

# ADVANCE DEVOPS EXP-2

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D15A/50

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:

**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.

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

**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) ▼

## 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

## 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

#### Service role name

Enter the name for an IAM role that Elastic Beanstalk will create to assume as a service role. Beanstalk will attach the required managed policies to it.

[View permission details](#)

#### EC2 key pair

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



#### 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](#)[Next](#)

## Codepipeline:

### 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**

**i** 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.

**Service role**

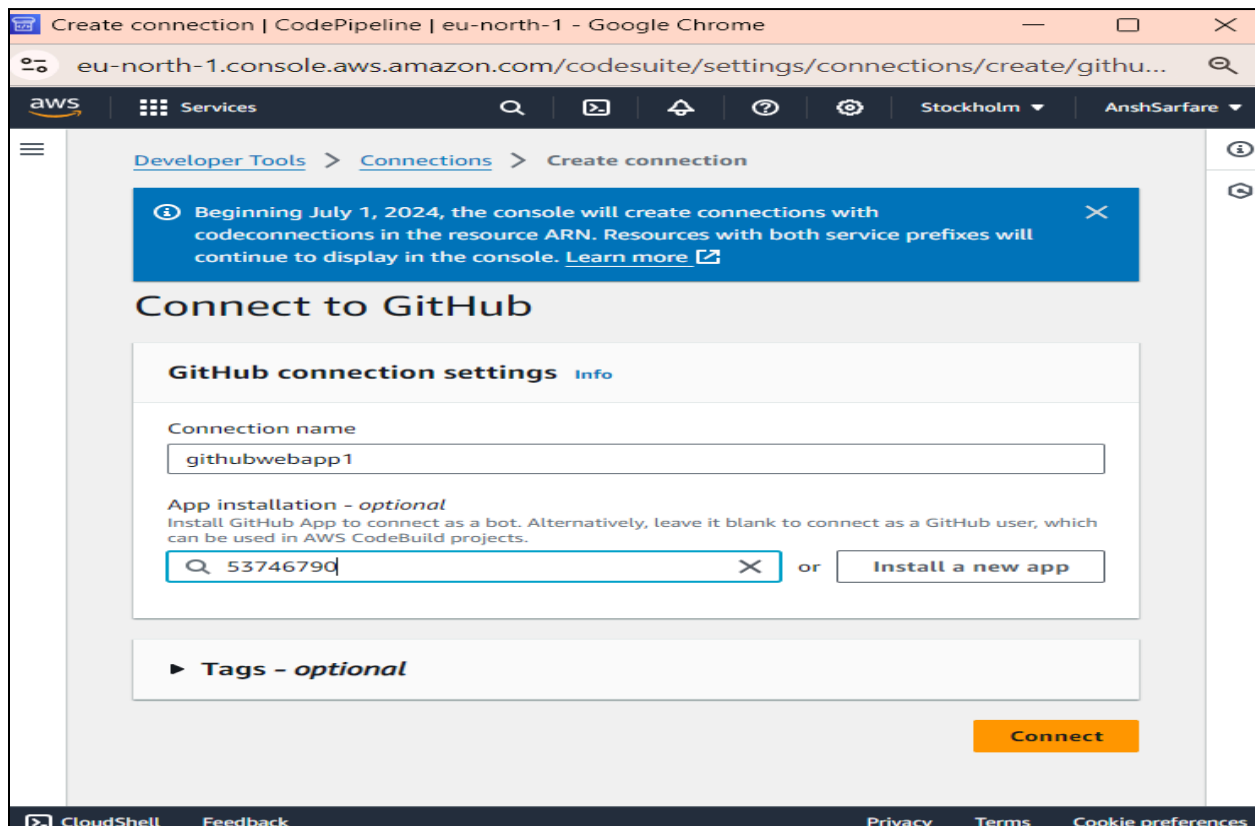
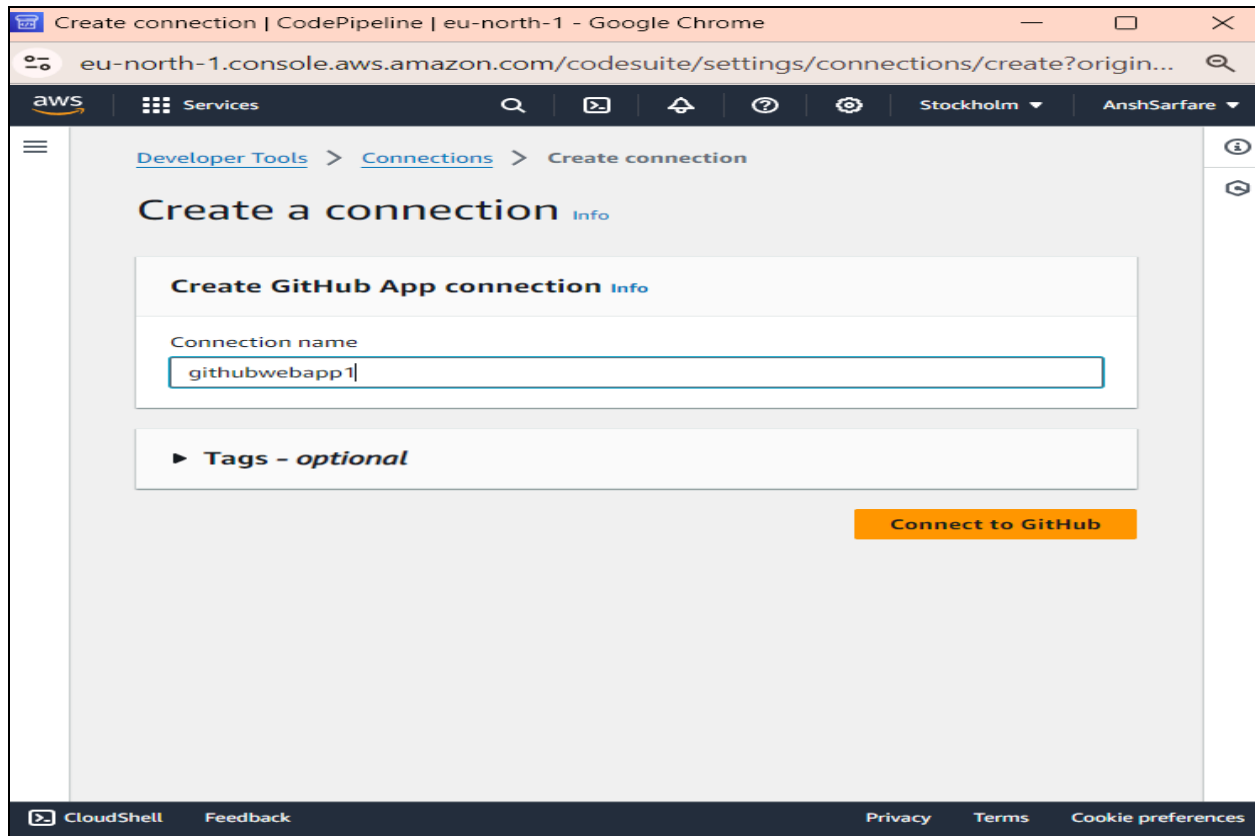
☒ New service role  
Create a service role in your account

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

**Role name**

Type your service role name

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



## 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-1:011528263675:connection/3ff01730-e1 X

or

Connect to GitHub



#### Ready to connect

Your GitHub connection is ready for use.

### Repository name

Choose a repository in your GitHub account.

🔍 Ansh476/aws-codepipeline-s3-codedeploy-linux-2.0 X

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 X

### 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.

## Trigger

### Trigger type

Choose the trigger type that starts your pipeline.

- ☒ **No filter**  
Starts your pipeline on any push and clones the HEAD.
- ☐ **Specify filter**  
Starts your pipeline on a specific filter and clones the exact commit. Pipeline type V2 is required.
- ☐ **Do not detect changes**  
Don't automatically trigger the pipeline.

## 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](#) 

SourceArtifact ▼

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.

Q anshbeanwebapp X

### 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.

Q Anshbeanwebapp-env X

☐ Configure automatic rollback on stage failure

anshpipeline

Notify

Edit

Stop execution

Clone pipeline

Release change

Pipeline type: V2   Execution mode: QUEUED

Source   Succeeded

Pipeline execution ID: 9752de3e-526c-4b2b-b19a-41aa6526a5d8

Source

[GitHub \(Version 2\)](#)

Succeeded - 5 days ago

[8fd5da54](#)

View details

[8fd5da54](#) Source: Update README.md

Disable transition

Deploy   Succeeded

Pipeline execution ID: 9752de3e-526c-4b2b-b19a-41aa6526a5d8

Deploy

[AWS Elastic Beanstalk](#)

Succeeded - 5 days ago

[8fd5da54](#)

View details

[8fd5da54](#) Source: Update README.md

Start rollback

← → ↻ ⚠ Not secure anshbeanwebapp-env-eba-gxhsu23s.eu-north-1.elasticbeanstalk.com ☆ 📄 ⬇ A ⋮

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:

## 1.Create Bucket

✔ Successfully created bucket "anshawsbucketweb"  
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

[View Storage Lens dashboard](#)

Storage lens provides visibility into storage usage and activity trends. [Learn more](#)

General purpose buckets | Directory buckets

General purpose buckets (1) Info All AWS Regions

🔄

📄 Copy ARN

Empty

Delete

Create bucket

Buckets are containers for data stored in S3.

🔍 Find buckets by name

< 1 > ⚙️

Name	▲	AWS Region	▼	IAM Access Analyzer	Creation date	▼
<input type="radio"/>		<a href="#">anshawsbucketweb</a>		Europe (Stockholm) eu-north-1	<a href="#">View analyzer for eu-north-1</a>	August 12, 2024, 19:58:11 (UTC+05:30)

## 2.Upload your Files

✔ Upload succeeded  
View details below.

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

Summary

Destination

[s3://anshawsbucketweb](#)

Succeeded

✔ 2 files, 291.5 KB (100.00%)

Failed

⌛ 0 files, 0 B (0%)

Files and folders | Configuration

Files and folders (2 Total, 291.5 KB)

🔍 Find by name

< 1 >

Name	Folder	▼	Type	▼	Size	▼	Status	▼	Error	▼
<a href="#">anshimage1...</a>	<input type="checkbox"/>	-	image/png		289.5 KB		✔ Succeeded		-	
<a href="#">portfolio.ht...</a>	<input checked="" type="checkbox"/>	-	text/html		2.0 KB		✔ Succeeded		-	

anshawsbucketweb Info

Objects | Properties | Permissions | Metrics | Management | Access Points

Objects (2) Info

🔄

📄 Copy S3 URI

📄 Copy URL

📄 Download

Open

Delete

Actions

Create folder

Upload

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](#)

🔍 Find objects by prefix

< 1 > ⚙️

<input type="checkbox"/>	Name	▲	Type	▼	Last modified	▼	Size	▼	Storage class	▼
<input type="checkbox"/>	<a href="#">anshimage1.png</a>		png		August 12, 2024, 20:01:11 (UTC+05:30)		289.5 KB		Standard	
<input type="checkbox"/>	<a href="#">portfolio.html</a>		html		August 12, 2024, 20:01:12 (UTC+05:30)		2.0 KB		Standard	



### 3. Go to properties and 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](#)

**i** 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.

portfolio.html

Error document - *optional*

This is returned when an error occurs.

error.html

Redirection rules - *optional*

Redirection rules, written in JSON, automatically redirect webpage requests for specific content. [Learn more](#)

### 4. Go to permissions and edit public block access

## 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**  
S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.

CancelSave changes

## 5. Then in permissions enable ACL

### 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.**

**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.

**ℹ️ 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

## 6. Select your files and in actions click on make public using ACL

aws

Services

Search

[Alt+S]

Stockholm

AnshSarfare

Amazon S3

Buckets

anshawsbucketweb

Info

Objects

Properties

Permissions

Metrics

Management

Access Points

**Objects (2)** Info

Copy

Copy S3 URI

Copy URL

Download

Open

Delete

Actions

Create folder

Upload

Find objects by prefix

<input checked="" type="checkbox"/>	Name	Type	Last modified	Size
<input checked="" type="checkbox"/>	anshimage1.png	png	August 12, 2024, 20:25:54 (UTC+05:30)	
<input checked="" type="checkbox"/>	portfolio.html	html	August 12, 2024, 20:25:55 (UTC+05:30)	

Download as

Share with a presigned URL

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

7. Then in objects click on html file and copy the object URL

portfolio.html [Info](#)

[Copy S3 URI](#) [Download](#) [Open](#) [Object actions](#)

[Properties](#) [Permissions](#) [Versions](#)

### Object overview


Owner c19d78c24c8d701099979d97012dbd228df0a11f8e0a5673f828bc65a0b687bd	S3 URI <a href="s3://anshawsbucketweb/portfolio.html">s3://anshawsbucketweb/portfolio.html</a>
AWS Region Europe (Stockholm) eu-north-1	Amazon Resource Name (ARN) <a href="arn:aws:s3::anshawsbucketweb/portfolio.html">arn:aws:s3::anshawsbucketweb/portfolio.html</a>
Last modified August 12, 2024, 20:25:55 (UTC+05:30)	Entity tag (Etag) <a href="#">616c53621d1419068effebac79b4d2ff</a>
Size 2.0 KB	Object URL <a href="https://anshawsbucketweb.s3.eu-north-1.amazonaws.com/portfolio.html">https://anshawsbucketweb.s3.eu-north-1.amazonaws.com/portfolio.html</a>
Type html	
Key <a href="#">portfolio.html</a>	

Hosted website:

[←](#) [→](#) [↻](#) [🔍](#) anshawsbucketweb.s3.eu-north-1.amazonaws.com/portfolio.html

# ANSH SARFARE

i love to travel



## Education

1. 10th satndard(SSC) :92%
2. 12th satndard(HSC) :88%

## Hobbies

- study
- football

## Skills

- Phython, Java  
C , cpp
- excel,word

## Contact

- Email: anshsarfare16@gmail.com
- [Linkedin](#)

## Using EC2:

Instances (1/2) [Info](#)

All states ▼ < 1 > ⚙

<input type="checkbox"/>	Name <a href="#">↗</a> ▼	Instance ID	Instance state ▼	Instance type ▼	Status check	Alarm status	Availability Zone ▼	Public IPv4 DNS	Public
<input type="checkbox"/>	dynamicserver	i-0d5cfd31fc521b834	Terminated <a href="#">🔍</a> <a href="#">🔍</a>	t3.micro	-	<a href="#">View alarms +</a>	eu-north-1b	-	-
<input checked="" type="checkbox"/>	dynamicserver	i-060bd19327c421352	Running <a href="#">🔍</a> <a href="#">🔍</a>	t3.micro	2/2 checks passed	<a href="#">View alarms +</a>	eu-north-1b	ec2-13-48-194-71.eu-n...	13.48

**i-060bd19327c421352 (dynamicserver)** ⚙ ✕

[Details](#) | [Status and alarms](#) | [Monitoring](#) | [Security](#) | [Networking](#) | [Storage](#) | [Tags](#)

▼ Instance summary [Info](#)

Instance ID <a href="#">📄</a> i-060bd19327c421352 (dynamicserver)	Public IPv4 address <a href="#">📄</a> 13.48.194.71   <a href="#">open address 🔗</a>	Private IPv4 addresses <a href="#">📄</a> 172.31.40.251
--	--	---

```
ubuntu@ip-172-31-33-138:~$ pwd
/home/ubuntu
ubuntu@ip-172-31-33-138:~$ mkdir ansh
ubuntu@ip-172-31-33-138:~$ cd ansh
ubuntu@ip-172-31-33-138:~/ansh$ git clone https://github.com/Ansh476/instademo.git
Cloning into 'instademo'...
remote: Enumerating objects: 54, done.
remote: Counting objects: 100% (54/54), done.
remote: Compressing objects: 100% (46/46), done.
remote: Total 54 (delta 19), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (54/54), 23.02 KiB | 1.15 MiB/s, done.
Resolving deltas: 100% (19/19), done.
ubuntu@ip-172-31-33-138:~/ansh$ ls
instademo
ubuntu@ip-172-31-33-138:~/ansh$ cd instademo
ubuntu@ip-172-31-33-138:~/ansh/instademo$ ls
data.json index.js package-lock.json package.json public views
ubuntu@ip-172-31-33-138:~/ansh/instademo$
```

```

ubuntu@ip-172-31-40-251:~/ansh/instademo$ npm i
added 80 packages, and audited 81 packages in 2s

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

found 0 vulnerabilities
ubuntu@ip-172-31-40-251:~/ansh/instademo$ npm start

> ejs@1.0.0 start
> nodemon index.js

sh: 1: nodemon: not found
ubuntu@ip-172-31-40-251:~/ansh/instademo$ sudo npm install -g nodemon

added 29 packages in 2s

4 packages are looking for funding
  run `npm fund` for details
ubuntu@ip-172-31-40-251:~/ansh/instademo$ npm start

> ejs@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`
listening on port3000

```

sg-02a26d0d2b6d80388 - launch-wizard-6 Actions ▾

Details

Security group name launch-wizard-6	Security group ID sg-02a26d0d2b6d80388	Description launch-wizard-6 created 2024-08-12T17:22:34.418Z	VPC ID vpc-0246aa0b2b4afcc38 <a href="#">🔗</a>
Owner 011528263675	Inbound rules count 2 Permission entries	Outbound rules count 1 Permission entry	

Inbound rules
Outbound rules
Tags

Inbound rules (2) 🔄 Manage tags Edit inbound rules

< 1 > ⚙️

<input type="checkbox"/>	Name ▾	Security group rule... ▾	IP version ▾	Type ▾	Protocol ▾	Port range ▾	Source
<input type="checkbox"/>	-	sgr-08f22bc0f9c18bac4	IPv4	SSH	TCP	22	0.0.0.0/0
<input type="checkbox"/>	-	sgr-096339ec3cd5d5e26	IPv4	Custom TCP	TCP	3000	0.0.0.0/0

## this profile belongs to dogs

[Follow](#) [Message](#)

Followers: 75000   Following: 150



Likes: 3000 ; Comments: 41



Likes: 2500 ; Comments: 32



Likes: 500 ; Comments: 6

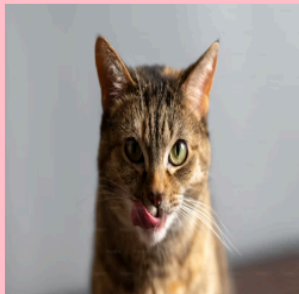
**email:hello@gmail.com**

**Contact: +91 9876543210**

## this profile belongs to cats

[Follow](#) [Message](#)

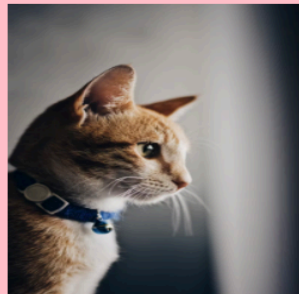
Followers: 25000   Following: 5



Likes: 200 ; Comments: 17



Likes: 312 ; Comments: 19



Likes: 1065 ; Comments: 200

**email:hello@gmail.com**

**Contact: +91 9876543210**