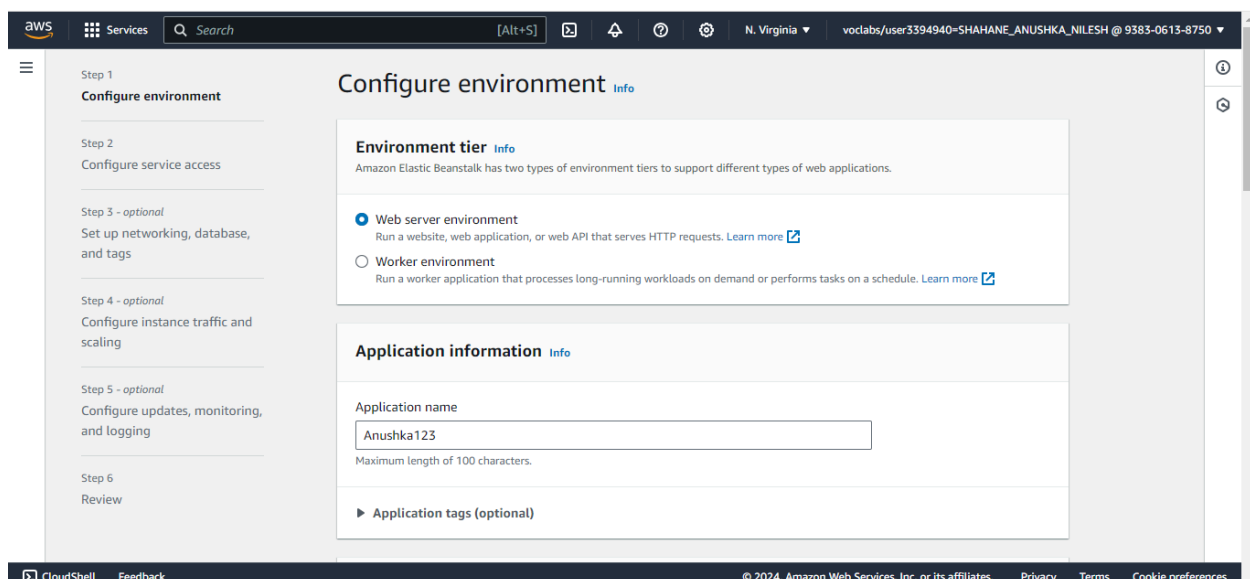
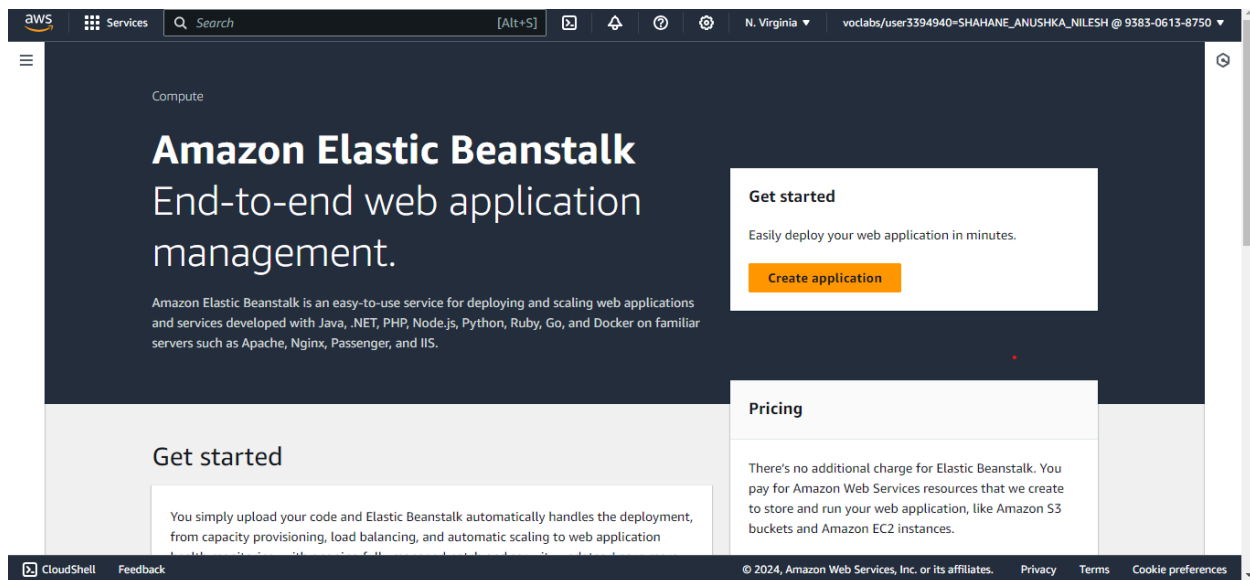


## ADVANCE DEVOPS EXPERIMENT NO. 2

**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.



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Application code

☒ Sample application

☐ Existing version

☐ Upload your code

Application versions that you have uploaded.

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

Presets

Start from a preset that matches your use case or choose custom configuration to unset recommended values and use the service's default values.

Configuration presets

☒ Single instance (free tier eligible)

☐ Single instance (using spot instance)

☐ High availability

☐ High availability (using spot and on-demand instances)

☐ Custom configuration

Cancel

Next

How would you rate your experience with this service console? ☆ ☆ ☆ ☆ ☆

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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](#)

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.

EC2 key pair

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

Anushka

EC2 instance profile

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

View permission details

Cancel

Skip to review

Previous

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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 instance traffic and scaling - optional

Info

▼ Instances Info

Configure the Amazon EC2 instances that run your application.

Root volume (boot device)

Root volume type

(Container default)

Size

The number of gigabytes of the root volume attached to each instance.

8

GB

IOPS

Input/output operations per second for a provisioned IOPS (SSD) volume.

100

IOPS

Throughput

The desired throughput to provision for the Amazon EBS root volume attached to your environment's EC2 instances.

CloudShell

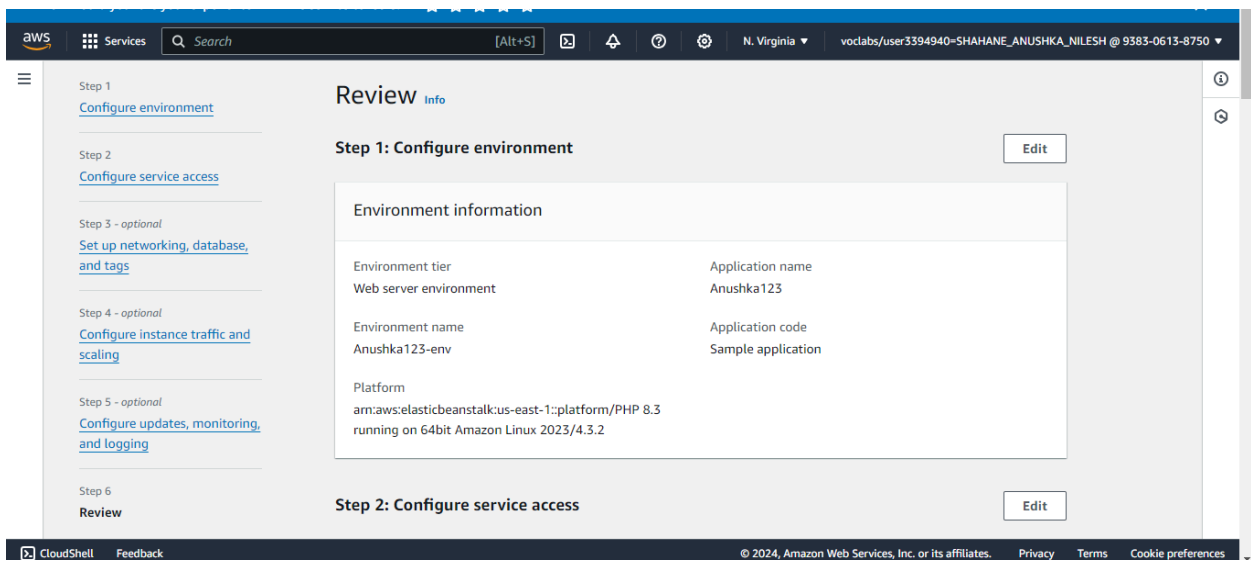
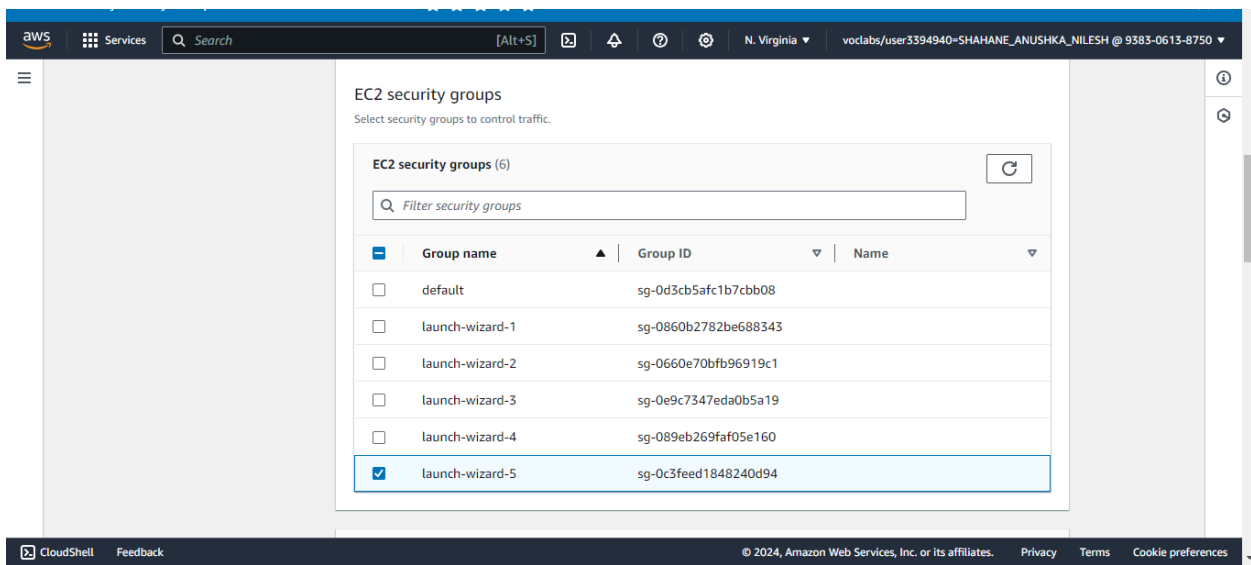
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On-demand above base

0

Processor type

x86\_64

Availability Zones

Any

Unit

Bytes

Upper threshold

6000000

Scale down increment

-1

Load balancer

Load balancer visibility

public

Capacity rebalancing

Deactivated

Instance types

t3.micro,t3.small

Metric

NetworkOut

Period

5

Scale up increment

1

Load balancer type

application

Scaling cooldown

360

AMI ID

ami-01666c45687a3fe87

Statistic

Average

Breach duration

5

Lower threshold

2000000

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Off

Memory limit

256M

Logs retention

7

X-Ray enabled

Deactivated

Environment properties

Key

Value

No environment properties

There are no environment properties defined

-

Zlib output compression

Off

Rotate logs

Deactivated

60

Proxy server

nginx

Update level

minor

Cancel

Previous

Submit

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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

## 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.

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.

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Step 1 of 5

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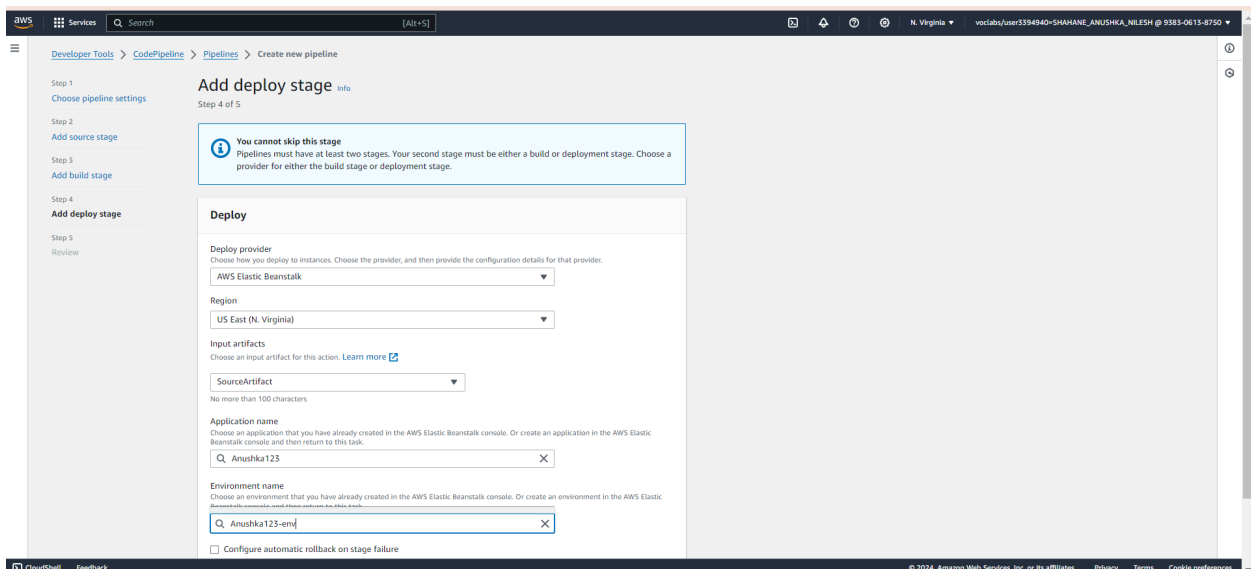
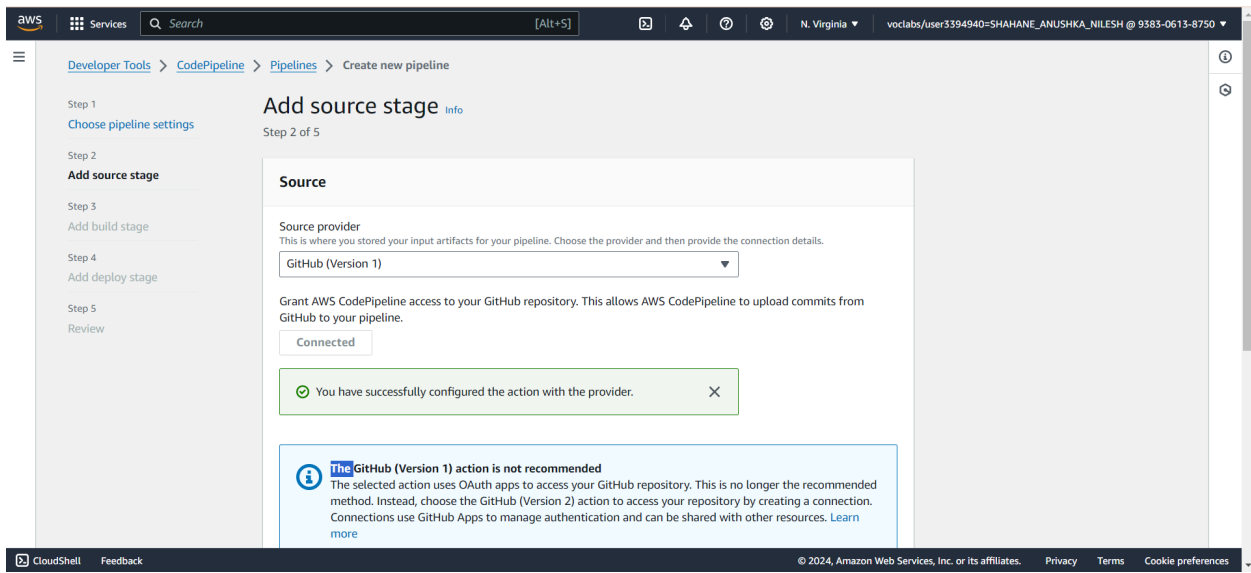
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Variables		
Name	Default value	Description
<b>No variables</b>		
No variables defined at the pipeline level in this pipeline.		

Step 2: Add source stage

Source action provider
Source action provider
GitHub (Version 1)
PollForSourceChanges
true
Repo
ChillNGrill
Owner
Anushka3204
Branch



### 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

Anushka123

EnvironmentName

Anushka123-env

Configure automatic rollback on stage failure

Disabled

Cancel

Previous

Create pipeline

CodePipeline

Source • CodeCommit

Artifacts • CodeArtifact

Build • CodeBuild

Deploy • CodeDeploy

Pipeline • CodePipeline

Getting started

Pipelines

Pipeline

History

Settings

Settings

Go to resource

Feedback

Source

Succeeded

Pipeline execution ID: a6c98be3-8dc0-458e-8a26-c358bdb77e26

Source

GitHub (Version 2)

Succeeded - 1 minute ago

8f65da54

Source: Update README.md

Disable transition

Deploy

Succeeded

Pipeline execution ID: a6c98be3-8dc0-458e-8a26-c358bdb77e26

Deploy

AWS Elastic Beanstalk

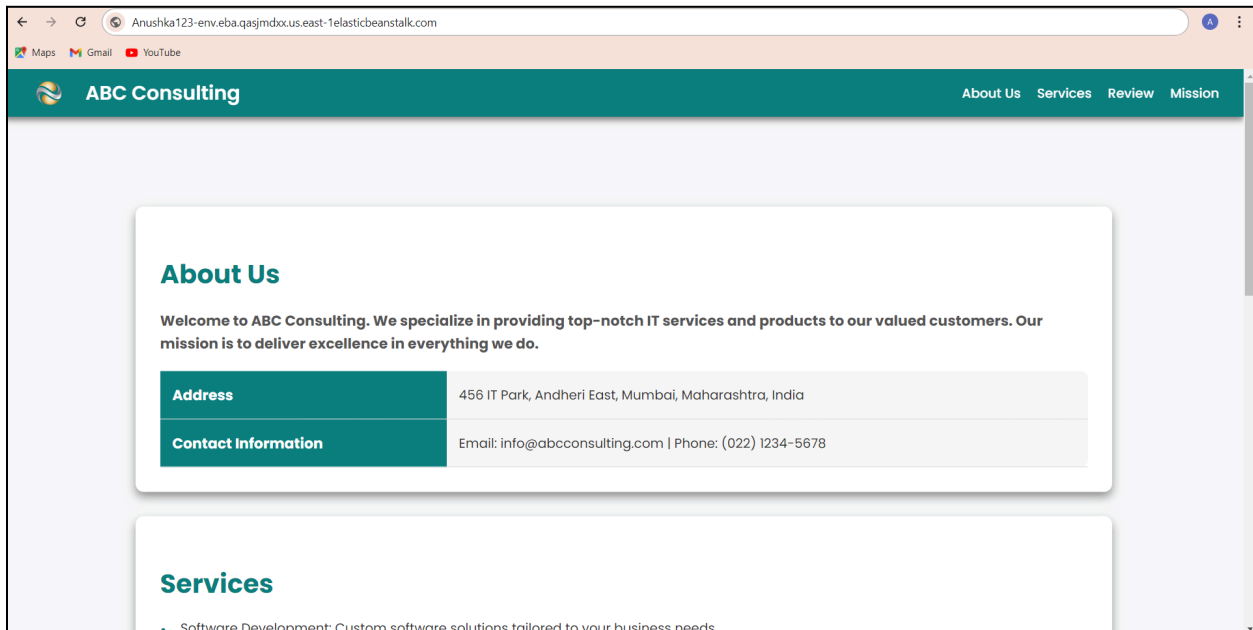
Succeeded - Just now

8f65da54

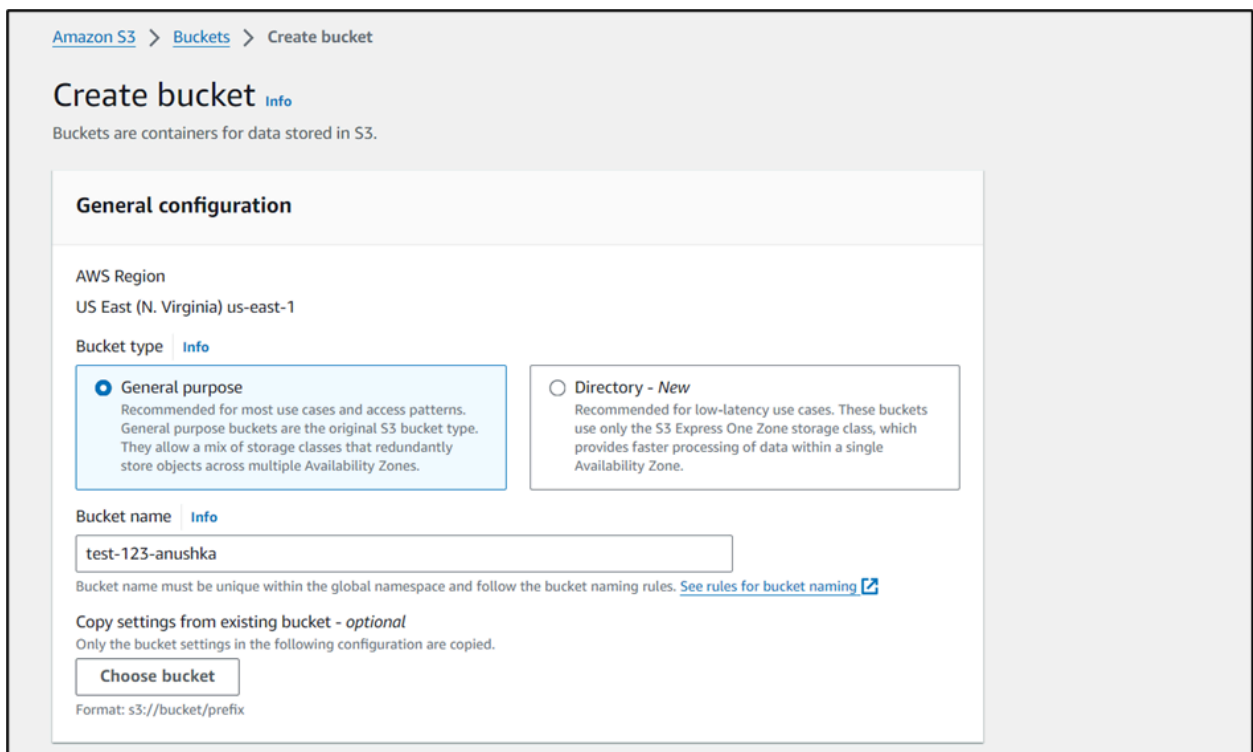
Source: Update README.md

✓

✓



Using S3 bucket :



### Default encryption [Info](#)

Server-side encryption is automatically applied to new objects stored in this bucket.

Encryption type [Info](#)

☒ Server-side encryption with Amazon S3 managed keys (SSE-S3)

☐ Server-side encryption with AWS Key Management Service keys (SSE-KMS)

☐ Dual-layer server-side encryption with AWS Key Management Service keys (DSSE-KMS)

Secure your objects with two separate layers of encryption. For details on pricing, see [DSSE-KMS pricing](#) on the [Storage](#) tab of the [Amazon S3 pricing page](#). [↗](#)

Bucket Key

Using an S3 Bucket Key for SSE-KMS reduces encryption costs by lowering calls to AWS KMS. S3 Bucket Keys aren't supported for DSSE-KMS. [Learn more](#) [↗](#)

☐ Disable

☒ Enable

► **Advanced settings**

❗ After creating the bucket, you can upload files and folders to the bucket, and configure additional bucket settings.

Cancel [Create bucket](#)

✔ Successfully created bucket "test-123-anushka"  
To upload files and folders, or to configure additional bucket settings, choose [View details](#).

Amazon S3 > Buckets

► **Account snapshot - updated every 24 hours** [All AWS Regions](#)  
Storage lens provides visibility into storage usage and activity trends. [Learn more](#) [↗](#) [View Storage Lens dashboard](#)

General purpose buckets | Directory buckets

**General purpose buckets (1)** [Info](#) [All AWS Regions](#)

Buckets are containers for data stored in S3.

[↻](#) [Copy ARN](#) [Empty](#) [Delete](#) [Create bucket](#)

< 1 > ⚙

Name	AWS Region	IAM Access Analyzer	Creation date
<a href="#">test-123-anushka</a>	US East (N. Virginia) us-east-1	<a href="#">View analyzer for us-east-1</a>	August 11, 2024, 19:49:09 (UTC+05:30)

Upload succeeded  
View details below.

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

Summary

Destination  
s3://test-123-anushka

Succeeded  
1 file, 0 B (0%)

Failed  
0 files, 0 B (0%)

Files and folders

Configuration

Files and folders (1 Total, 0 B)

Find by name

< 1 >

Name	Folder	Type	Size	Status	Error
<a href="#">Test.txt</a>	-	text/plain	0 B	Succeeded	-

Amazon S3

Buckets

Access Grants

Access Points

Object Lambda Access Points

Multi-Region Access Points

Batch Operations

IAM Access Analyzer for S3

Block Public Access settings for this account

Storage Lens

Dashboards

Storage Lens groups

AWS Organizations settings

Feature spotlight

Amazon S3 > Buckets > test-123-anushka > Test.txt

Test.txt

Copy S3 URI

Download

Open

Object actions

Properties

Permissions

Versions

Object overview

Owner  
aws:labs0w4201793t1653663267

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

Last modified  
August 11, 2024, 19:58:50 (UTC+05:30)

Size  
-

Type  
txt

Key

S3 URI  
s3://test-123-anushka/Test.txt

Amazon Resource Name (ARN)  
arn:aws:s3::test-123-anushka/Test.txt

Entity tag (Etag)  
d41d8cd98f00b204e9800998ecf8427e

Object URL  
https://test-123-anushka.s3.amazonaws.com/Test.txt

Successfully edited bucket policy.

Amazon S3 > Buckets > test-123-anushka

test-123-anushka 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)

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

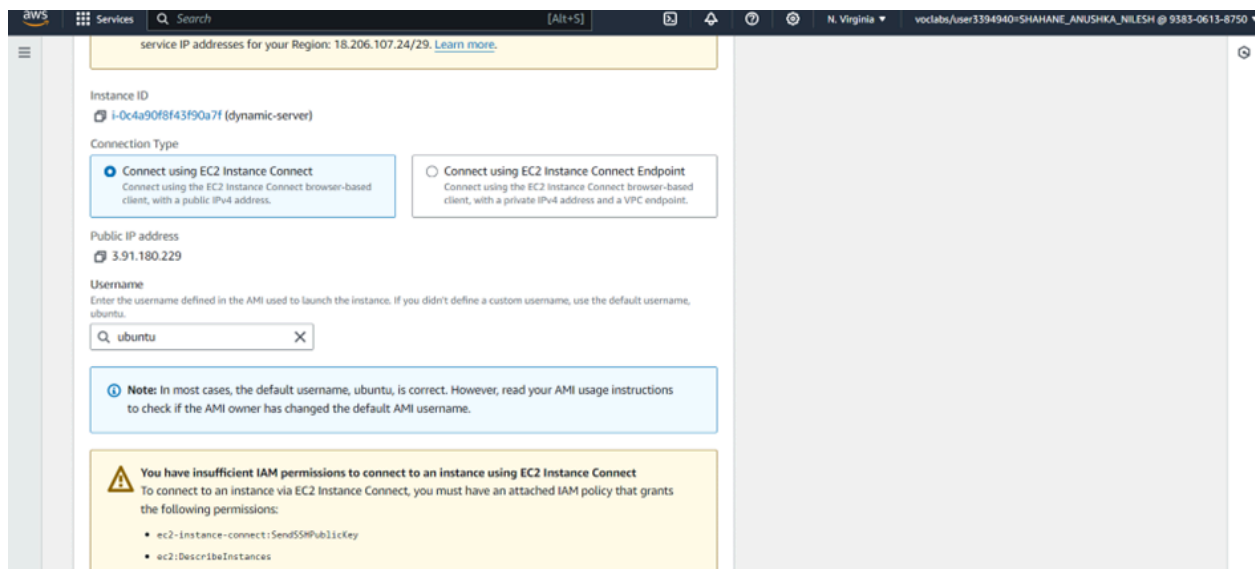
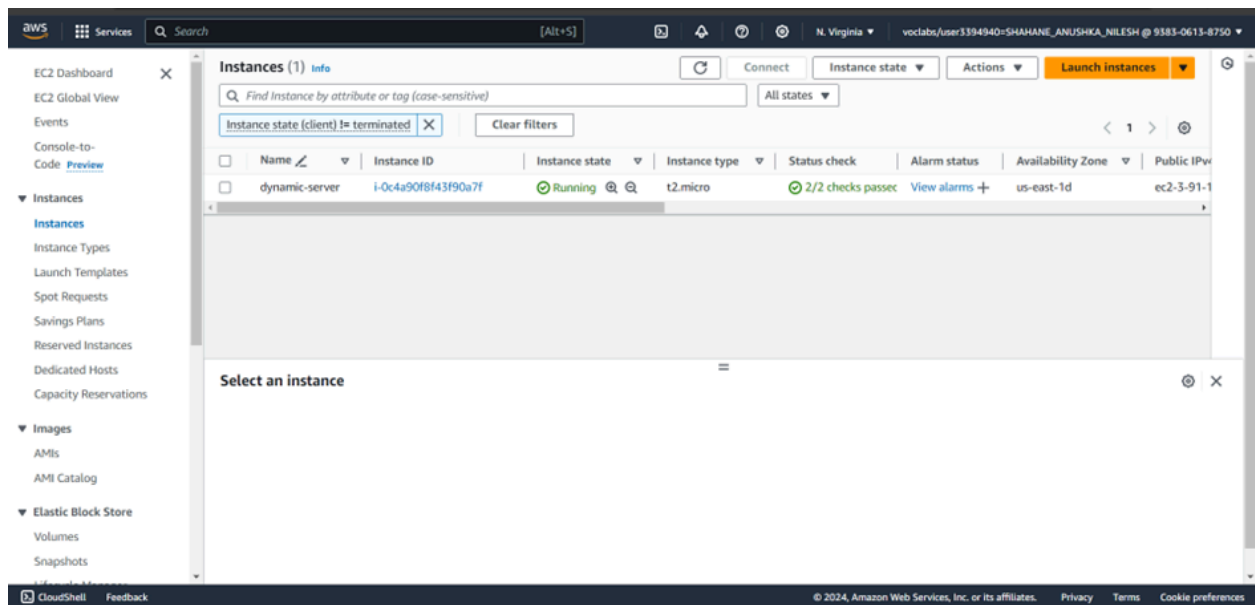
Individual Block Public Access settings for this bucket

test-123-anushka.s3.amazonaws.com/Test.txt

Hi! This is hosting on AWS through S3 bucket by Anushka!!

Anushka Shahane D15A 55

Using EC2 instance :



```
Dynamic_hosting_EC2 Dynamic_hosting_ec2 Hosting_dynamic_ec2 package-lock.json
ubuntu@ip-172-31-83-228:~/Anushka$ cd Hosting_dynamic_ec2
ubuntu@ip-172-31-83-228:~/Anushka/Hosting_dynamic_ec2$ ls
index.js package-lock.json package.json
ubuntu@ip-172-31-83-228:~/Anushka/Hosting_dynamic_ec2$ npm i

added 64 packages, and audited 65 packages in 1s

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

found 0 vulnerabilities
ubuntu@ip-172-31-83-228:~/Anushka/Hosting_dynamic_ec2$ npm start

> server@1.0.0 start
> node index.js

Server is running on port 3000
```

The screenshot displays the AWS Management Console interface. On the left, the navigation menu shows various AWS services, with 'Instances' and 'Images' expanded. The main content area is titled 'Security Groups (1/6) Info'. A table lists the security groups, with 'launch-wizard-3' (ID: sg-0e9c7347eda0b5a19) selected. Below the table, the 'Inbound rules' tab is active, showing a list of two rules. The first rule is for HTTP on port 80, and the second is for SSH on port 22. The console also shows the 'Actions' menu and 'Export security groups to CSV' button.

Name	Security group ID	Security group name	VPC ID
launch-wizard-3	sg-0e9c7347eda0b5a19	launch-wizard-3	vpc-0d8cbbe5ce8b91c8d

Name	Security group rule...	IP version	Type	Protocol	Port
-	sgr-0719276f3e5dc89d2	IPv4	HTTP	TCP	80
-	sgr-02b44d0276b699...	IPv4	SSH	TCP	22

