EXPERIMENT 2

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Aim :To Build Your Application using AWS CodeBuild and Deploy on S3 / SEBS using AWS CodePipeline, deploy Sample Application on EC2 instance using AWS CodeDeploy.

Elastic Beanstalk

Step 1: create environment

Step 2 : add your Ec2 key pair and instance profile

Step 3 : add security config and review all settings

Monitoring Info

Health reporting

Enhanced health reporting provides free real-time application and operating system monitoring of the instances and other resources in your environment. The **EnvironmentHealth** custom metric is provided free with enhanced health reporting. Additional charges apply for each custom metric. For more information, see Amazon CloudWatch Pricing ↗

System
- ○ Basic
- ● Enhanced

CloudWatch Custom Metrics - Instance

Choose metrics ▼

CloudWatch Custom Metrics - Environment

Choose metrics ▼

Health event streaming to CloudWatch Logs

Configure Elastic Beanstalk to stream environment health events to CloudWatch Logs. You can set the retention up to a maximum of ten years and configure Elastic Beanstalk to delete the logs when you terminate your environment.

Log streaming
- ☐ Activated (standard CloudWatch charges apply.)

Retention

7 ▼

Lifecycle

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

Review Info

Step 1: Configure environment   [Edit]

Environment information

Environment tier
Web server environment

Application name
mohitbean

Environment name
Mohitbean-env

Application code
Sample application

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

Step 2: Configure service access   [Edit]

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.

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aws ::: Services Q Search   [Alt+S]   Mumbai ▼   MohitPatil ▼

Elastic Beanstalk ✕

⊘ Environment successfully launched.   ✕

Applications
Environments
Change history

▼ Application: mohitbean
    Application versions
    Saved configurations

▼ Environment: Mohitbean-env
    Go to environment ↗
    Configuration
    Events
    Health
    Logs
    Monitoring
    Alarms

Elastic Beanstalk > Environments > Mohitbean-env

Mohitbean-env Info   ↻   Actions ▼   Upload and deploy

Environment overview   **Platform**   [Change version]

Health   Environment ID   Platform
⊘ Ok   🗇 e-8jcp97pasv   PHP 8.3 running on 64bit Amazon Linux 2023/4.3.2

Domain   Application name   Running version   Platform state
Mohitbean-env.eba-qsim2f4q.ap-south-   mohitbean   –   ⊘ Supported
1.elasticbeanstalk.com ↗

Events | Health | Logs | Monitoring | Alarms | Managed updates | Tags
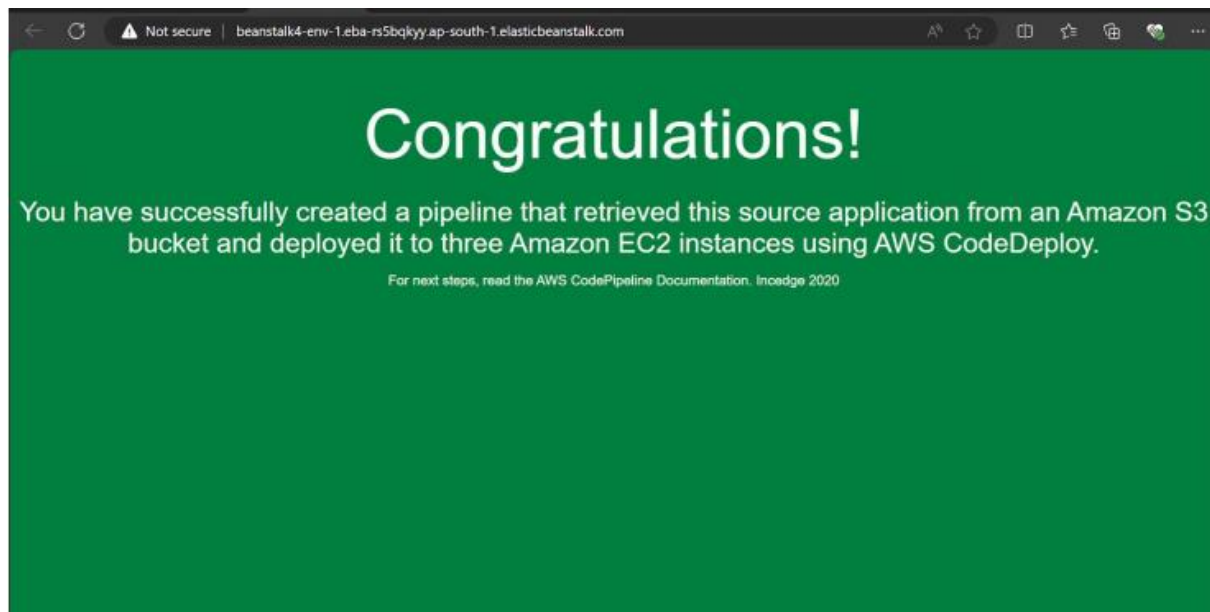
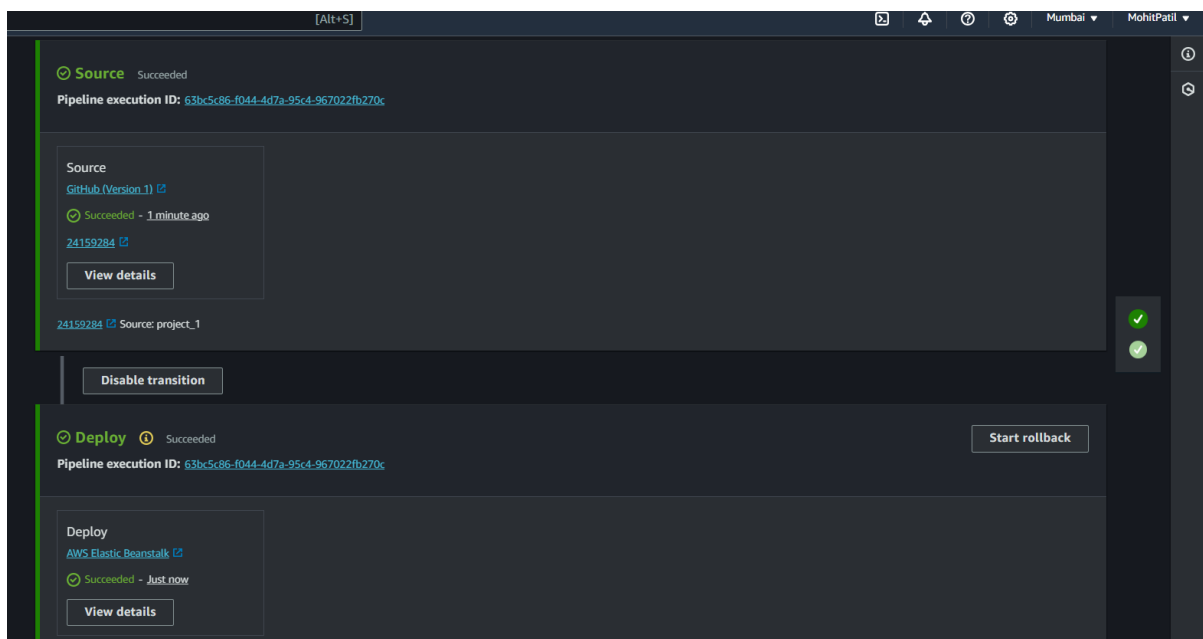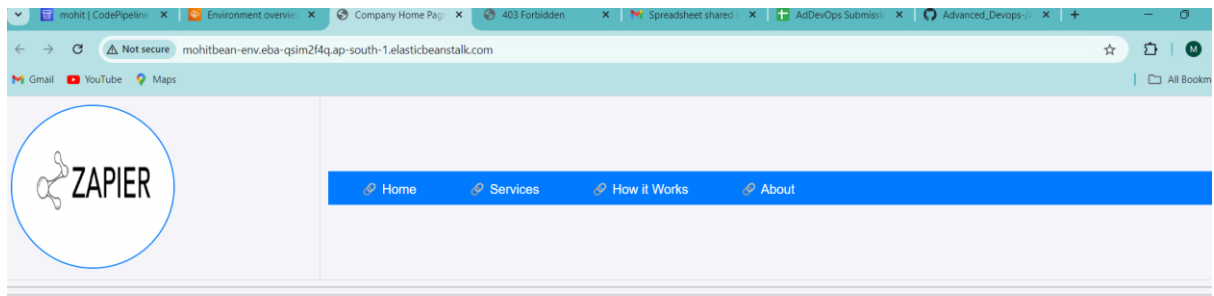**Events** (12) Info   ↻

Step 4 : Beanstalk environment is created

view the pipeline build and deployment

Check the deployed website at beanstalk link