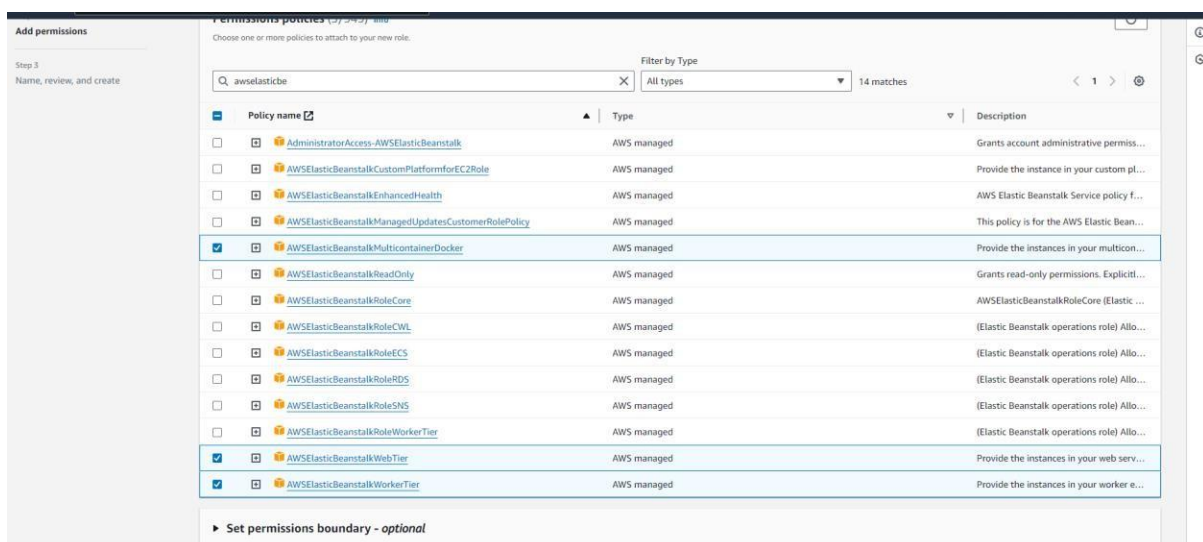
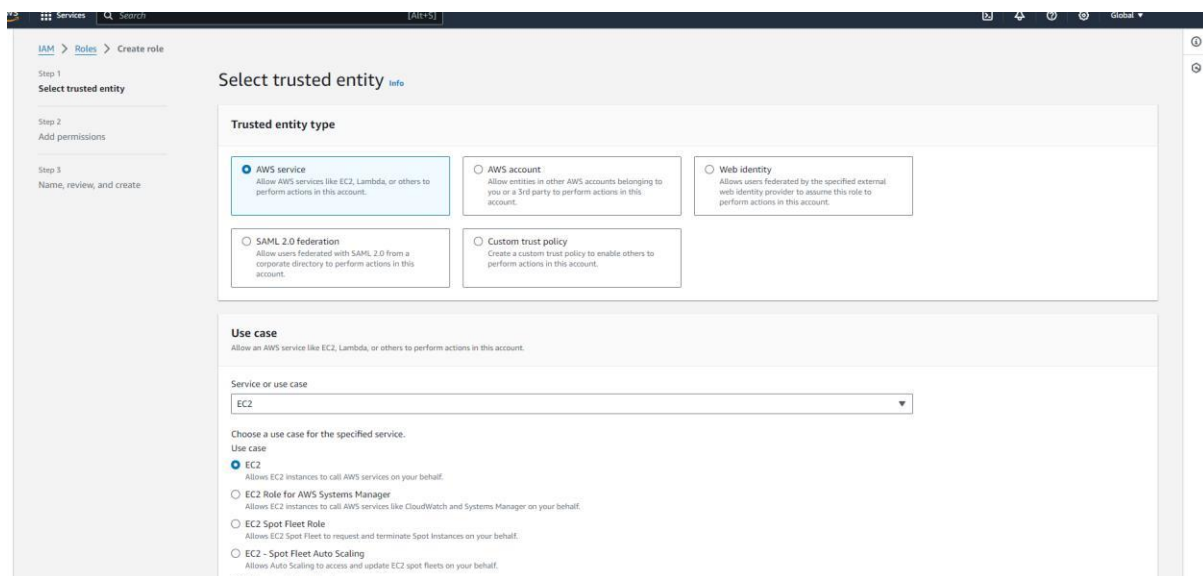
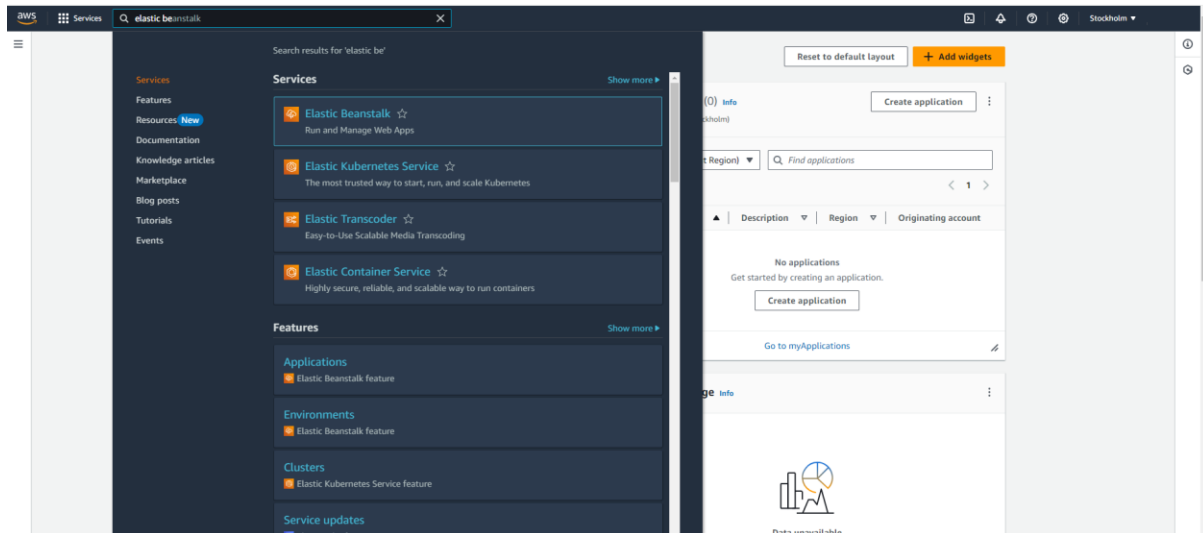


NAME: Ansh Tyagi

SAP ID: 86062300049

Roll No- A070

1) Open Elastic Benstalk



2) Add Details

The screenshot shows the 'Name, review, and create' step of the AWS IAM console. The 'Role name' field is filled with 'nishal'. The 'Description' field contains 'Allows EC2 instances to call AWS services on your behalf.' Below this, the 'Step 1: Select trusted entities' section shows a 'Trust policy' with a JSON snippet:

```
1 {
2   "Version": "2012-10-17",
3   "Statement": [
4     {
5       "Effect": "Allow",
6       "Action": [
7         "sts:AssumeRole"
8       ],
9       "Principal": {
10        "Service": [
11          "ec2.amazonaws.com"
12        ]
13      }
14    ]
15  }
```

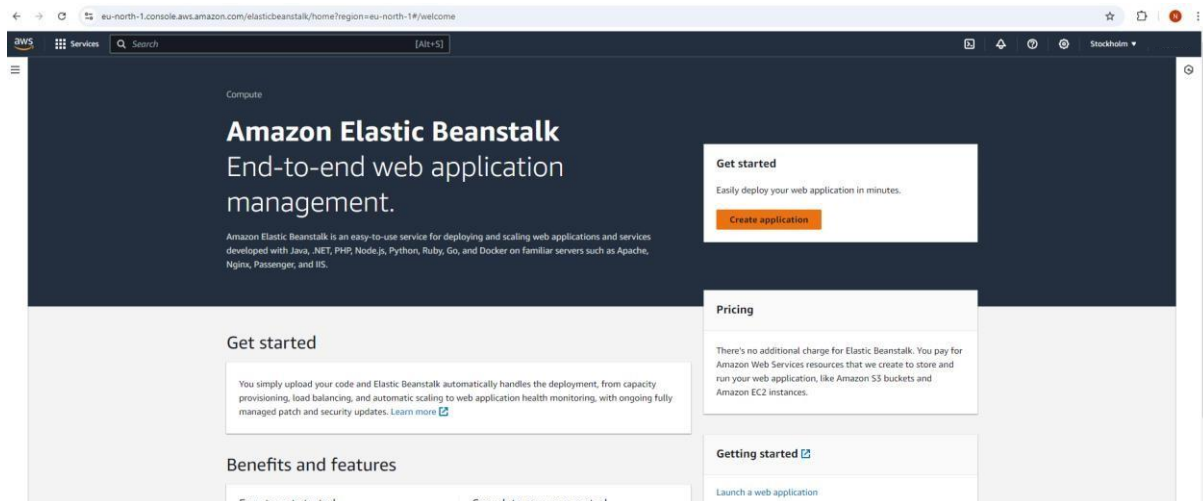
The screenshot shows the AWS IAM console after the role 'nishal' has been created. A green notification bar at the top says 'Role nishal created.' Below this, the 'Roles (3)' section lists the following roles:

Role name	Trusted entities	Last activity
AWSServiceRoleForSupport	AWS Service: support (Service-Linker)	-
AWSServiceRoleForTrustedAdvisor	AWS Service: trustedadvisor (Service-Linker)	-
nishal	AWS Service: ec2	-

Below the table, the 'Roles Anywhere' section is visible, with a 'Manage' button. The left sidebar shows the 'Identity and Access Management (IAM)' navigation menu.

3) Comeback to the Elastic Beanstalk

The screenshot shows the AWS IAM console with a search for 'elasticbeanstalk'. The search results are displayed in a sidebar on the left, showing 'Elastic Beanstalk' as a service. The main content area shows the 'Role nishal created.' notification and the 'Roles (3)' list. The left sidebar also shows the 'Identity and Access Management (IAM)' navigation menu.



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

WebApp

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

WebApp-env

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

Leave blank for autogenerated value

.eu-north-1.elasticbeanstalk.com

Check availability

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

4.1.4 (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

Platform branch

Python 3.11 running on 64bit Amazon Linux 2023

Platform version

4.1.4 (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

Cancel

Next

back

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Services

Search

[Alt+S]

Stockholm

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 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.

aws-elasticbeanstalk-service-role

View permission details

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.

nishat

View permission details

Cancel

Skip to review

Previous

Next

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

Set up networking, database, and tags - *optional*

Virtual Private Cloud (VPC)

VPC
Launch your environment in a custom VPC instead of the default VPC. You can create a VPC and subnets in the VPC management console. [Learn more](#)

vpc-0624ba2dbc4a5a551 [(172.31.0.0/16)]

[Create custom VPC](#)

Instance settings

Choose a subnet in each AZ for the instances that run your application. To avoid exposing your instances to the Internet, run your instances in private subnets and load balancer in public subnets. To run your load balancer and instances in the same public subnets, assign public IP addresses to the instances. [Learn more](#)

Public IP address
Assign a public IP address to the Amazon EC2 instances in your environment.
☐ Activated

Instance subnets

Filter instance subnets

Availability Zone	Subnet	CIDR	Name
<input checked="" type="checkbox"/> eu-north-1b	subnet-0be6ddee6...	172.31.32.0/20	
<input type="checkbox"/> eu-north-1c	subnet-0c8bbf607...	172.31.0.0/20	
<input type="checkbox"/> eu-north-1a	subnet-0fa1e7f89...	172.31.16.0/20	

Congratulations

Your first AWS Elastic Beanstalk Python Application is now running on your own dedicated environment in the AWS Cloud

This environment is launched with Elastic Beanstalk Python Platform

What's Next?

- [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](#)

Successfully Done

Environment successfully launched.

Elastic Beanstalk > Create application

Create new application info

Application information

Application name

jeril

Maximum length of 100 characters.

Description

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](#)

No tags associated with the resource.

Add new tag

You can add 50 more tags.

Cancel

Create

WS Services Search [Alt+S]

Environment successfully launched.

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

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

jeril

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

Jeril-env

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

Leave blank for autogenerated value

.eu-north-1.elasticbeanstalk.com

Check availability

Environment description

Environment successfully launched.

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 service access

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.

aws-elasticbeanstalk-service-role

View permission details

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.

nishal

View permission details

Cancel

Skip to review

Previous

Next

IWS

Services

Search

[Alt+S]

Stockholm

Elastic Beanstalk

Applications

Environments

Change history

Application: jeril

Application versions

Saved configurations

Environment: Jeril-env

Go to environment

Configuration

Events

Health

Logs

Monitoring

Alarms

Managed updates

Tags

Recent environments

Jeril-env

WebApp-env

Environment successfully launched.

Elastic Beanstalk

Environments

Jeril-env

Jeril-env

Environment overview

Health

Warning

Environment ID

e-myr5kuwq4w

Domain

Jeril-env.eba-ize3vch.eu-north-1.elasticbeanstalk.com

Application name

jeril

Platform

Change version

Platform

Corretto 21 running on 64bit Amazon Linux 2023/4.3.1

Running version

-

Platform state

Supported

Events

Health

Logs

Monitoring

Alarms

Managed updates

Tags

Events (12)

Filter events by text, property or value

Time	Type	Details
September 14, 2024 16:20:43 (UTC+5:30)	INFO	Successfully launched environment: Jeril-env
September 14, 2024 16:20:05 (UTC+5:30)	WARN	Environment health has transitioned from Pending to Warning. Initialization completed 2 seconds ago and took 2 minutes. There are no instances. Unable to assume role "arn:aws:iam::637423438492:role/nishal". Verify that the role exists and is configured correctly.
September 14, 2024 16:20:05 (UTC+5:30)	INFO	Added instance [i-09f80c16766bd2b88] to your environment.

Services

Search

Stockholm

Nahal

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

Tomcat

Platform branch

Tomcat 10 with Corretto 21 running on 64bit Amazon Linux 2023

Platform version

5.3.2 (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.

Version label

Unique name for this version of your application code.

Version label

Source code origin. Maximum size 500 MB

☒ Local file

Upload application

Choose file

Congratulations

Your first AWS Elastic Beanstalk Corretto application is now running on your own dedicated environment in the AWS Cloud

This environment is launched with Elastic Beanstalk Corretto Platform

What's Next?

- [AWS Elastic Beanstalk overview](#)
- [AWS Elastic Beanstalk concepts](#)

Successfully Done