Mayuri Shridatta Yerande
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Roll no : 70

PAGE NO :
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EXPERIMENT NO - 2

AIM: To Build Your Application using AWS CodeBuild and Deploy on S3 / SEBS using AWS Code pipeline, deploy sample Application on EC2 Instance using AWS CodeDeploy.

THEORY: Continous deployment allows you to deploy revisions to a production environment automatically without explicit approval from a developer, making the entire software release process automated.
You will create the pipeline using AWS Code Pipeline, a service that Builds, tests and deploys your code every time there is a code change.
You will use your Github account, an Amazon Simple Storage service (S3) bucket or an AWS Code Commit repository as the source location for sample app's code.
You will also use AWS Elastic Beanstalk as the deployment target for sample app.
Your completed pipeline will be able to detect changes made to source repository containing the sample app and then automatically update your live sample app.

Your continous deployment pipeline will need a target environment containing virtual servers, or Amazon Ec2 instances; where it will deploy sample code. You will prepare this environment before creating the pipeline.

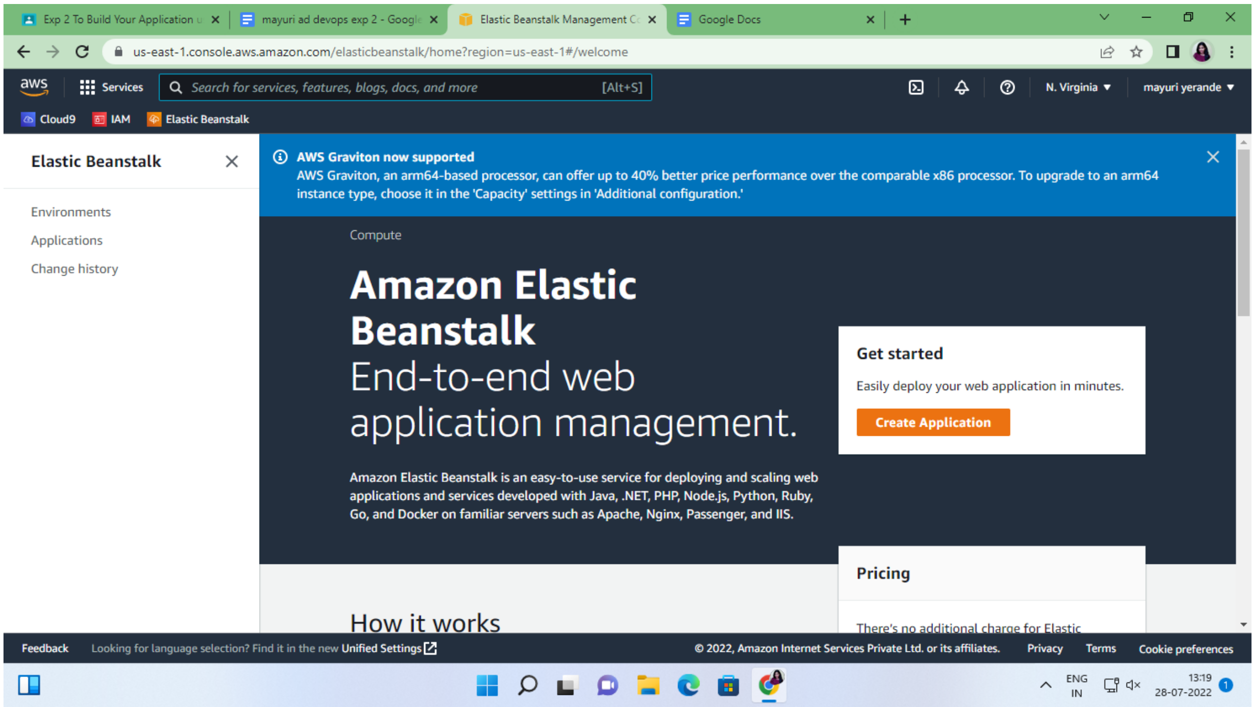
To simplify the process of setting up and configuring EC2 instances for this tutorial, you will spin up a sample environment using AWS Elastic Beanstalk. Elastic Beanstalk lets you easily host web applications without needing to launch, configure or operate virtual servers on your own. It automatically provisions and operates the infrastructure and provides the application stack for you.

Name your web app and choose PHP from the drop-down menu (or any other language) and then click Create Application.

IMPLEMENTATION:

Step1: Create a deployment environment

Your continuous deployment pipeline will need a target environment containing virtual servers, or Amazon EC2 instances, where it will deploy sample code. You will prepare this environment before creating the pipeline. 1) To simplify the process of setting up and configuring EC2 instances for this tutorial, you will spin up a sample environment using AWS Elastic Beanstalk. Elastic Beanstalk lets you easily host web applications without needing to launch, configure, or operate virtual servers on your own. It automatically provisions and operates the infrastructure (e.g. virtual servers, load balancers, etc.) and provides the application stack (e.g. OS, language and framework, web and application server, etc.) for you.



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

AWS Graviton now supported

AWS Graviton, an arm64-based processor, can offer up to 40% better price performance over the comparable x86 processor. To upgrade to an arm64 instance type, choose it in the 'Capacity' settings in 'Additional configuration.'

Compute

Amazon Elastic Beanstalk

End-to-end web application management.

Amazon Elastic Beanstalk is an easy-to-use service for deploying and scaling web applications and services developed with Java, .NET, PHP, Node.js, Python, Ruby, Go, and Docker on familiar servers such as Apache, Nginx, Passenger, and IIS.

Get started

Easily deploy your web application in minutes.

Pricing

There's no additional charge for Elastic

How it works

Looking for language selection? Find it in the new Unified Settings

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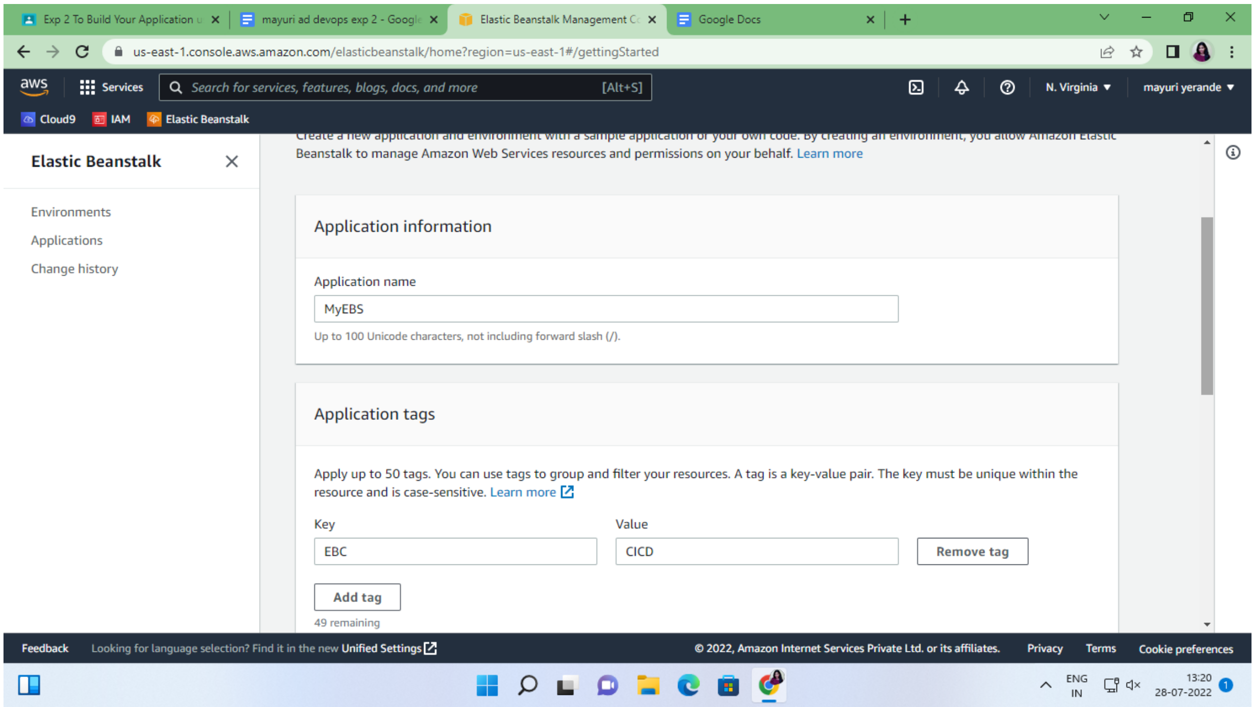
a) Name your web app and choose PHP from the drop-down menu(or any other language you are interested in) and then click Create Application.



Create a new application and environment with a sample application or your own code. By creating an environment, you allow Amazon Elastic Beanstalk to manage Amazon Web Services resources and permissions on your behalf. Learn more

Application information

Application name

MyEBS

Up to 100 Unicode characters, not including forward slash (/).

Application tags

Apply up to 50 tags. You can use tags to group and filter your resources. A tag is a key-value pair. The key must be unique within the resource and is case-sensitive. Learn more

Key	Value
EBC	CICD

49 remaining

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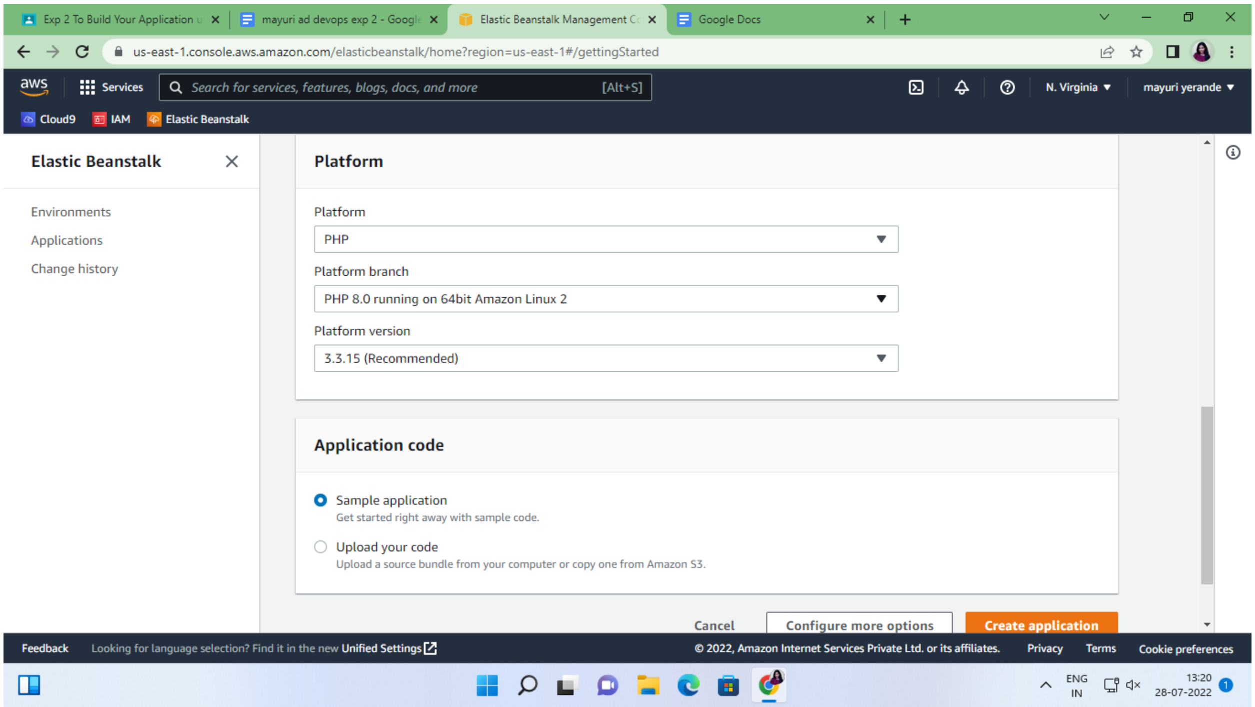

Platform

Platform: PHP

Platform branch: PHP 8.0 running on 64bit Amazon Linux 2

Platform version: 3.3.15 (Recommended)

Application code

● Sample application
Get started right away with sample code.

○ Upload your code
Upload a source bundle from your computer or copy one from Amazon S3.

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Elastic Beanstalk Management C
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us-east-1.console.aws.amazon.com/elasticbeanstalk/home?region=us-east-1#/gettingStarted
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b) Elastic Beanstalk will begin creating a sample environment for you to deploy your application to. It will create an Amazon EC2 instance, a security group, an Auto Scaling group, an Amazon S3 bucket, Amazon CloudWatch alarms, and a domain name for your application.

Note: This will take several minutes to complete.

Step2: Get a copy of the sample code

In this step, you will retrieve a copy of the sample app's code and choose a source to host the code. The pipeline takes code from the source and then performs actions on it. You can use one of **three options** as your source: a **GitHub repository, an Amazon S3 bucket, or an AWS CodeCommit repository.** Select your preference and follow the steps below:

a) If you plan to use Amazon S3 as your source, you will retrieve the sample code from the AWS GitHub repository, save it to your computer, and upload it to an Amazon S3 bucket.

- Visit our GitHub repository containing the sample code at https://github.com/imoisharma/aws-codepipeline-s3-codedeploy-linux-2.0
- Click the dist folder.

b. Save the source files to your computer:

- Click the file named aws-codepipeline-s3-aws-codedeploy_linux.zip
- Click View Raw.
- Save the sample file to your local computer.

a. open the Amazon S3 console and create your Amazon S3 bucket:

- Click Create Bucket

- Bucket Name: type a unique name for your bucket, such as awscodepipeline-demobucket- variables. All bucket names in Amazon S3 must be unique, so use one of your own, not one with the name shown in the example.

- Region: In the drop-down, select the region where you will create your pipeline, such as ap- South-1
- Click Create.

D .The console displays the newly created bucket, which is empty.

- Click Properties.

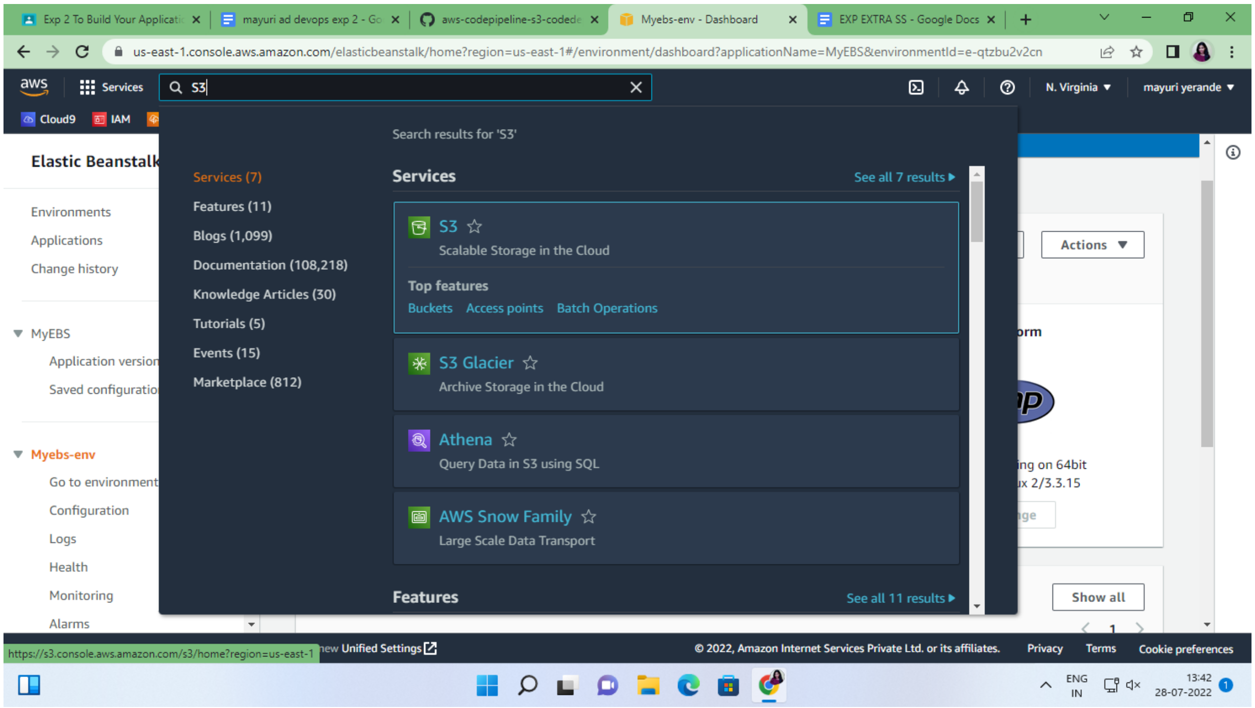
- Expand Versioning and select Enable Versioning. When versioning is enabled, Amazon S3 saves every version of every object in the bucket.

e. You will now upload the sample code to the Amazon S3 bucket:

- Click Upload.

- Follow the on-screen directions to upload the .zip file containing the sample code you downloaded from GitHub.

Step 3: Creation of Bucket

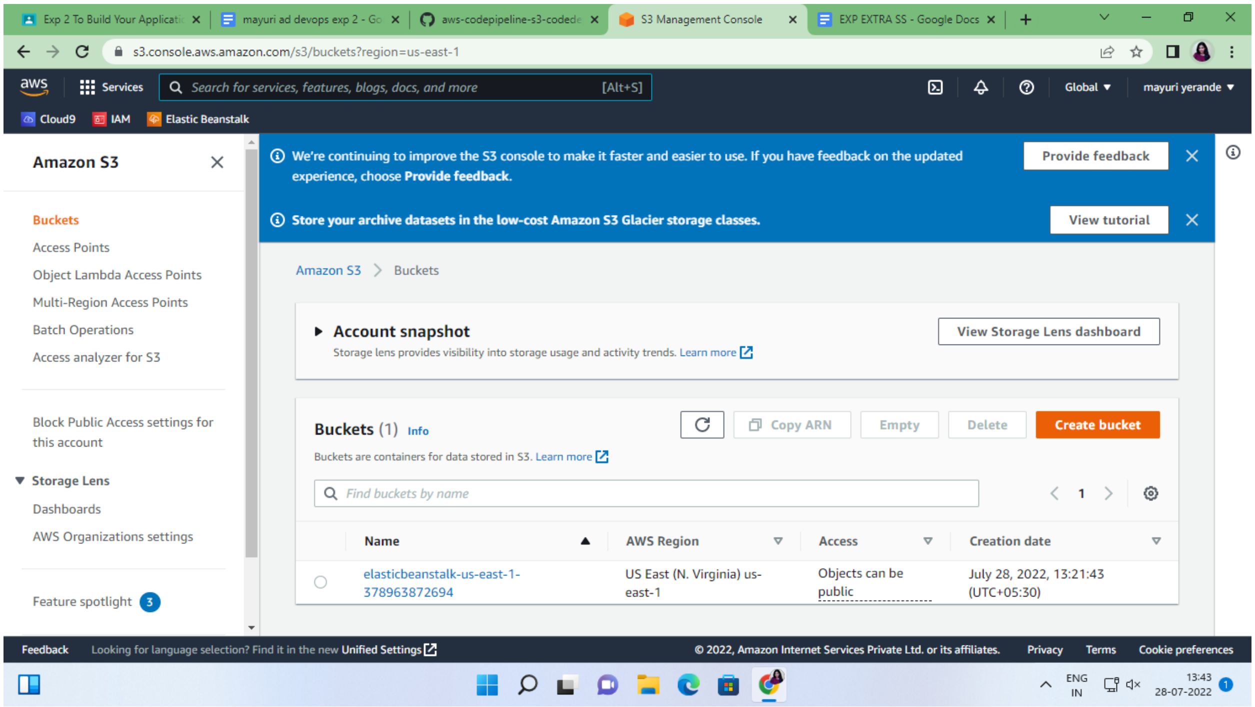


us-east-1.console.aws.amazon.com/elasticbeanstalk/home?region=us-east-1#/environment/dashboard?applicationName=MyEBS&environmentId=e-qtzbu2v2cn

Search: S3

Search results for 'S3'

Click on Create Bucket button



s3.console.aws.amazon.com/s3/buckets?region=us-east-1

Amazon S3

Buckets
Access Points
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
Access analyzer for S3

Block Public Access settings for this account

Storage Lens
Dashboards
AWS Organizations settings

Feature spotlight 3

We're continuing to improve the S3 console to make it faster and easier to use. If you have feedback on the updated experience, choose **Provide feedback**.

Store your archive datasets in the low-cost Amazon S3 Glacier storage classes.

Amazon S3 > Buckets

Account snapshot

Storage lens provides visibility into storage usage and activity trends. Learn more

Buckets (1) Info

Buckets are containers for data stored in S3. Learn more

	Name	AWS Region	Access	Creation date
○	elasticbeanstalk-us-east-1-378963872694	US East (N. Virginia) us-east-1	Objects can be public	July 28, 2022, 13:21:43 (UTC+05:30)

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View Storage Lens dashboard
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Empty
Delete
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Find buckets by name
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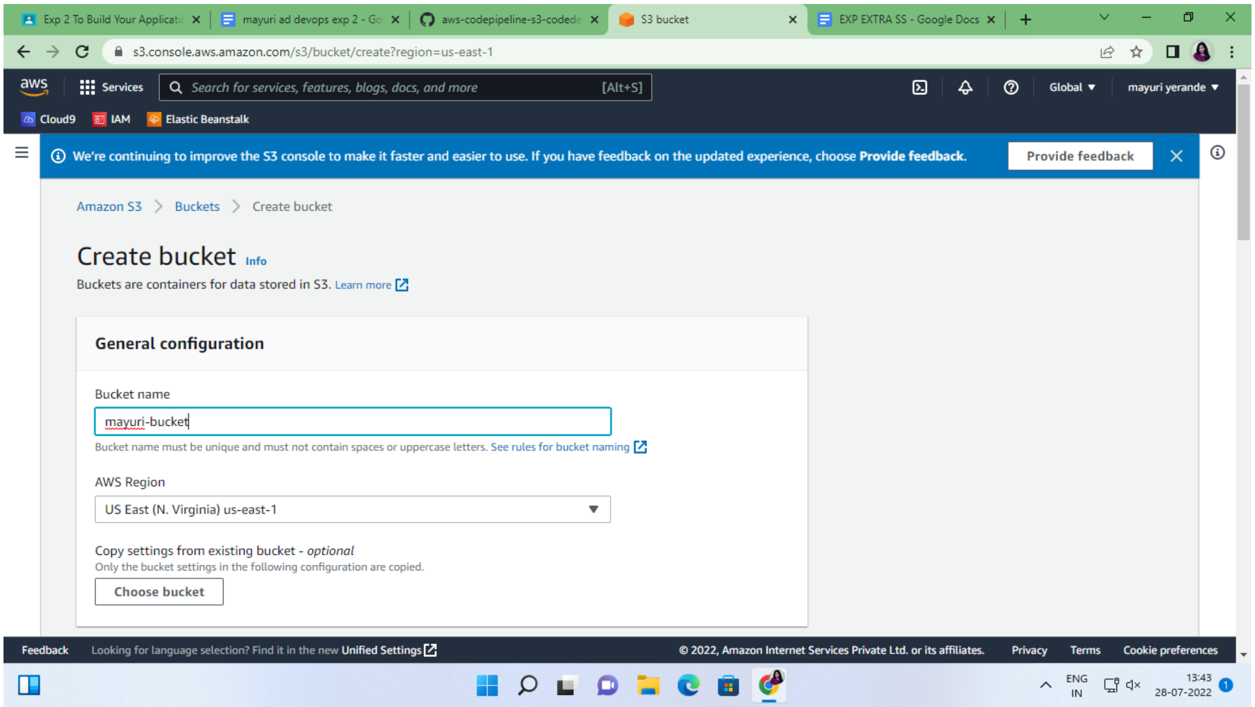

s3.console.aws.amazon.com/s3/bucket/create?region=us-east-1

We're continuing to improve the S3 console to make it faster and easier to use. If you have feedback on the updated experience, choose **Provide feedback**.

Amazon S3 > Buckets > Create bucket

Create bucket Info

Buckets are containers for data stored in S3. Learn more

General configuration

Bucket name

mayuri-bucket

Bucket name must be unique and must not contain spaces or uppercase letters. See rules for bucket naming

AWS Region

US East (N. Virginia) us-east-1

Copy settings from existing bucket - *optional*

Only the bucket settings in the following configuration are copied.

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Choose bucket
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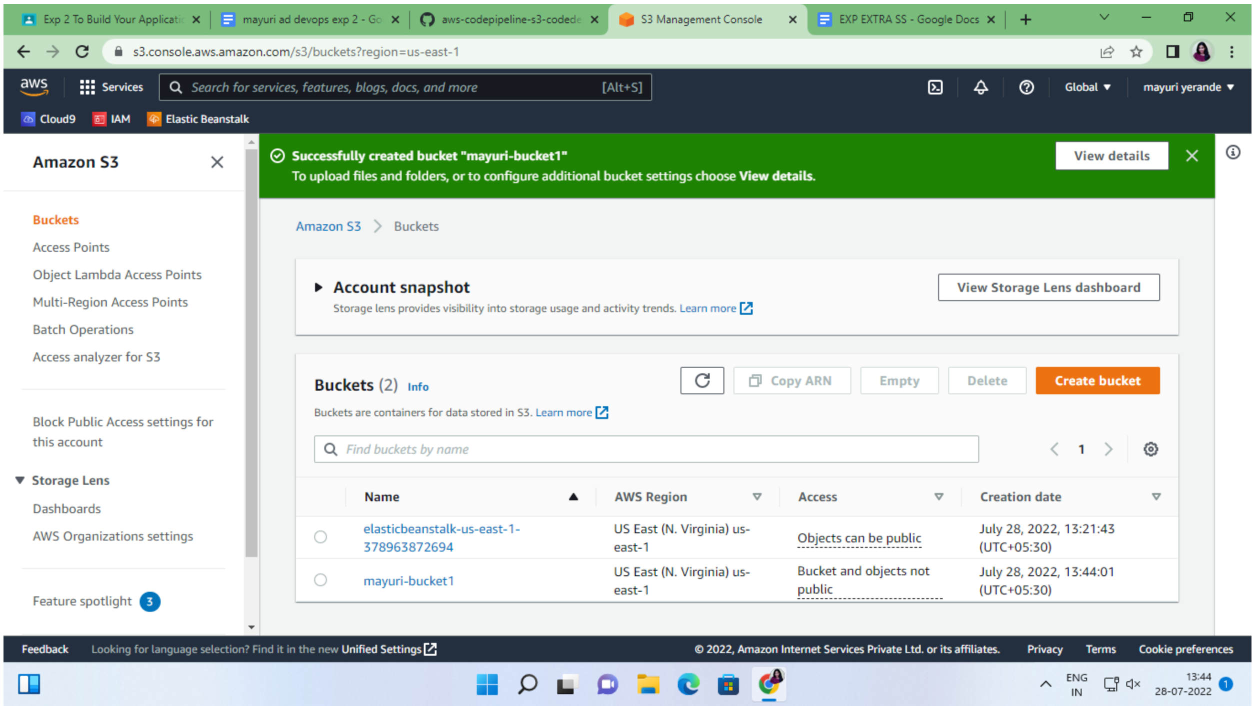

Successfully created bucket "mayuri-bucket1"
To upload files and folders, or to configure additional bucket settings choose View details.

Account snapshot
Storage lens provides visibility into storage usage and activity trends. Learn more

Buckets (2) Info
Buckets are containers for data stored in S3. Learn more

Name	AWS Region	Access	Creation date
elasticbeanstalk-us-east-1-378963872694	US East (N. Virginia) us-east-1	Objects can be public	July 28, 2022, 13:21:43 (UTC+05:30)
mayuri-bucket1	US East (N. Virginia) us-east-1	Bucket and objects not public	July 28, 2022, 13:44:01 (UTC+05:30)

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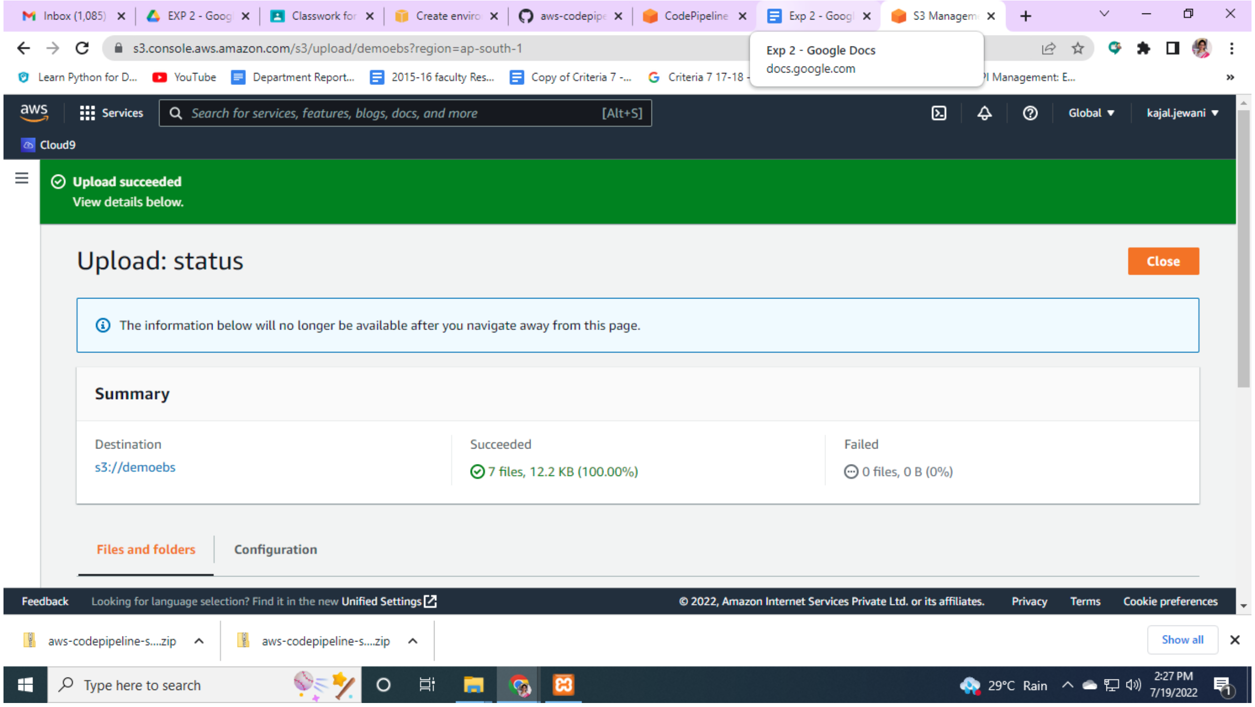
The bucket is created



Upload succeeded
View details below.

Upload: status

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

Summary

Destination	Succeeded	Failed
s3://demoebs	7 files, 12.2 KB (100.00%)	0 files, 0 B (0%)

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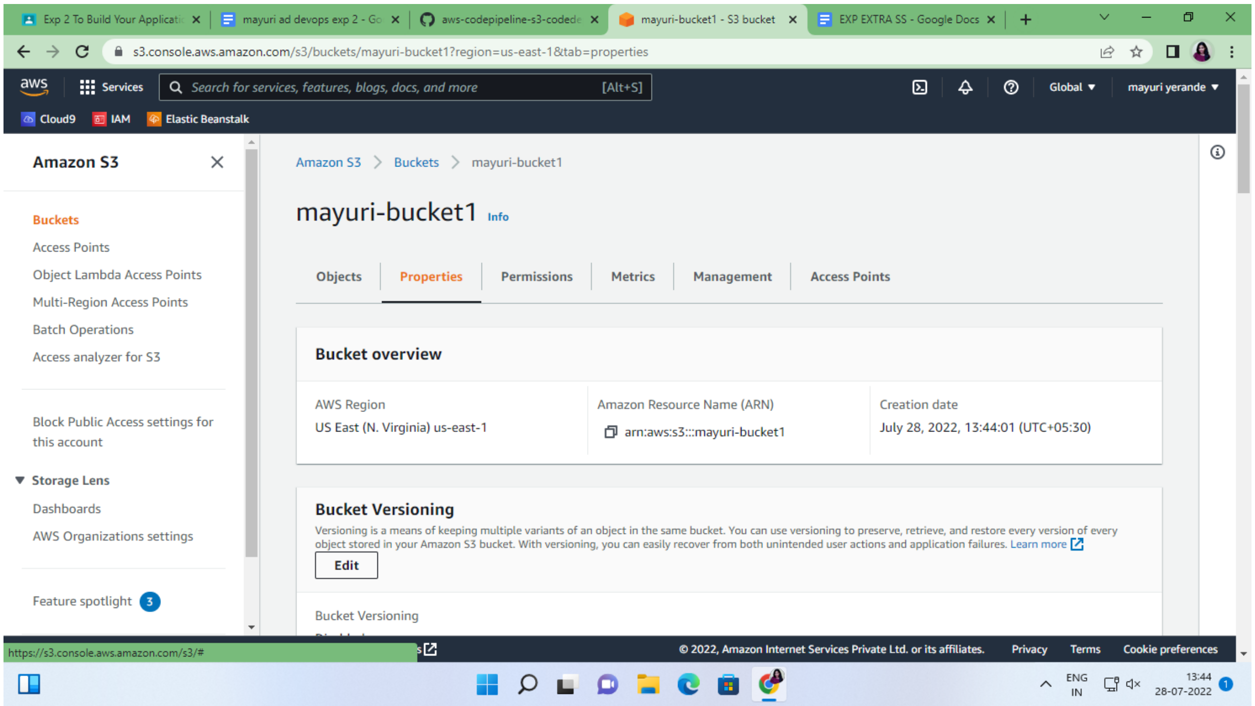
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aws-codepipeline-s3-codede
mayuri-bucket1 - S3 bucket
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s3.console.aws.amazon.com/s3/buckets/mayuri-bucket1?region=us-east-1&tab=properties
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Access analyzer for S3
Block Public Access settings for this account
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Feature spotlight 3
Amazon S3 > Buckets > mayuri-bucket1
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mayuri-bucket1 Info

Bucket overview

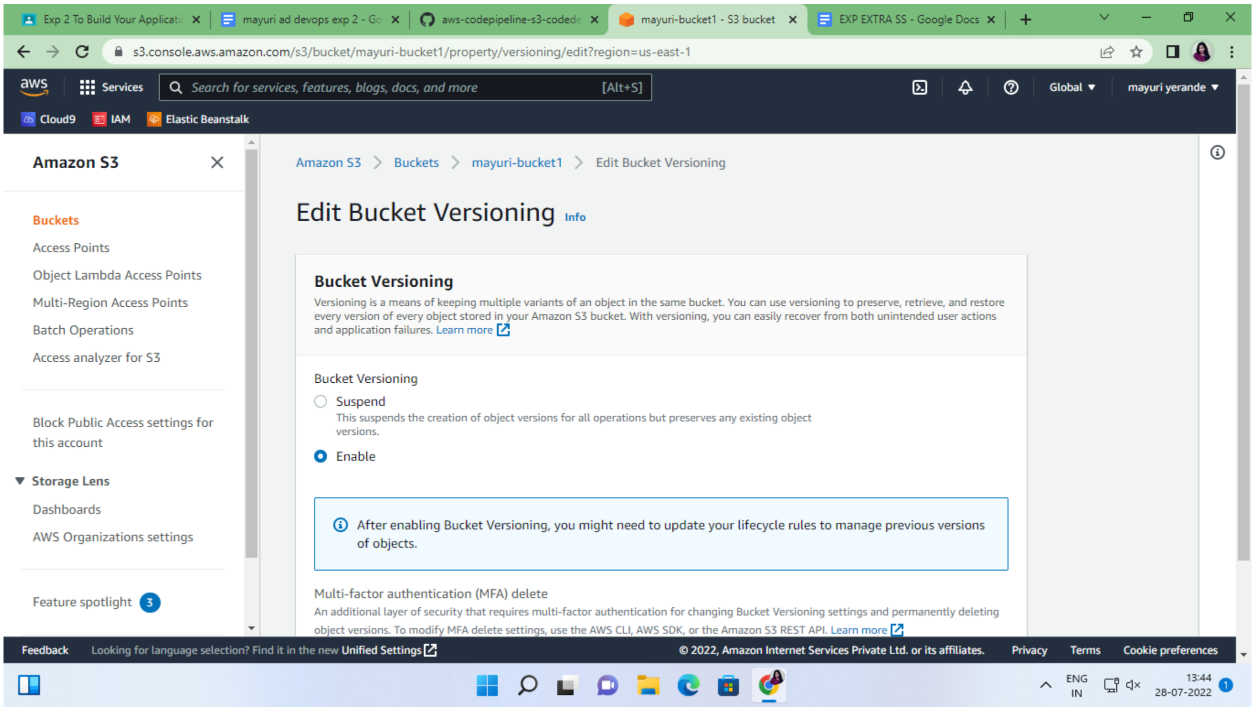
AWS Region	Amazon Resource Name (ARN)	Creation date
US East (N. Virginia) us-east-1	arn:aws:s3:::mayuri-bucket1	July 28, 2022, 13:44:01 (UTC+05:30)

Bucket Versioning

Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. Learn more

Bucket Versioning

"Enable" Bucket versioning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aws-codepipeline-s3-codede
mayuri-bucket1 - S3 bucket
EXP EXTRA SS - Google Docs
s3.console.aws.amazon.com/s3/bucket/mayuri-bucket1/property/versioning/edit?region=us-east-1
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Access analyzer for S3
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Amazon S3 > Buckets > mayuri-bucket1 > Edit Bucket Versioning
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Edit Bucket Versioning Info

Bucket Versioning

Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. Learn more

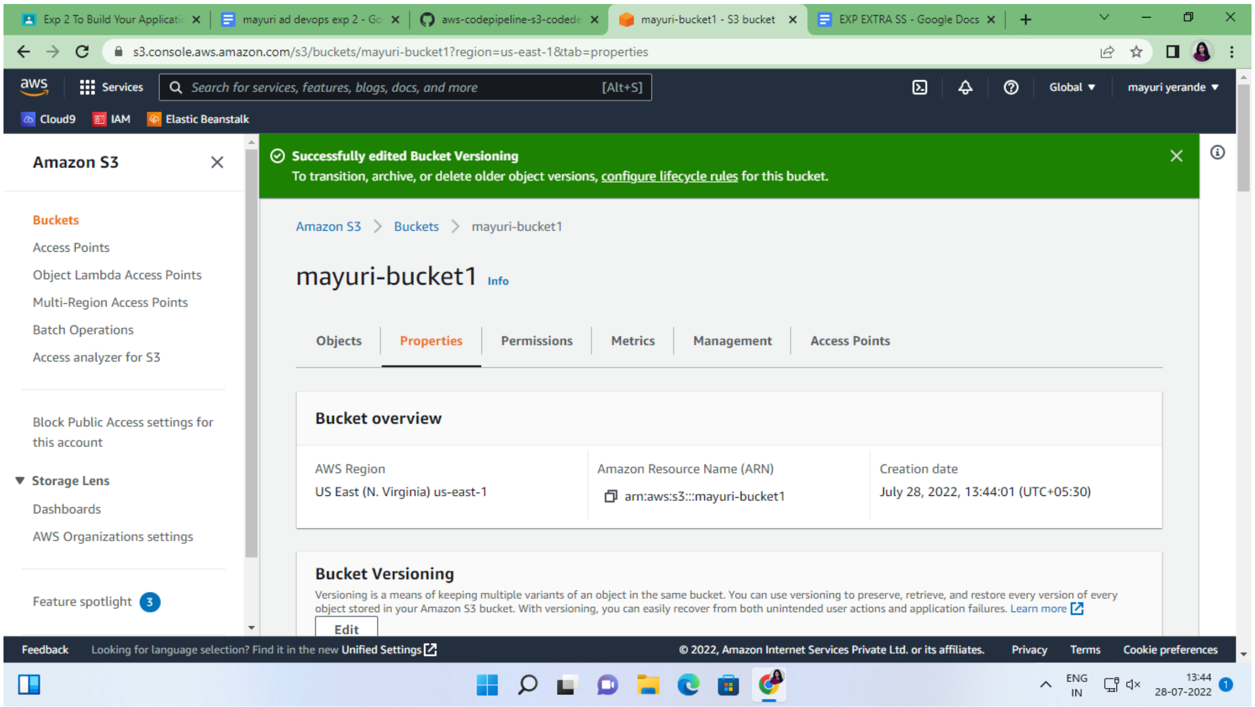
Bucket Versioning

○ Suspend
This suspends the creation of object versions for all operations but preserves any existing object versions.

● Enable

After enabling Bucket Versioning, you might need to update your lifecycle rules to manage previous versions of objects.

Multi-factor authentication (MFA) delete
An additional layer of security that requires multi-factor authentication for changing Bucket Versioning settings and permanently deleting object versions. To modify MFA delete settings, use the AWS CLI, AWS SDK, or the Amazon S3 REST API. Learn more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mayuri-bucket1 - S3 bucket
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s3.console.aws.amazon.com/s3/buckets/mayuri-bucket1?region=us-east-1&tab=properties

Successfully edited Bucket Versioning
To transition, archive, or delete older object versions, configure lifecycle rules for this bucket.

Amazon S3 > Buckets > mayuri-bucket1

mayuri-bucket1 Info

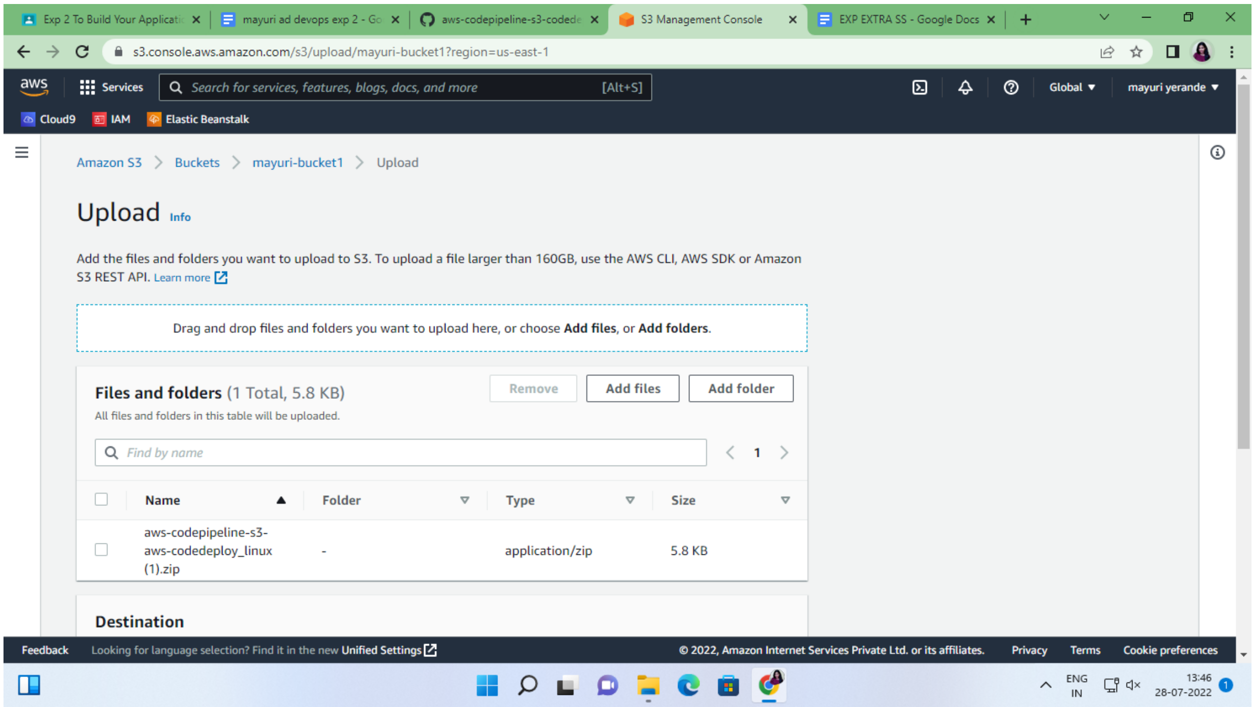
Bucket overview

AWS Region	Amazon Resource Name (ARN)	Creation date
US East (N. Virginia) us-east-1	arn:aws:s3:::mayuri-bucket1	July 28, 2022, 13:44:01 (UTC+05:30)

Bucket Versioning

Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. Learn more

Step 4: Upload files into bucket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s3.console.aws.amazon.com/s3/upload/mayuri-bucket1?region=us-east-1

Amazon S3 > Buckets > mayuri-bucket1 > Upload

Upload Info

Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDK or Amazon S3 REST API. Learn more

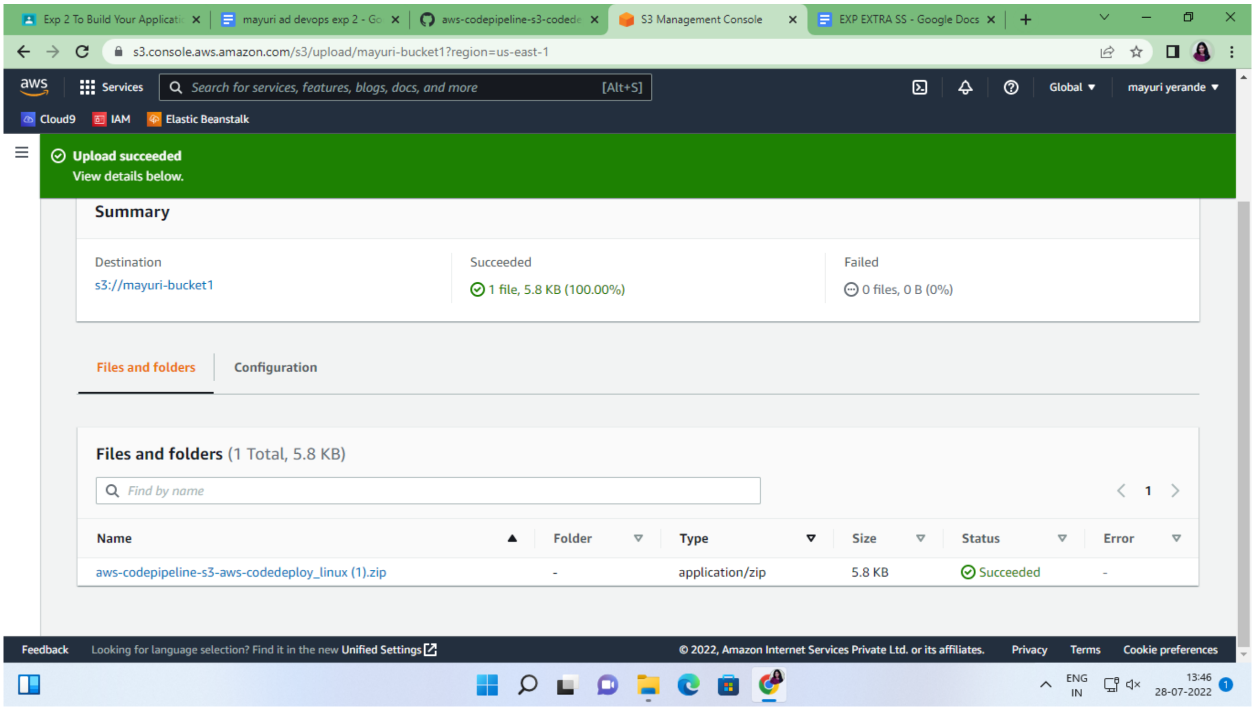
Drag and drop files and folders you want to upload here, or choose **Add files**, or **Add folders**.

Files and folders (1 Total, 5.8 KB)

All files and folders in this table will be uploaded.

□	Name	Folder	Type	Size
□	aws-codepipeline-s3-aws-codedeploy_linux (1).zip	-	application/zip	5.8 KB

Destination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s3.console.aws.amazon.com/s3/upload/mayuri-bucket1?region=us-east-1
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Upload succeeded
View details below.

Summary

Destination
s3://mayuri-bucket1

Succeeded
1 file, 5.8 KB (100.00%)

Failed
0 files, 0 B (0%)

Files and folders | Configuration

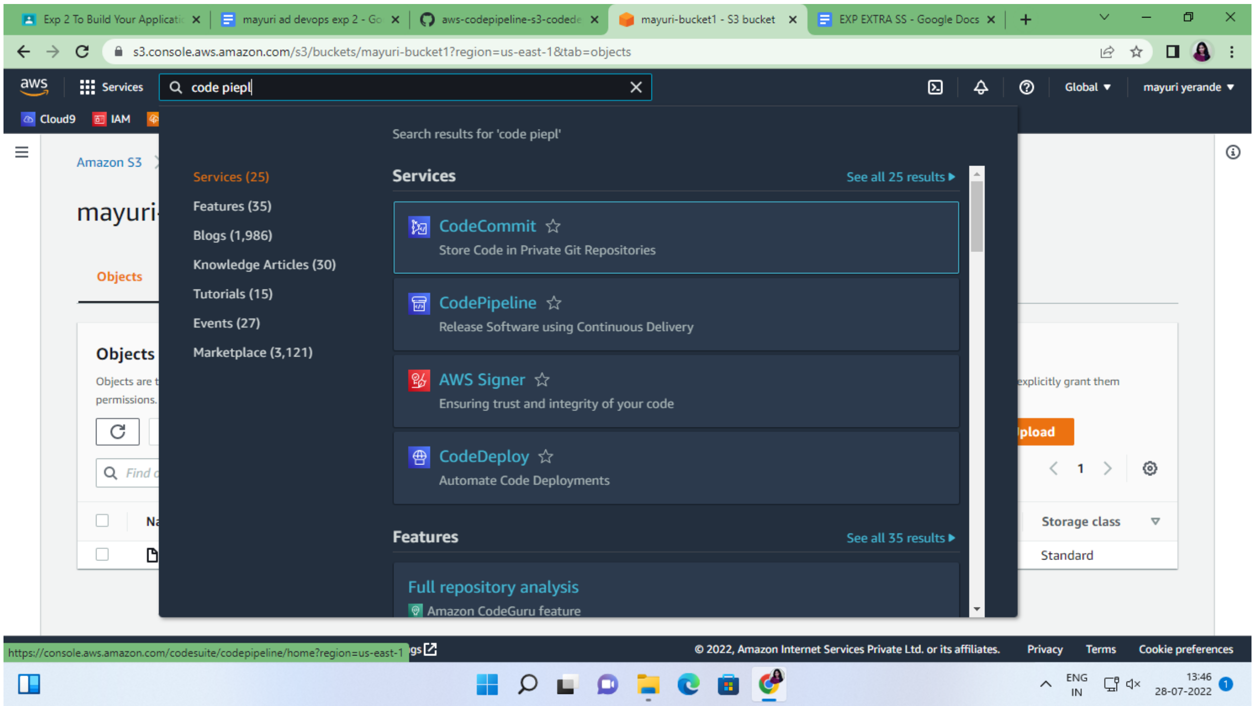
Files and folders (1 Total, 5.8 KB)

Find by name

Name	Folder	Type	Size	Status	Error
aws-codepipeline-s3-aws-codedeploy_linux (1).zip	-	application/zip	5.8 KB	Succeeded	-

Step 5: Create your Pipeline

In this step, you will create and configure a simple pipeline with two actions: source and deploy. You will provide CodePipeline with the locations of your source repository and deployment environment. A true continuous deployment pipeline requires a build stage, where code is compiled and unit tested. CodePipeline lets you plug your preferred build provider into your pipeline. However, in this we will skip the build stage. Goto Pipeline again and create it



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s3.console.aws.amazon.com/s3/buckets/mayuri-bucket1?region=us-east-1&tab=objects

Services | code piepl | Global | mayuri yerande

Cloud9 | IAM

Amazon S3

mayuri

Objects

Search results for 'code piepl'

- Services (25)
- Features (35)
- Blogs (1,986)
- Knowledge Articles (30)
- Tutorials (15)
- Events (27)
- Marketplace (3,121)

Services — See all 25 results

- **CodeCommit** — Store Code in Private Git Repositories
- **CodePipeline** — Release Software using Continuous Delivery
- **AWS Signer** — Ensuring trust and integrity of your code
- **CodeDeploy** — Automate Code Deployments

Features — See all 35 results

- **Full repository analysis** — Amazon CodeGuru feature

Objects are t... permissions. ...explicitly grant them

Find o... | Upload | 1

Na... | Storage class | Standard

https://console.aws.amazon.com/codesuite/codepipeline/home?region=us-east-1

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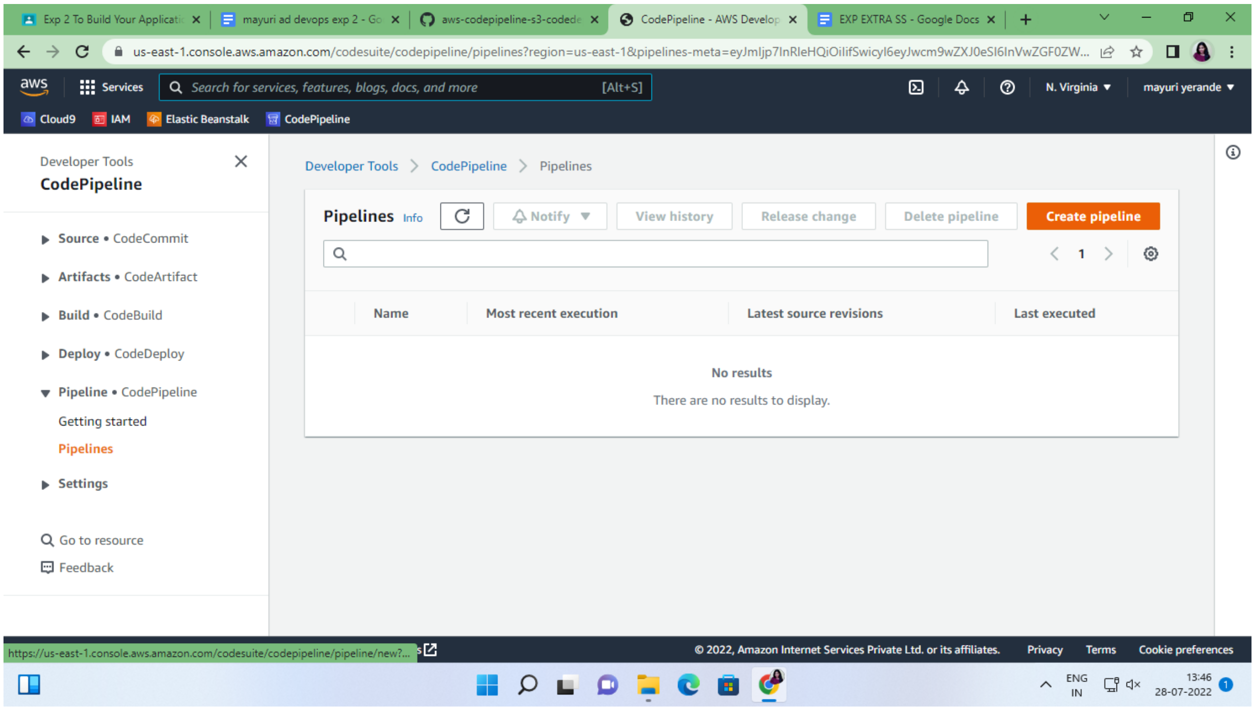

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us-east-1.console.aws.amazon.com/codesuite/codepipeline/pipelines?region=us-east-1&pipelines-meta=eyJmljp7InRleHQiOiIifSwicyI6eyJwcm9wZXJ0eSI6InVwZGF0ZW...

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Developer Tools

CodePipeline

- Source • CodeCommit
- Artifacts • CodeArtifact
- Build • CodeBuild
- Deploy • CodeDeploy
- Pipeline • CodePipeline
  - Getting started
  - Pipelines
- Settings

Go to resource

Feedback

Developer Tools > CodePipeline > Pipelines

Pipelines Info | Notify | View history | Release change | Delete pipeline | Create pipeline

Name	Most recent execution	Latest source revisions	Last executed

No results

There are no results to display.

https://us-east-1.console.aws.amazon.com/codesuite/codepipeline/pipeline/new?...

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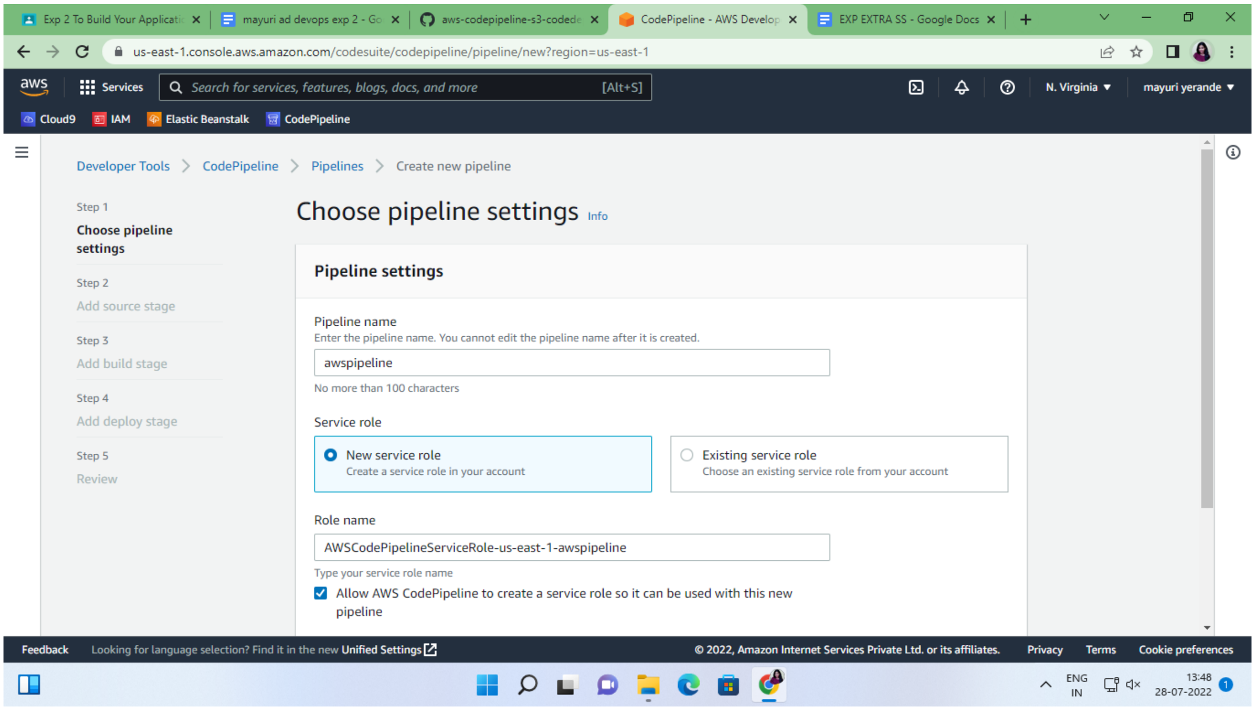
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CodePipeline - AWS Develop
EXP EXTRA SS - Google Docs
us-east-1.console.aws.amazon.com/codesuite/codepipeline/pipeline/new?region=us-east-1
aws
Services
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N. Virginia
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Cloud9
IAM
Elastic Beanstalk
CodePipeline
Developer Tools > CodePipeline > Pipelines > Create new pipeline
Step 1
Choose pipeline settings
Step 2
Add source stage
Step 3
Add build stage
Step 4
Add deploy stage
Step 5
Review
Feedback
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Choose pipeline settings Info

Pipeline settings

Pipeline name
Enter the pipeline name. You cannot edit the pipeline name after it is created.
awspipeline
No more than 100 characters

Service role

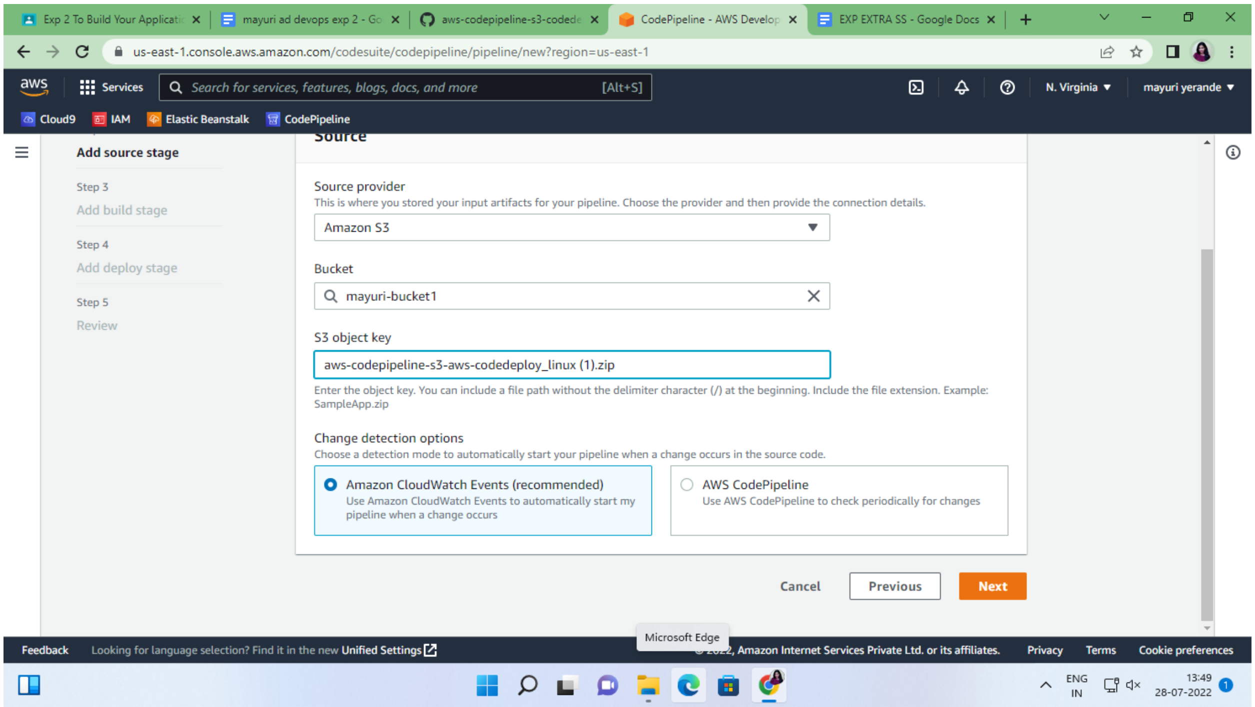
● New service role
Create a service role in your account

○ Existing service role
Choose an existing service role from your account

Role name
AWSCodePipelineServiceRole-us-east-1-awspipeline
Type your service role name

☑ Allow AWS CodePipeline to create a service role so it can be used with this new pipeline

Copy the name of your folder and enter it in “s3 object key” section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CodePipeline - AWS Develop
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Cloud9
IAM
Elastic Beanstalk
CodePipeline
Add source stage
Step 3
Add build stage
Step 4
Add deploy stage
Step 5
Review
Cancel
Previous
Next
Microsoft Edge
Feedback
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ENG IN
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28-07-2022

Source

Source provider
This is where you stored your input artifacts for your pipeline. Choose the provider and then provide the connection details.
Amazon S3

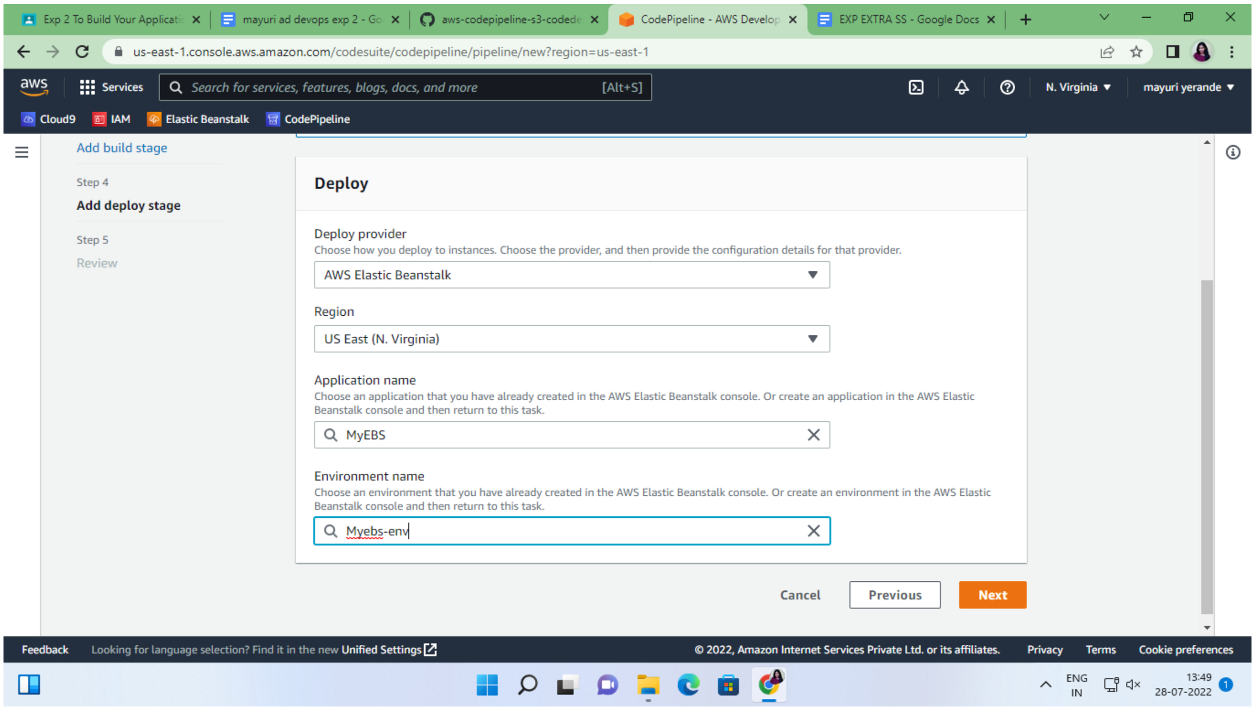
Bucket
mayuri-bucket1

S3 object key
aws-codepipeline-s3-aws-codedeploy_linux (1).zip
Enter the object key. You can include a file path without the delimiter character (/) at the beginning. Include the file extension. Example: SampleApp.zip

Change detection options
Choose a detection mode to automatically start your pipeline when a change occurs in the source code.

● Amazon CloudWatch Events (recommended)
Use Amazon CloudWatch Events to automatically start my pipeline when a change occurs

○ AWS CodePipeline
Use AWS CodePipeline to check periodically for changes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Cloud9
IAM
Elastic Beanstalk
CodePipeline
Add build stage
Step 4
Add deploy stage
Step 5
Review
Cancel
Previous
Next
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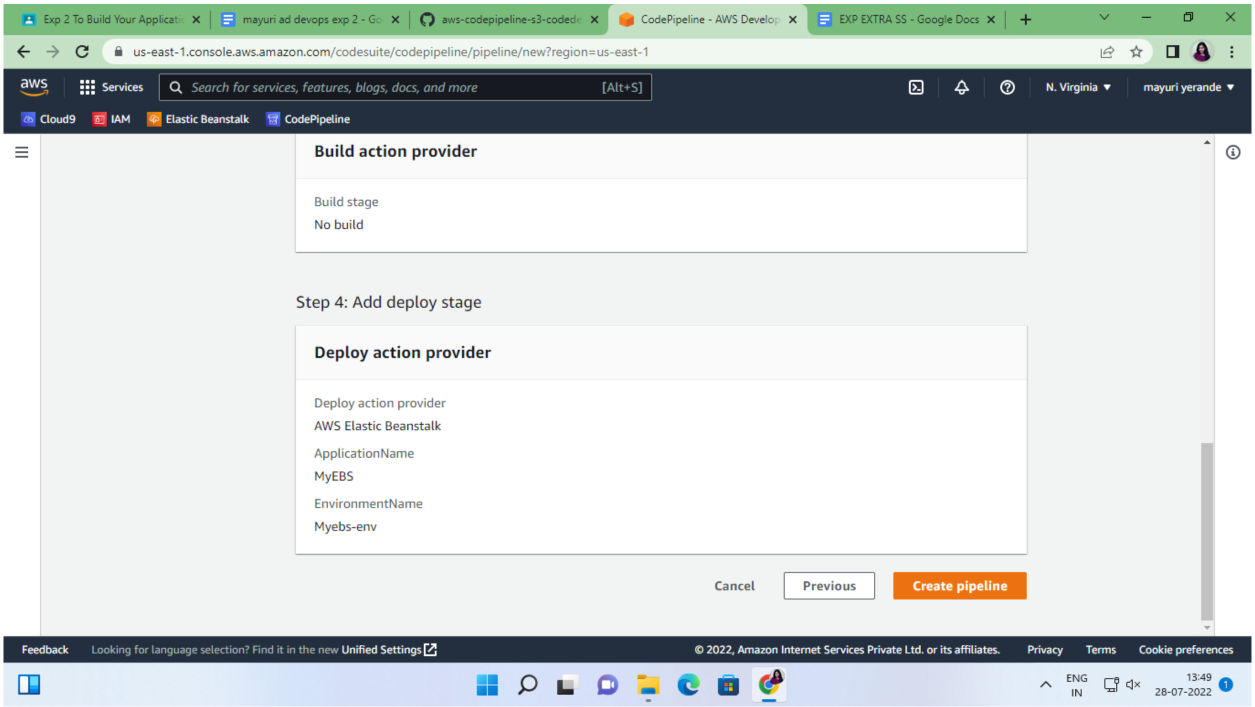
Deploy

Deploy provider
Choose how you deploy to instances. Choose the provider, and then provide the configuration details for that provider.
AWS Elastic Beanstalk

Region
US East (N. Virginia)

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.
MyEBS

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.
Myebs-env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Build action provider

Build stage
No build

Step 4: Add deploy stage

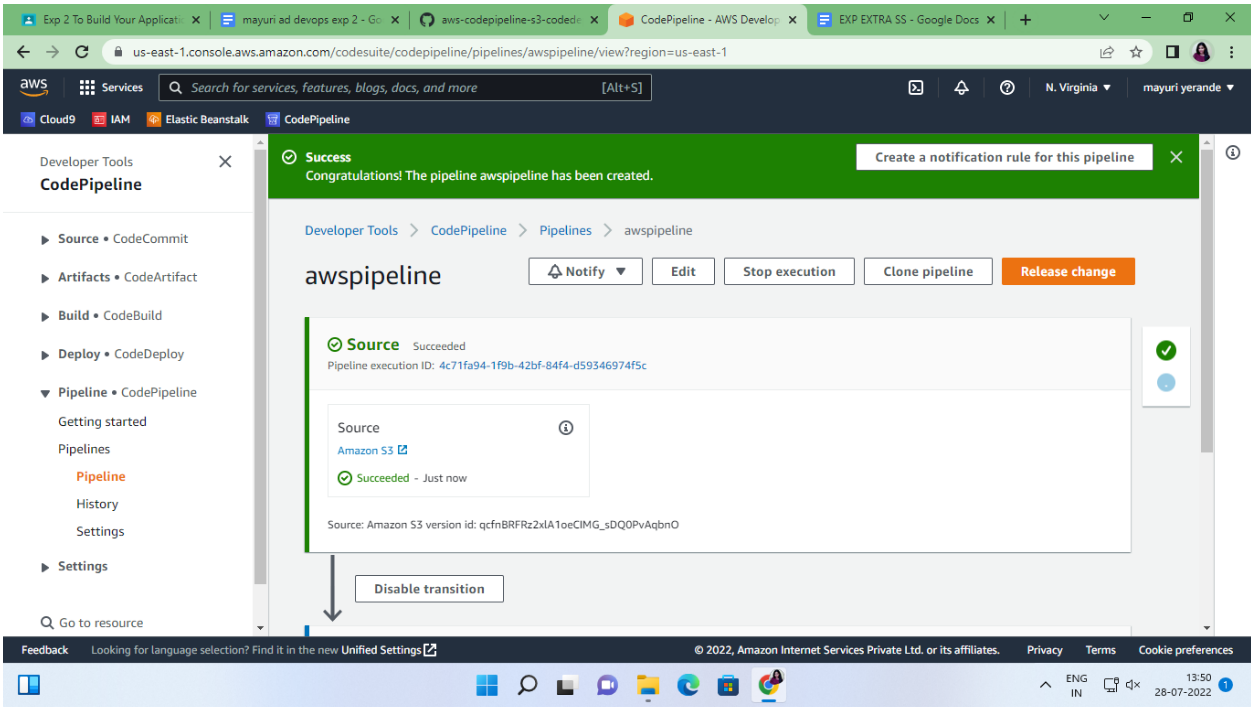
Deploy action provider

Deploy action provider
AWS Elastic Beanstalk

ApplicationName
MyEBS

EnvironmentName
Myebs-env

Pipeline is created.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CodePipeline
Developer Tools
CodePipeline
Source • CodeCommit
Artifacts • CodeArtifact
Build • CodeBuild
Deploy • CodeDeploy
Pipeline • CodePipeline
Getting started
Pipelines
Pipeline
History
Settings
Settings
Go to resource
Create a notification rule for this pipeline
Developer Tools > CodePipeline > Pipelines > awspipeline
Notify
Edit
Stop execution
Clone pipeline
Release change
Disable transition
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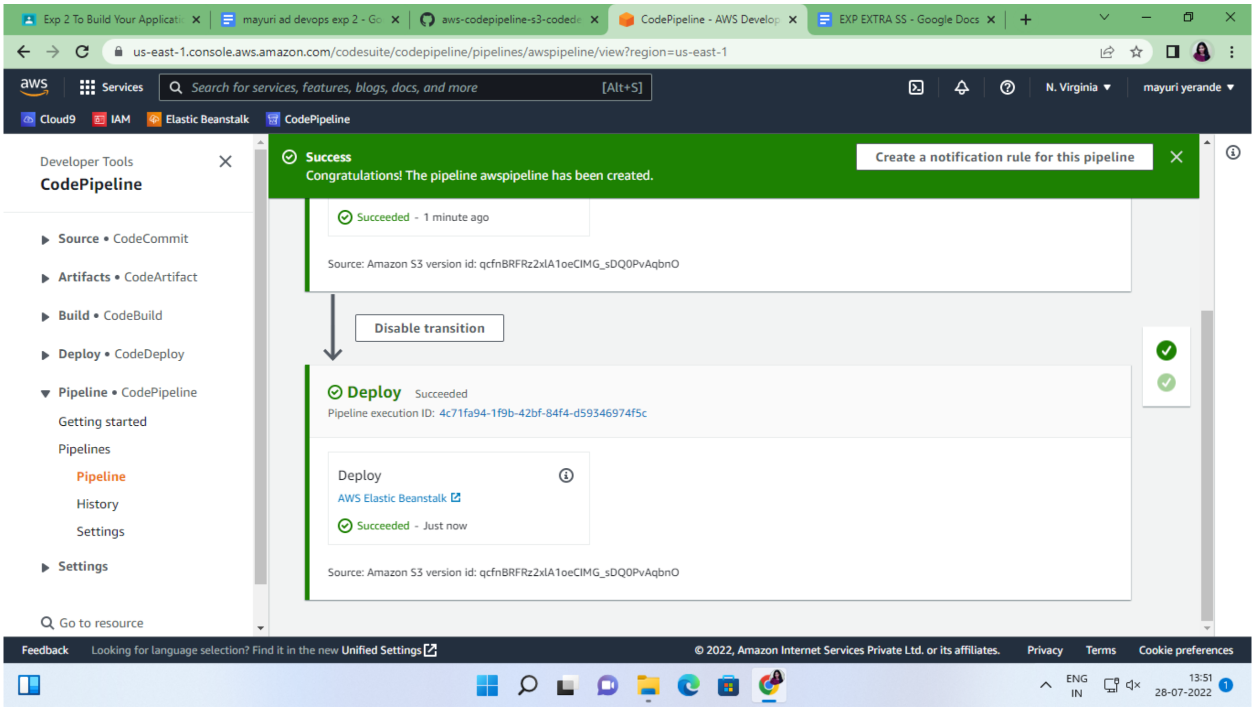
Success
Congratulations! The pipeline awspipeline has been created.

awspipeline

Source Succeeded
Pipeline execution ID: 4c71fa94-1f9b-42bf-84f4-d59346974f5c

Source
Amazon S3
Succeeded - Just now

Source: Amazon S3 version id: qcfnBRFRz2xlA1oeCIMG_sDQ0PvAqbnO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CodePipeline
Developer Tools
CodePipeline
Source • CodeCommit
Artifacts • CodeArtifact
Build • CodeBuild
Deploy • CodeDeploy
Pipeline • CodePipeline
Getting started
Pipelines
Pipeline
History
Settings
Settings
Go to resource
Create a notification rule for this pipeline
Disable transition
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28-07-2022

Success
Congratulations! The pipeline awspipeline has been created.

Succeeded - 1 minute ago

Source: Amazon S3 version id: qcfnBRFRz2xlA1oeCIMG_sDQ0PvAqbnO

Deploy Succeeded
Pipeline execution ID: 4c71fa94-1f9b-42bf-84f4-d59346974f5c

Deploy
AWS Elastic Beanstalk
Succeeded - Just now

Source: Amazon S3 version id: qcfnBRFRz2xlA1oeCIMG_sDQ0PvAqbnO

Skip the build stage

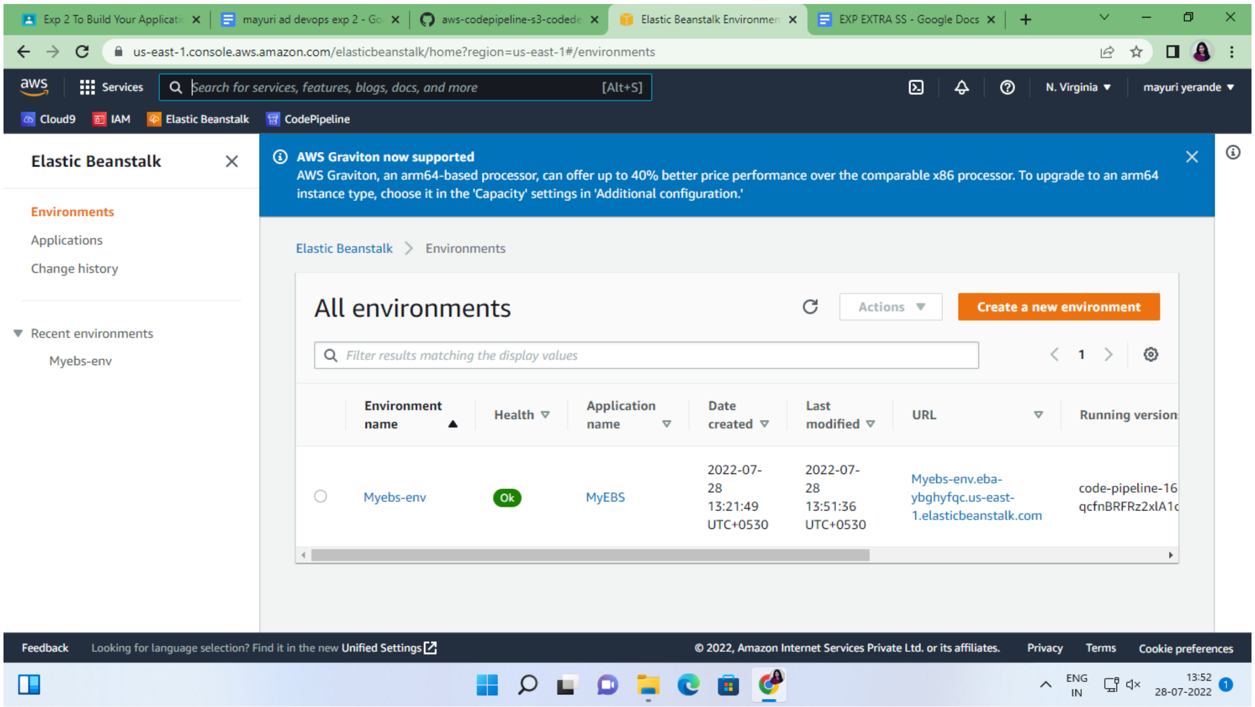
In the Deploy Stage:

Deployment provider: Click AWS Elastic Beanstalk. Application name: MYEBS. Environment name: Click Myebs-env. Click Next step.

After your pipeline is created, the pipeline status page appears and the pipeline automatically starts to run. You can view progress as well as success and failure messages as the pipeline performs each action.

To verify your pipeline ran successfully, monitor the progress of the pipeline as it moves through each stage. The status of each stage will change from No executions yet to In Progress, and then to either Succeeded or Failed. The pipeline should complete the first run within a few minutes.

Now go to your EBS environment and click on the URL to view the sample website you deployed.


Exp 2 To Build Your Applicati
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aws-codepipeline-s3-codede
Elastic Beanstalk Environmen
EXP EXTRA SS - Google Docs
us-east-1.console.aws.amazon.com/elasticbeanstalk/home?region=us-east-1#/environments
aws
Services
Search for services, features, blogs, docs, and more
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Cloud9
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Elastic Beanstalk
CodePipeline
Elastic Beanstalk
Environments
Applications
Change history
Recent environments
Myebs-env
Elastic Beanstalk
Environments
Actions
Create a new environment
Filter results matching the display values
1
Feedback
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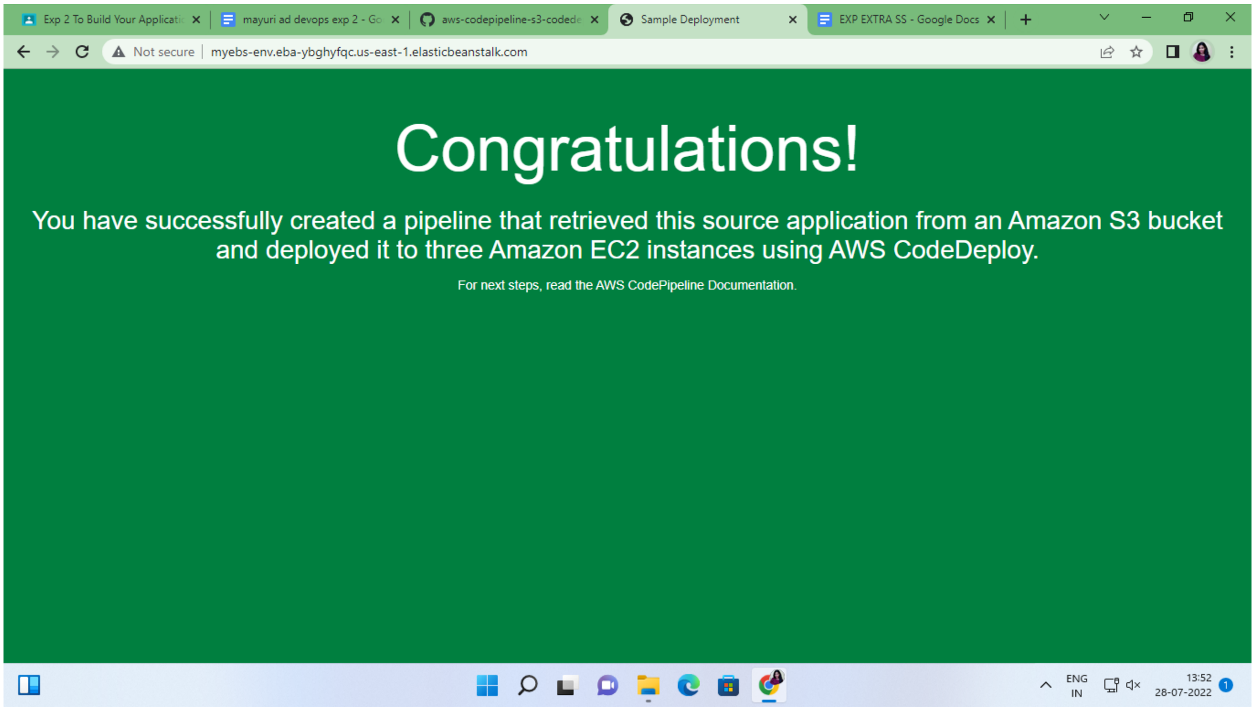
AWS Graviton now supported
AWS Graviton, an arm64-based processor, can offer up to 40% better price performance over the comparable x86 processor. To upgrade to an arm64 instance type, choose it in the 'Capacity' settings in 'Additional configuration.'

All environments

	Environment name	Health	Application name	Date created	Last modified	URL	Running version
○	Myebs-env	Ok	MyEBS	2022-07-28 13:21:49 UTC+0530	2022-07-28 13:51:36 UTC+0530	Myebs-env.eba-ybghyfqc.us-east-1.elasticbeanstalk.com	code-pipeline-16 qcfnBRFRz2xlA1c

You have successfully created an automated software release pipeline using AWS CodePipeline!

Using CodePipeline, you created a pipeline that uses GitHub, Amazon S3, or AWS CodeCommit as the source location for application code and then deploys the code to an Amazon EC2 instance managed by AWS Elastic Beanstalk.


Exp 2 To Build Your Applicatio
mayuri ad devops exp 2 - Go
aws-codepipeline-s3-codede
Sample Deployment
EXP EXTRA SS - Google Docs
Not secure
myebs-env.eba-ybghyfqc.us-east-1.elasticbeanstalk.com
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28-07-2022

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.

Step 6: Clean up your resources

To avoid future charges, you will delete all the resources you launched throughout this tutorial, which includes the pipeline, the Elastic Beanstalk application, and the source you set up to host the code.

a. First, you will delete your pipeline:

- In the pipeline view, click Edit.
- Click Delete.

- Type in the name of your pipeline and click Delete.

b. Second, delete your Elastic Beanstalk application:

- Visit the Elastic Beanstalk console.
- Click Actions.
- Then click Terminate Environment.

You have successfully created an automated software release pipeline using AWS CodePipeline! Using CodePipeline, you created a pipeline that uses GitHub, Amazon S3, or AWS CodeCommit as the source location for application code and then deploys the code to an Amazon EC2 instance managed by AWS Elastic Beanstalk. Your pipeline will automatically deploy your code every time there is a code change.

Conclusion: An Application using AWS CodeBuild and Deploy on S3 using AWS CodePipeline, deploy Sample Application on EC2 instance using AWS CodeDeploy is successfully implemented.