

PUBLIC CLOUD

DEVELOP AN APPLICATION USING ELASTIC BEANSTALK INSTANCE

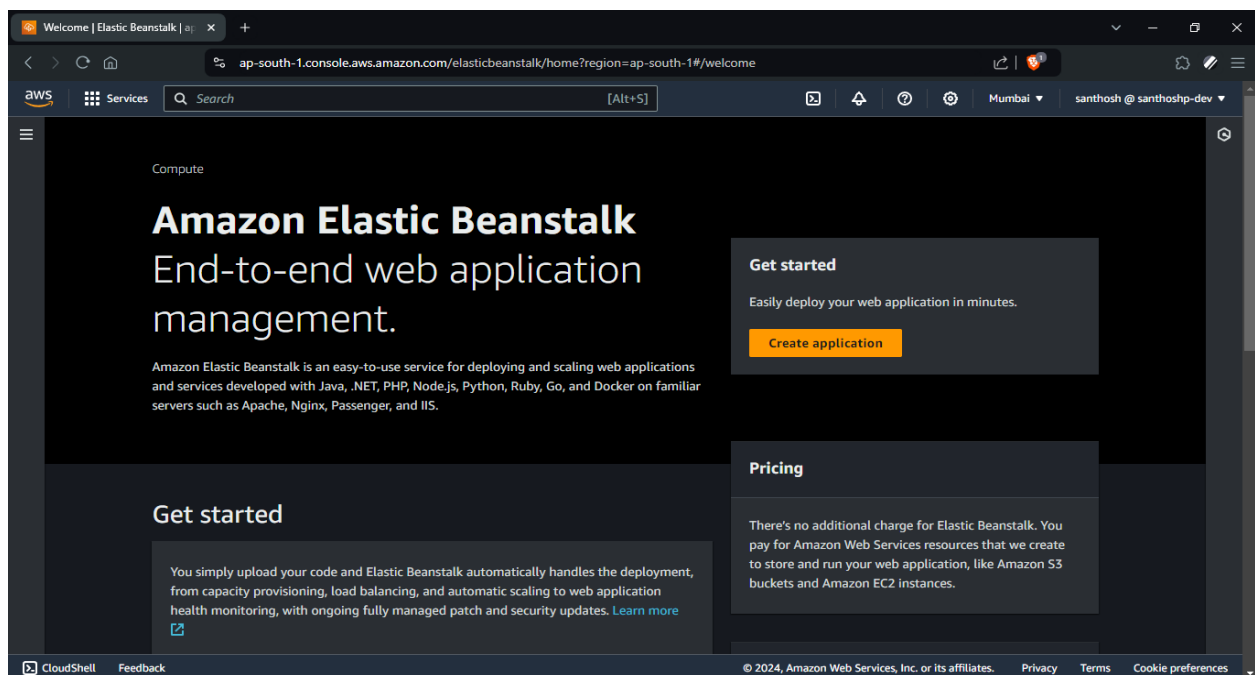
AIM:

Develop a simple application to understand the concept of PAAS using AWS.

PROCEDURE:

1. Log in to your AWS Account.
2. In the Amplify console, click Get Started section.
3. Under that choose Host your web app button. Then pass Get Started.
4. Choose Continue.
5. In the App name field, enter the name of the app.
6. For Environment name, enter dev.
7. Select Drag and Drop method.
8. Choose the “Choose Files” button.
9. Select the zip file of the project that you want to deploy.
10. Click Save and Deploy button.
11. After few seconds, there will be a message for Successful Deployment.
12. To test the app, select Domain Management in the left navigation menu, copy and paste the URL displayed in the form into browser.

OUTPUT:



Configure environment | Elastic

ap-south-1.console.aws.amazon.com/elasticbeanstalk/home?region=ap-south-1#/create-environment

ServicesSearch[Alt+S]

Mumbai | santhosh @ santhoshp-dev

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

Environment tier

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

Application name

MyApplication

Maximum length of 100 characters.

▶ Application tags (optional)

Environment information

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

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Step 1

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Review

▶ Application tags (optional)

Environment information

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

Environment name

MyApplication-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

santhosh

.ap-south-1.elasticbeanstalk.com

Check availability

☒ santhosh.ap-south-1.elasticbeanstalk.com is available

Environment description

Platform

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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

Node.js

Platform branch

Node.js 20 running on 64bit Amazon Linux 2023

Platform version

6.2.0 (Recommended)

Application code Info

☒ Sample application
☐ Existing version
Application versions that you have uploaded.

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aws Services Search [Alt+S]

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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

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Configure service access | Elastic Beanstalk

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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

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-service-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.

SSMRole

View permission details

Cancel

Skip to review

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Ignore health check

false

Instance replacement

false

Platform software

Lifecycle

false

Log streaming

Deactivated

Proxy server

nginx

Logs retention

7

Rotate logs

Deactivated

Update level

minor

X-Ray enabled

Deactivated

Environment properties

Key

Value

No environment properties

There are no environment properties defined

Cancel

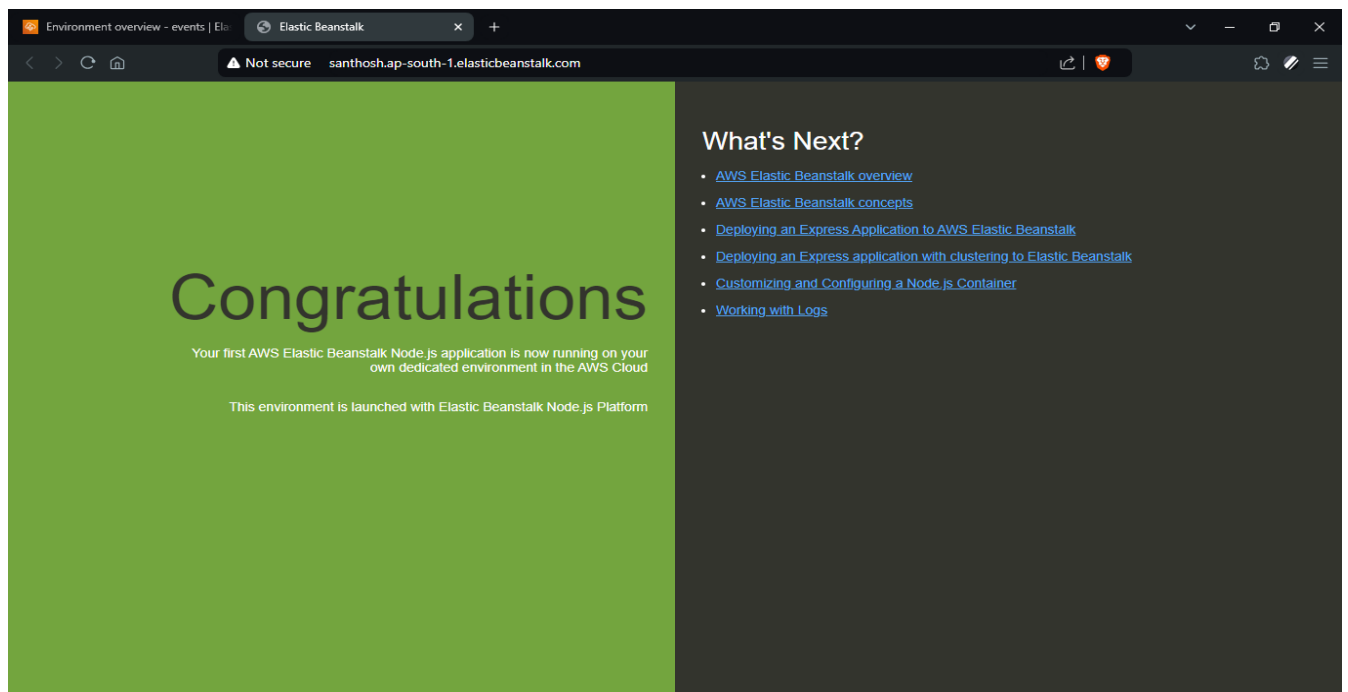
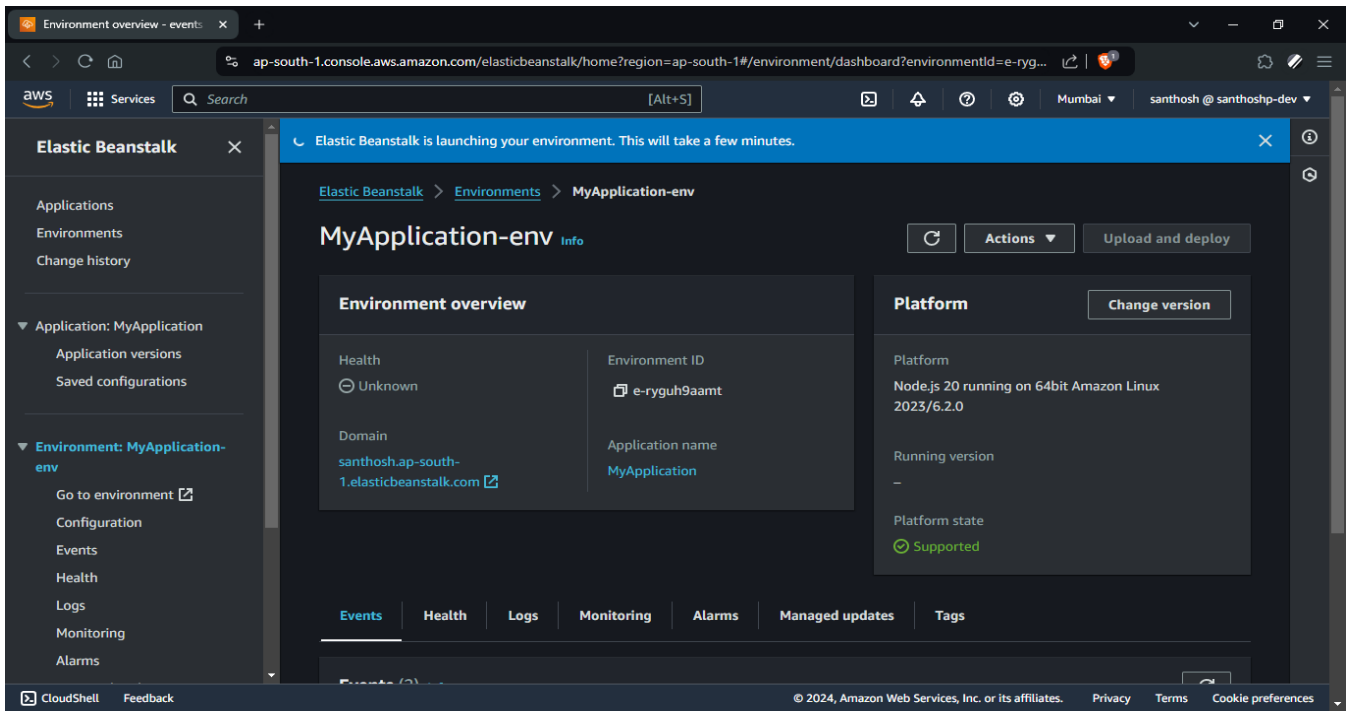
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RESULT:

Thus a simple application to understand the concept of PAAS using AWS is done successfully.