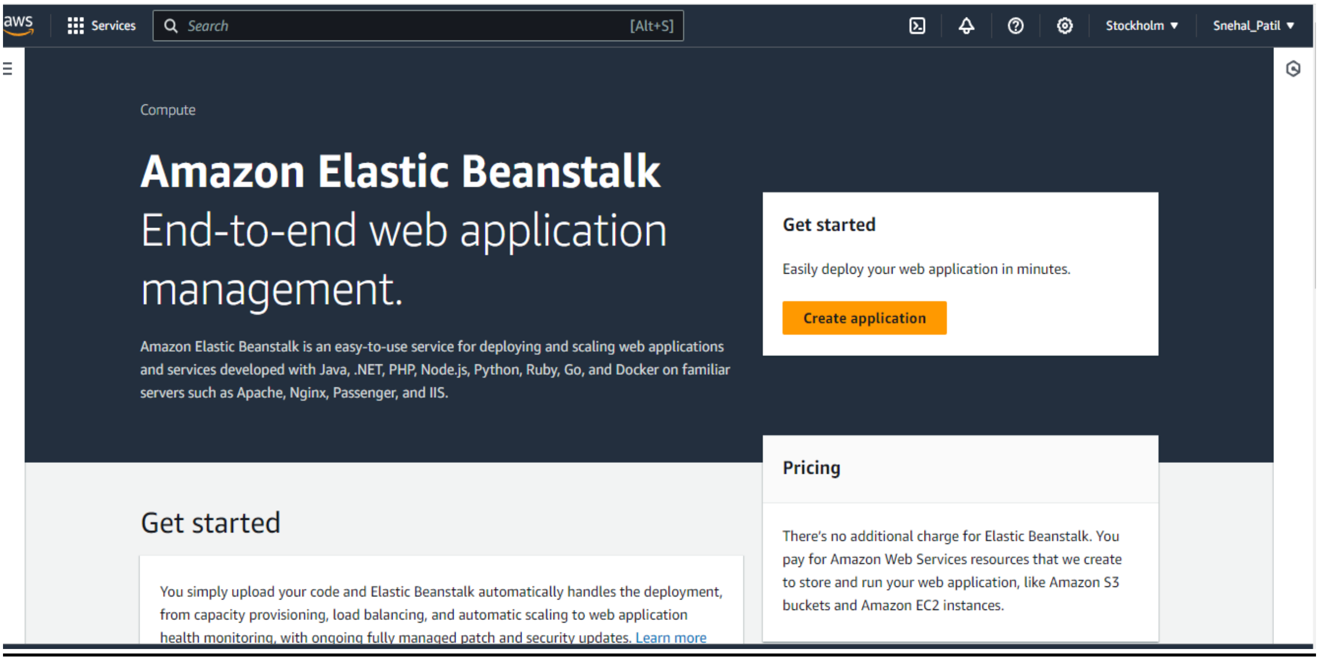
SNEHAL A. PATIL D15A 39

EXPERIMENT NO:2



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.

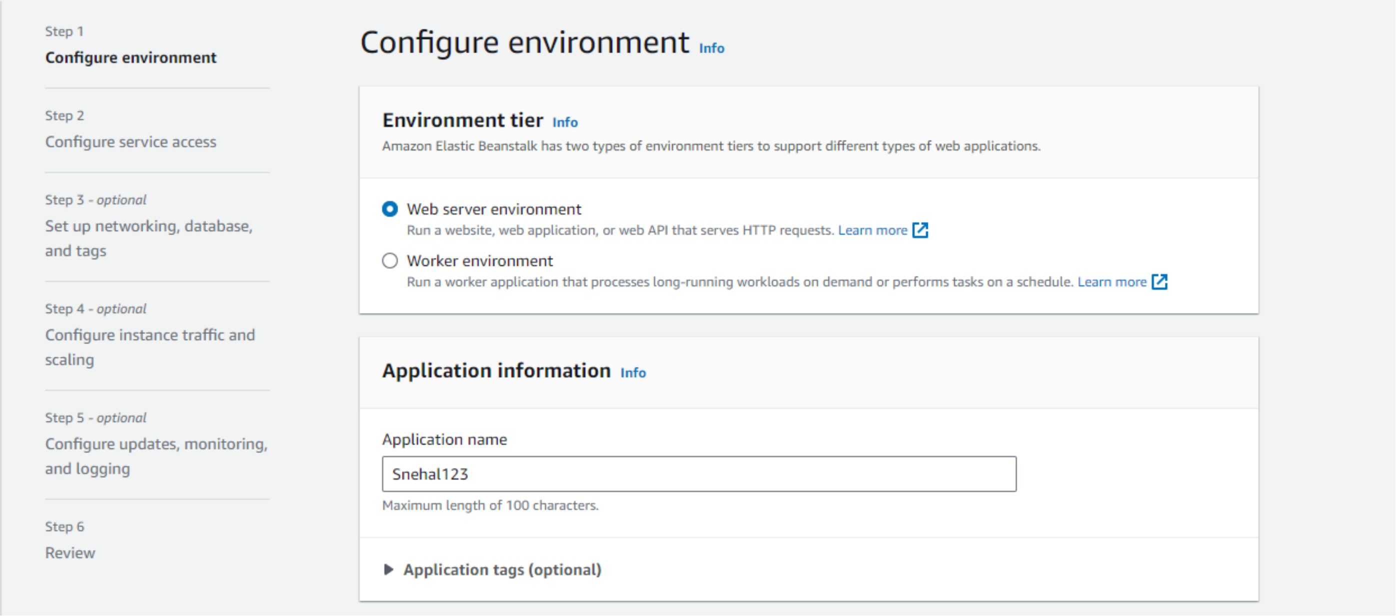
Create application

Pricing

There's no additional charge for Elastic Beanstalk. You pay for Amazon Web Services resources that we create to store and run your web application, like Amazon S3 buckets and Amazon EC2 instances.

Get started

You simply upload your code and Elastic Beanstalk automatically handles the deployment, from capacity provisioning, load balancing, and automatic scaling to web application health monitoring, with ongoing fully managed patch and security updates. Learn more



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

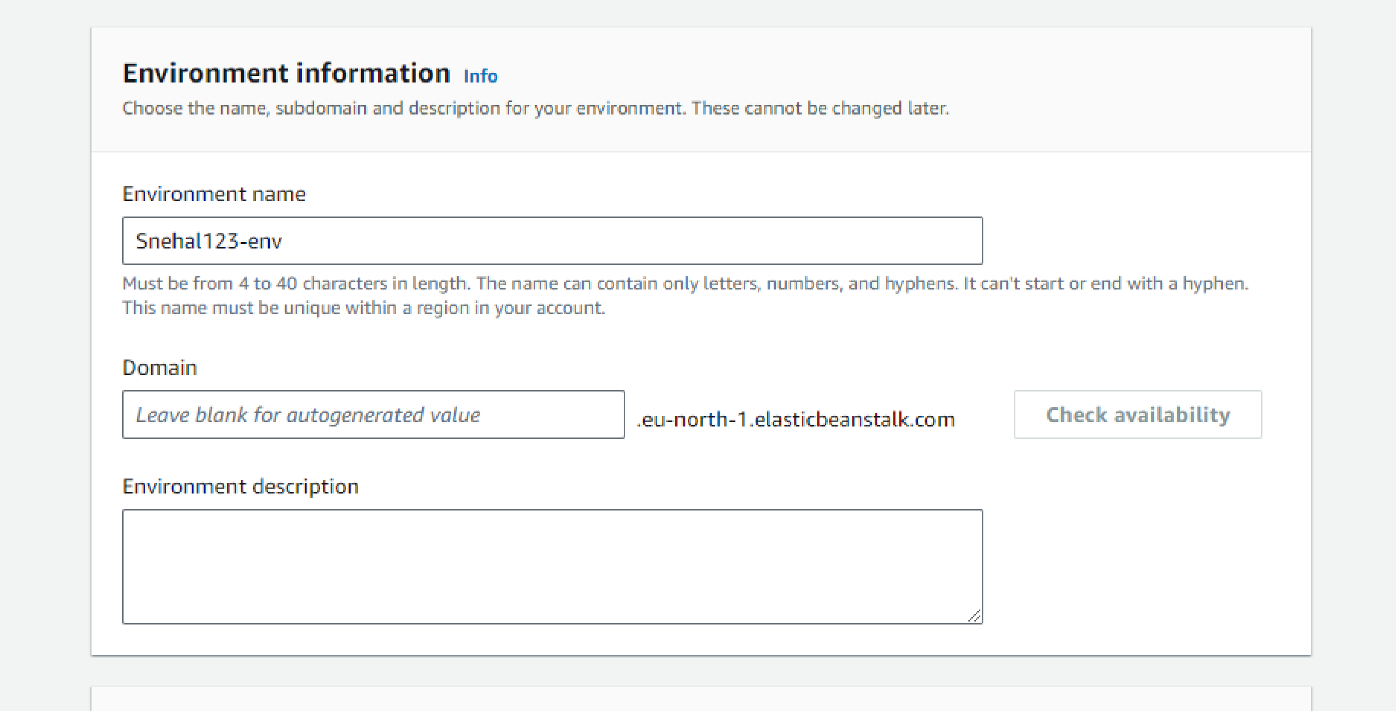
○ Worker environment
Run a worker application that processes long-running workloads on demand or performs tasks on a schedule. Learn more

Application information Info

Application name: Snehal123

Maximum length of 100 characters.

▸ Application tags (optional)



Environment information

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

Environment name

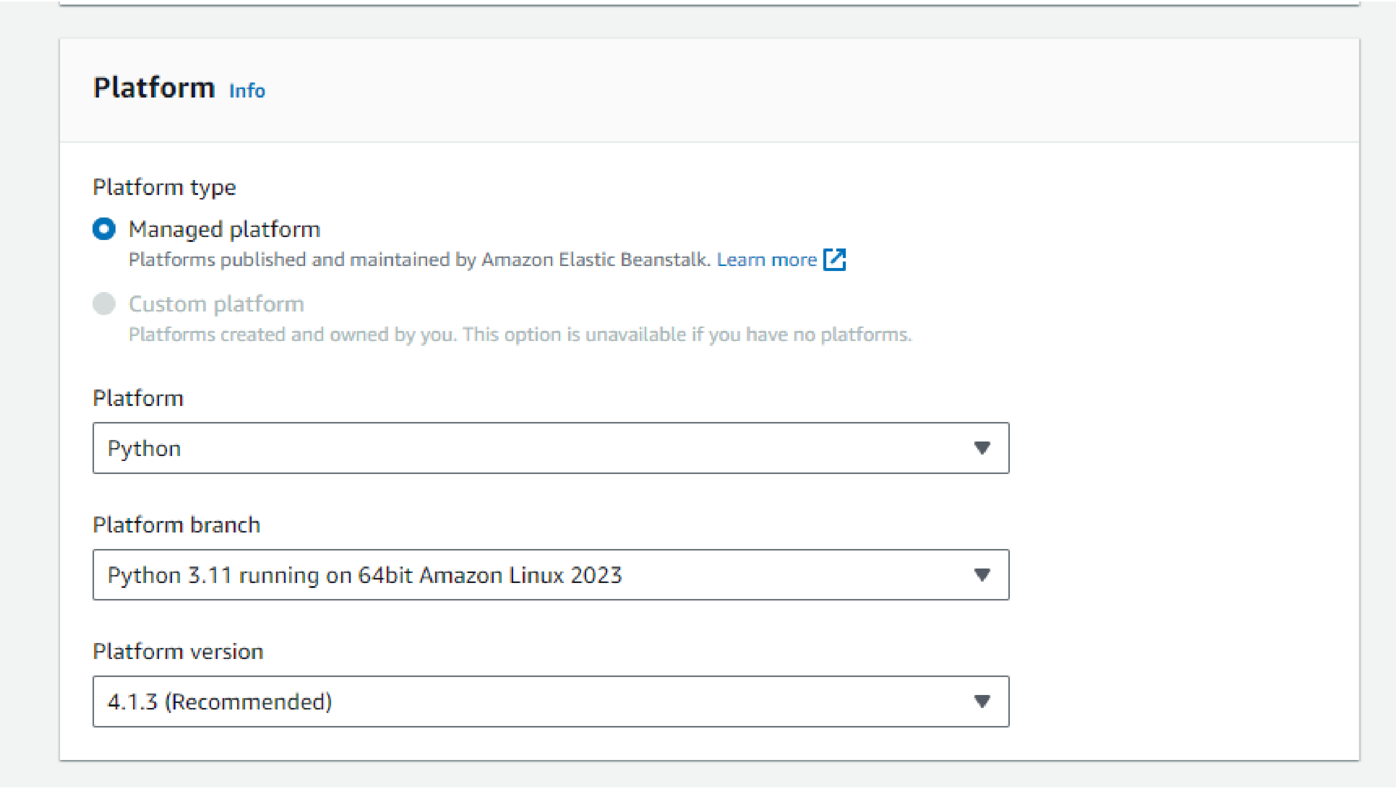
Snehal123-env

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

Environment description



Platform

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

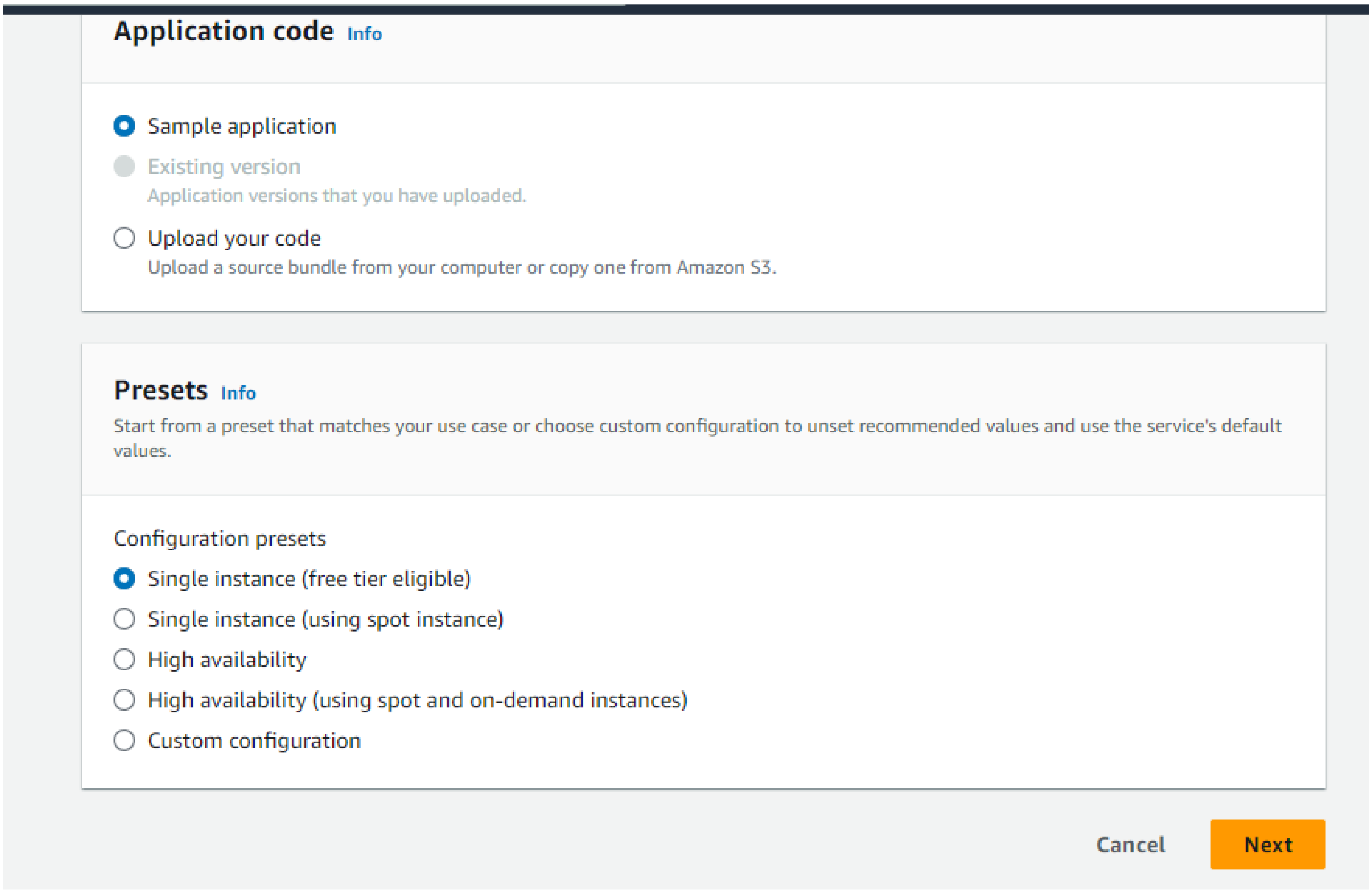
Python ▼

Platform branch

Python 3.11 running on 64bit Amazon Linux 2023 ▼

Platform version

4.1.3 (Recommended) ▼



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

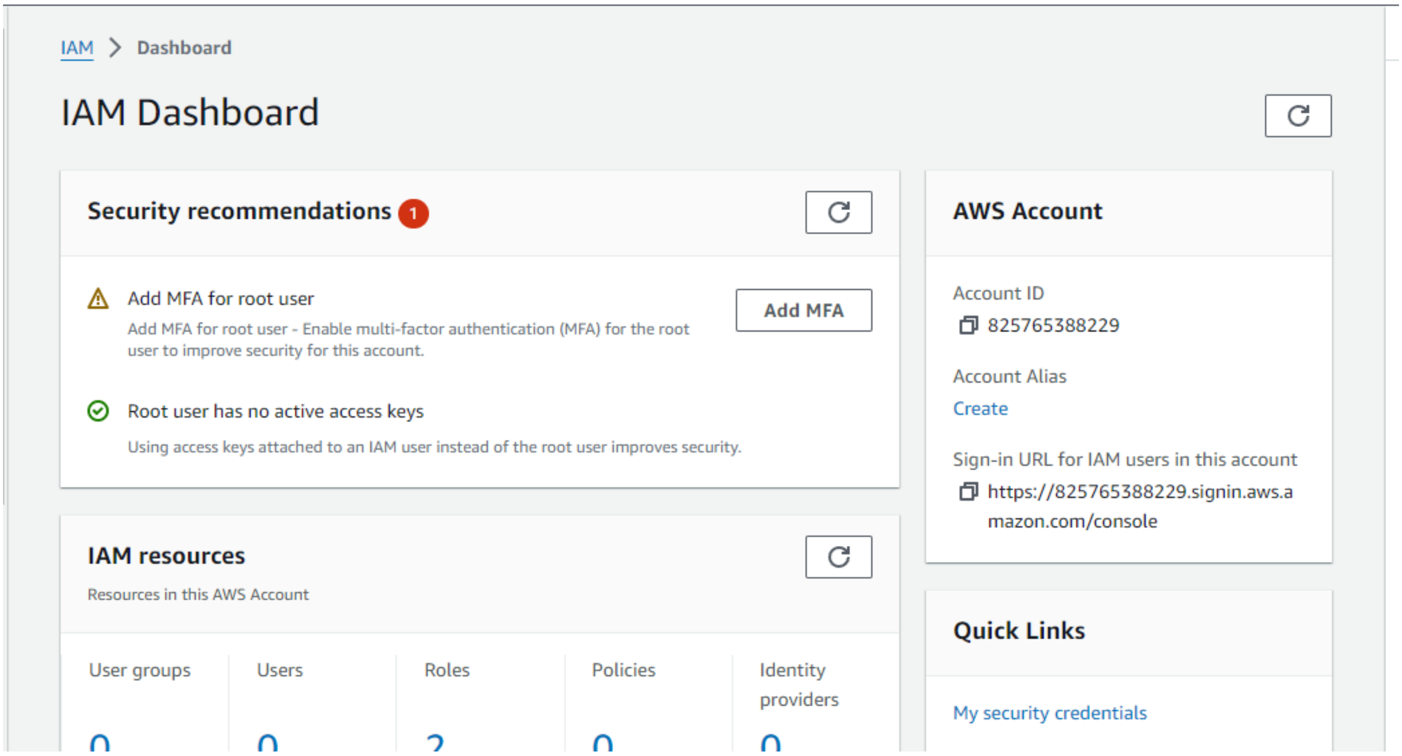
● Single instance (free tier eligible)

○ Single instance (using spot instance)

○ High availability

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

○ Custom configuration



IAM Dashboard

Security recommendations 1

⚠ Add MFA for root user
Add MFA for root user - Enable multi-factor authentication (MFA) for the root user to improve security for this account.

✓ Root user has no active access keys
Using access keys attached to an IAM user instead of the root user improves security.

IAM resources

Resources in this AWS Account

User groups	Users	Roles	Policies	Identity providers
0	0	2	0	0

AWS Account

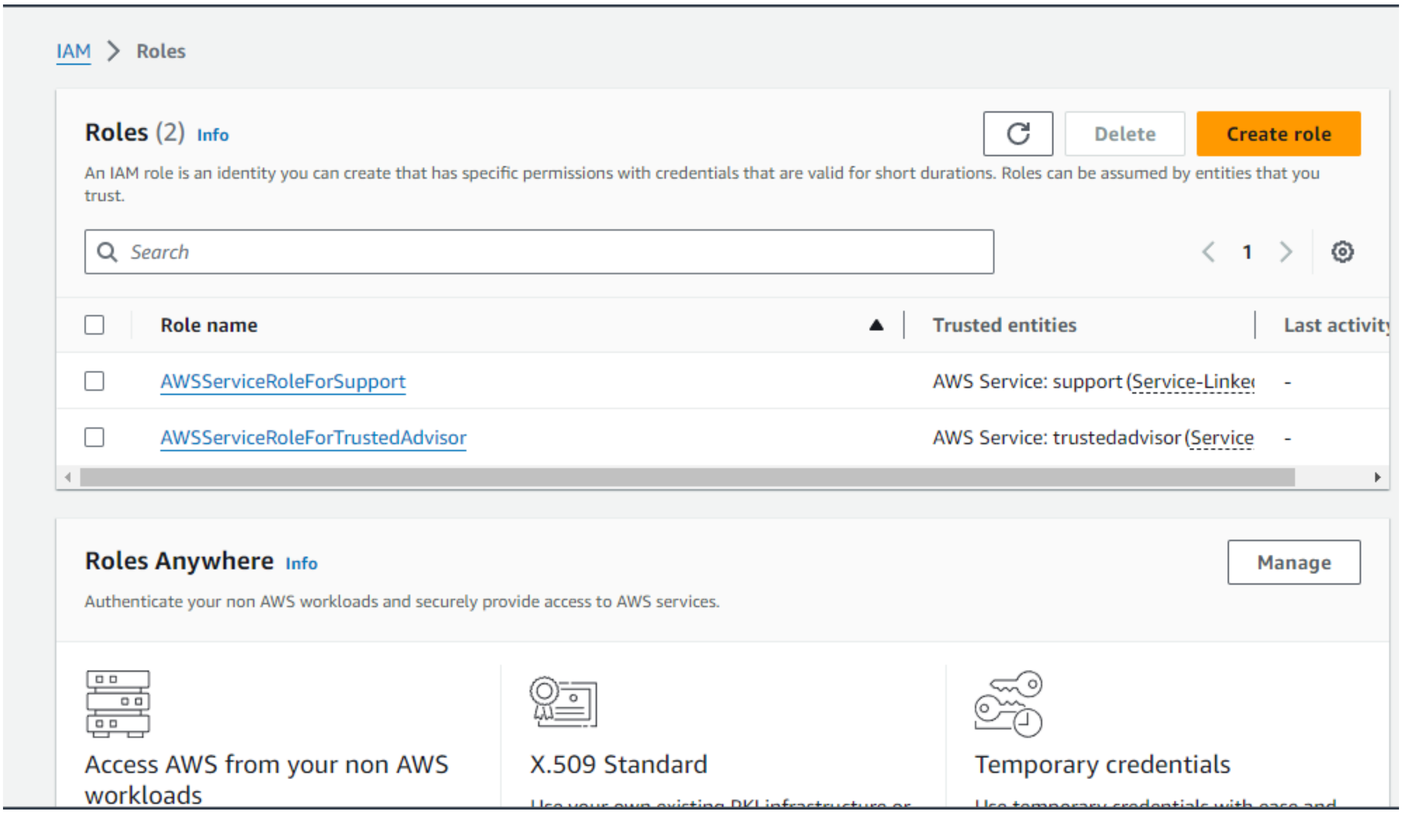
Account ID
825765388229

Account Alias
Create

Sign-in URL for IAM users in this account
https://825765388229.signin.aws.amazon.com/console

Quick Links

My security credentials



IAM > Roles

Roles (2) 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-Linke	-
□	AWSServiceRoleForTrustedAdvisor	AWS Service: trustedadvisor (Service	-

Roles Anywhere Info

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

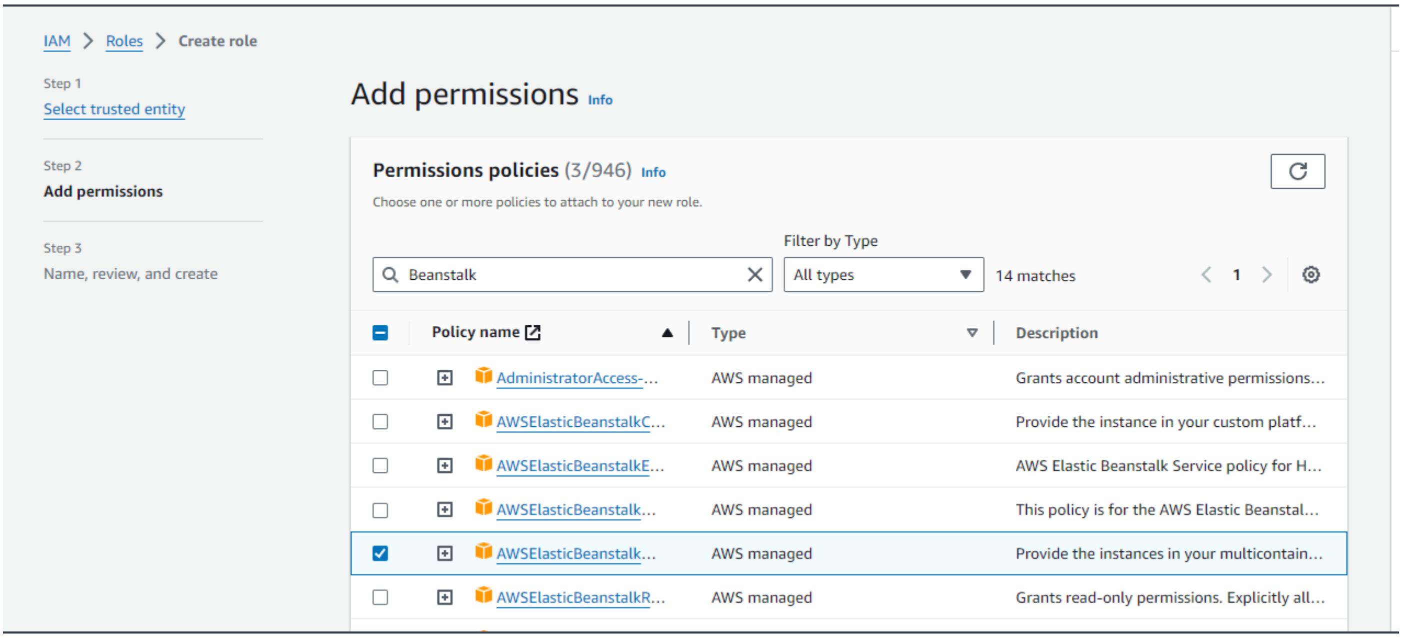
Access AWS from your non AWS workloads

X.509 Standard

Use your own existing PKI infrastructure or

Temporary credentials

Use temporary credentials with ease and



IAM > Roles > Create role

Step 1
Select trusted entity

Step 2
Add permissions

Step 3
Name, review, and create

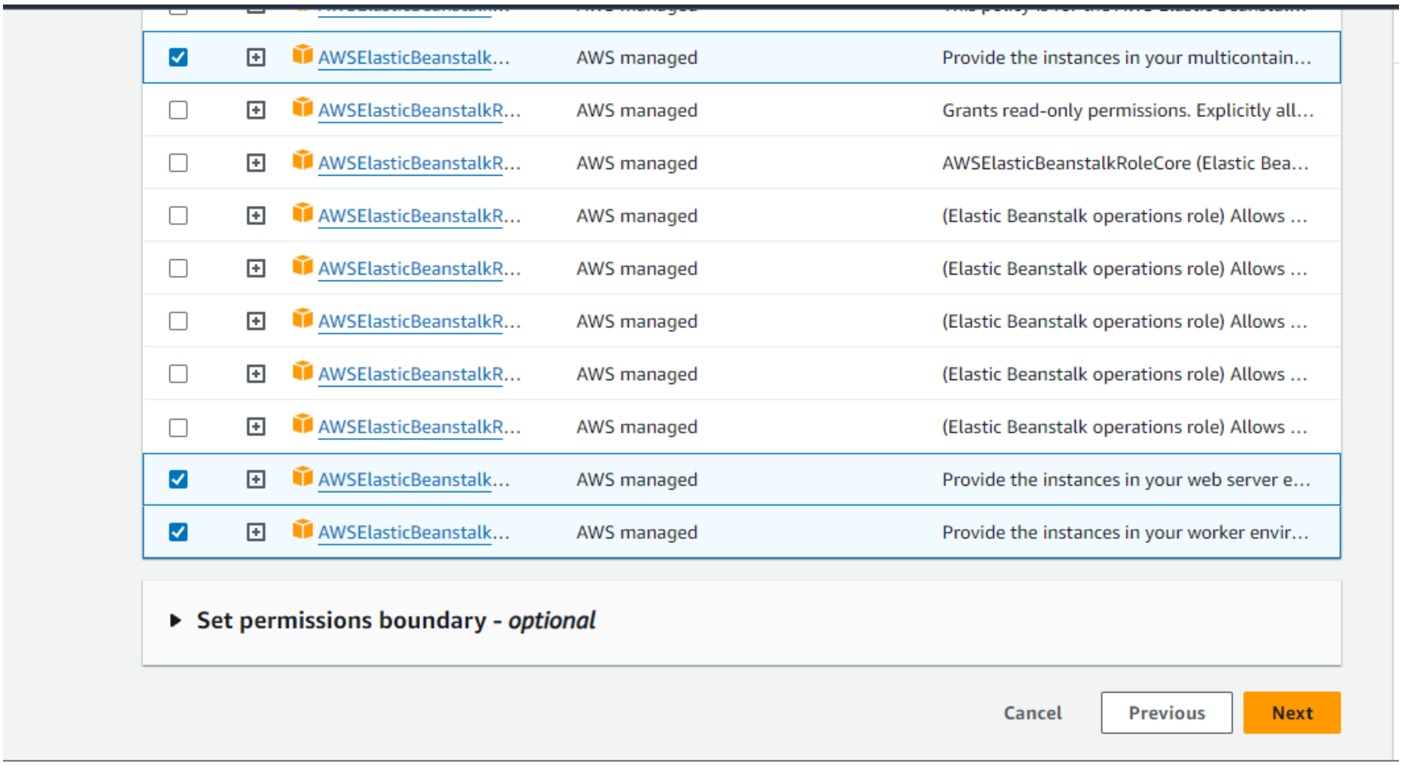
Add permissions Info

Permissions policies (3/946) Info

Choose one or more policies to attach to your new role.

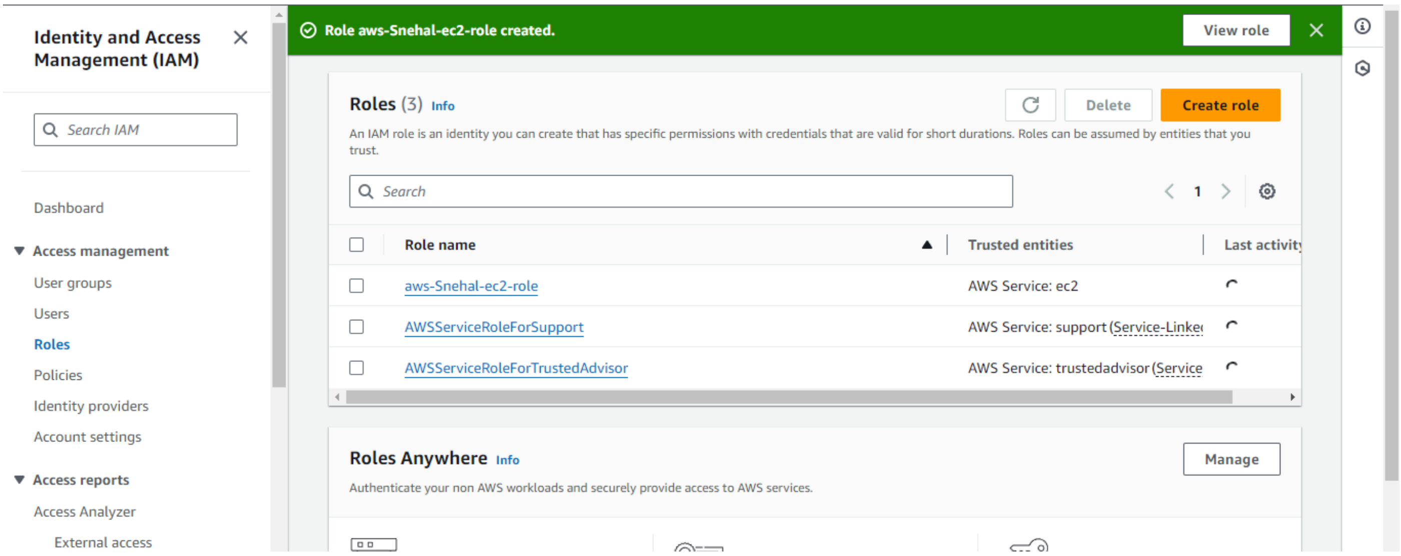
Filter by Type

☐	Policy name ▲	Type	Description
□	AdministratorAccess-...	AWS managed	Grants account administrative permissions...
□	AWSElasticBeanstalkC...	AWS managed	Provide the instance in your custom platf...
□	AWSElasticBeanstalkE...	AWS managed	AWS Elastic Beanstalk Service policy for H...
□	AWSElasticBeanstalk...	AWS managed	This policy is for the AWS Elastic Beanstal...
☑	AWSElasticBeanstalk...	AWS managed	Provide the instances in your multicontain...
□	AWSElasticBeanstalkR...	AWS managed	Grants read-only permissions. Explicitly all...



□	AWSElasticBeanstalk…	AWS managed	This policy is for the AWS Elastic Beanstalk…
☑	AWSElasticBeanstalk…	AWS managed	Provide the instances in your multicontain…
□	AWSElasticBeanstalkR…	AWS managed	Grants read-only permissions. Explicitly all…
□	AWSElasticBeanstalkR…	AWS managed	AWSElasticBeanstalkRoleCore (Elastic Bea…
□	AWSElasticBeanstalkR…	AWS managed	(Elastic Beanstalk operations role) Allows …
□	AWSElasticBeanstalkR…	AWS managed	(Elastic Beanstalk operations role) Allows …
□	AWSElasticBeanstalkR…	AWS managed	(Elastic Beanstalk operations role) Allows …
□	AWSElasticBeanstalkR…	AWS managed	(Elastic Beanstalk operations role) Allows …
□	AWSElasticBeanstalkR…	AWS managed	(Elastic Beanstalk operations role) Allows …
☑	AWSElasticBeanstalk…	AWS managed	Provide the instances in your web server e…
☑	AWSElasticBeanstalk…	AWS managed	Provide the instances in your worker envir…

▸ Set permissions boundary - *optional*



Role aws-Snehal-ec2-role created.

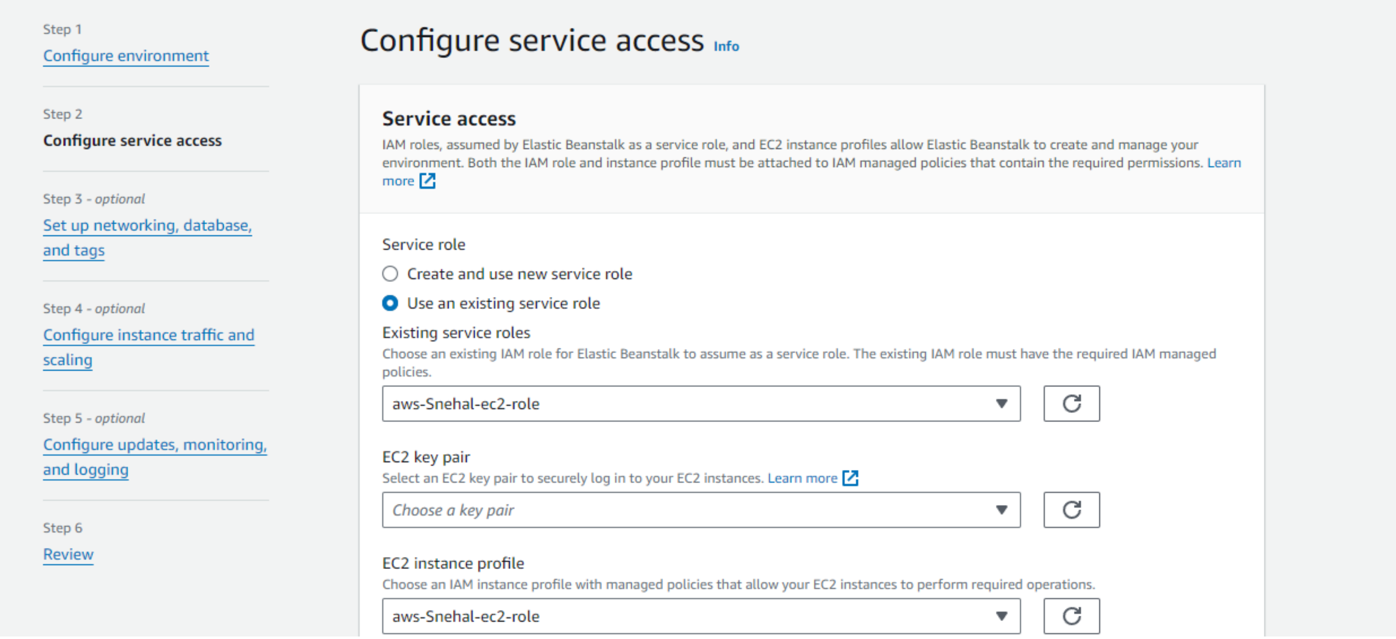
Roles (3) Info

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
□	aws-Snehal-ec2-role	AWS Service: ec2	
□	AWSServiceRoleForSupport	AWS Service: support (Service-Linke	
□	AWSServiceRoleForTrustedAdvisor	AWS Service: trustedadvisor (Service	

Roles Anywhere Info

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



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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

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-Snehal-ec2-role ▼

EC2 key pair

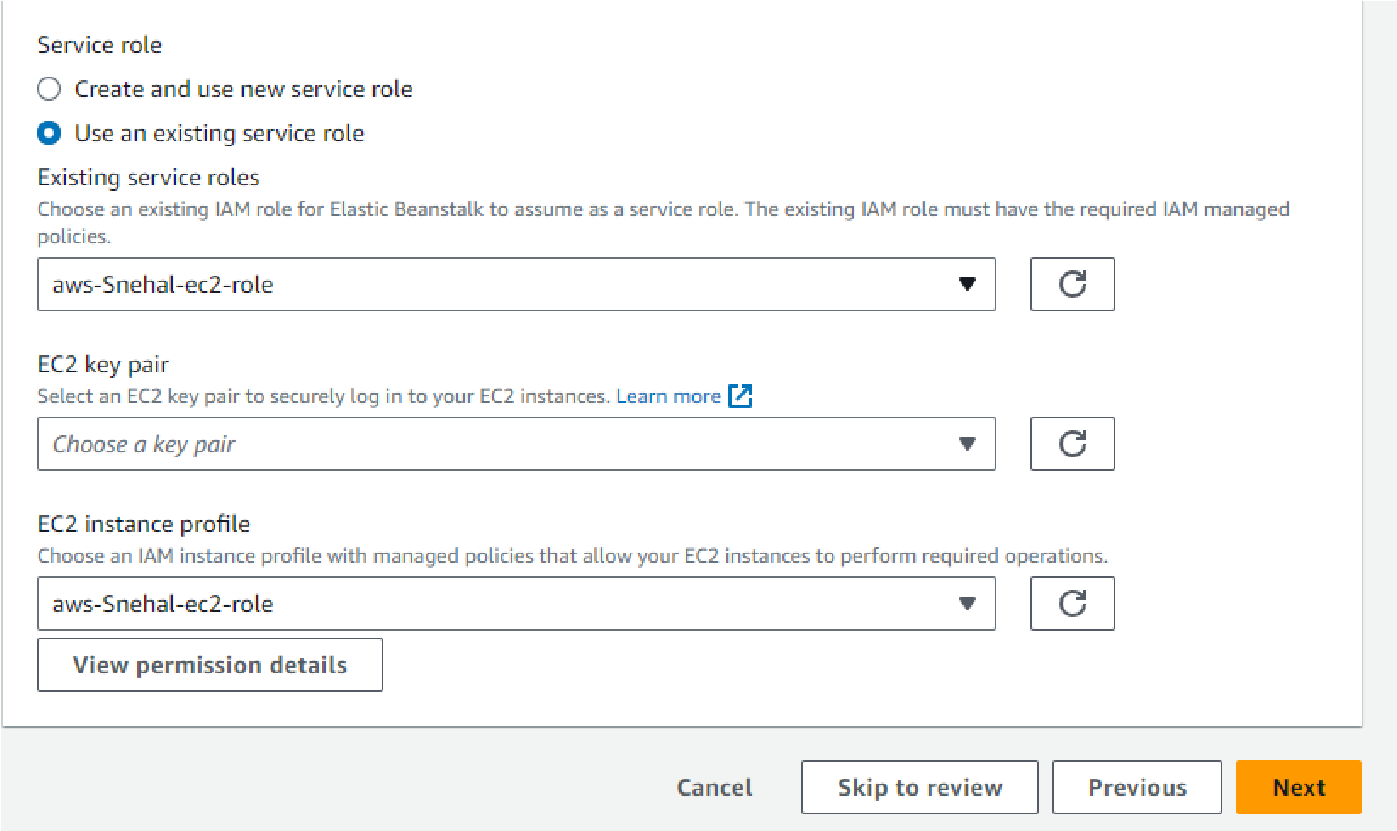
Select an EC2 key pair to securely log in to your EC2 instances. Learn more

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-Snehal-ec2-role ▼



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aws-Snehal-ec2-role ▼

EC2 key pair

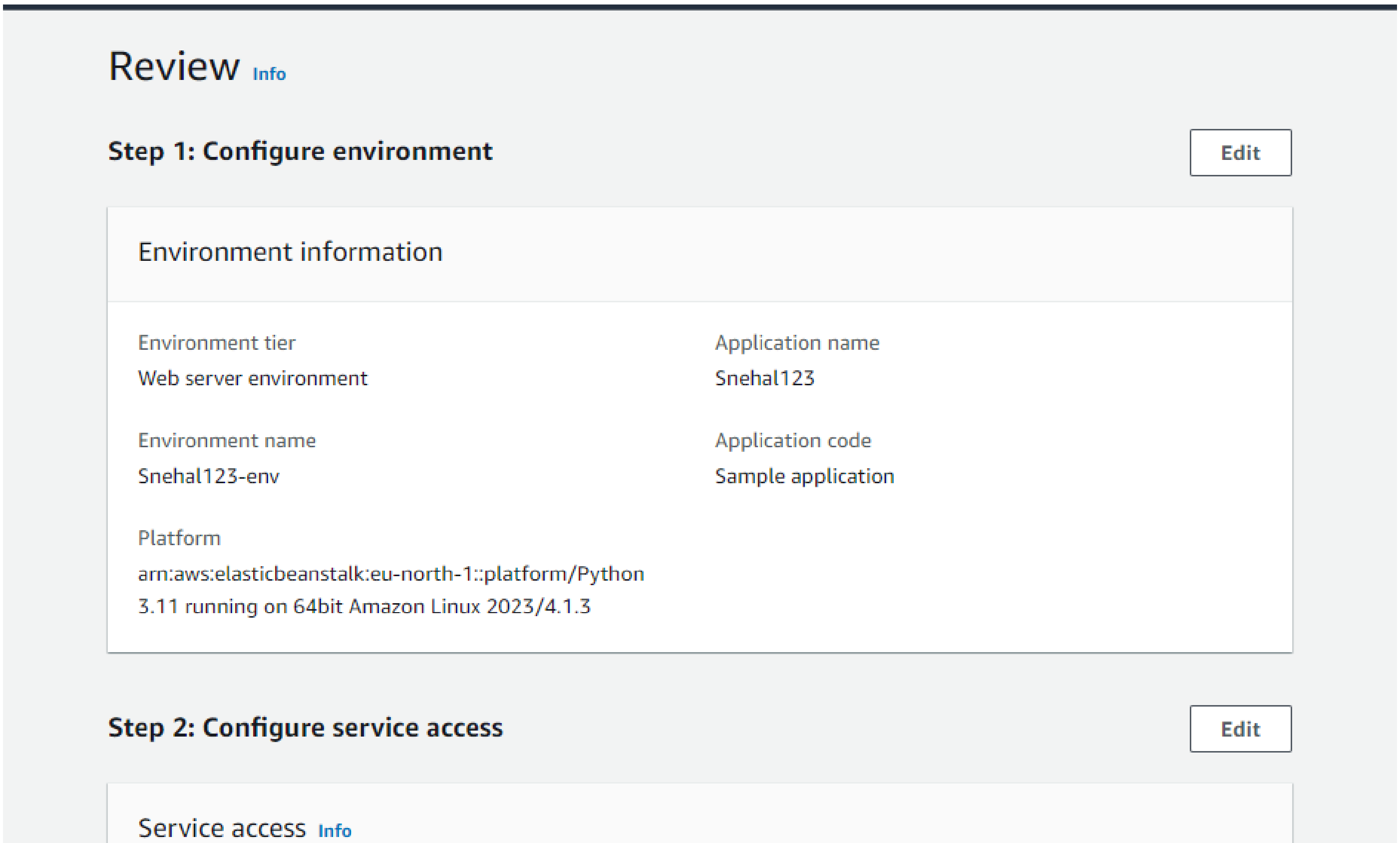
Select an EC2 key pair to securely log in to your EC2 instances. Learn more

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-Snehal-ec2-role ▼



Review Info

Step 1: Configure environment

Environment information

Environment tier
Web server environment

Application name
Snehal123

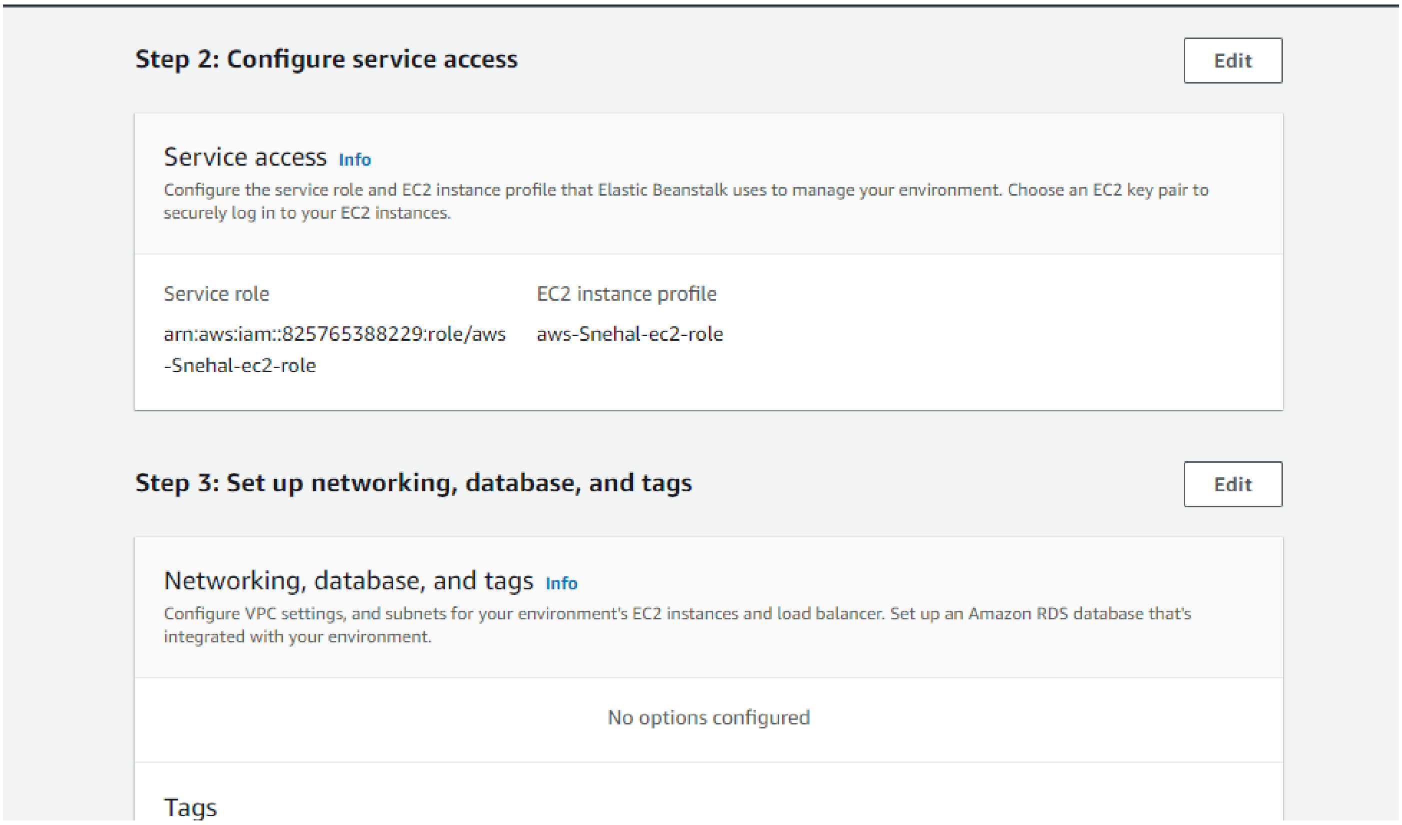
Environment name
Snehal123-env

Application code
Sample application

Platform
arn:aws:elasticbeanstalk:eu-north-1::platform/Python 3.11 running on 64bit Amazon Linux 2023/4.1.3

Step 2: Configure service access

Service access Info



Step 2: Configure service access

Service access Info

Configure the service role and EC2 instance profile that Elastic Beanstalk uses to manage your environment. Choose an EC2 key pair to securely log in to your EC2 instances.

Service role
arn:aws:iam::825765388229:role/aws-Snehal-ec2-role

EC2 instance profile
aws-Snehal-ec2-role

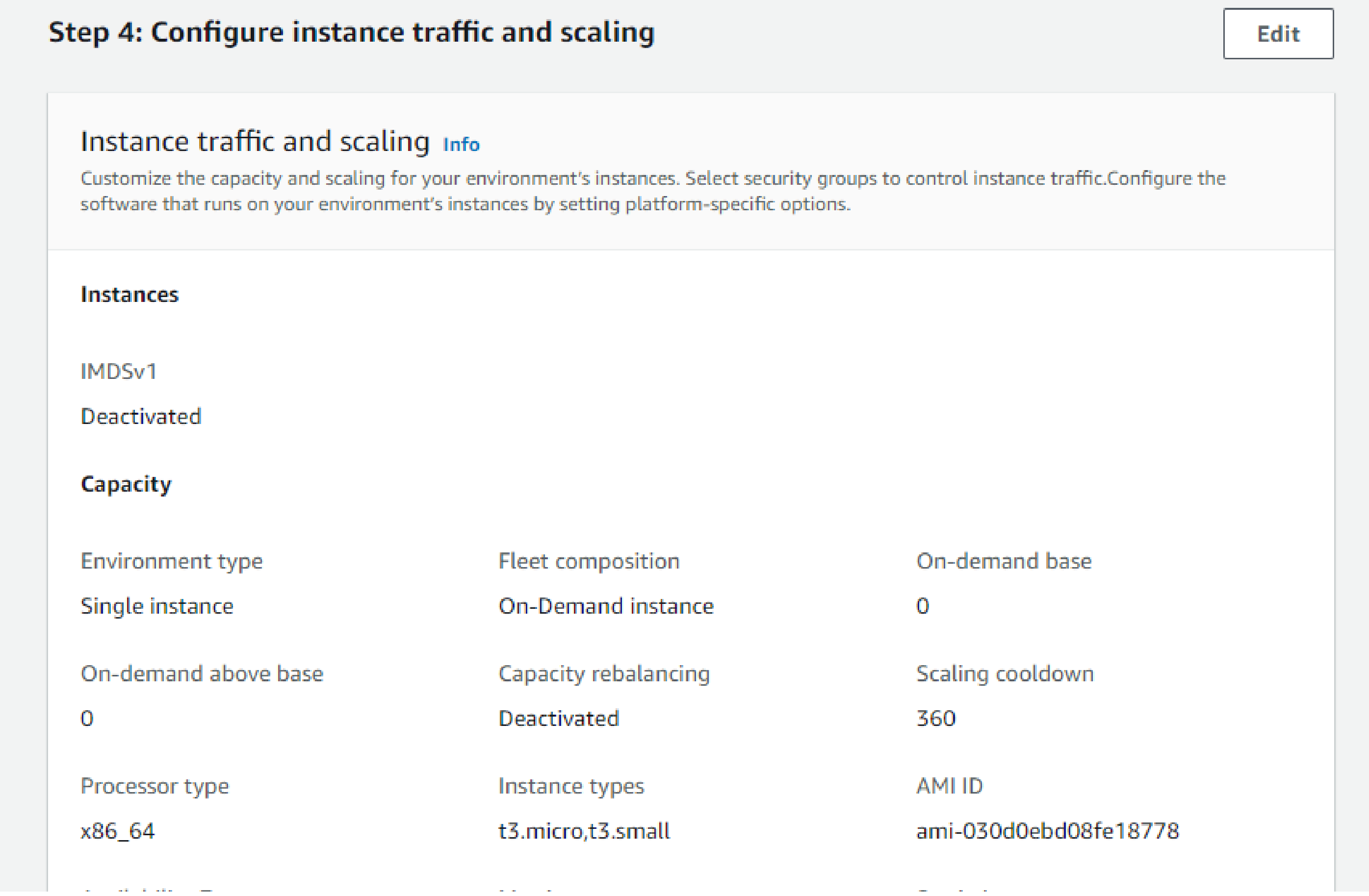
Step 3: Set up networking, database, and tags

Networking, database, and tags Info

Configure VPC settings, and subnets for your environment's EC2 instances and load balancer. Set up an Amazon RDS database that's integrated with your environment.

No options configured

Tags



Step 4: Configure instance traffic and scaling

Instance traffic and scaling

Customize the capacity and scaling for your environment's instances. Select security groups to control instance traffic.Configure the software that runs on your environment's instances by setting platform-specific options.

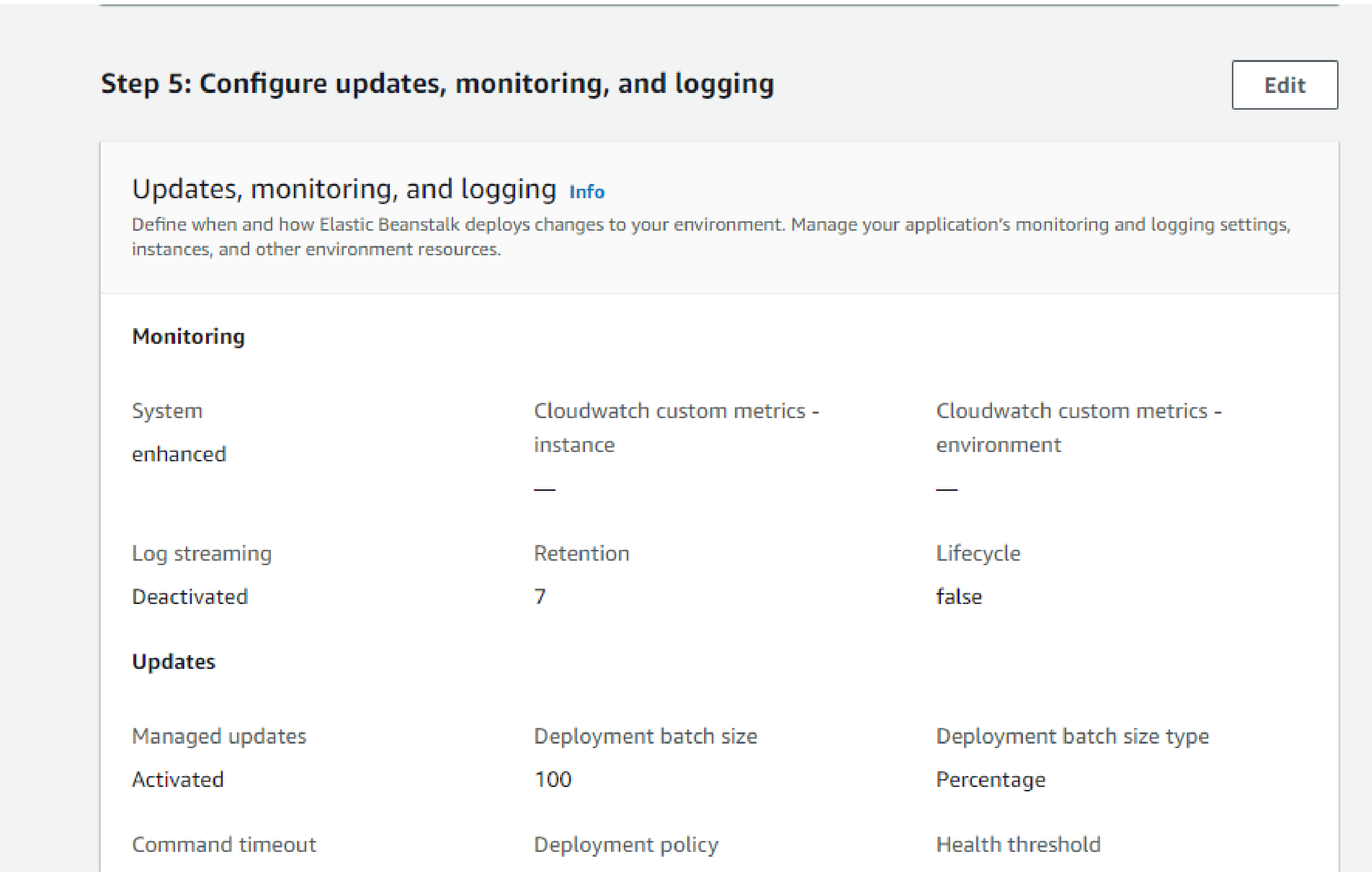
Instances

IMDSv1

Deactivated

Capacity

Environment type	Fleet composition	On-demand base
Single instance	On-Demand instance	0
On-demand above base	Capacity rebalancing	Scaling cooldown
0	Deactivated	360
Processor type	Instance types	AMI ID
x86_64	t3.micro,t3.small	ami-030d0ebd08fe18778



Step 5: Configure updates, monitoring, and logging

Updates, monitoring, and logging

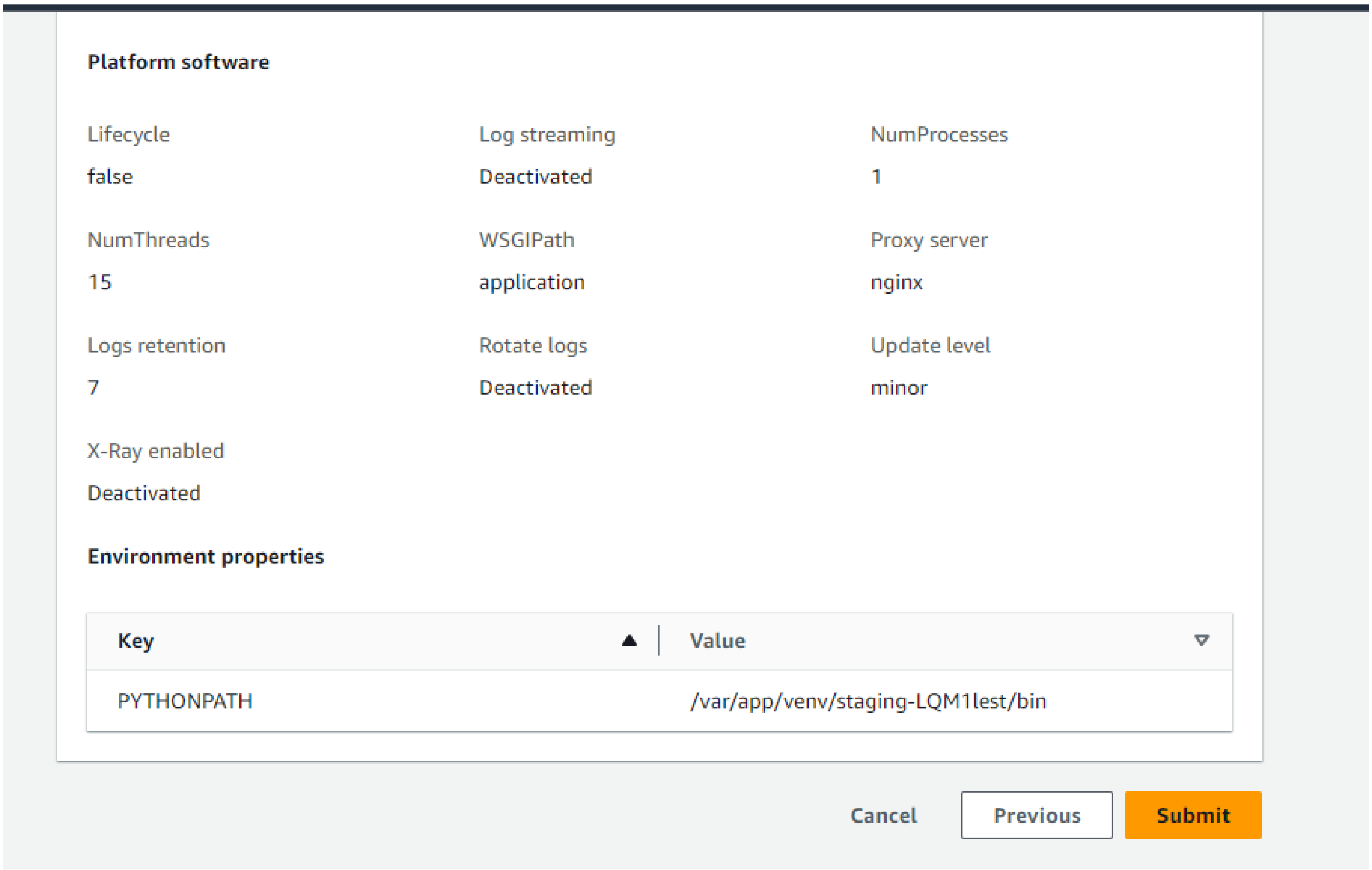
Define when and how Elastic Beanstalk deploys changes to your environment. Manage your application's monitoring and logging settings, instances, and other environment resources.

Monitoring

System	Cloudwatch custom metrics - instance	Cloudwatch custom metrics - environment
enhanced	—	—
Log streaming	Retention	Lifecycle
Deactivated	7	false

Updates

Managed updates	Deployment batch size	Deployment batch size type
Activated	100	Percentage
Command timeout	Deployment policy	Health threshold



Platform software

Lifecycle
false

Log streaming
Deactivated

NumProcesses
1

NumThreads
15

WSGIPath
application

Proxy server
nginx

Logs retention
7

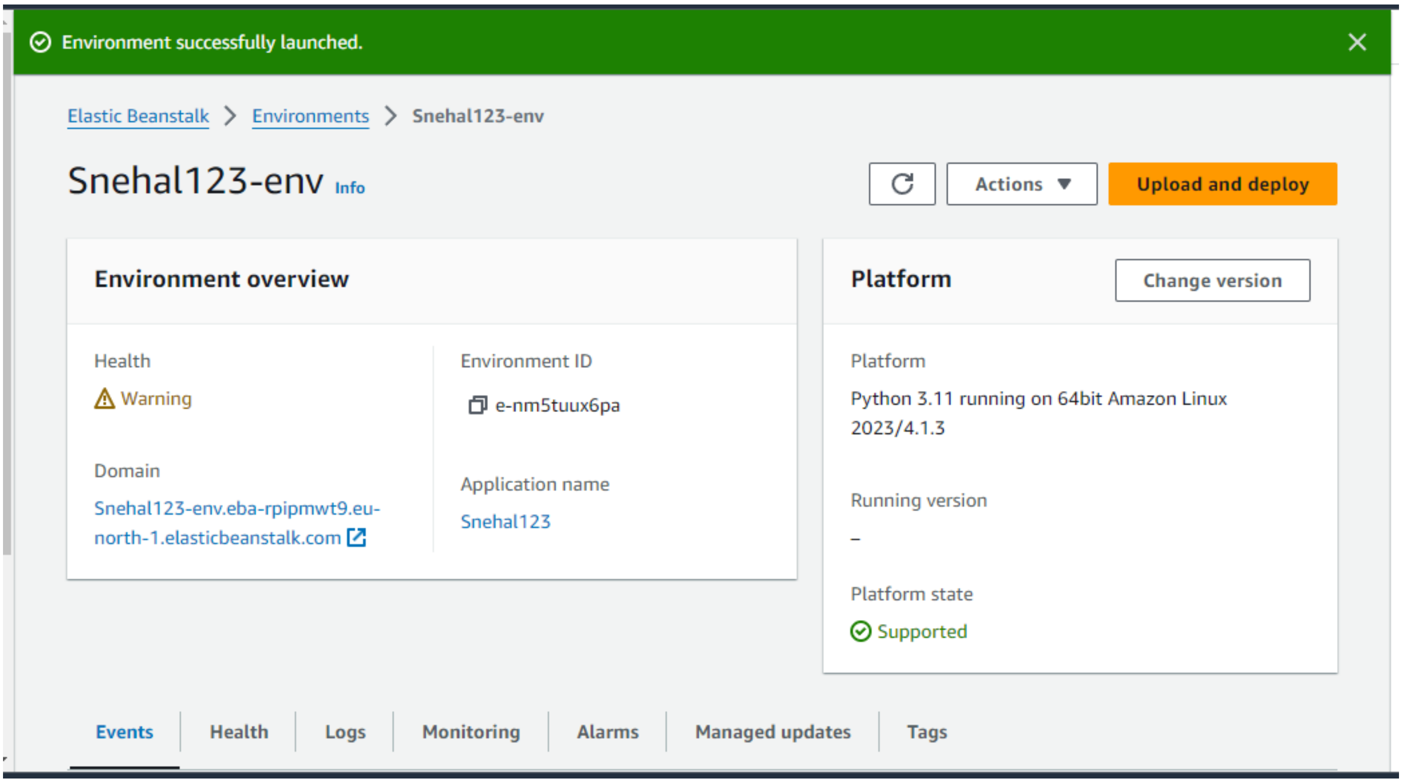
Rotate logs
Deactivated

Update level
minor

X-Ray enabled
Deactivated

Environment properties

Key	Value
PYTHONPATH	/var/app/venv/staging-LQM1lest/bin



Environment successfully launched.

Snehal123-env Info

Environment overview

Health
⚠ Warning

Environment ID
e-nm5tuux6pa

Domain
Snehal123-env.eba-rpipmwt9.eu-north-1.elasticbeanstalk.com

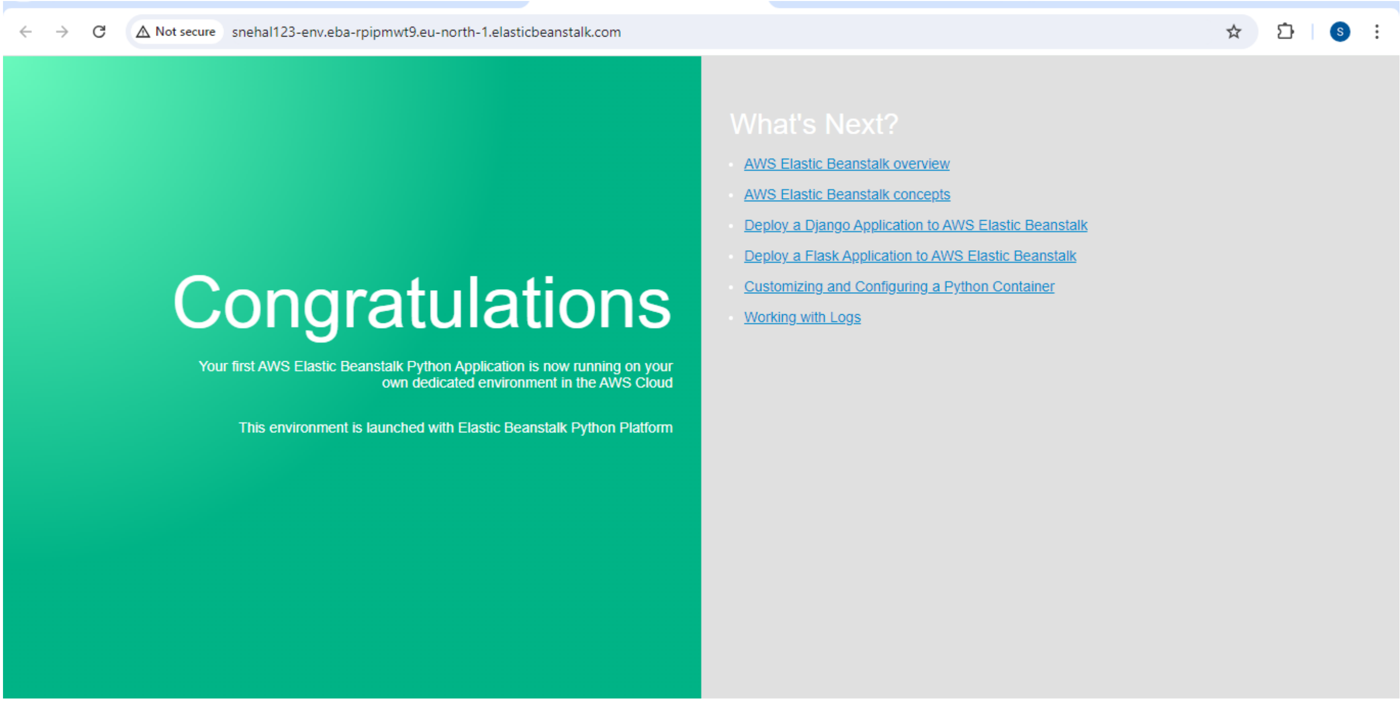
Application name
Snehal123

Platform

Platform
Python 3.11 running on 64bit Amazon Linux 2023/4.1.3

Running version
–

Platform state
✓ Supported



⚠ Not secure snehal123-env.eba-rpipmwt9.eu-north-1.elasticbeanstalk.com

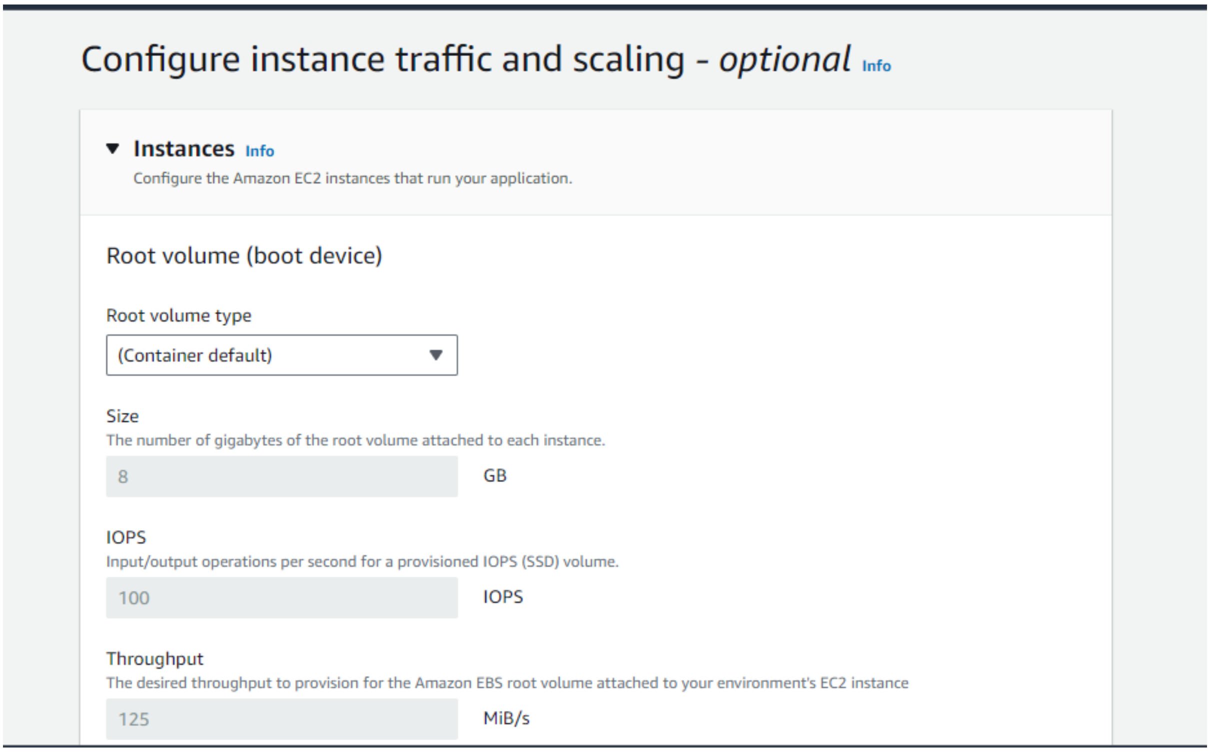
Congratulations

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



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

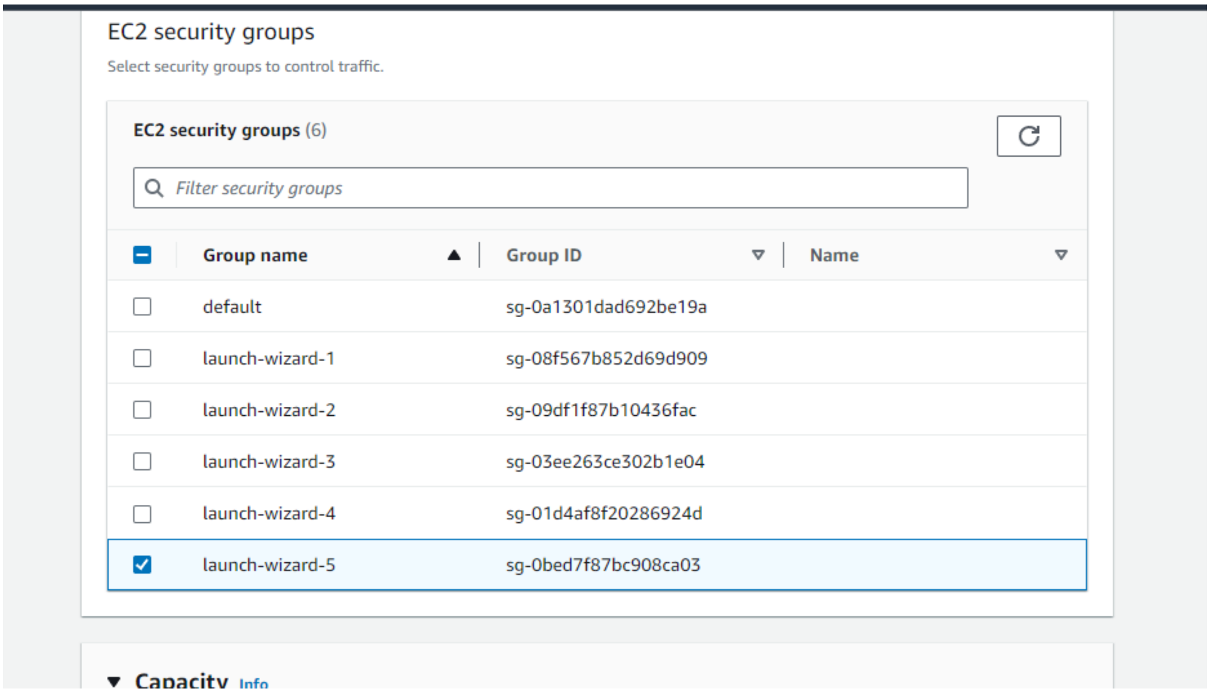
Input/output operations per second for a provisioned IOPS (SSD) volume.

100 IOPS

Throughput

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

125 MiB/s



EC2 security groups

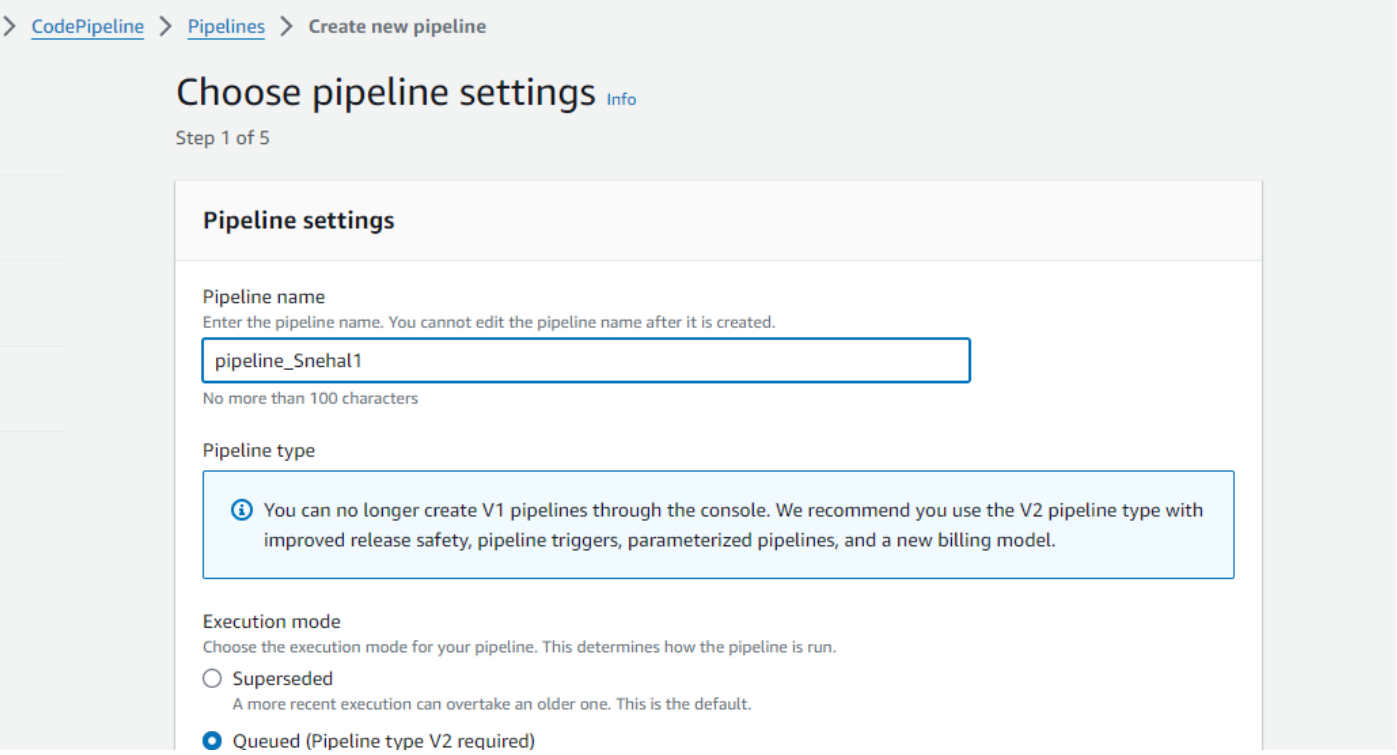
Select security groups to control traffic.

EC2 security groups (6)

Filter security groups

	Group name	Group ID	Name
□	default	sg-0a1301dad692be19a	
□	launch-wizard-1	sg-08f567b852d69d909	
□	launch-wizard-2	sg-09df1f87b10436fac	
□	launch-wizard-3	sg-03ee263ce302b1e04	
□	launch-wizard-4	sg-01d4af8f20286924d	
☑	launch-wizard-5	sg-0bed7f87bc908ca03	

PIPELINE CREATION:



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.

pipeline_Snehal1

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.

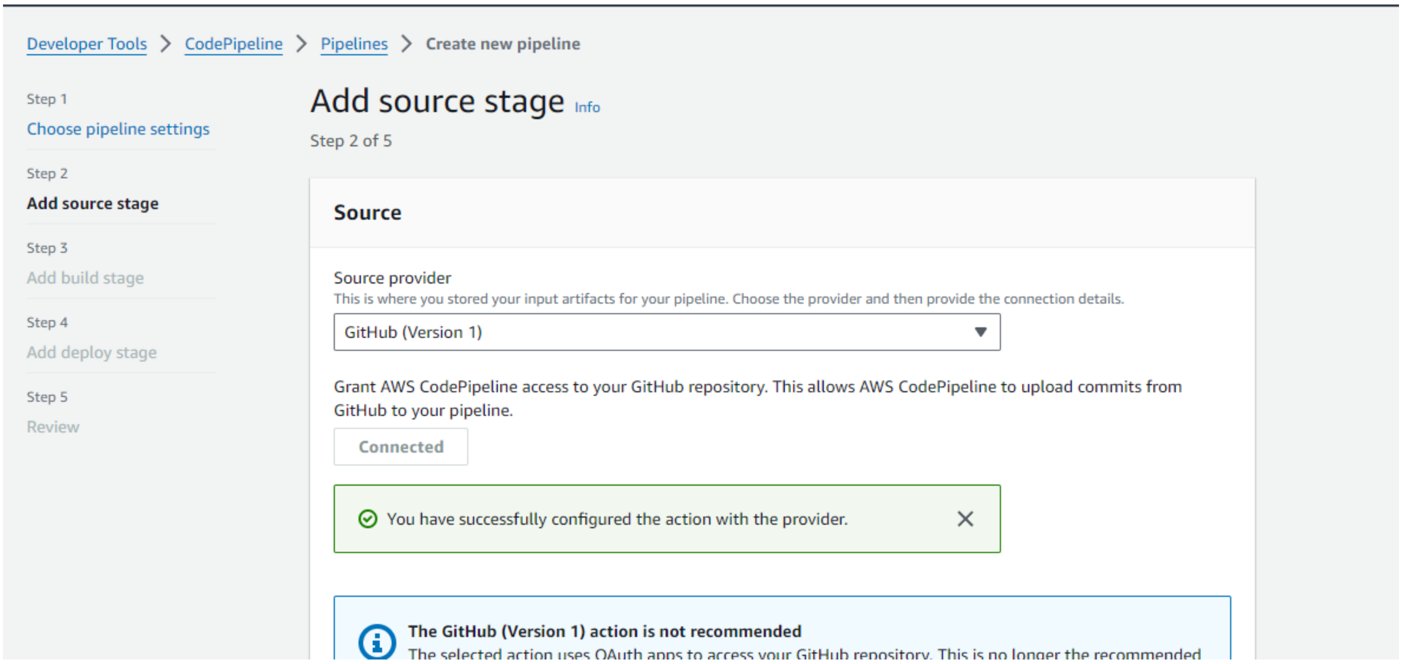
Execution mode

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)



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

Add source stage Info

Step 2 of 5

Source

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

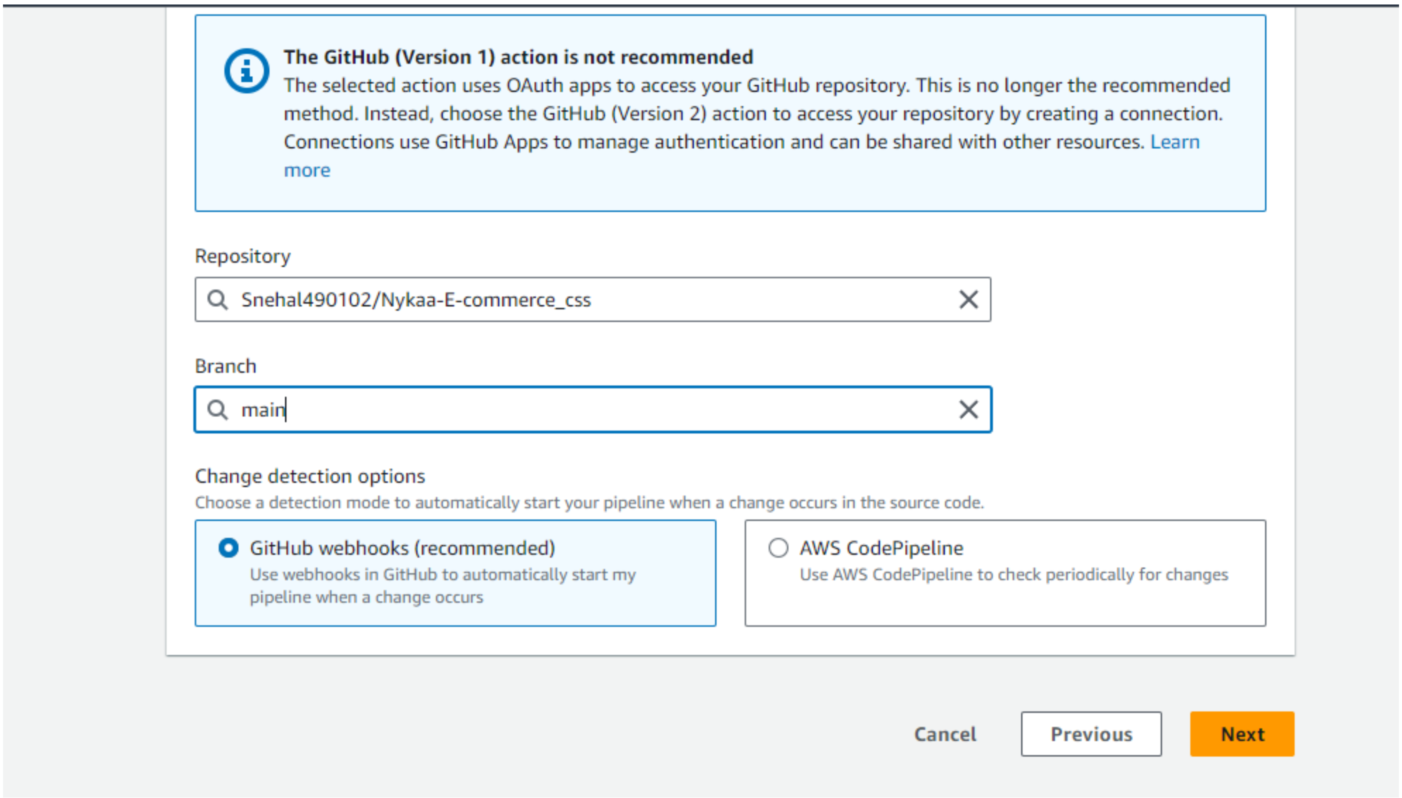
GitHub (Version 1) ▼

Grant AWS CodePipeline access to your GitHub repository. This allows AWS CodePipeline to upload commits from GitHub to your pipeline.

Connected

✓ You have successfully configured the action with the provider. ✕

The GitHub (Version 1) action is not recommended
The selected action uses OAuth apps to access your GitHub repository. This is no longer the recommended



The GitHub (Version 1) action is not recommended
The selected action uses OAuth apps to access your GitHub repository. This is no longer the recommended method. Instead, choose the GitHub (Version 2) action to access your repository by creating a connection. Connections use GitHub Apps to manage authentication and can be shared with other resources. Learn more

Repository
Snehal490102/Nykaa-E-commerce_css ✕

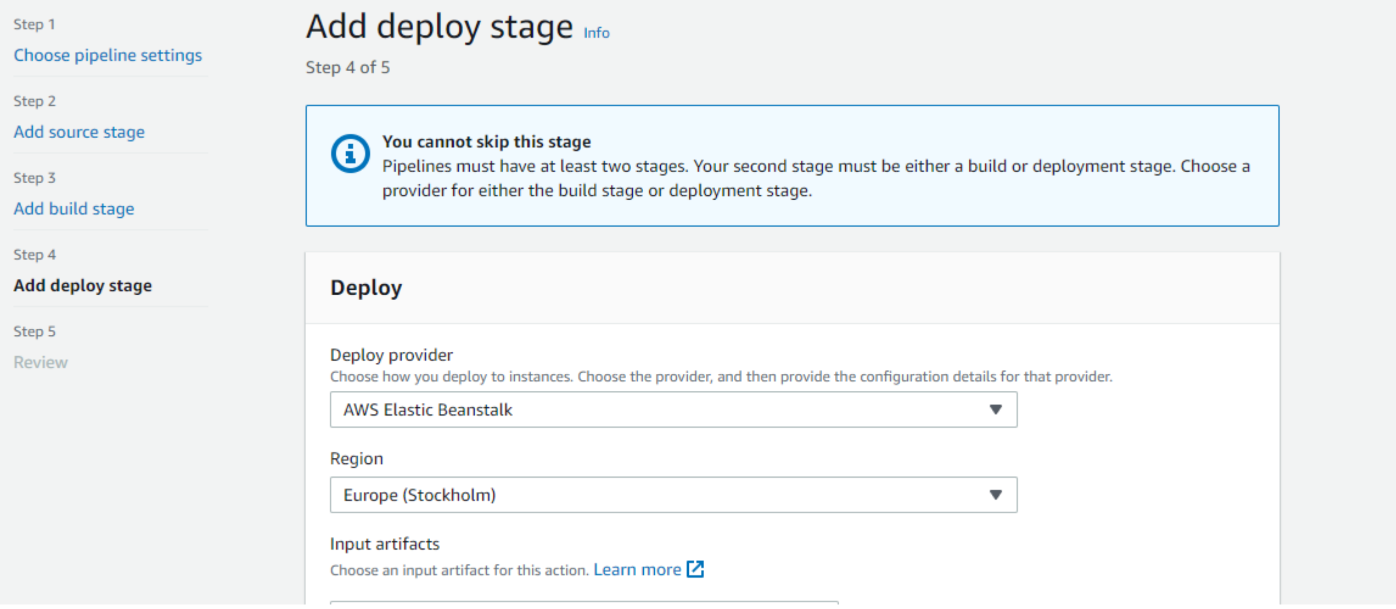
Branch
main ✕

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

● 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

Cancel | Previous | Next



Step 1

Choose pipeline settings

Step 2

Add source stage

Step 3

Add build stage

Step 4

Add deploy stage

Step 5

Review

Add deploy stage Info

Step 4 of 5

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

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

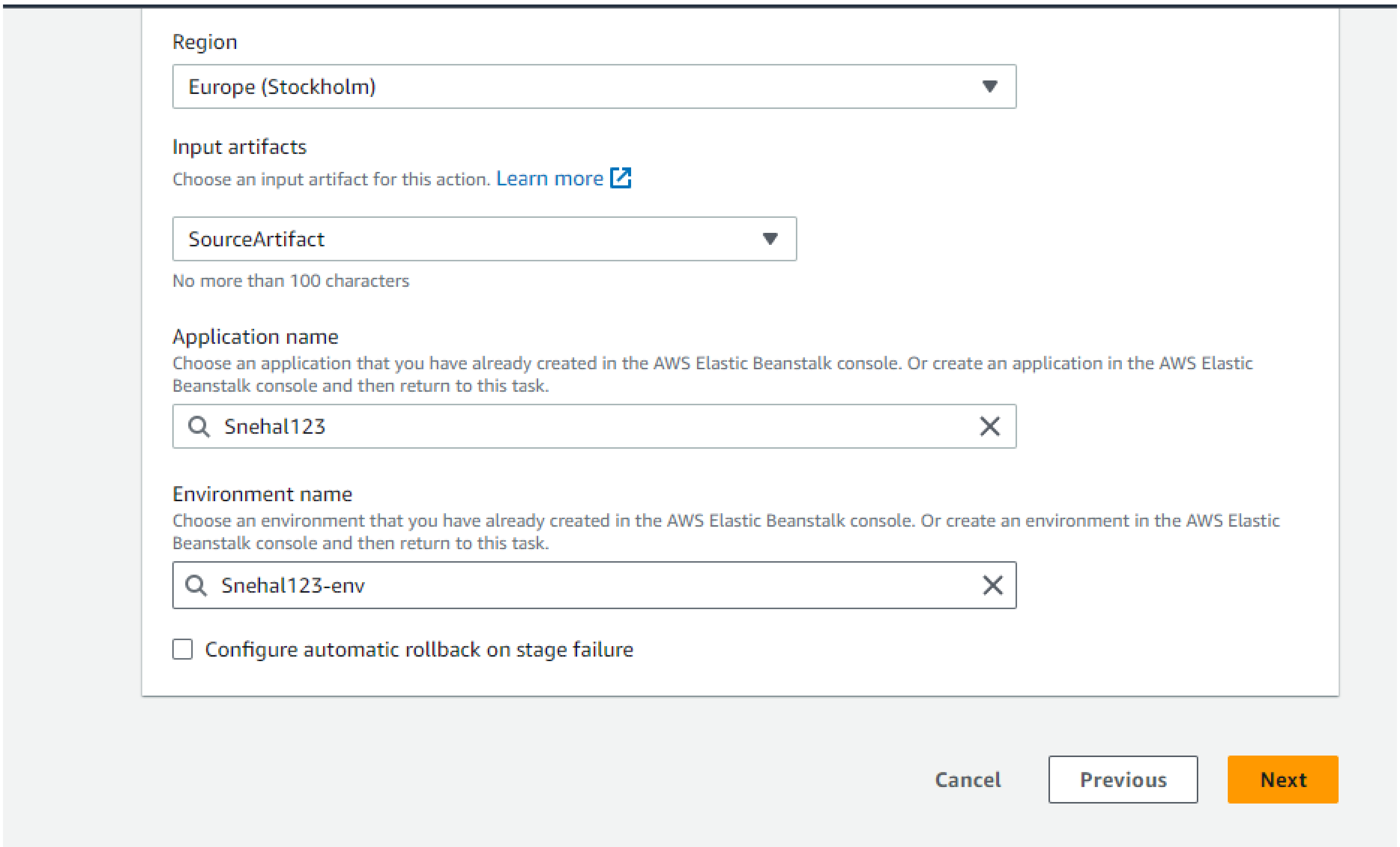
AWS Elastic Beanstalk ▼

Region

Europe (Stockholm) ▼

Input artifacts

Choose an input artifact for this action. Learn more



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.

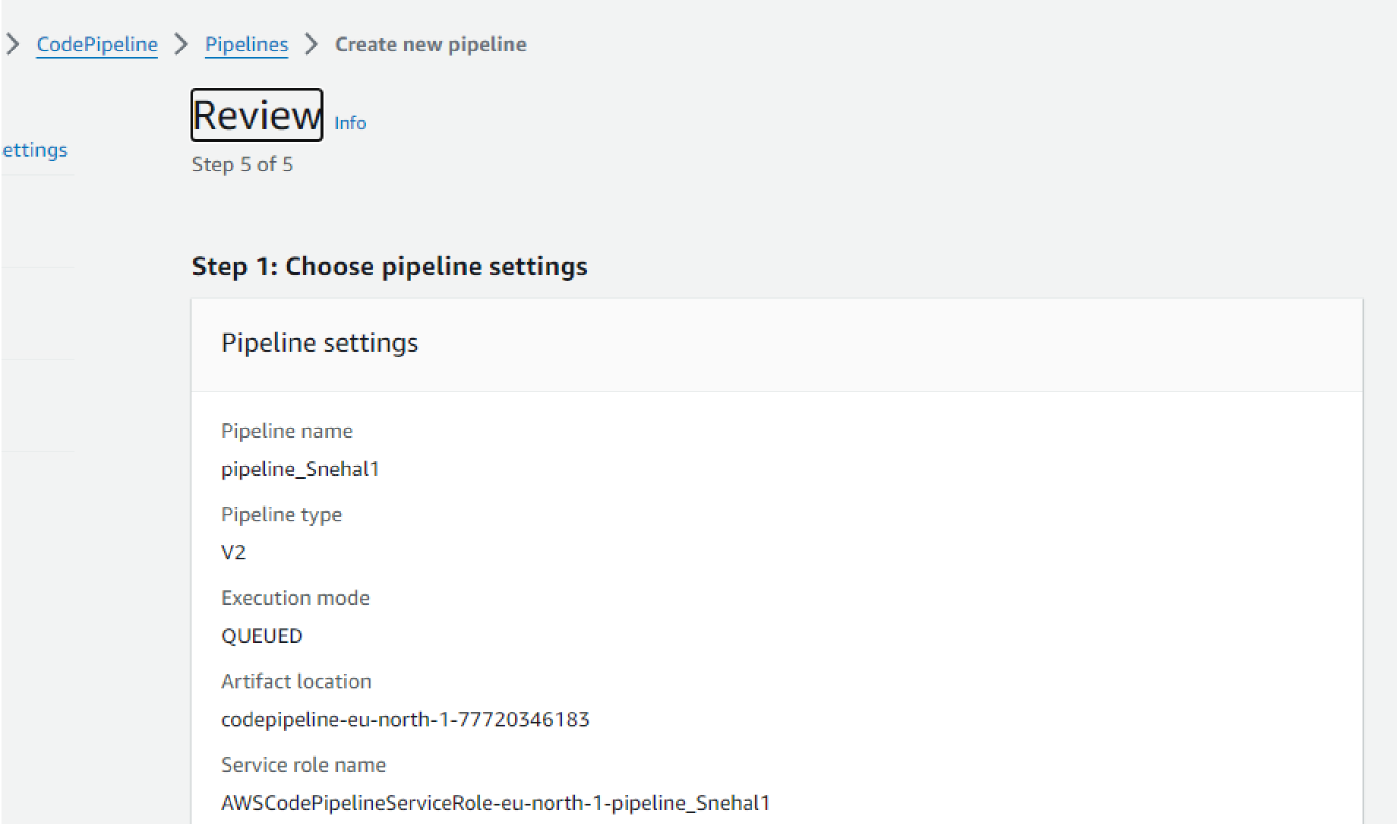
Snehal123

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.

Snehal123-env

□ Configure automatic rollback on stage failure



Review

Step 5 of 5

Step 1: Choose pipeline settings

Pipeline settings

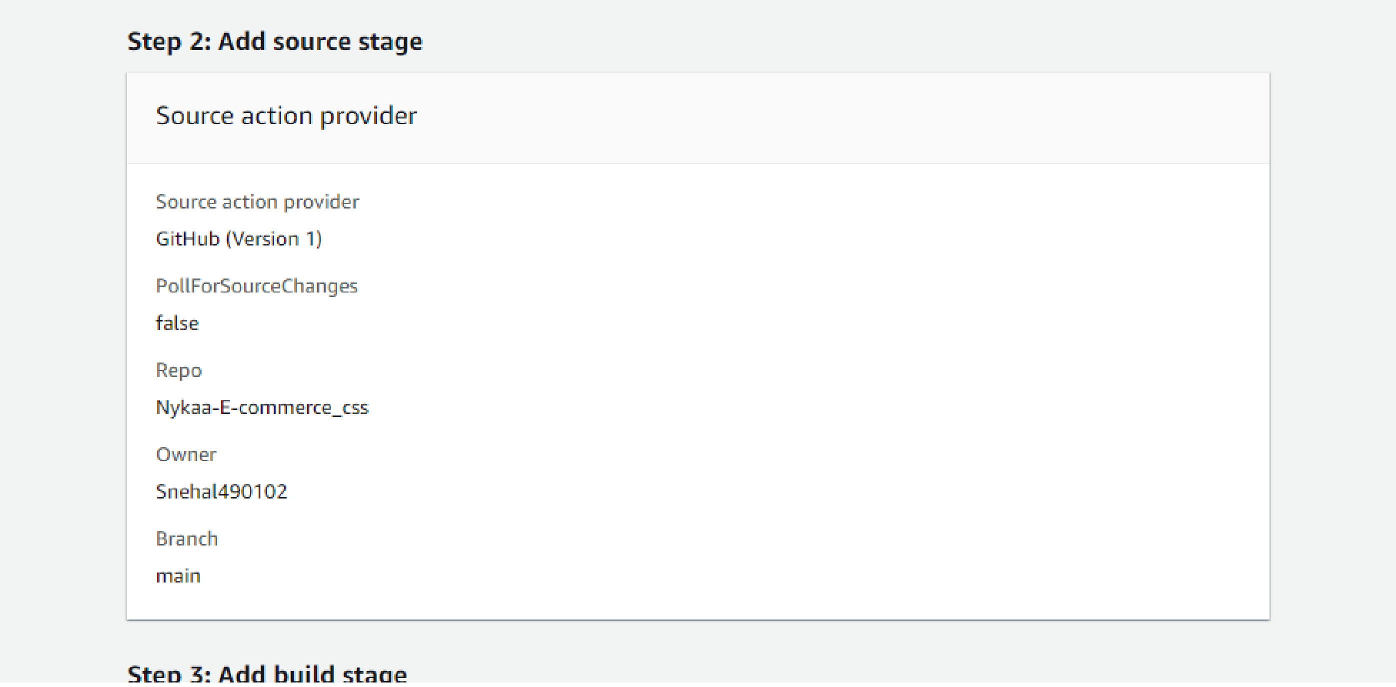
Pipeline name
pipeline_Snehal1

Pipeline type
V2

Execution mode
QUEUED

Artifact location
codepipeline-eu-north-1-77720346183

Service role name
AWSCodePipelineServiceRole-eu-north-1-pipeline_Snehal1



Step 2: Add source stage

Source action provider

Source action provider
GitHub (Version 1)

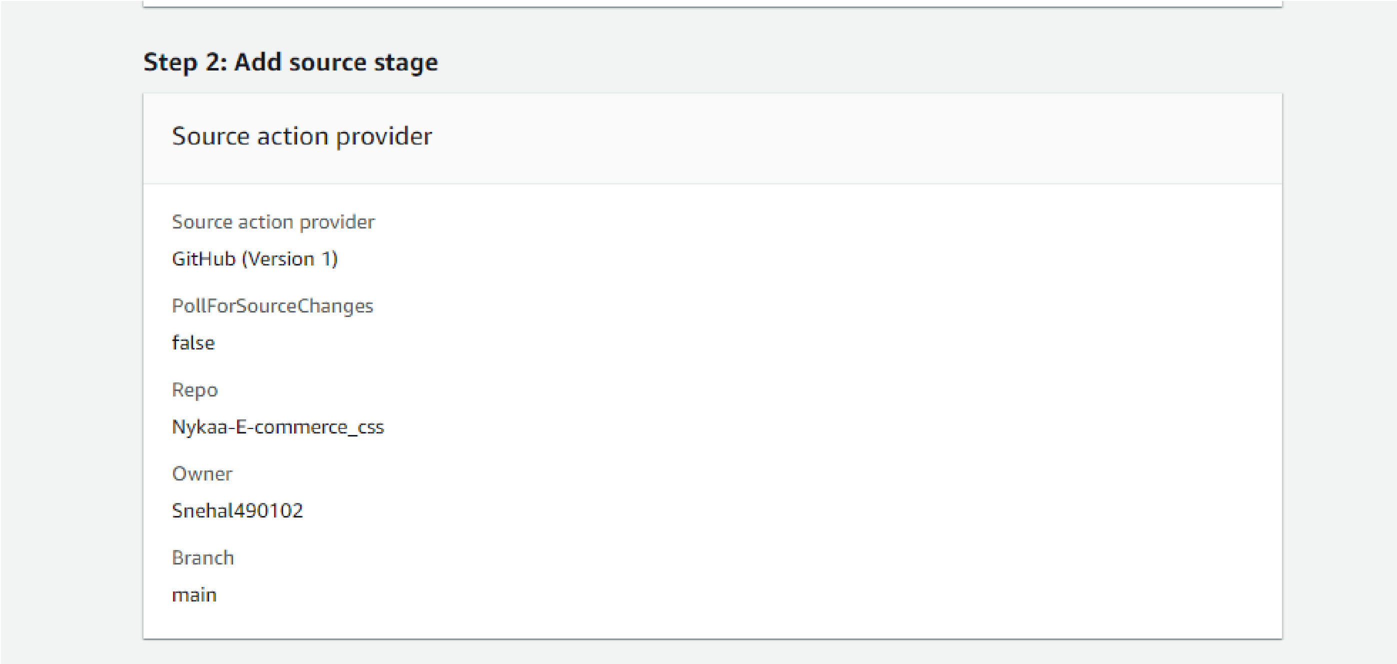
PollForSourceChanges
false

Repo
Nykaa-E-commerce_css

Owner
Snehal490102

Branch
main

Step 3: Add build stage



Step 2: Add source stage

Source action provider

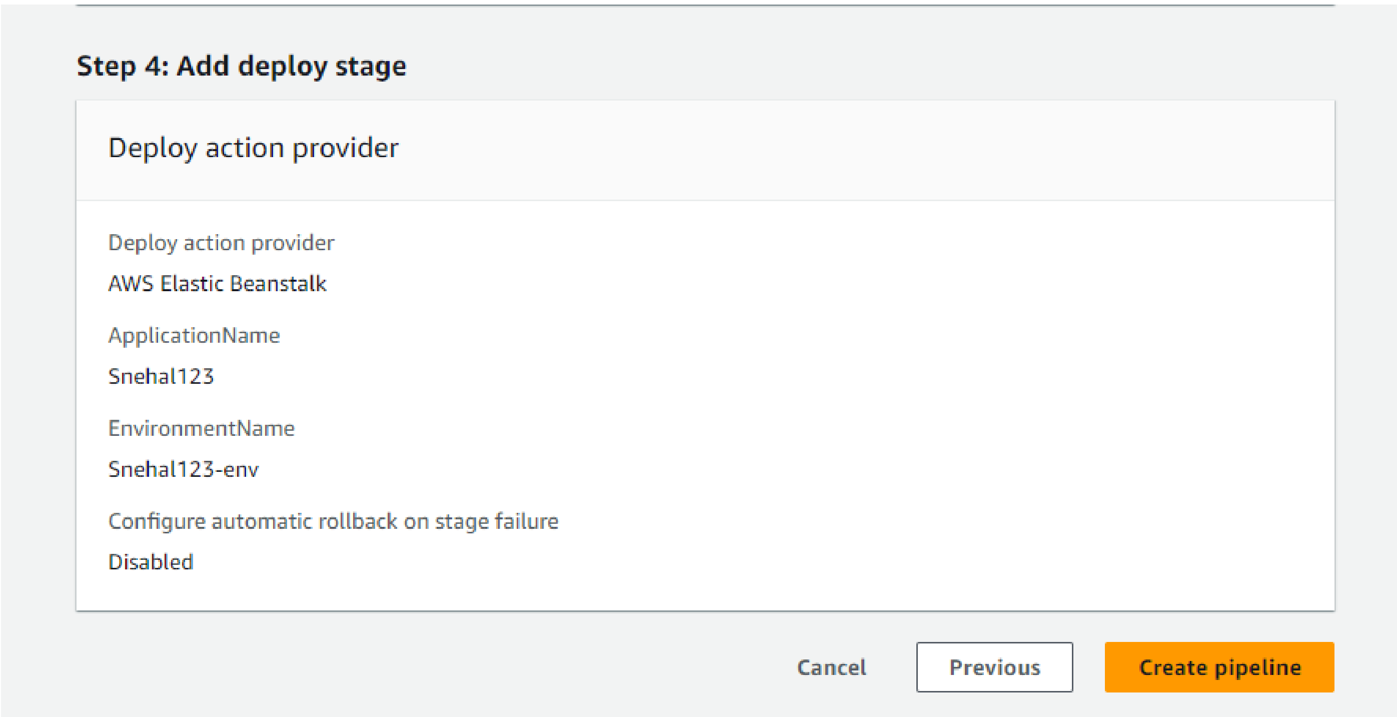
Source action provider
GitHub (Version 1)

PollForSourceChanges
false

Repo
Nykaa-E-commerce_css

Owner
Snehal490102

Branch
main



Step 4: Add deploy stage

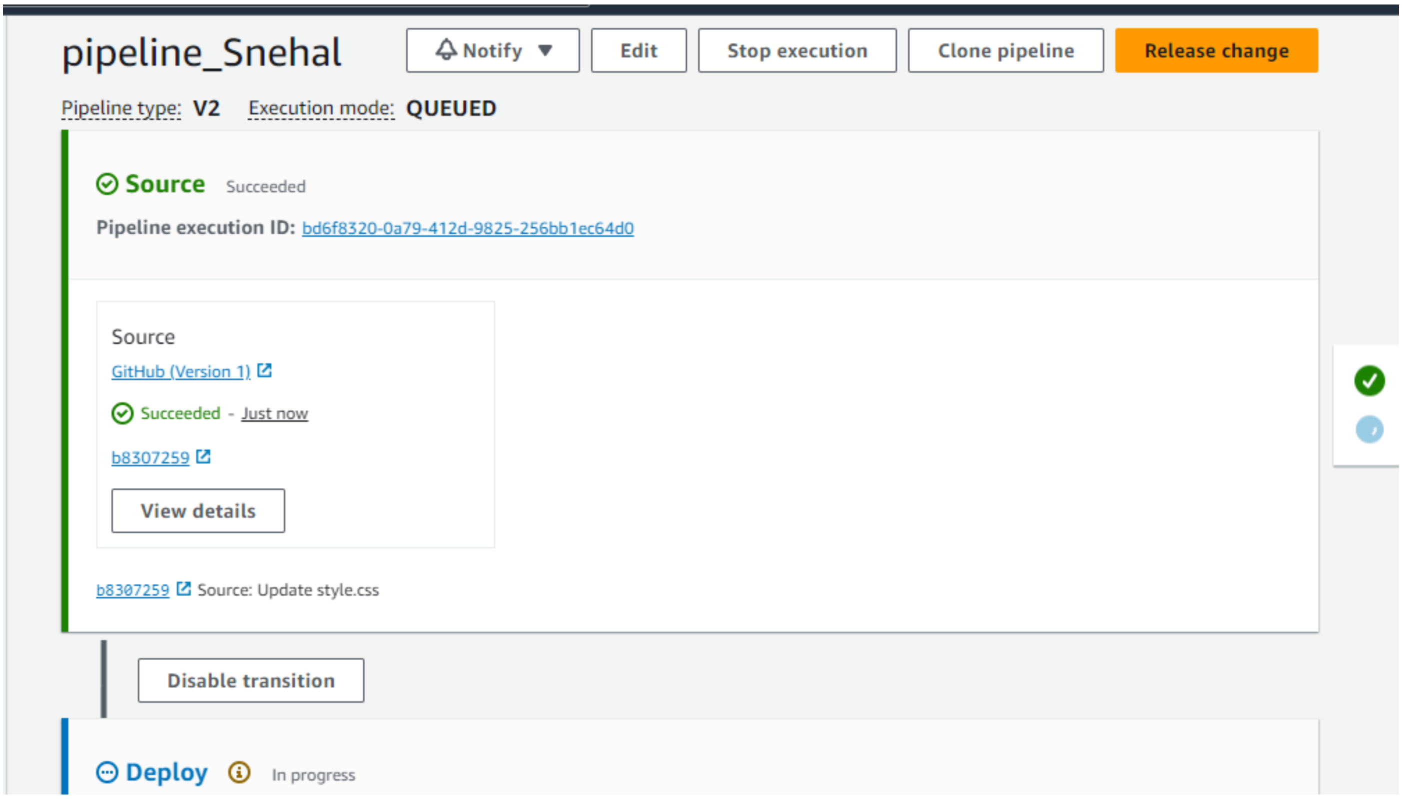
Deploy action provider

Deploy action provider
AWS Elastic Beanstalk

ApplicationName
Snehal123

EnvironmentName
Snehal123-env

Configure automatic rollback on stage failure
Disabled



pipeline_Snehal

Pipeline type: V2 Execution mode: QUEUED

Source Succeeded

Pipeline execution ID: bd6f8320-0a79-412d-9825-256bb1ec64d0

Source

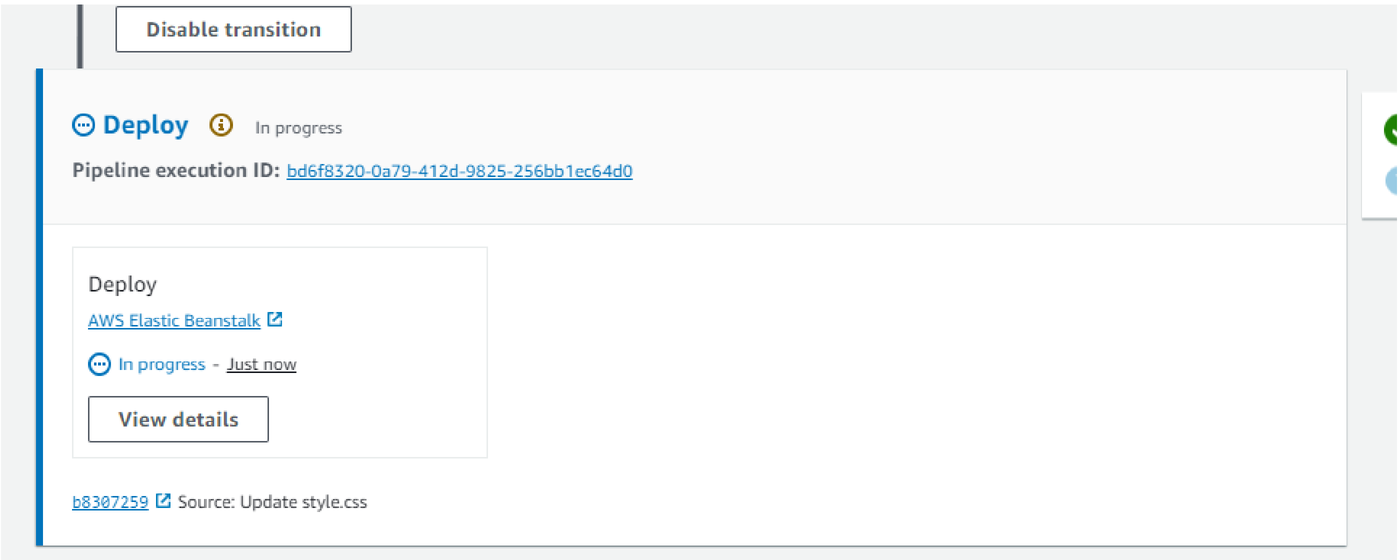
GitHub (Version 1)

Succeeded - Just now

b8307259

b8307259 Source: Update style.css

Deploy In progress



Deploy In progress

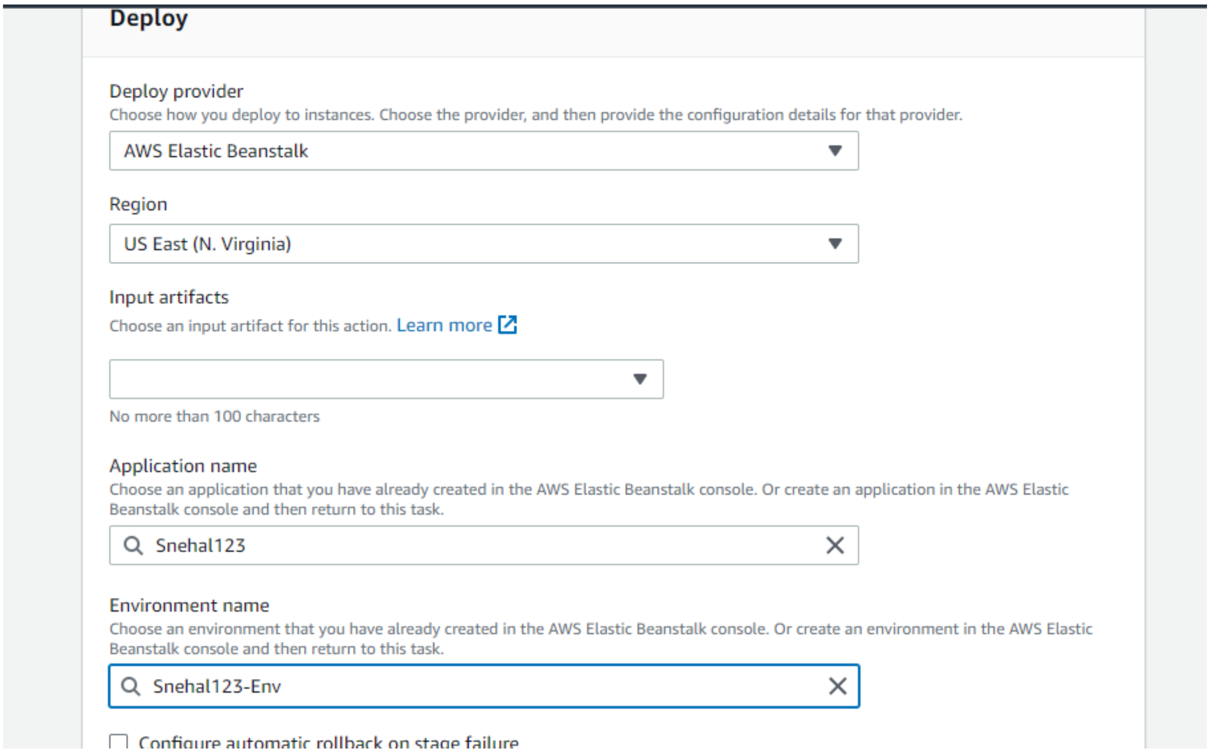
Pipeline execution ID: bd6f8320-0a79-412d-9825-256bb1ec64d0

Deploy

AWS Elastic Beanstalk

In progress - Just now

b8307259 Source: Update style.css



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)

Input artifacts

Choose an input artifact for this action. Learn more

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.

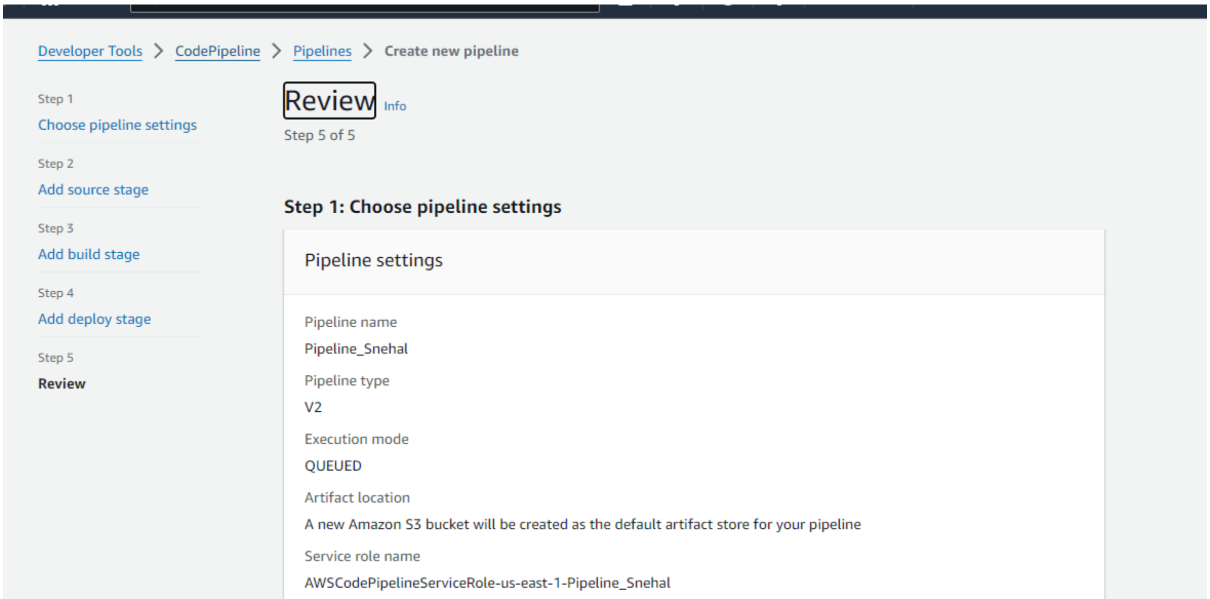
Snehal123

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.

Snehal123-Env

□ Configure automatic rollback on stage failure



Review Info

Step 5 of 5

Step 1: Choose pipeline settings

Pipeline settings

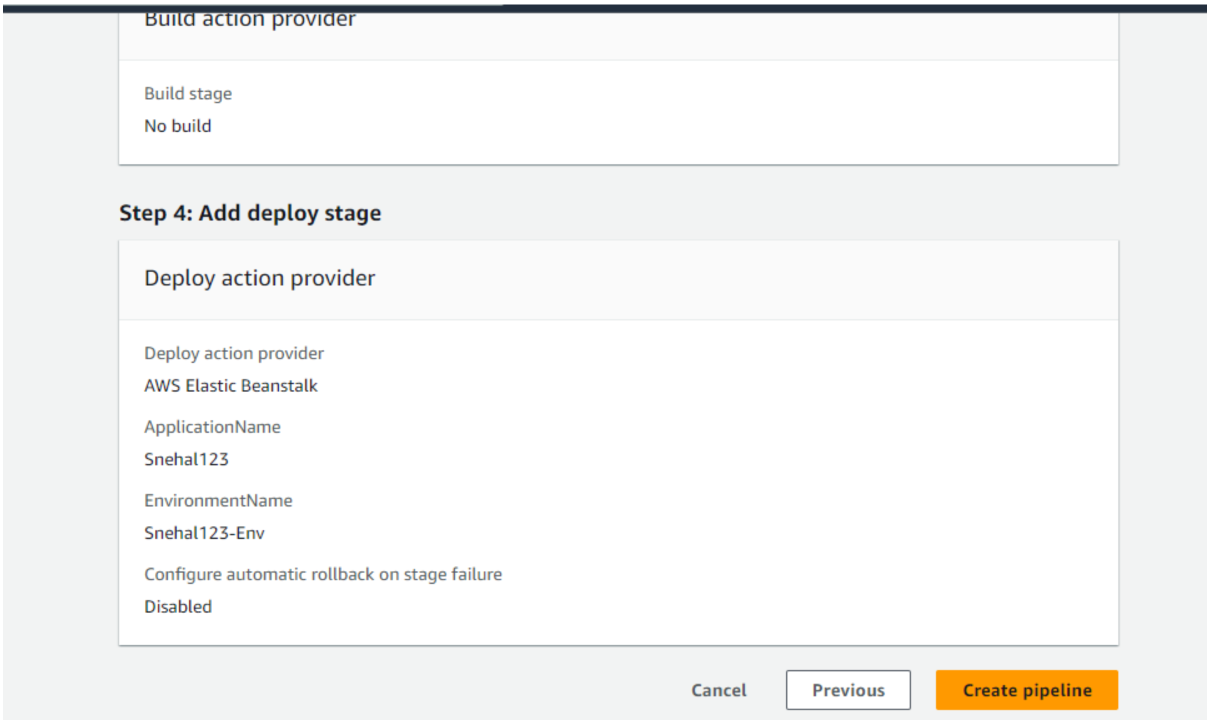
Pipeline name
Pipeline_Snehal

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-us-east-1-Pipeline_Snehal



Build action provider

Build stage
No build

Step 4: Add deploy stage

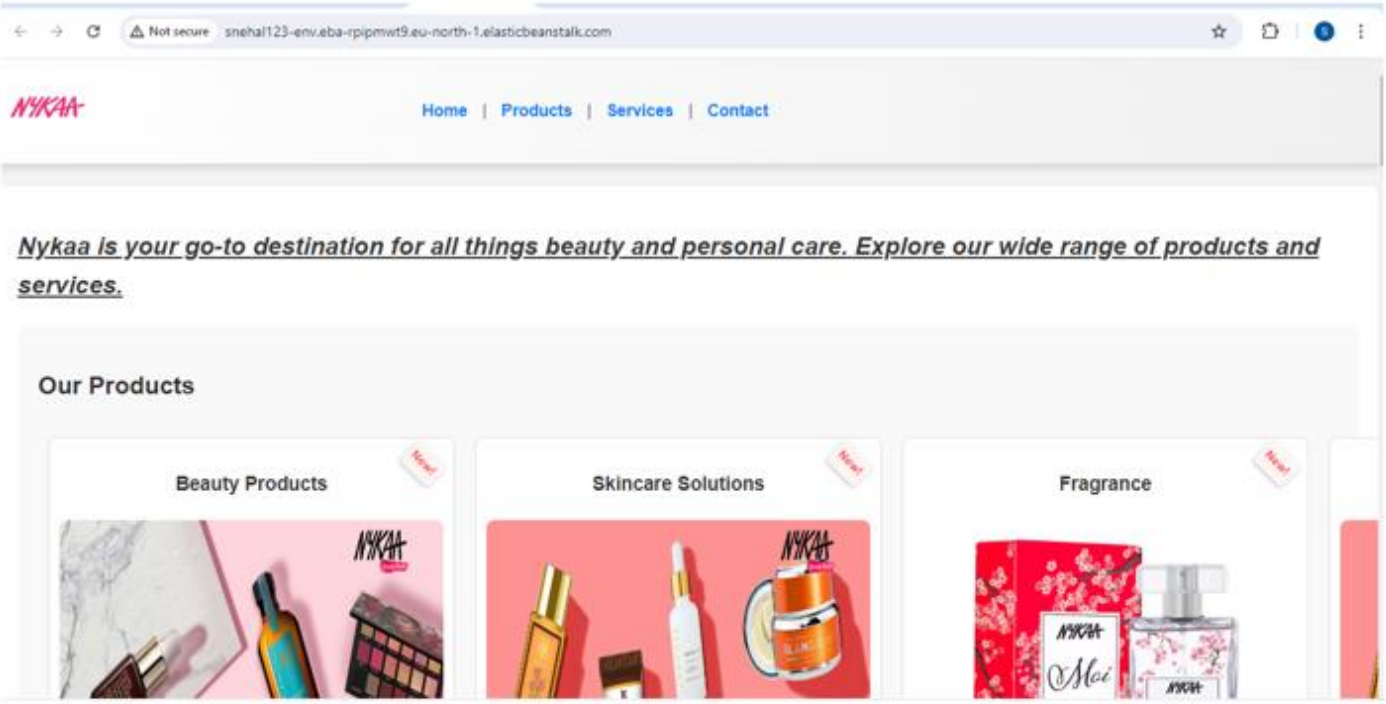
Deploy action provider

Deploy action provider
AWS Elastic Beanstalk

ApplicationName
Snehal123

EnvironmentName
Snehal123-Env

Configure automatic rollback on stage failure
Disabled



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