

## Advance DevOps Exp - 2

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D15A -22

**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.

The image shows two screenshots of the AWS Management Console. The top screenshot displays the search results for 'elastic beanstalk'. The search bar at the top contains the query 'elastic beanstalk'. Below it, the 'Services' section lists 'Elastic Beanstalk' under 'Features (48)', described as 'Run and Manage Web Apps'. The bottom screenshot shows the 'Amazon Elastic Beanstalk' landing page. It features the title 'Amazon Elastic Beanstalk' and the subtitle 'End-to-end web application management.' A 'Get started' button is prominently displayed, along with a description of how it handles deployment and scaling. Another 'Create application' button is located on the right side of the landing page.

AWS Services Search [Alt+S] Stockholm Niraj017

Configure environment 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 environment** Info

**Environment tier** Info  
Amazon Elastic Beanstalk has two types of environment tiers to support different types of web applications.

**Web server environment**  
Run a website, web application, or web API that serves HTTP requests. [Learn more](#)

**Worker environment**  
Run a worker application that processes long-running workloads on demand or performs tasks on a schedule. [Learn more](#)

**Application information** Info

Application name  Maximum length of 100 characters.

▶ Application tags (optional)

**Environment information** Info  
Choose the name, subdomain and description for your environment. These cannot be changed later.

https://eu-north-1.console.aws.amazon.com/console/home?region=eu-north-1 © 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

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▶ Application tags (optional)

**Environment information** Info  
Choose the name, subdomain and description for your environment. These cannot be changed later.

Environment name  Must be from 4 to 40 characters in length. The name can contain only letters, numbers, and hyphens. It can't start or end with a hyphen. This name must be unique within a region in your account.

Domain  .eu-north-1.elasticbeanstalk.com

Environment description

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**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  
Python

Platform branch  
Python 3.11 running on 64bit Amazon Linux 2023

Platform version  
4.1.3 (Recommended)

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**Application code** Info

Sample application  
  
Existing version Application versions that you have uploaded.  
 Upload your code Upload a source bundle from your computer or copy one from Amazon S3.

**Presets** Info

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**

Screenshot of the AWS IAM search results page. The search term 'iam' is entered in the search bar. The results are categorized into Services and Features.

**Services** (11):

- IAM: Manage access to AWS resources
- IAM Identity Center: Manage workforce user access to multiple AWS accounts and cloud applications
- Resource Access Manager: Share AWS resources with other accounts or AWS Organizations

**Features** (24):

- Groups: IAM feature
- Roles: IAM feature
- Roles Anywhere: IAM feature

Navigation buttons at the bottom: Cancel, Skip to review, Previous, Next.

Screenshot of the AWS IAM Roles management page.

**Roles (2) Info:**

- Role name: AWSServiceRoleForSupport (AWS Service: support)
- Role name: AWSServiceRoleForTrustedAdvisor (AWS Service: trustedadvisor)

**Roles Anywhere Info:**

- Access AWS from your non AWS workloads: Operate your non AWS workloads using the same authentication and authorization strategy that you use within AWS.
- X.509 Standard: Use your own existing PKI infrastructure or use AWS Certificate Manager Private Certificate Authority to authenticate identities.
- Temporary credentials: Use temporary credentials with ease and benefit from the enhanced security they provide.

Navigation buttons at the bottom: CloudShell, Feedback.

Screenshot of the 'Create role' wizard Step 1: Select trusted entity.

**Step 1: Select trusted entity**

**Step 2: Add permissions**

**Step 3: Name, review, and create**

**Trusted entity type:**

- AWS service: Allow AWS services like EC2, Lambda, or others to perform actions in this account.
- AWS account: Allow entities in other AWS accounts belonging to you or a 3rd party to perform actions in this account.
- Web identity: Allows users federated by the specified external web identity provider to assume this role to perform actions in this account.
- SAML 2.0 federation: Allow users federated with SAML 2.0 from a corporate directory to perform actions in this account.
- Custom trust policy: Create a custom trust policy to enable others to perform actions in this account.

**Use case**  
Allow an AWS service like EC2, Lambda, or others to perform actions in this account.

**Service or use case**  
EC2

Choose a use case for the specified service.

**Use case**

- EC2**  
Allows EC2 instances to call AWS services on your behalf.
- EC2 Role for AWS Systems Manager**  
Allows EC2 instances to call AWS services like CloudWatch and Systems Manager on your behalf.
- EC2 Spot Fleet Role**  
Allows EC2 Spot Fleet to request and terminate Spot Instances on your behalf.
- EC2 - Spot Fleet Auto Scaling**  
Allows Auto Scaling to access and update EC2 spot fleets on your behalf.
- EC2 - Spot Fleet Tagging**  
Allows EC2 to launch spot instances and attach tags to the launched instances on your behalf.
- EC2 - Spot Instances**  
Allows EC2 Spot Instances to launch and manage spot instances on your behalf.
- EC2 - Spot Fleet**  
Allows EC2 Spot Fleet to launch and manage spot fleet instances on your behalf.
- EC2 - Scheduled Instances**  
Allows EC2 Scheduled Instances to manage instances on your behalf.

**Cancel** **Next**

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**Step 2 Add permissions**

**Step 3 Name, review, and create**

**Permissions policies (3/947) Info**  
Choose one or more policies to attach to your new role.

Filter by Type: All types | 14 matches

Policy name	Type	Description
<input checked="" type="checkbox"/> AWSElasticBeanstalkWebTier	AWS managed	Provide the instances in your web server environment access to upload log files to Amazon S3.
<input checked="" type="checkbox"/> AWSElasticBeanstalkWorkerTier	AWS managed	Provide the instances in your worker environment access to upload log files to Amazon S3, to use Amazon SQS to mon...
<input checked="" type="checkbox"/> AWSElasticBeanstalkMulticontainerDoc...	AWS managed	Provide the instances in your multicontainer Docker environment access to use the Amazon EC2 Container Service to ...
<input type="checkbox"/> AWSElasticBeanstalkEnhancedHealth	AWS managed	AWS Elastic Beanstalk Service policy for Health Monitoring system
<input type="checkbox"/> AWSElasticBeanstalkCustomPlatform...	AWS managed	Provide the instance in your custom platform builder environment permission to launch EC2 instance, create EBS snap...
<input type="checkbox"/> AWSElasticBeanstalkRoleWorkerTier	AWS managed	(Elastic Beanstalk operations role) Allows a worker environment tier to create an Amazon DynamoDB table and an Am...
<input type="checkbox"/> AWSElasticBeanstalkRoleSNS	AWS managed	(Elastic Beanstalk operations role) Allows an environment to enable Amazon SNS topic integration.
<input type="checkbox"/> AWSElasticBeanstalkRoleRDS	AWS managed	(Elastic Beanstalk operations role) Allows an environment to integrate an Amazon RDS instance.
<input type="checkbox"/> AWSElasticBeanstalkRoleECS	AWS managed	(Elastic Beanstalk operations role) Allows a multicontainer Docker environment to manage Amazon ECS clusters.
<input type="checkbox"/> AWSElasticBeanstalkRoleCore	AWS managed	AWSElasticBeanstalkRoleCore (Elastic Beanstalk operations role) Allows core operation of a web service environment.
<input type="checkbox"/> AWSElasticBeanstalkRoleCWL	AWS managed	(Elastic Beanstalk operations role) Allows an environment to manage Amazon CloudWatch Logs log groups.
<input type="checkbox"/> AWSElasticBeanstalkReadOnly	AWS managed	Grants read-only permissions. Explicitly allows operators to gain direct access to retrieve information about resources r...
<input type="checkbox"/> AdministratorAccess-AWSElasticBeanst...	AWS managed	Grants account administrative permissions. Explicitly allows developers and administrators to gain direct access to reso...
<input type="checkbox"/> AWSElasticBeanstalkManagedUpdates...	AWS managed	This policy is for the AWS Elastic Beanstalk service role used to perform managed updates of Elastic Beanstalk environ...

**Set permissions boundary - optional**

**Cancel** **Previous** **Next**

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Screenshot of the AWS IAM "Create role" wizard, Step 1: Name, review, and create.

**Role details**

**Role name:** aws-elasticbeanstalk-ec2

**Description:** Allows EC2 instances to call AWS services on your behalf.

**Step 1: Select trusted entities**

**Trust policy:**

```
1 - [ {  
2 -   "Version": "2012-10-17",  
3 -   "Statement": [  
4 -     {  
5 -       "Effect": "Allow",  
6 -       "Action": "sts:AssumeRole"  
7 -     }  
8 -   ]  
9 - }]
```

**Step 2: Add permissions**

**Permissions policy summary:**

Policy name	Type	Attached as
AWS-ElasticBeanstalk-MulticontainerDocker	AWS managed	Permissions policy
AWS-ElasticBeanstalk-WebTier	AWS managed	Permissions policy
AWS-ElasticBeanstalk-WorkerTier	AWS managed	Permissions policy

**Step 3: Add tags**

Add tags - optional Info  
Tags are key-value pairs that you can add to AWS resources to help identify, organize, or search for resources.

No tags associated with the resource.

Add new tag

You can add up to 50 more tags.

Cancel Previous Create role

**Role aws-elasticbeanstalk-ec2 created.**

**Roles (3) Info**

An IAM role is an identity you can create that has specific permissions with credentials that are valid for short durations. Roles can be assumed by entities that you trust.

Role name	Trusted entities	Last activity
AWSServiceRoleForSupport	AWS Service: support (Service-Linker)	-
AWSServiceRoleForTrustedAdvisor	AWS Service: trustedadvisor (Service)	-

**Roles Anywhere Info**

Authenticate your non AWS workloads and securely provide access to AWS services.

**Access AWS from your non AWS workloads**

Operate your non AWS workloads using the same authentication and authorization strategy that you use within AWS.

**X.509 Standard**

Use your own existing PKI infrastructure or use [AWS Certificate Manager Private Certificate Authority](#) to authenticate identities.

**Temporary credentials**

Use temporary credentials with ease and benefit from the enhanced security they provide.

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**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-ec2

**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.

aws-elasticbeanstalk-ec2

[View permission details](#)

Cancel Skip to review Previous Next

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### Elastic Beanstalk

Applications Environments Change history

Application: Niraj24

- Application versions
- Saved configurations

Environment: Niraj24-env

- Go to environment
- Configuration
- Events
- Health
- Logs
- Monitoring
- Alarms
- Managed updates
- Tags

Elastic Beanstalk is launching your environment. This will take a few minutes.

Niraj24-env Info

Environment overview

Health	Environment ID
Pending	e-vm4nnzhtmr
Domain	Application name
Niraj24-env.eba-q5bn9pg.eu-north-1.elasticbeanstalk.com	Niraj24

Platform

Platform	Change version
Python 3.11 running on 64bit Amazon Linux 2023/4.1.3	
Running version	-
Platform state	Supported

Events Health Logs Monitoring Alarms Managed updates Tags

Events (5) Info

Filter events by text, property or value

CloudShell Feedback

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### Elastic Beanstalk

Applications Environments Change history

Application: Niraj24

- Application versions
- Saved configurations

Environment: Niraj24-env

- Go to environment
- Configuration
- Events
- Health
- Logs
- Monitoring
- Alarms
- Managed updates
- Tags

CloudFormation

Search results for 'cloudformation'

Services (2)

Features (8)

Resources New Documentation (17,008)

Knowledge Articles (132)

Marketplace (547)

Blogs (503)

Events (1)

Tutorials (1)

CloudFormation Create and Manage Resources with Templates

Top features

- StackSets
- IaC Generator
- Stacks
- Exports
- Application Composer

Application Composer Visually design and build modern applications quickly

Features

IaC Generator CloudFormation feature

Designer CloudFormation feature

Exports CloudFormation feature

See all 8 results ▶

CloudFormation Actions Upload and deploy Change version

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CloudFormation Stacks

CloudFormation Actions Stack actions Create stack

Stacks (1)

Filter by stack name Active View nested

Stack name	Status	Created time	Description
awseb-e-vm4nnzhtmr-stack	CREATE_COMPLETE	2024-08-22 19:04:43 UTC+0530	AWS Elastic Beanstalk environment (Name: 'Niraj24-env' Id: 'e-vm4nnzhtmr')

**CloudFormation**

**Stacks**

- Stack details
- Drifts
- StackSets
- Exports

**Application Composer** New

IaC generator

**Registry**

- Public extensions
- Activated extensions
- Publisher

**Spotlight**

**Feedback**

**CloudShell** **Feedback**

**CloudFormation** > **Stacks** > awseb-e-vm4nnzhtmr-stack

**awseb-e-vm4nnzhtmr-stack**

**Stack info**

**Overview**

**Stack ID:** arn:aws:cloudformation:eu-north-1:147997146975:stack/awseb-e-vm4nnzhtmr-stack/4a800800-608b-11ef-9672-0a3c26256ef3

**Description:** AWS Elastic Beanstalk environment (Name: 'Niraj24-env' Id: 'e-vm4nnzhtmr')

**Status:** CREATE\_COMPLETE

**Status reason:** -

**Parent stack:** -

**Created time:** 2024-08-22 19:04:43 UTC+0530

**Updated time:** -

**Deleted time:** -

**Drift status:** -

**CloudFormation** > **Application Composer**

**Application Composer**

**Resources**

**Canvas**

**Template**

**Arrange**

**Standard Component AWSEBAutoScalingLaunchConfiguration**

**Standard Component AWSEBInstanceLaunchWaitHandle**

**Standard Component AWSEBEIP**

**Standard Component AWSEBBeanstalkMetadata**

**Standard Component AWSEBInstanceLaunchWaitCondition**

**CloudShell** **Feedback**

**Instances (1) Info**

**Find Instance by attribute or tag (case-sensitive)**

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 IP
Niraj24-env	i-0fbaa7e346a3ce3fd	Running	t3.micro	3/3 checks passed	View alarms +	eu-north-1b	ec2-13-48-184-238.eu...	13.48.184.23...

**Select an instance**

Screenshot of the AWS Elastic Beanstalk console showing the environment "Niraj24-env" successfully launched.

The interface includes:

- Left sidebar:** Shows the application "Niraj24" and its environment "Niraj24-env".
- Top bar:** Includes the AWS logo, Services, Search, and user information (Stockholm, Niraj017).
- Environment Overview:** Displays Health (Warning), Environment ID (e-vm4nnzhtmr), Domain (niraj24-env.eba-q5bn9xpg.eu-north-1.elasticbeanstalk.com), Application name (Niraj24), and Platform (Python 3.11 running on 64bit Amazon Linux 2023/4.1.3).
- Platform:** Shows Running version (–) and Platform state (Supported).
- Events tab:** Shows 12 events.
- Bottom navigation:** CloudShell, Feedback, © 2024, Amazon Web Services, Inc. or its affiliates., Privacy, Terms, Cookie preferences.

The browser window below shows the deployed application's landing page:

- Title:** Niraj24-env.eba-q5bn9xpg.eu-north-1.elasticbeanstalk.com
- Content:** A large green "Congratulations" banner with the message: "Your first AWS Elastic Beanstalk Python Application is now running on your own dedicated environment in the AWS Cloud". Below it says "This environment is launched with Elastic Beanstalk Python Platform".
- Right sidebar:** "What's Next?" section with links:
  - AWS Elastic Beanstalk overview
  - AWS Elastic Beanstalk concepts
  - Deploy a Django Application to AWS Elastic Beanstalk
  - Deploy a Flask Application to AWS Elastic Beanstalk
  - Customizing and Configuring a Python Container
  - Working with Logs

## Code Deployment using CodePipeline:

The screenshot shows the AWS Lambda console interface. At the top, there's a search bar with the text "Lambda function" and a dropdown menu showing "Region: us-east-1". Below the search bar, there's a table with two rows. The first row contains the function name "HelloWorld" and the status "Active". The second row contains the ARN "arn:aws:lambda:us-east-1:123456789012:function:HelloWorld". To the right of the table, there are three tabs: "Overview", "Configuration", and "Logs". Under the "Logs" tab, there's a section titled "CloudWatch Logs" with a "View logs" button. At the bottom of the screen, there's a navigation bar with links for "Lambda", "AWS Lambda", "AWS Lambda API", "AWS Lambda Metrics", and "AWS Lambda Metrics API".

The screenshot shows the AWS CodePipeline console. At the top, there's a search bar with the text "CodePipeline" and a dropdown menu showing "Region: us-east-1". Below the search bar, there's a table with two rows. The first row contains the pipeline name "HelloWorld" and the status "Active". The second row contains the ARN "arn:aws:codepipeline:us-east-1:123456789012:pipeline>HelloWorld". To the right of the table, there are three tabs: "Overview", "Actions", and "Logs". Under the "Actions" tab, there's a section titled "Actions" with a "Create new action" button. At the bottom of the screen, there's a navigation bar with links for "CodePipeline", "AWS CodePipeline", "AWS CodePipeline API", and "AWS CodePipeline Metrics".

Screenshot of the AWS CodePipeline 'Create new pipeline' wizard, Step 2 of 5: Add source stage.

The 'Source' provider is set to GitHub (Version 1). A success message indicates the action has been configured. A note states that GitHub (Version 1) is no longer recommended; instead, choose GitHub (Version 2) to access your repository by creating a connection. Connections use GitHub Apps to manage authentication and can be shared with other resources.

Repository: Q\_2022NK/PLAB\_EXP2

Branch: Q\_main

Change detection options:

- GitHub webhooks (recommended)  
Use webhooks in GitHub to automatically start my pipeline when a change occurs.
- AWS CodePipeline  
Use AWS CodePipeline to check periodically for changes.

Buttons: Cancel, Previous, Next.

Screenshot of the AWS CodePipeline 'Create new pipeline' wizard, Step 4 of 5: Add deploy stage.

A warning message states: "You cannot skip this stage. 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: AWS Elastic Beanstalk

Region: Europe (Stockholm)

Input artifacts: SourceArtifact

Application name: Niraj24

Environment name: Niraj24-env

Configure automatic rollback on stage failure

Buttons: Cancel, Previous, Next.

aws Services Search [Alt+S]

Developer Tools > CodePipeline > Pipelines > Create new pipeline

Step 1 Choose pipeline settings Review Info Step 5 of 5

Step 2 Add source stage

Step 3 Add build stage

Step 4 Add deploy stage

Step 5 Review

**Step 1: Choose pipeline settings**

Pipeline settings

Pipeline name: Niraj\_Pipeline

Pipeline type: V2

Execution mode: QUEUED

Artifact location: A new Amazon S3 bucket will be created as the default artifact store for your pipeline

Service role name: AWSCodePipelineServiceRole-eu-north-1-Niraj\_Pipeline

**Variables**

Name	Default value	Description
No variables		

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: false

Repo: IPLAB\_EXP2

Owner: 2022NK

Branch: main

**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: Niraj24

EnvironmentName: Niraj24-env

Configure automatic rollback on stage failure: Disabled

Cancel Previous Create pipeline

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**SUCCESS**  
Congratulations! The pipeline Niraj\_Pipeline has been created.

Developer Tools > CodePipeline > Pipelines > Niraj\_Pipeline

Niraj\_Pipeline  
Pipeline type: V2 Execution mode: QUEUED

**Source** Succeeded  
Pipeline execution ID: 08877347-55da-408f-a716-4b8a5a6cbb6e

Source  
GitHub (Version\_1) [View details](#)  
Succeeded - Just now  
508d20de [View details](#)

508d20de Source: styles.css

**Disable transition**

**Deploy** Succeeded  
Pipeline execution ID: 08877347-55da-408f-a716-4b8a5a6cbb6e

Deploy  
AWS Elastic Beanstalk [View details](#)  
Succeeded - Just now  
508d20de [View details](#)

508d20de Source: styles.css

**Start rollback**

**Home**  
Welcome to NK LIMITED



At NK Limited Steel Company, we are dedicated to providing high-quality steel products and services to meet the needs of our clients. With years of experience in the industry, our team of experts ensures that every product meets the highest standards of quality and reliability. Whether you're looking for structural steel, stainless steel, or custom solutions, we are here to support your projects with excellence and precision.

## Using S3 Bucket:

The screenshot shows the AWS Management Console search results for 'S3'. The search bar at the top has 'S3' typed into it. On the left, there's a sidebar with 'Services (8)' expanded, showing 'Features (39)', 'Resources New', 'Documentation (27,052)', 'Knowledge Articles (288)', 'Marketplace (1,893)', 'Blogs (1,428)', 'Events (26)', and 'Tutorials (12)'. The main content area is titled 'Search results for 'S3'' and shows 'Services' and 'Features' sections. The 'Services' section highlights 'S3' (Scalable Storage in the Cloud), 'S3 Glacier' (Archive Storage in the Cloud), and 'AWS Snow Family' (Large Scale Data Transport). The 'Features' section highlights 'Imports from S3' (DynamoDB feature) and 'Feature spotlight'. A right-hand sidebar shows options like 'to default layout', '+ Add widgets', 'Create application', and 'Region' set to 'Stockholm'.

The screenshot shows the 'Create bucket' wizard. At the top, it says 'Amazon S3 > Buckets > Create bucket'. Below that, it says 'Create bucket [Info](#)'. It states that 'Buckets are containers for data stored in S3.' The 'General configuration' step is shown. Under 'AWS Region', 'Europe (Stockholm) eu-north-1' is selected. Under 'Bucket type', 'General purpose' is selected (indicated by a blue outline). There are two options: 'General purpose' (recommended for most use cases and access patterns) and 'Directory - New' (recommended for low-latency use cases, using only the S3 Express One Zone storage class). The 'Bucket name' field is filled with 'Niraj24'. Below it, it says 'Bucket name must be unique within the global namespace and follow the bucket naming rules. [See rules for bucket naming](#)'. There's also a 'Copy settings from existing bucket - optional' section with a 'Choose bucket' button and a note about the format: 'Format: s3://bucket/prefix'.

**Object Ownership** [Info](#)

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.

Object Ownership  
Bucket owner enforced

### Block Public Access settings for this bucket

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 this bucket and its 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 this bucket 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.

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**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 "niraj24"**  
To upload files and folders, or to configure additional bucket settings, choose [View details](#).

[View details](#) [X](#)

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 (4) [Info](#) [All AWS Regions](#)**

Buckets are containers for data stored in S3.

Name	AWS Region	IAM Access Analyzer	Creation date
<a href="#">cf-templates-1lazs4t4no767-eu-north-1</a>	Europe (Stockholm) eu-north-1	<a href="#">View analyzer for eu-north-1</a>	August 22, 2024, 19:10:55 (UTC+05:30)
<a href="#">codepipeline-eu-north-1-420991496383</a>	Europe (Stockholm) eu-north-1	<a href="#">View analyzer for eu-north-1</a>	August 22, 2024, 19:53:39 (UTC+05:30)
<a href="#">elasticbeanstalk-eu-north-1-147997146975</a>	Europe (Stockholm) eu-north-1	<a href="#">View analyzer for eu-north-1</a>	August 22, 2024, 18:53:00 (UTC+05:30)
<a href="#">niraj24</a>	Europe (Stockholm) eu-north-1	<a href="#">View analyzer for eu-north-1</a>	August 22, 2024, 20:18:55 (UTC+05:30)

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Amazon S3 > Buckets > niraj24 > 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 folder**.

**Files and folders (1 Total, 3.1 KB)**

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

**Destination Info**

Destination  
s3://niraj24

▶ Destination details

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**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	Succeeded	Failed
s3://niraj24	1 file, 3.1 KB (100.00%)	0 files, 0 B (0%)

**Files and folders** Configuration

**Files and folders (1 Total, 3.1 KB)**

Name		Folder	Type	Size	Status	Error
<input type="checkbox"/>	index.html	-	text/html	3.1 KB	<span style="color: green;">Succeeded</span>	-

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Amazon S3 > Buckets > niraj24

**niraj24 Info**

**Objects** Info

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

**Actions** Copy S3 URI Copy URL Download Open Delete Create folder Upload

**Find objects by prefix**

Name	Type	Last modified	Size	Storage class
index.html	html	August 22, 2024, 20:24:20 (UTC+05:30)	3.1 KB	Standard

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The screenshot shows the AWS S3 Object Overview page for the file `index.html` in the bucket `niraj24`. The object was last modified on August 22, 2024, at 20:24:20 UTC+05:30. It has a size of 3.1 KB and is of type html. The object key is `index.html`. The S3 URI is `s3://niraj24/index.html`, and the Amazon Resource Name (ARN) is `arn:aws:s3:::niraj24/index.html`. The Entity tag (Etag) is `d49fc5123e55b943ed46b3a5c19e5d1b`. The Object URL is `https://niraj24.s3.eu-north-1.amazonaws.com/index.html`.

**Object overview**

Owner	S3 URI
f8f6a62f5e39c655bef5fa1089212b5faaf9875299519774d40b647b12045a5	<a href="#">Copy S3 URI</a>
AWS Region	Amazon Resource Name (ARN)
Europe (Stockholm) eu-north-1	<a href="#">arn:aws:s3:::niraj24/index.html</a>
Last modified	Entity tag (Etag)
August 22, 2024, 20:24:20 (UTC+05:30)	<a href="#">d49fc5123e55b943ed46b3a5c19e5d1b</a>
Size	Object URL
3.1 KB	<a href="https://niraj24.s3.eu-north-1.amazonaws.com/index.html">https://niraj24.s3.eu-north-1.amazonaws.com/index.html</a>
Type	
html	
Key	

**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 [?](#)

**Static website hosting**

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

Static website hosting

Disabled

AWS Services Search [Alt+S] Stockholm Niraj017

Amazon S3 > Buckets > niraj24 > Edit static website hosting

## 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](#)

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

Save changes

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AWS Services Search [Alt+S] Stockholm Niraj017

Amazon S3 > Buckets > niraj24

## niraj24 [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 eu-north-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**  
 On  
► Individual Block Public Access settings for this bucket

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The screenshot shows the AWS S3 console with the following details:

- Header:** AWS logo, Services dropdown, Search bar, [Alt+S] keyboard shortcut, and navigation icons for Home, Help, and Sign Out.
- Breadcrumbs:** Bucket navigation path.
- Title:** Edit Block public access (bucket settings) Info
- Section:** **Block public access (bucket settings)**
- Description:** A note explaining that public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. It advises turning on Block all public access for new buckets and objects.
- Setting:**  **Block all public access**. A note states that turning this setting on is the same as turning on all four settings below.
- Sub-options:**
  - Block public access to buckets and objects granted through new access control lists (ACLs)**: Notes that 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.
  - Block public access to buckets and objects granted through any access control lists (ACLS)**: Notes that 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**: Notes that S3 will block new bucket and access point policies that grant public access to buckets and objects.
  - Block public and cross-account access to buckets and objects through any public bucket or access point policies**: Notes that S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.
- Buttons:** Cancel and Save changes.

The screenshot shows a modal dialog titled "Edit Block public access (bucket settings)". Inside the dialog, there is a warning message in a yellow box: "⚠️ Updating the Block Public Access settings for this bucket will affect this bucket and all objects within. This may result in some objects becoming public." Below the warning, instructions say "To confirm the settings, enter *confirm* in the field." A text input field contains the word "confirm". At the bottom right are two buttons: "Cancel" and "Confirm", with "Confirm" being highlighted in orange.

Object Ownership	Info	Edit
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.		
Object Ownership		
Bucket owner enforced		
ACLs are disabled. All objects in this bucket are owned by this account. Access to this bucket and its objects is specified using only policies.		

**Edit Object Ownership** [Info](#)

**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**

**Bucket owner preferred**  
If new objects written to this bucket specify the bucket-owner-full-control canned ACL, they are owned by the bucket owner. Otherwise, they are owned by the object writer.

**Object writer**  
The object writer remains the object owner.

**If you want to enforce object ownership for new objects only, your bucket policy must specify that the bucket-owner-full-control canned ACL is required for object uploads.** [Learn more](#)

[Cancel](#) [Save changes](#)

**Amazon S3** > **Buckets** > **niraj24**

**niraj24** [Info](#)

[Objects](#) [Properties](#) [Permissions](#) [Metrics](#) [Management](#) [Access Points](#)

**Objects (1) Info**

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you

[Find objects by prefix](#)

<input checked="" type="checkbox"/>	Name	Type	Last modified	Size
<input checked="" type="checkbox"/>	<a href="#">index.html</a>	html	August 22, 2024, 20:24:20 (UTC+05:30)	3.1 KB

**Actions** [Upload](#)

Share with a presigned URL [Learn more](#)

Calculate total size

Copy

Move

Initiate restore

Query with S3 Select

Edit actions

Rename object

Edit storage class

Edit server-side encryption

Edit metadata

Edit tags

Make public using ACL

**Amazon S3** > **Buckets** > **niraj24** > **Make public**

**Make public** [Info](#)

The make public action enables public read access in the object access control list (ACL) settings. [Learn more](#).

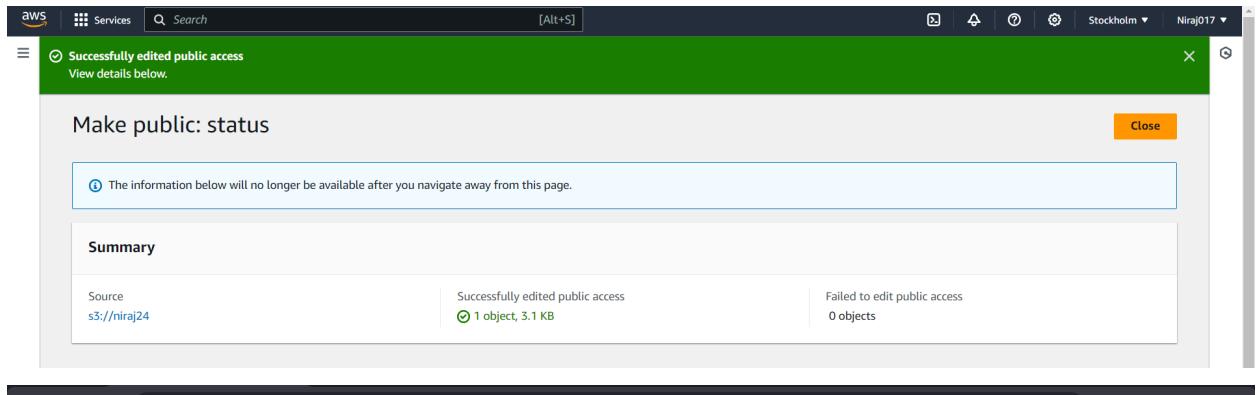
**When public read access is enabled and not blocked by Block Public Access settings, anyone in the world can access the specified objects.**

**Specified objects**

[Find objects by name](#)

Name	Type	Last modified	Size
<a href="#">index.html</a>	html	August 22, 2024, 20:24:20 (UTC+05:30)	3.1 KB

[Cancel](#) [Make public](#)



## Order Your Customized T-Shirt

T-Shirt Customization-

Tagline on the Shirt:

Color:

Size:

Quantity:

Delivery Date:

Delivery Details

Recipient's Name:

Address:

Email:

Phone Number:  Format: 1234567890

Additional Comments: