INFOTRIXS FINAL PROJECT

Project Statement: Scalable Web Application

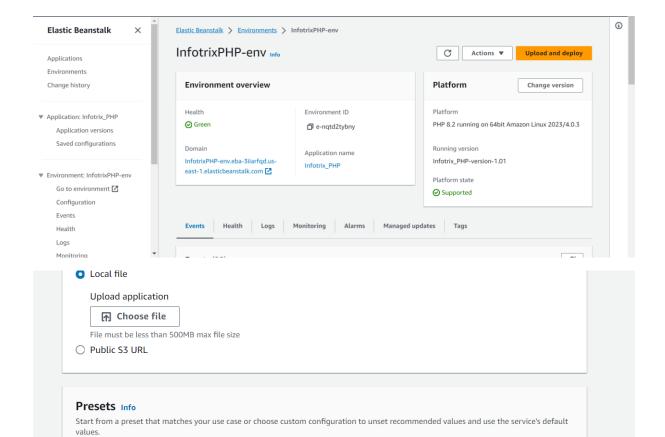
Description: Develop a scalable web application using AWS Elastic Beanstalk, EC2, and RDS. The application should handle high traffic and dynamically scale resources as needed. Implementation: Use AWS Elastic Beanstalk to deploy and manage the web application. Utilize EC2 instances and RDS for hosting the application and database. Implement load balancing and auto-scaling configurations.

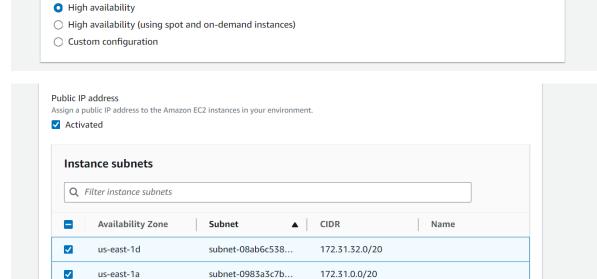
Scalable-Web-Application

1. Created VPC with public subnet and private subnet



- 2.Created Elastic Beanstalk (EBS)
- Created Application
- -Created Environment





172.31.64.0/20

172.31.48.0/20

172.31.16.0/20

172.31.80.0/20

subnet-0b7c9e5fe...

subnet-0bcee861d...

subnet-0d6bcef8d...

subnet-0d9a421d4...

Configuration presets

✓

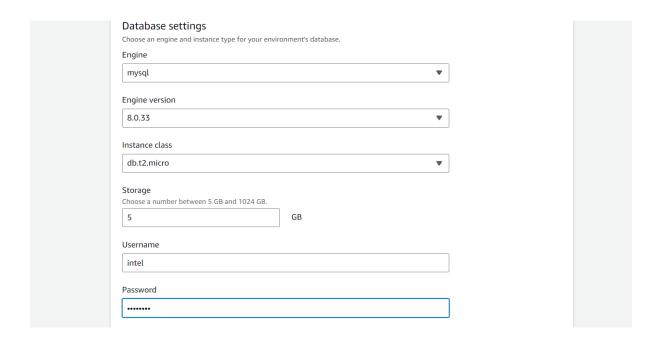
us-east-1f

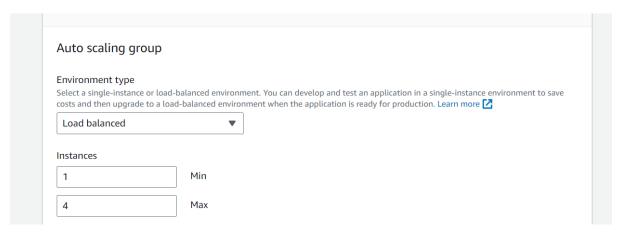
us-east-1e

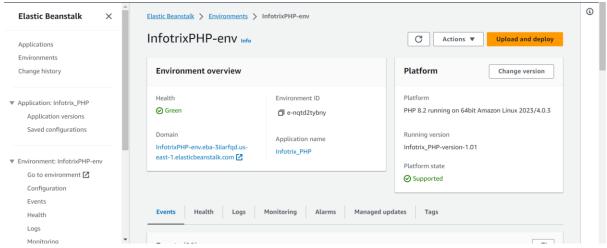
us-east-1c

us-east-1b

Single instance (free tier eligible)Single instance (using spot instance)







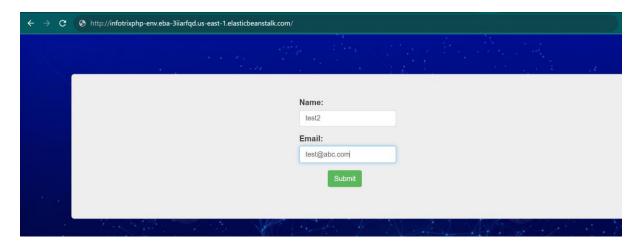
Events:

	1	
November 27, 2023 19:32:31 (UTC+5:30)	(i) INFO	Environment update completed successfully.
November 27, 2023 19:32:31 (UTC+5:30)	(i) INFO	Successfully deployed new configuration to environment.
November 27, 2023 19:32:31 (UTC+5:30)	(i) INFO	New application version was deployed to running EC2 instances.
November 27, 2023 19:32:09 (UTC+5:30)	(i) INFO	Instance deployment completed successfully.
November 27, 2023 19:32:02 (UTC+5:30)	(3) INFO	Instance deployment: You didn't include a 'composer.json' file in your source bundle. The deployment didn't install Composer dependencies.
November 27, 2023 19:31:58 (UTC+5:30)	(i) INFO	Deploying new version to instance(s).
November 27, 2023 19:31:39 (UTC+5:30)	(i) INFO	Updating environment InfotrixPHP-env's configuration settings.
November 27, 2023 19:31:31 (UTC+5:30)	(i) INFO	Environment update is starting.
November 27, 2023 19:28:50 (UTC+5:30)	(i) INFO	Successfully launched environment: InfotrixPHP-env
November 27, 2023 19:28:49 (UTC+5:30)	(i) INFO	Application available at InfotrixPHP-env.eba-3iiarfqd.us-east-1.elasticbeanstalk.com.

Initiated a sample execution using PHP web application



Upload and deployed Customized PHP web application.



Application is Up and running

Connected to an RDS

```
mysql> select * from data;
  firstname
              email
              admin@admin.com
  ghffgh
  test1
              admin@admin.com
3 rows in set (0.00 sec)
mysql> select * from data;
  firstname
              email
 ghffgh
              admin@admin.com
              admin@admin.com
  test1
  test2
              test@abc.com
4 rows in set (0.00 sec)
```

Conclusion:

Hence as per the requirements Developed a scalable web application using AWS Elastic Beanstalk, EC2, and RDS. The application is built to handle high traffic and dynamically scale resources as needed.