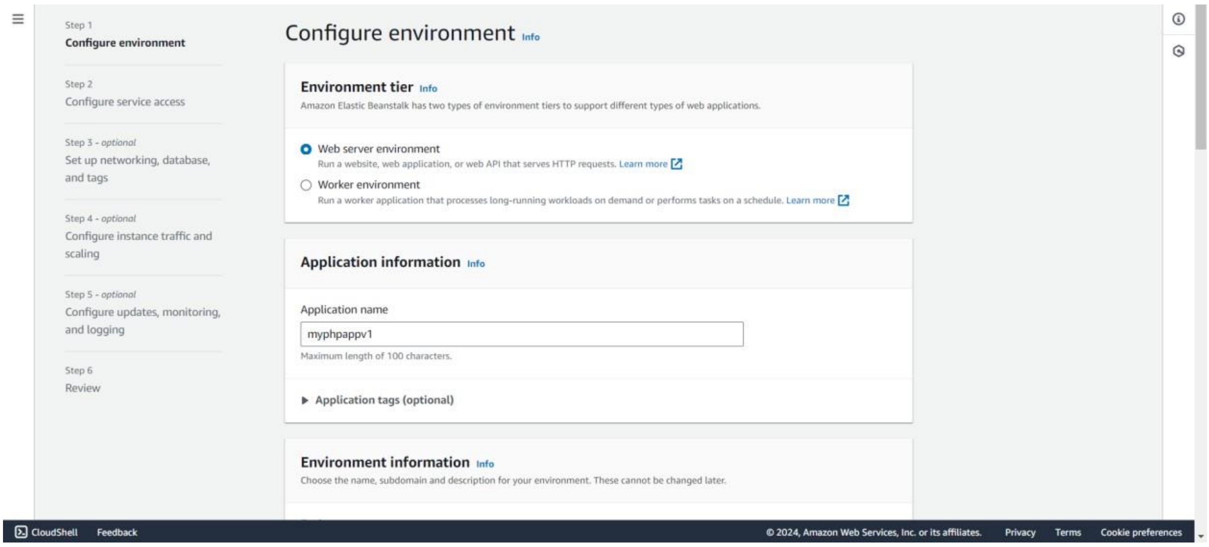
ADVANCE DEVOPS EXPERIMENT NO.2

Name: Bhagyesh Patil
Class:D15A
Roll No:36

Aim:-

To Build Your Application using AWS CodeBuild and Deploy on S3 / SEBS using AWSCodePipeline, deploy Sample Application on EC2 instance using AWS CodeDeploy


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
CloudShell
Feedback
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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

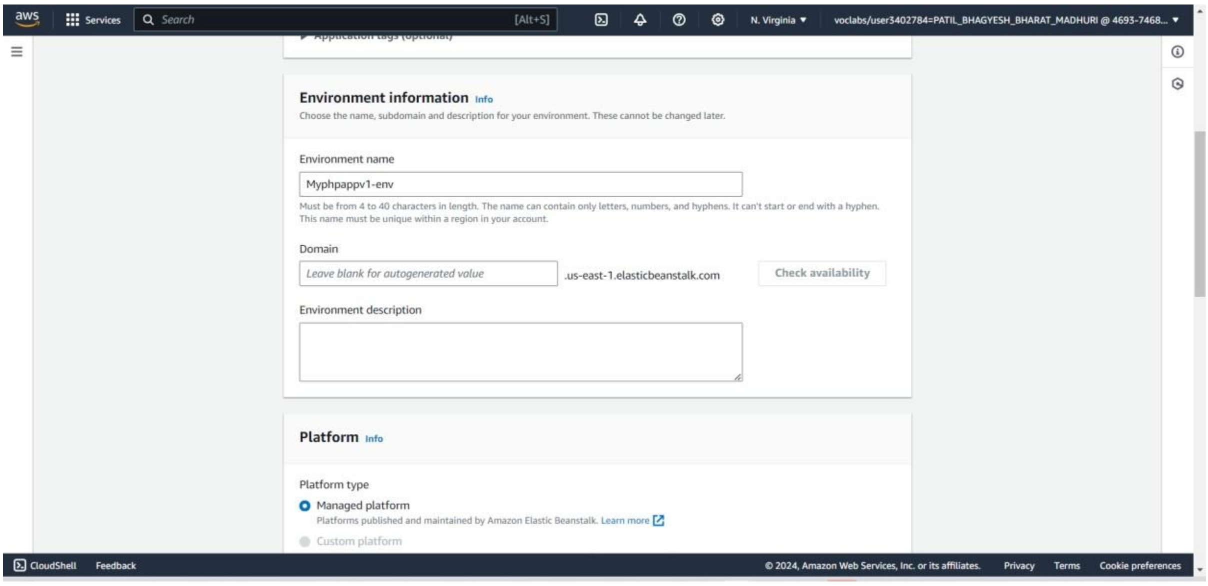
○ Worker environment
Run a worker application that processes long-running workloads on demand or performs tasks on a schedule. Learn more

Application information Info

Application name: myphpappv1
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.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voclabs/user3402784=PATIL_BHAGYESH_BHARAT_MADHURI @ 4693-7468... ▾
Check availability
CloudShell
Feedback
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Environment information Info
Choose the name, subdomain and description for your environment. These cannot be changed later.

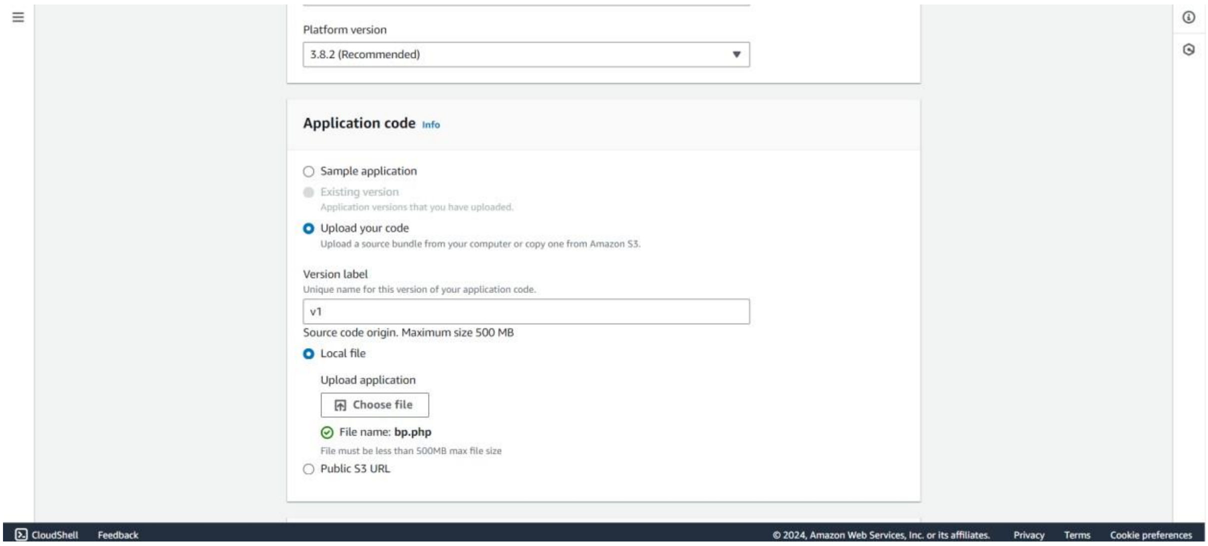
Environment name: Myphpappv1-env
Must be from 4 to 40 characters in length. The name can contain only letters, numbers, and hyphens. It can't start or end with a hyphen. This name must be unique within a region in your account.

Domain: *Leave blank for autogenerated value* .us-east-1.elasticbeanstalk.com

Environment description

Platform Info

Platform type
● Managed platform
Platforms published and maintained by Amazon Elastic Beanstalk. Learn more
○ Custom platform


CloudShell
Feedback
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Cookie preferences

Platform version

3.8.2 (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.

v1

Source code origin. Maximum size 500 MB

● Local file

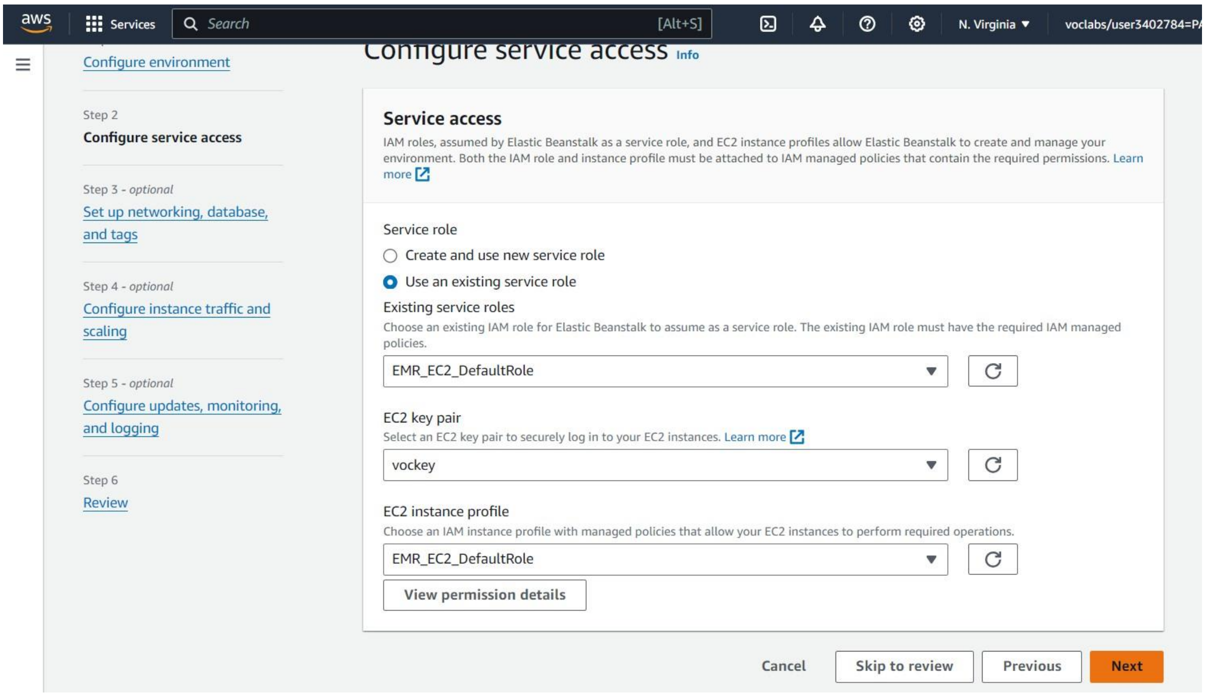
Upload application

Choose file

File name: **bp.php**

File must be less than 500MB max file size

○ Public S3 URL


aws
Services
Search
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N. Virginia
voclabs/user3402784=PA
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
Cancel
Skip to review
Previous
Next

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.

EMR_EC2_DefaultRole

EC2 key pair

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

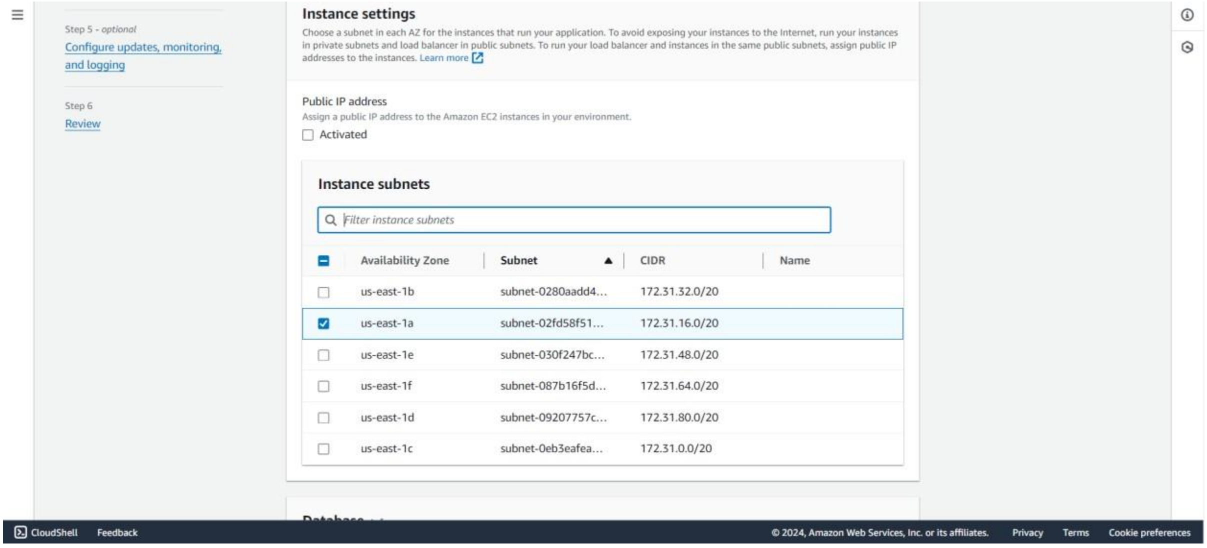
vockey

EC2 instance profile

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

EMR_EC2_DefaultRole

View permission details


Step 5 - optional
Configure updates, monitoring, and logging
Step 6
Review
Database
CloudShell
Feedback
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Terms
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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

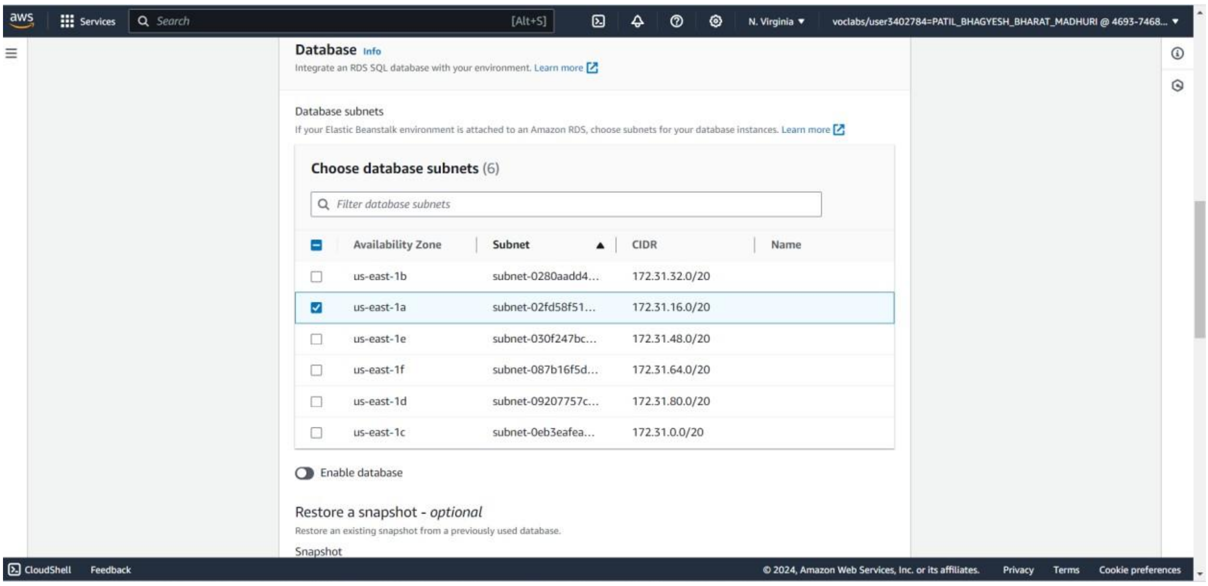
Assign a public IP address to the Amazon EC2 instances in your environment.

☐ Activated

Instance subnets

Filter instance subnets

☐	Availability Zone	Subnet ▲	CIDR	Name
☐	us-east-1b	subnet-0280aadd4...	172.31.32.0/20	
☑	us-east-1a	subnet-02fd58f51...	172.31.16.0/20	
☐	us-east-1e	subnet-030f247bc...	172.31.48.0/20	
☐	us-east-1f	subnet-087b16f5d...	172.31.64.0/20	
☐	us-east-1d	subnet-09207757c...	172.31.80.0/20	
☐	us-east-1c	subnet-0eb3eafea...	172.31.0.0/20	


aws
Services
Search
[Alt+S]
N. Virginia
voclabs/user3402784=PATIL_BHAGYESH_BHARAT_MADHURI @ 4693-7468...
CloudShell
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Database Info

Integrate an RDS SQL database with your environment. Learn more

Database subnets

If your Elastic Beanstalk environment is attached to an Amazon RDS, choose subnets for your database instances. Learn more

Choose database subnets (6)

Filter database subnets

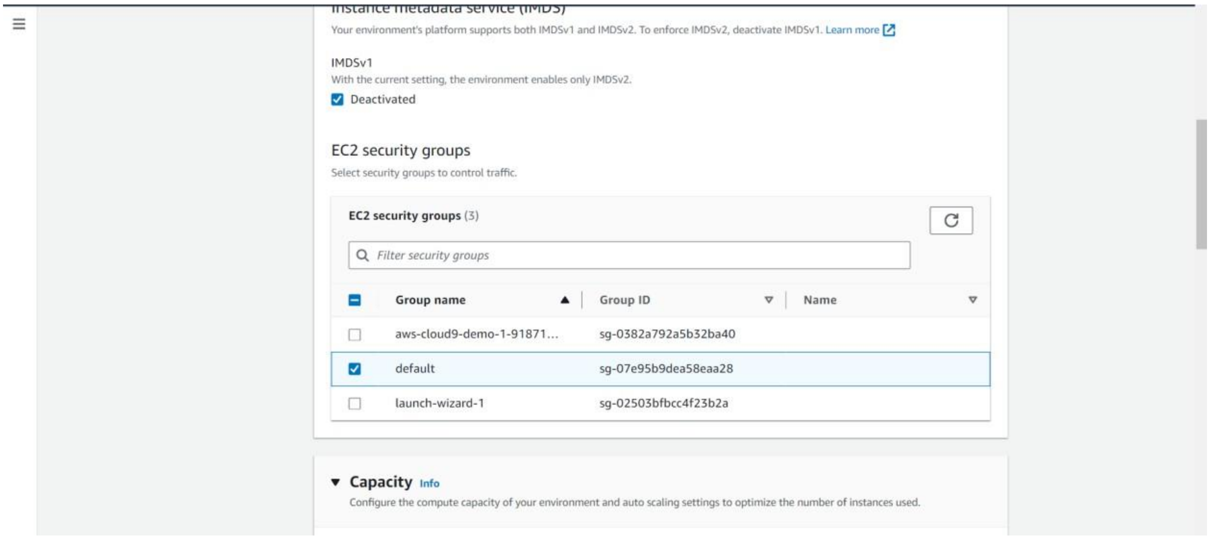
	Availability Zone	Subnet	CIDR	Name
☐	us-east-1b	subnet-0280aadd4...	172.31.32.0/20	
☑	us-east-1a	subnet-02fd58f51...	172.31.16.0/20	
☐	us-east-1e	subnet-030f247bc...	172.31.48.0/20	
☐	us-east-1f	subnet-087b16f5d...	172.31.64.0/20	
☐	us-east-1d	subnet-09207757c...	172.31.80.0/20	
☐	us-east-1c	subnet-0eb3eafea...	172.31.0.0/20	

○ Enable database

Restore a snapshot - *optional*

Restore an existing snapshot from a previously used database.

Snapshot



Instance metadata service (IMDS)

Your environment's platform supports both IMDSv1 and IMDSv2. To enforce IMDSv2, deactivate IMDSv1. Learn more

IMDSv1

With the current setting, the environment enables only IMDSv2.

☑ Deactivated

EC2 security groups

Select security groups to control traffic.

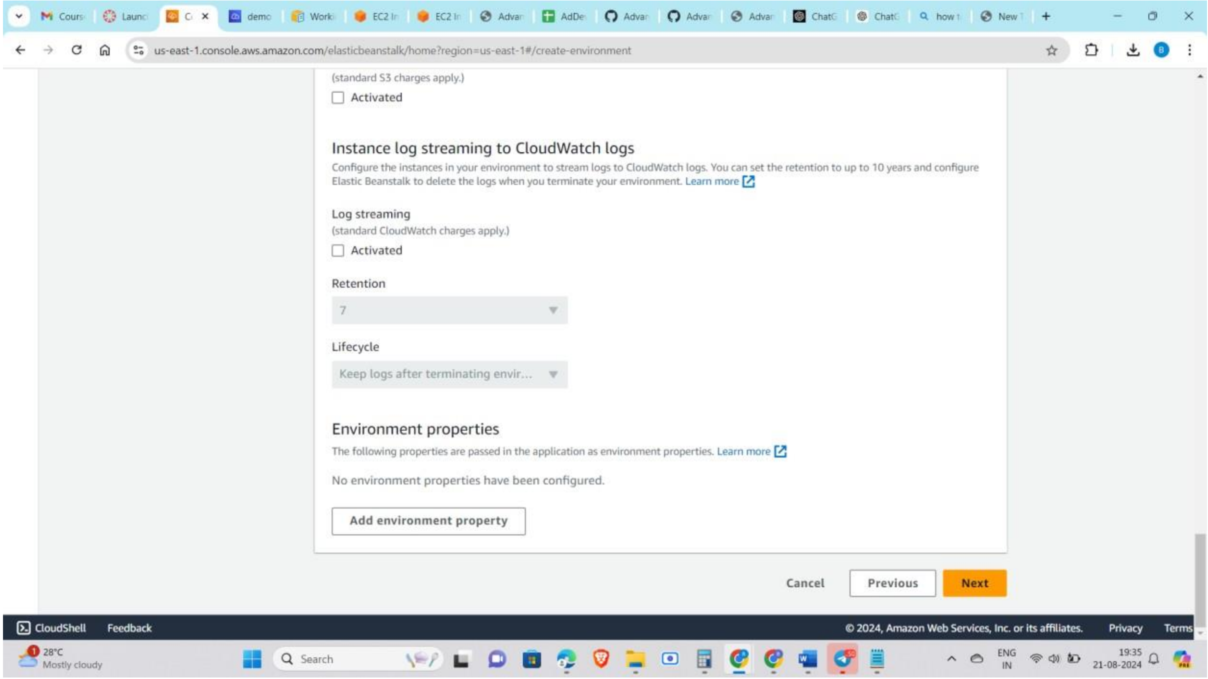
EC2 security groups (3)

Filter security groups

	Group name	Group ID	Name
☐	aws-cloud9-demo-1-91871...	sg-0382a792a5b32ba40	
☑	default	sg-07e95b9dea58eaa28	
☐	launch-wizard-1	sg-02503bfbcc4f23b2a	

Capacity Info

Configure the compute capacity of your environment and auto scaling settings to optimize the number of instances used.


Cours
Launc
C
demo
Work
EC2 In
EC2 In
Advar
AdDe
Advar
Advar
Advar
ChatG
ChatG
how t
New
us-east-1.console.aws.amazon.com/elasticbeanstalk/home?region=us-east-1#/create-environment
CloudShell
Feedback
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Privacy
Terms
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19:35
21-08-2024

(standard S3 charges apply.)

☐ Activated

Instance log streaming to CloudWatch logs

Configure the instances in your environment to stream logs to CloudWatch logs. You can set the retention to up to 10 years and configure Elastic Beanstalk to delete the logs when you terminate your environment. Learn more

Log streaming

(standard CloudWatch charges apply.)

☐ Activated

Retention

7

Lifecycle

Keep logs after terminating envir...

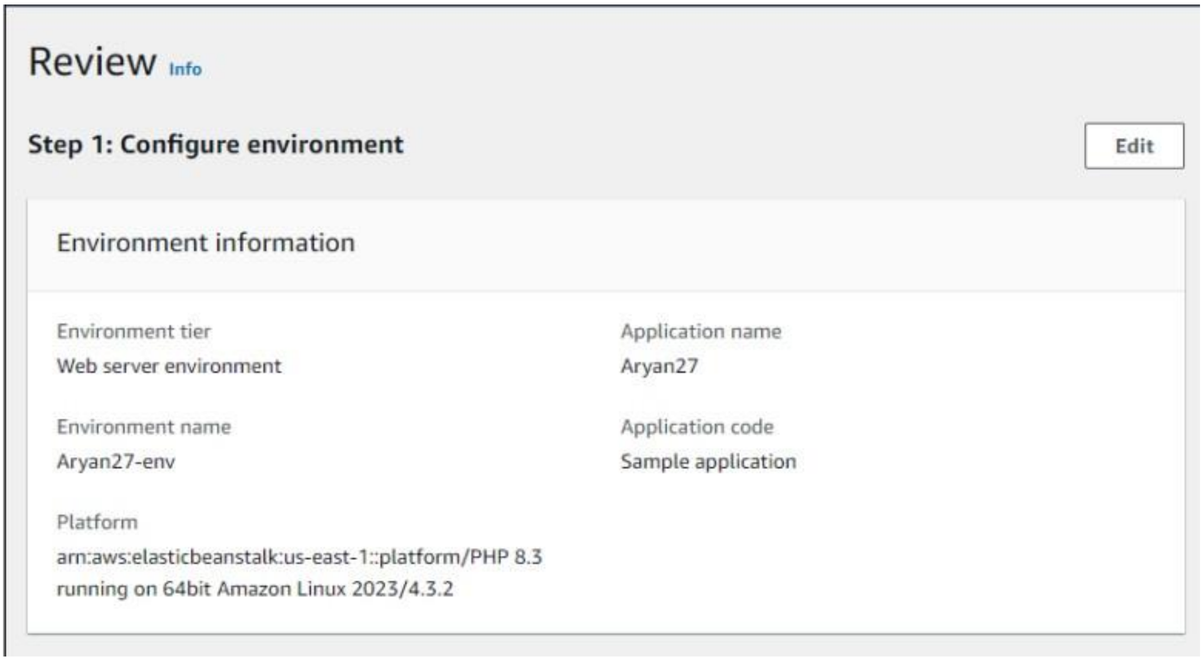
Environment properties

The following properties are passed in the application as environment properties. Learn more

No environment properties have been configured.

Add environment property

Cancel | Previous | Next



Review

Step 1: Configure environment

Environment information

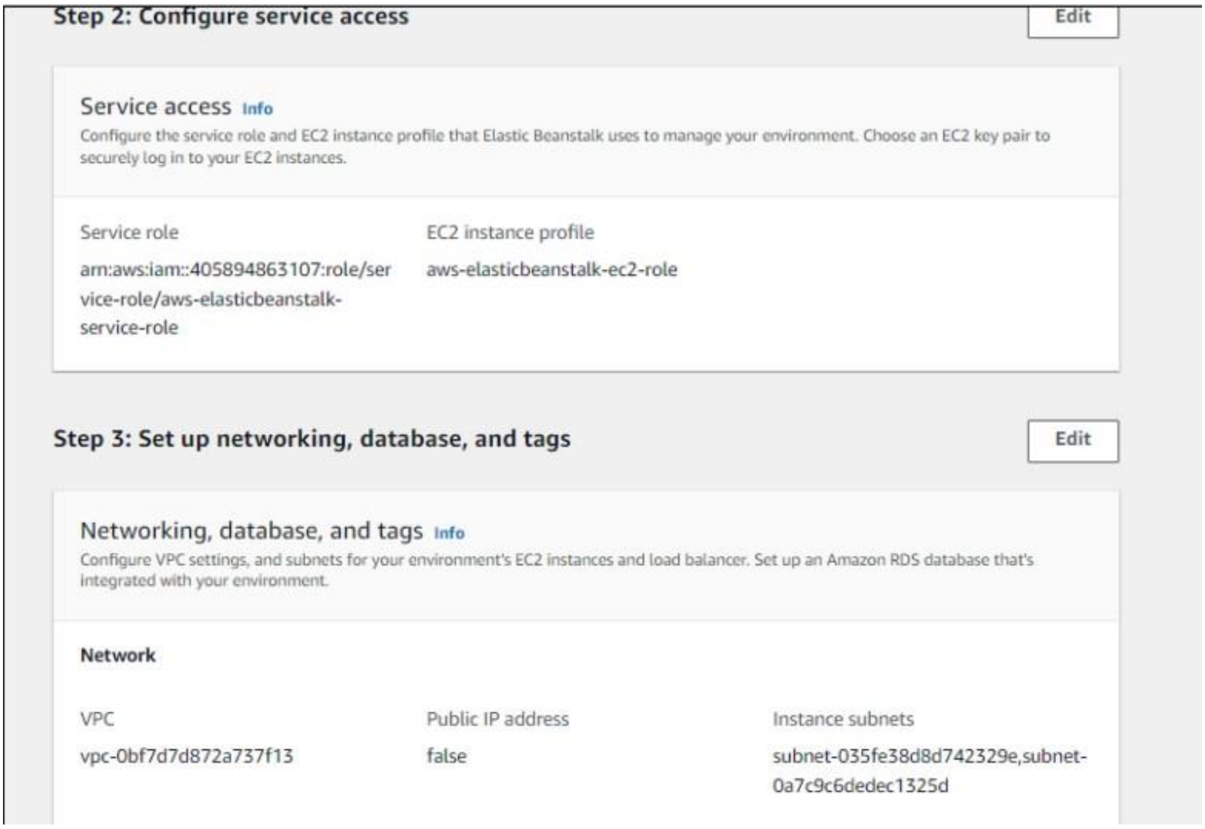
Environment tier
Web server environment

Application name
Aryan27

Environment name
Aryan27-env

Application code
Sample application

Platform
arn:aws:elasticbeanstalk:us-east-1::platform/PHP 8.3 running on 64bit Amazon Linux 2023/4.3.2



Step 2: Configure service access

Service access

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::405894863107:role/service-role/aws-elasticbeanstalk-service-role

EC2 instance profile
aws-elasticbeanstalk-ec2-role

Step 3: Set up networking, database, and tags

Networking, database, and tags

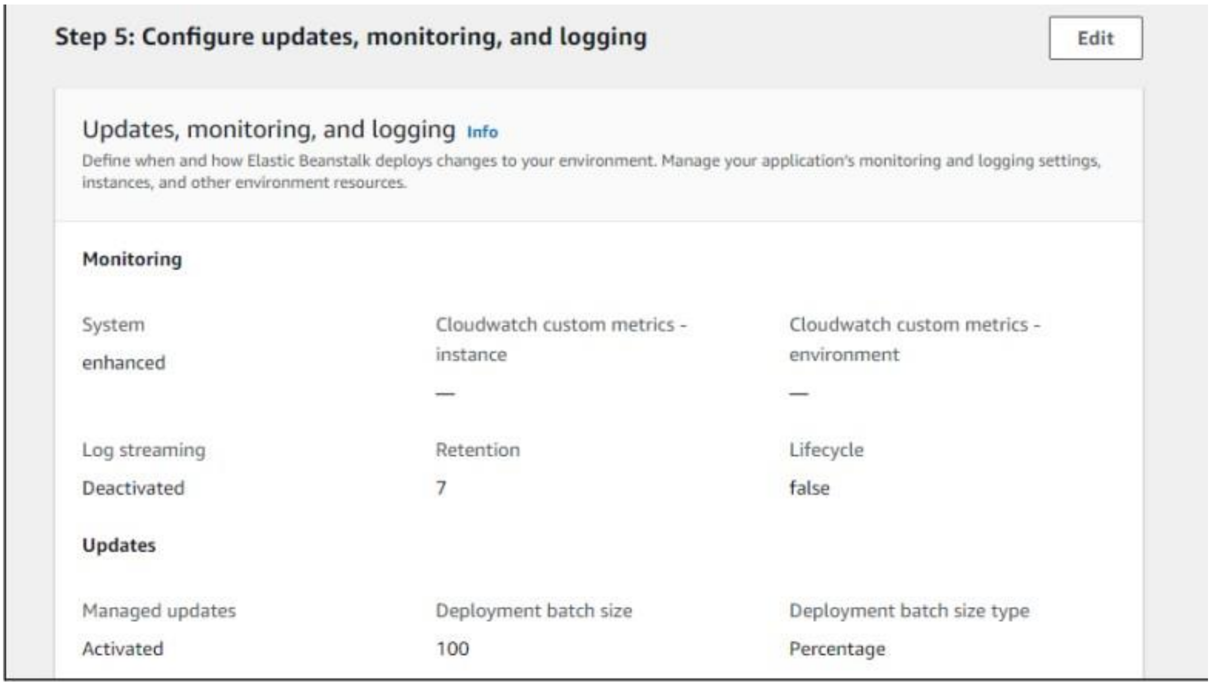
Configure VPC settings, and subnets for your environment's EC2 instances and load balancer. Set up an Amazon RDS database that's integrated with your environment.

Network

VPC
vpc-0bf7d7d872a737f13

Public IP address
false

Instance subnets
subnet-035fe38d8d742329e,subnet-0a7c9c6dedec1325d



Step 5: Configure updates, monitoring, and logging

Updates, monitoring, and logging Info

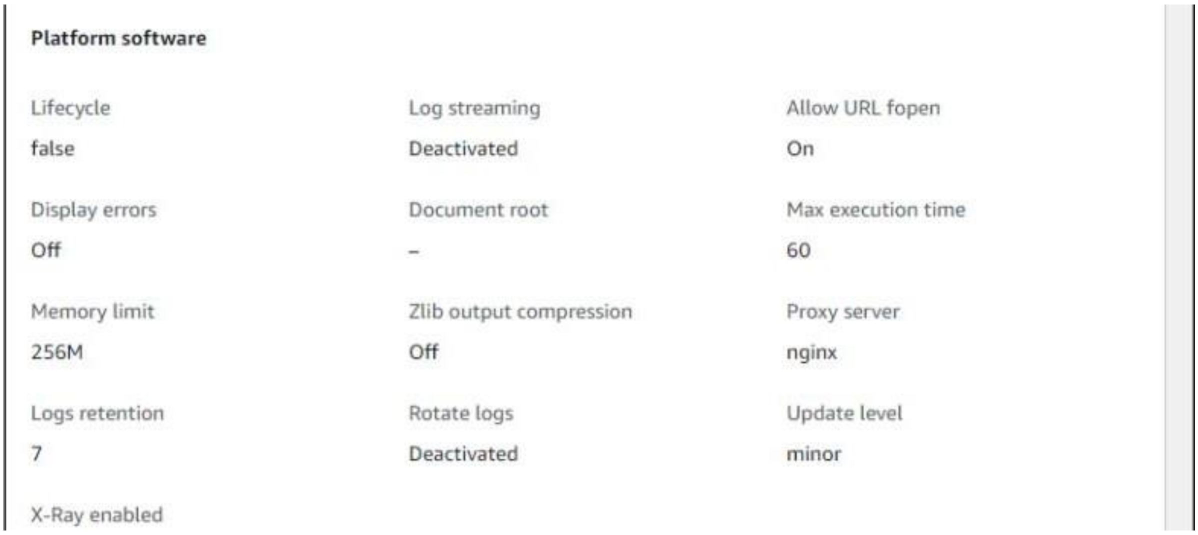
Define when and how Elastic Beanstalk deploys changes to your environment. Manage your application's monitoring and logging settings, instances, and other environment resources.

Monitoring

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

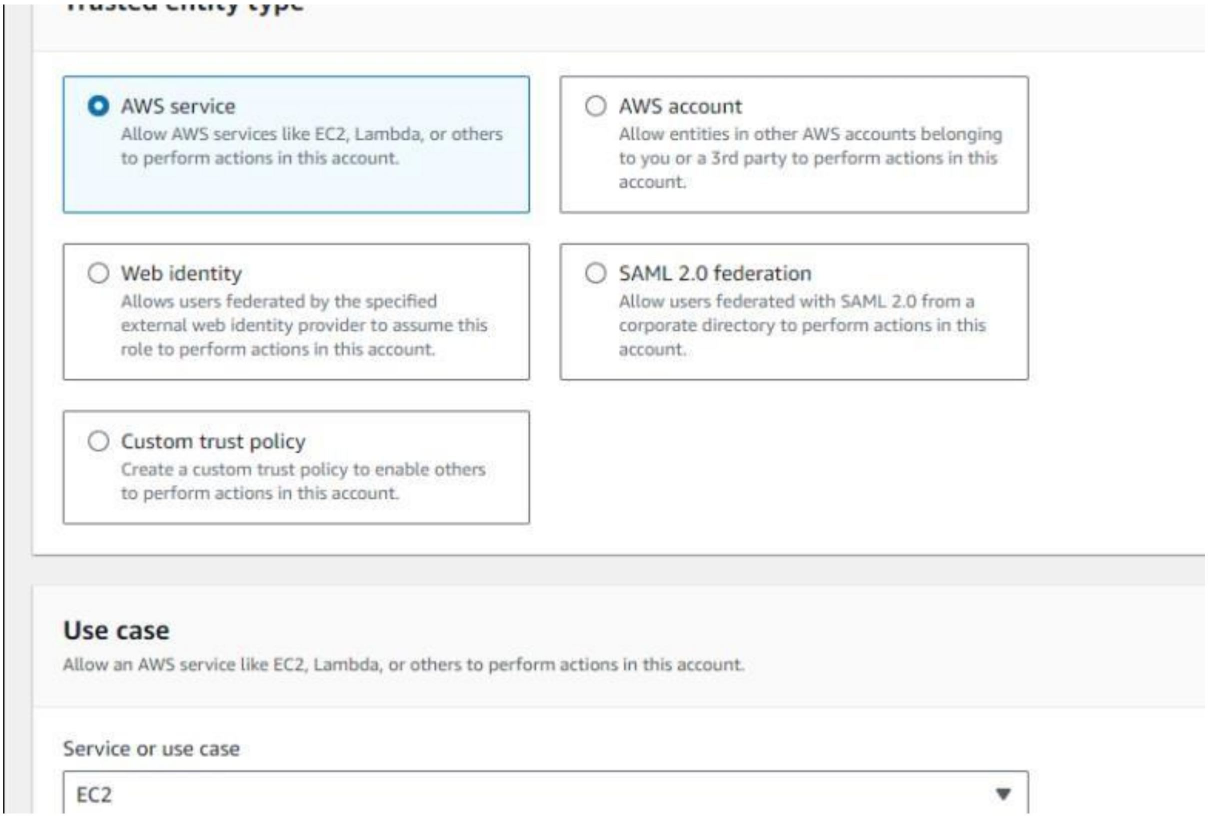
Updates

Managed updates	Deployment batch size	Deployment batch size type
Activated	100	Percentage



Platform software

Lifecycle	Log streaming	Allow URL fopen
false	Deactivated	On
Display errors	Document root	Max execution time
Off	–	60
Memory limit	Zlib output compression	Proxy server
256M	Off	nginx
Logs retention	Rotate logs	Update level
7	Deactivated	minor
X-Ray enabled		



● **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.

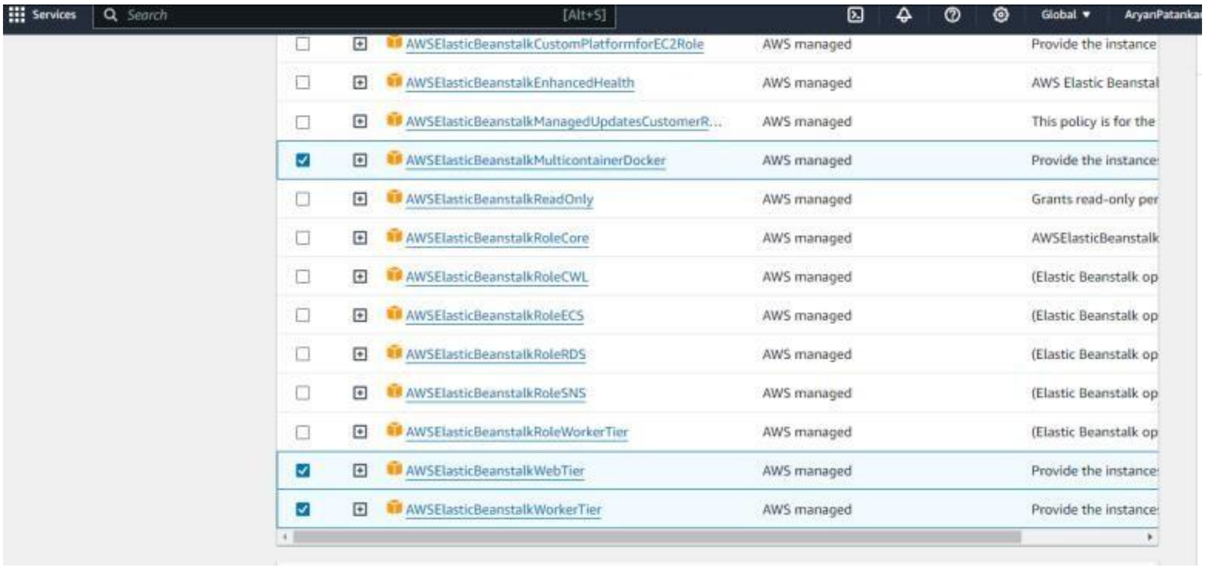
○ **SAML 2.0 federation**
Allow users federated with SAML 2.0 from a corporate directory to perform actions in this account.

○ **Custom trust policy**
Create a custom trust policy to enable others to perform actions in this account.

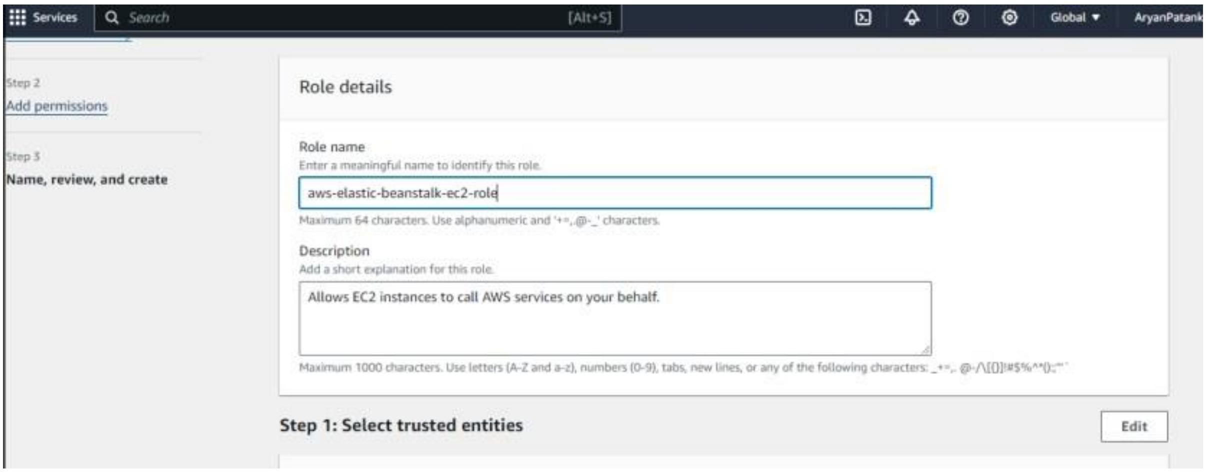
Use case

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

Service or use case: EC2



☐	AWSElasticBeanstalkCustomPlatformforEC2Role	AWS managed	Provide the instance
☐	AWSElasticBeanstalkEnhancedHealth	AWS managed	AWS Elastic Beanstal
☐	AWSElasticBeanstalkManagedUpdatesCustomerR...	AWS managed	This policy is for the
☑	AWSElasticBeanstalkMulticontainerDocker	AWS managed	Provide the instance
☐	AWSElasticBeanstalkReadOnly	AWS managed	Grants read-only per
☐	AWSElasticBeanstalkRoleCore	AWS managed	AWSElasticBeanstalk
☐	AWSElasticBeanstalkRoleCWL	AWS managed	(Elastic Beanstalk op
☐	AWSElasticBeanstalkRoleECS	AWS managed	(Elastic Beanstalk op
☐	AWSElasticBeanstalkRoleRDS	AWS managed	(Elastic Beanstalk op
☐	AWSElasticBeanstalkRoleSNS	AWS managed	(Elastic Beanstalk op
☐	AWSElasticBeanstalkRoleWorkerTier	AWS managed	(Elastic Beanstalk op
☑	AWSElasticBeanstalkWebTier	AWS managed	Provide the instance
☑	AWSElasticBeanstalkWorkerTier	AWS managed	Provide the instance


Services
Search
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Global ▾
AryanPatank
Step 2
Add permissions
Step 3
Name, review, and create
Edit

Role details

Role name

Enter a meaningful name to identify this role.

aws-elastic-beanstalk-ec2-role

Maximum 64 characters. Use alphanumeric and '+=,.@-_' characters.

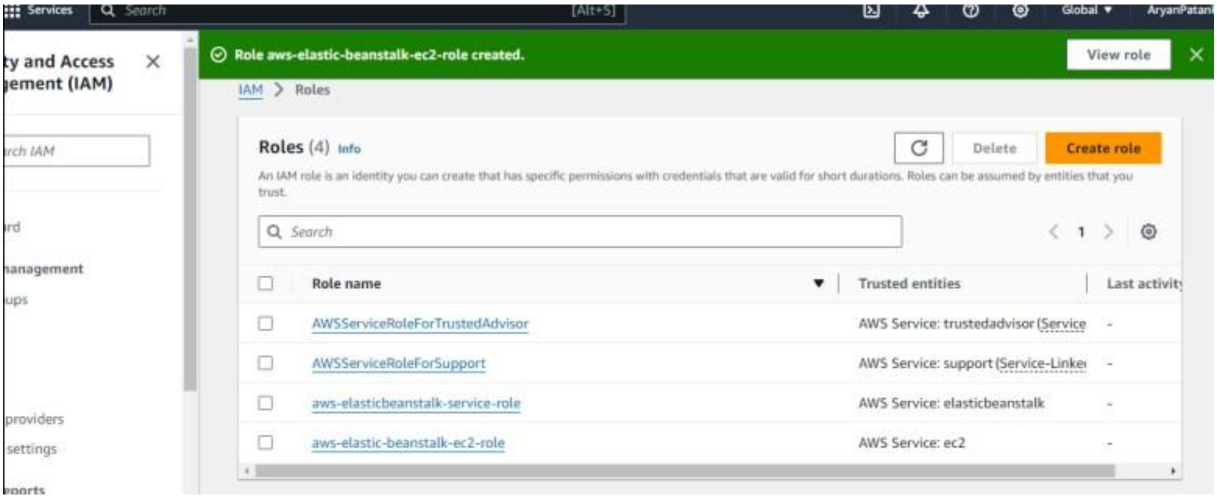
Description

Add a short explanation for this role.

Allows EC2 instances to call AWS services on your behalf.

Maximum 1000 characters. Use letters (A-Z and a-z), numbers (0-9), tabs, new lines, or any of the following characters: _+=,. @-/\[{()]!#$%^*();:"'

Step 1: Select trusted entities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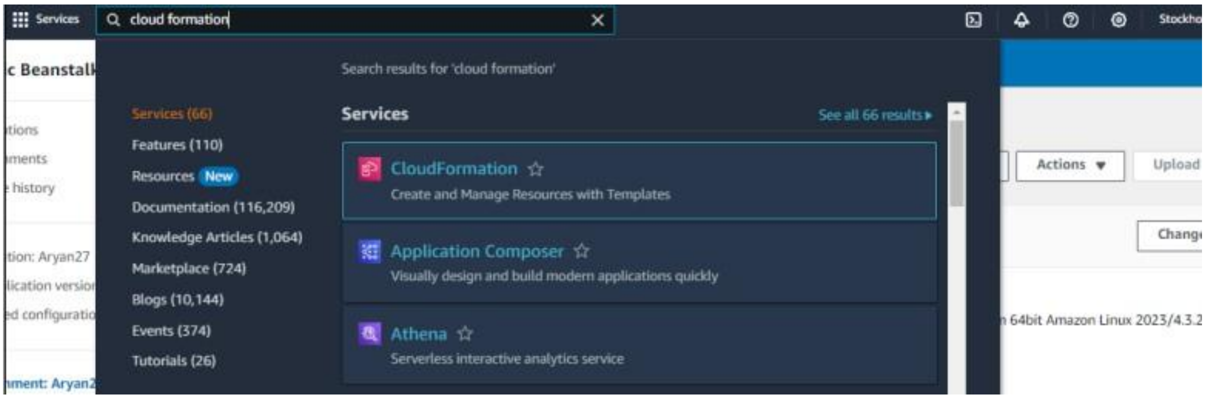
ups
providers
settings
eports
View role
IAM > Roles
Info
Delete
Create role
Search
1

Role aws-elastic-beanstalk-ec2-role created.

Roles (4)

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
☐	AWSServiceRoleForTrustedAdvisor	AWS Service: trustedadvisor (Service	-
☐	AWSServiceRoleForSupport	AWS Service: support (Service-Linke	-
☐	aws-elasticbeanstalk-service-role	AWS Service: elasticbeanstalk	-
☐	aws-elastic-beanstalk-ec2-role	AWS Service: ec2	-


Services
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ments
history
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nment: Aryan2
Services (66)
Features (110)
Resources New
Documentation (116,209)
Knowledge Articles (1,064)
Marketplace (724)
Blogs (10,144)
Events (374)
Tutorials (26)
Services
See all 66 results ▸
Actions ▾
Upload
Chang
n 64bit Amazon Linux 2023/4.3.2

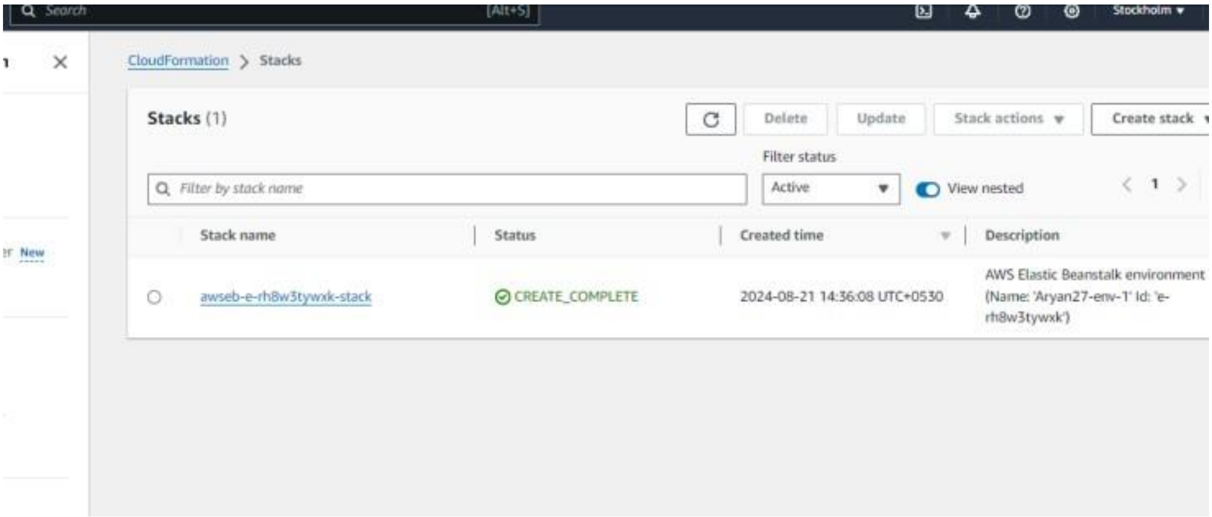
cloud formation

Search results for 'cloud formation'

CloudFormation ☆
Create and Manage Resources with Templates

Application Composer ☆
Visually design and build modern applications quickly

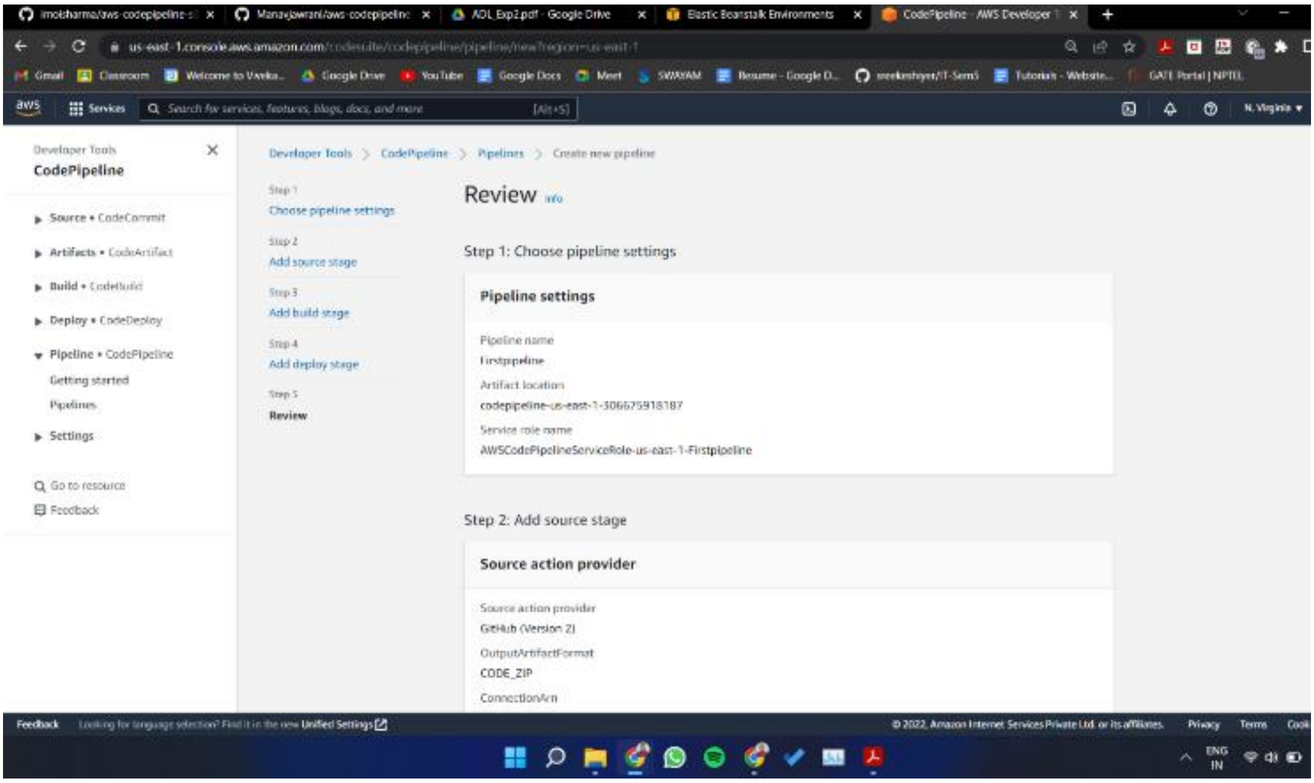
Athena ☆
Serverless interactive analytics service


Search
[Alt+S]
Stockholm
CloudFormation > Stacks
Delete
Update
Stack actions
Create stack
Filter by stack name
View nested
New

Stacks (1)

Filter status: Active

Stack name	Status	Created time	Description
awseb-e-rh8w3tywxk-stack	CREATE_COMPLETE	2024-08-21 14:36:08 UTC+0530	AWS Elastic Beanstalk environment (Name: 'Aryan27-env-1' Id: 'e-rh8w3tywxk')


imolsharma/aws-codepipeline-s
Manavjawrani/aws-codepipeline
ADL_Exp2.pdf - Google Drive
Elastic Beanstalk Environments
CodePipeline - AWS Developer T
us-east-1.console.aws.amazon.com/codesuite/codepipeline/pipeline/new?region=us-east-1
Gmail
Classroom
Welcome to Vivekа...
Google Drive
YouTube
Google Docs
Meet
SWAYAM
Resume - Google D...
seekeshiyer/IT-Sem5
Tutorials - Website...
GATE Portal | NPTEL
Services
Search for services, features, blogs, docs, and more
[Alt+S]
N. Virginia
Developer Tools
CodePipeline
Source • CodeCommit
Artifacts • CodeArtifact
Build • CodeBuild
Deploy • CodeDeploy
Pipeline • CodePipeline
Getting started
Pipelines
Settings
Go to resource
Feedback
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
Info
Feedback
Looking for language selection? Find it in the new Unified Settings
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ENG IN

Review

Step 1: Choose pipeline settings

Pipeline settings

Pipeline name: Firstpipeline

Artifact location: codepipeline-us-east-1-306675918187

Service role name: AWSCodePipelineServiceRole-us-east-1-Firstpipeline

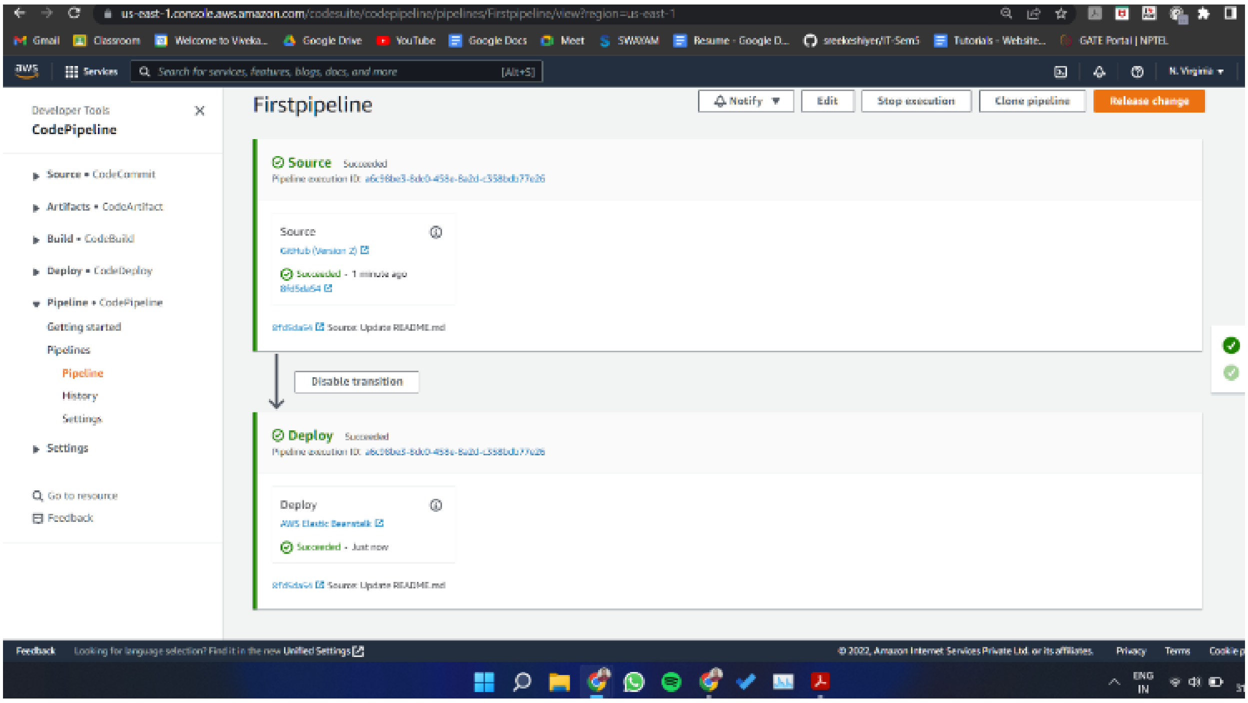
Step 2: Add source stage

Source action provider

Source action provider: GitHub (Version 2)

OutputArtifactFormat: CODE_ZIP

ConnectionArn


us-east-1.console.aws.amazon.com/codesuite/codepipeline/pipelines/Firstpipeline/view?region=us-east-1
Gmail
Classroom
Welcome to Viveka...
Google Drive
YouTube
Google Docs
Meet
SWAYAM
Resume - Google D...
sreekeshiyer/IT-Sem5
Tutorials - Website...
GATE Portal | NPTEL
Services
Search for services, features, blogs, docs, and more
[Alt+S]
N. Virginia
Developer Tools
CodePipeline
Source • CodeCommit
Artifacts • CodeArtifact
Build • CodeBuild
Deploy • CodeDeploy
Pipeline • CodePipeline
Getting started
Pipelines
Pipeline
History
Settings
Settings
Go to resource
Feedback
Notify
Edit
Stop execution
Clone pipeline
Release change
Disable transition
Feedback
Looking for language selection? Find it in the new Unified Settings
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ENG
IN

Firstpipeline

Source Succeeded

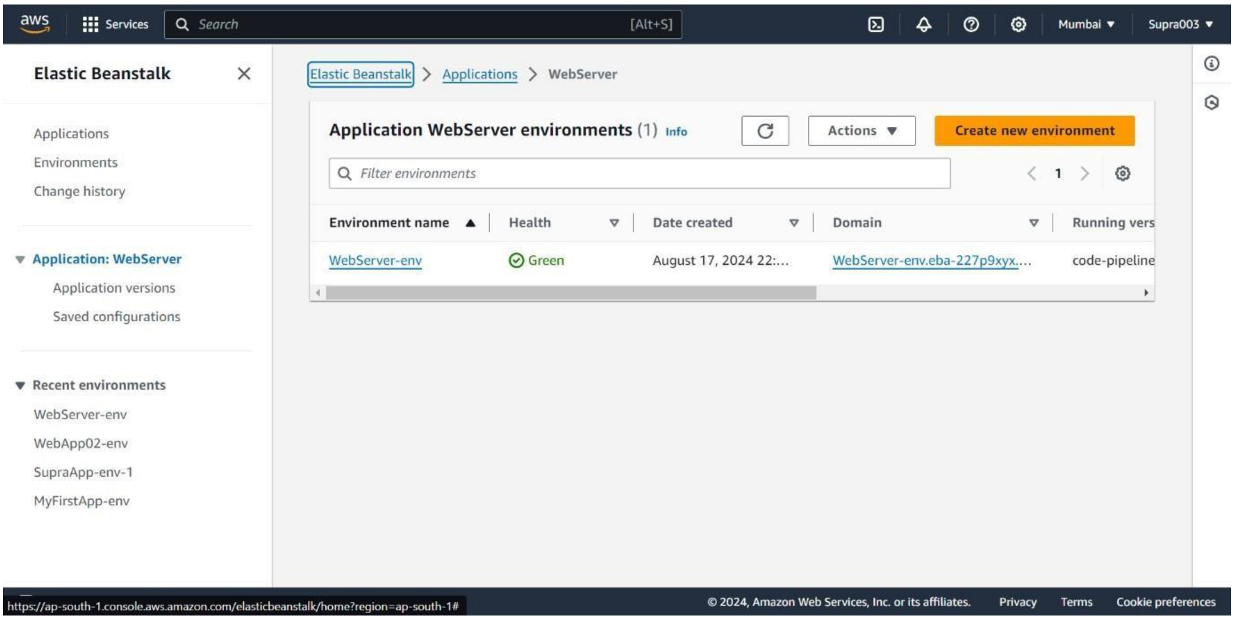
Source
GitHub (Version 2)
Succeeded - 1 minute ago

Source: Update README.md

Deploy Succeeded

Deploy
AWS Elastic Beanstalk
Succeeded - Just now

Source: Update README.md


aws
Services
Search
[Alt+S]
Mumbai
Supra003
Elastic Beanstalk
Applications
Environments
Change history
Application: WebServer
Application versions
Saved configurations
Recent environments
WebServer-env
WebApp02-env
SupraApp-env-1
MyFirstApp-env
Info
Actions
Create new environment
Filter environments
1
https://ap-south-1.console.aws.amazon.com/elasticbeanstalk/home?region=ap-south-1#
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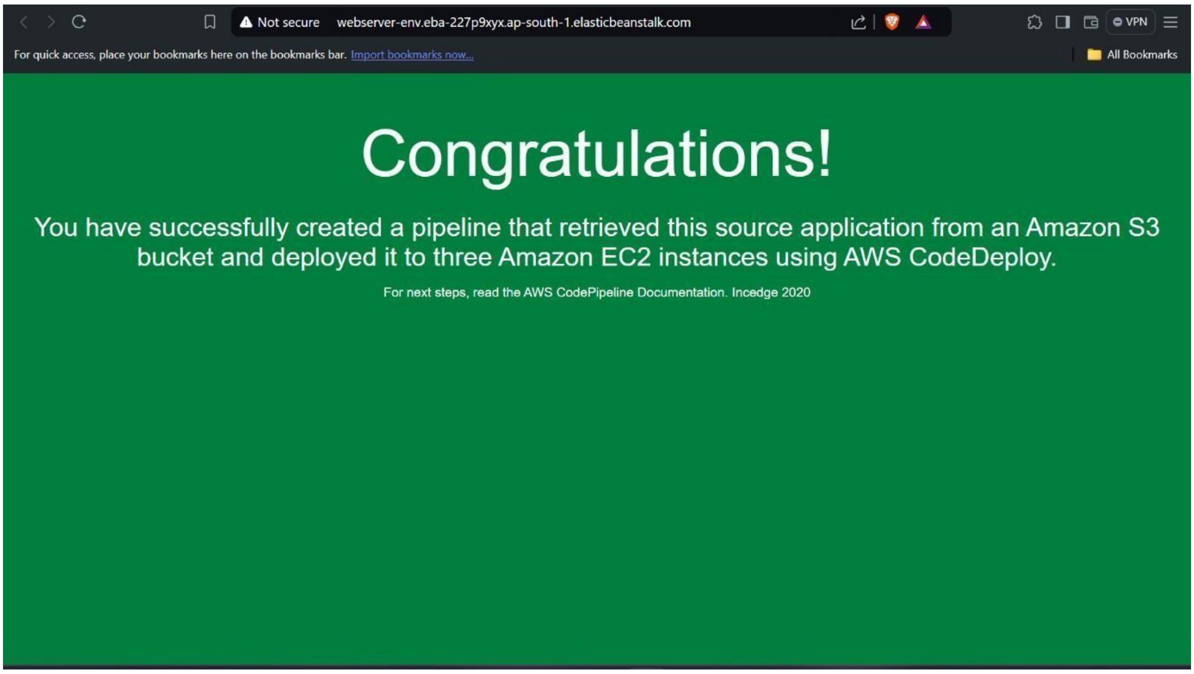
Elastic Beanstalk > Applications > WebServer

Application WebServer environments (1)

Environment name	Health	Date created	Domain	Running vers
WebServer-env	Green	August 17, 2024 22:...	WebServer-env.eba-227p9xyx....	code-pipeline

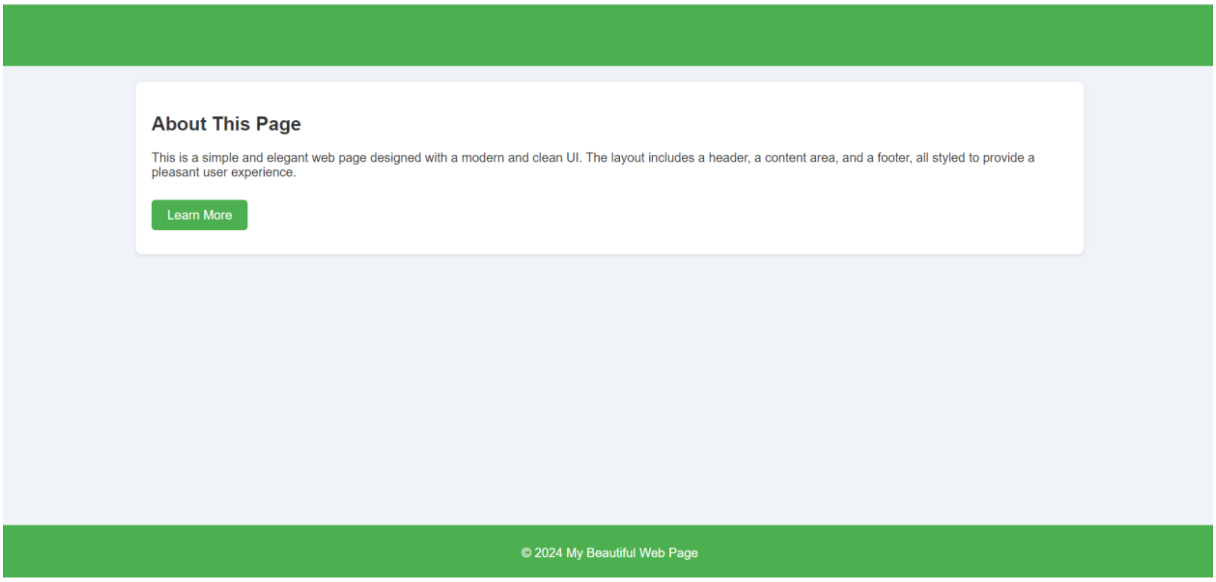


Not secure
webserver-env.eba-227p9xyx.ap-south-1.elasticbeanstalk.com
VPN
For quick access, place your bookmarks here on the bookmarks bar. Import bookmarks now...
All Bookmarks

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



About This Page

This is a simple and elegant web page designed with a modern and clean UI. The layout includes a header, a content area, and a footer, all styled to provide a pleasant user experience.

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