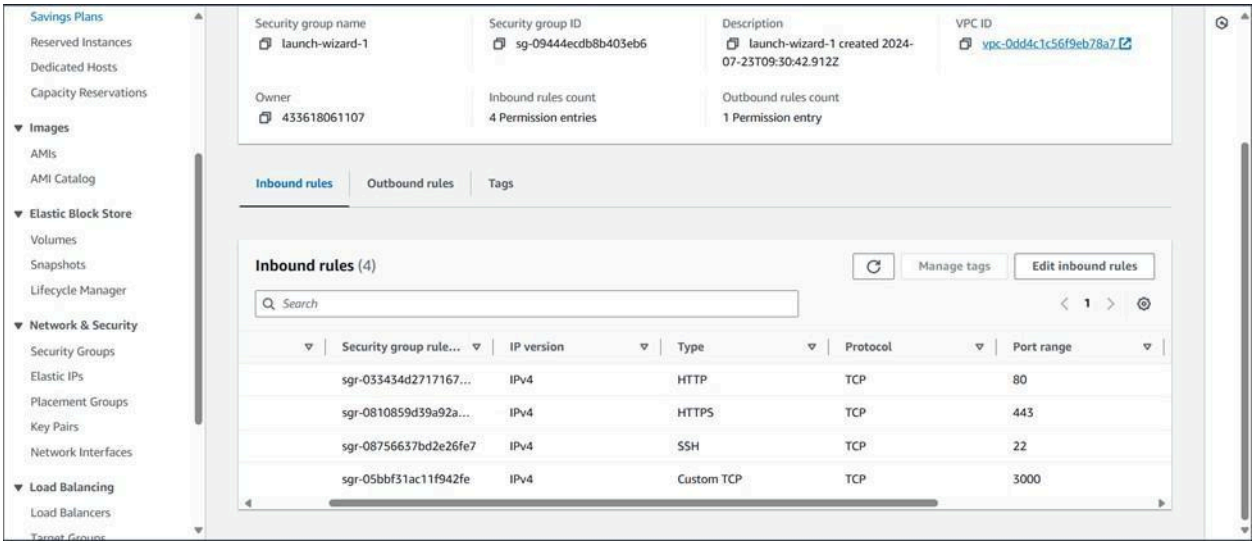




```
ubuntu@ip-172-31-85-104:~$ pwd
/home/ubuntu
ubuntu@ip-172-31-85-104:~$ mkdir pranav
ubuntu@ip-172-31-85-104:~$ cd pranav
ubuntu@ip-172-31-85-104:~/pranav$ git clone https://github.com/Pranavlovescode/Dynamic-website-hosting-sample.git
Cloning into 'Dynamic-website-hosting-sample'...
remote: Enumerating objects: 6, done.
remote: Counting objects: 100% (6/6), done.
remote: Compressing objects: 100% (5/5), done.
remote: Total 6 (delta 0), reused 6 (delta 0), pack-reused 0
Receiving objects: 100% (6/6), 11.16 KiB | 5.58 MiB/s, done.
```

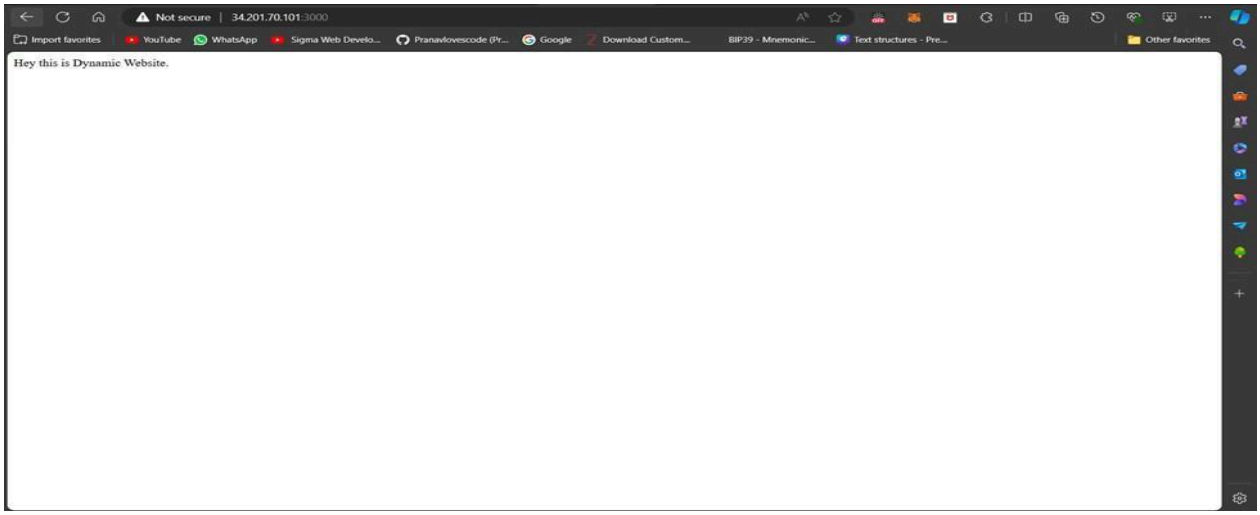
```
ubuntu@ip-172-31-85-104:~/pranav$ ls
Dynamic-website-hosting-sample
ubuntu@ip-172-31-85-104:~/pranav$ cd Dynamic-website-hosting-sample/
ubuntu@ip-172-31-85-104:~/pranav/Dynamic-website-hosting-sample$ ls
index.js  package-lock.json  package.json
ubuntu@ip-172-31-85-104:~/pranav/Dynamic-website-hosting-sample$ npm i

added 93 packages, and audited 94 packages in 3s

16 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
npm notice
npm notice New patch version of npm available! 10.8.1 -> 10.8.2
npm notice Changelog: https://github.com/npm/cli/releases/tag/v10.8.2
npm notice To update run: npm install -g npm@10.8.2
npm notice
```

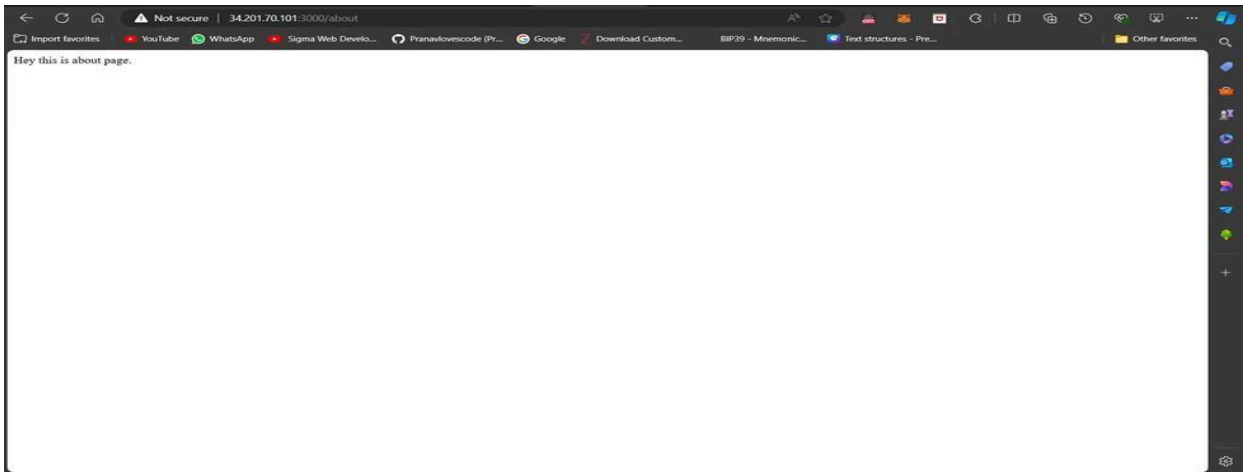
```
ubuntu@ip-172-31-85-104:~/pranav/Dynamic-website-hosting-sample$ npm start

> hosting-dynamic-website@1.0.0 start
> nodemon index.js

[nodemon] 3.1.4
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,cjs,json
[nodemon] starting `node index.js`
Server is running on port 3000
```




Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Network & Security
Security Groups
Elastic IPs
Placement Groups
Key Pairs
Network Interfaces
Load Balancing
Load Balancers
Security group name
launch-wizard-1
Security group ID
sg-09444ecdb8b403eb6
Description
launch-wizard-1 created 2024-07-23T09:30:42.912Z
VPC ID
vpc-0dd4c1c56f9eb78a7
Owner
433618061107
Inbound rules count
4 Permission entries
Outbound rules count
1 Permission entry
Inbound rules
Outbound rules
Tags
Inbound rules (4)
Manage tags
Edit inbound rules
Search
Security group rule...
IP version
Type
Protocol
Port range
sgr-033434d2717167...
IPv4
HTTP
TCP
80
sgr-0810859d39a92a...
IPv4
HTTPS
TCP
443
sgr-08756637bd2e26fe7
IPv4
SSH
TCP
22
sgr-05bbf31ac11f942fe
IPv4
Custom TCP
TCP
3000

## Hosting:


Not secure | 34.201.70.101:3000
Hey this is Dynamic Website.


Not secure | 34.201.70.101:3000/about
Hey this is about page.