INFOTRIXS FINAL PROJECT

Team Name: Cloud 01

Team Details:

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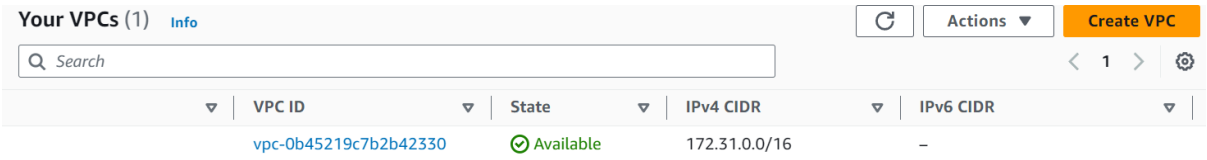
Scalable-Web-Application

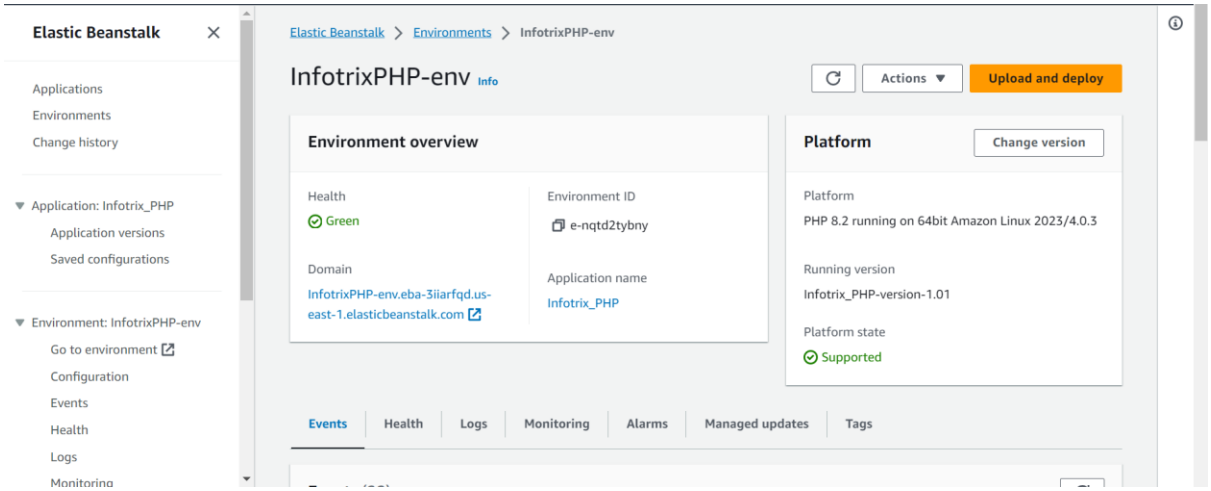
1. Created VPC with public subnet and private subnet



2.Created Elastic Beanstalk (EBS)

- Created Application

-Created Environment



Local file

Upload application

Choose file

File must be less than 500MB max file size

Public S3 URL

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

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-1d	subnet-08ab6c538…	172.31.32.0/20	
us-east-1a	subnet-0983a3c7b…	172.31.0.0/20	
us-east-1f	subnet-0b7c9e5fe…	172.31.64.0/20	
us-east-1e	subnet-0bcee861d…	172.31.48.0/20	
us-east-1c	subnet-0d6bcef8d…	172.31.16.0/20	
us-east-1b	subnet-0d9a421d4…	172.31.80.0/20	

Database settings

Choose an engine and instance type for your environment's database.

Engine

mysql

Engine version

8.0.33

Instance class

db.t2.micro

Storage

Choose a number between 5 GB and 1024 GB.

5 GB

Username

intel

Password

••••••••

Auto scaling group

Environment type

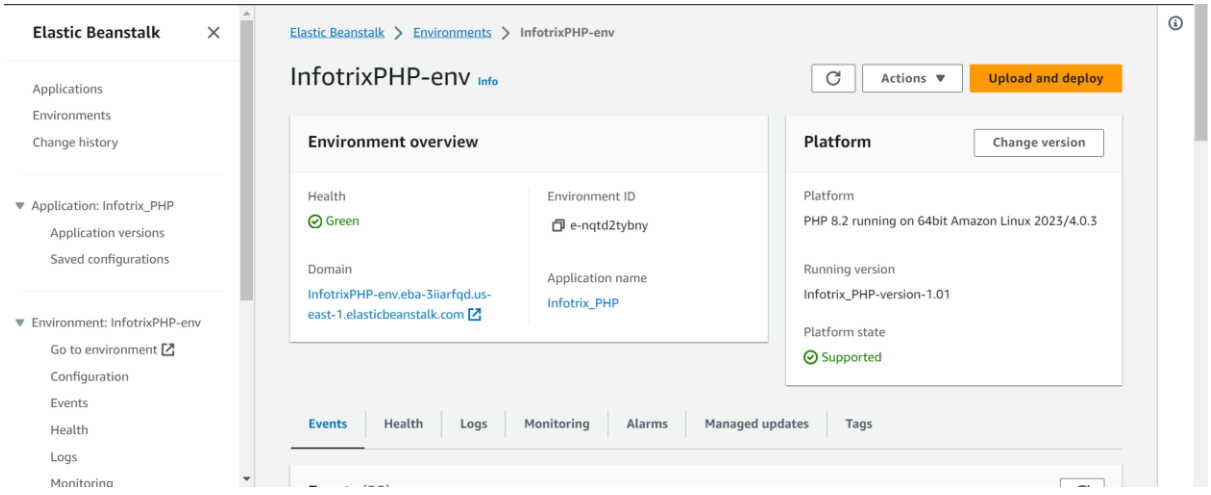
Select a single-instance or load-balanced environment. You can develop and test an application in a single-instance environment to save costs and then upgrade to a load-balanced environment when the application is ready for production. Learn more

Load balanced

Instances

1 Min

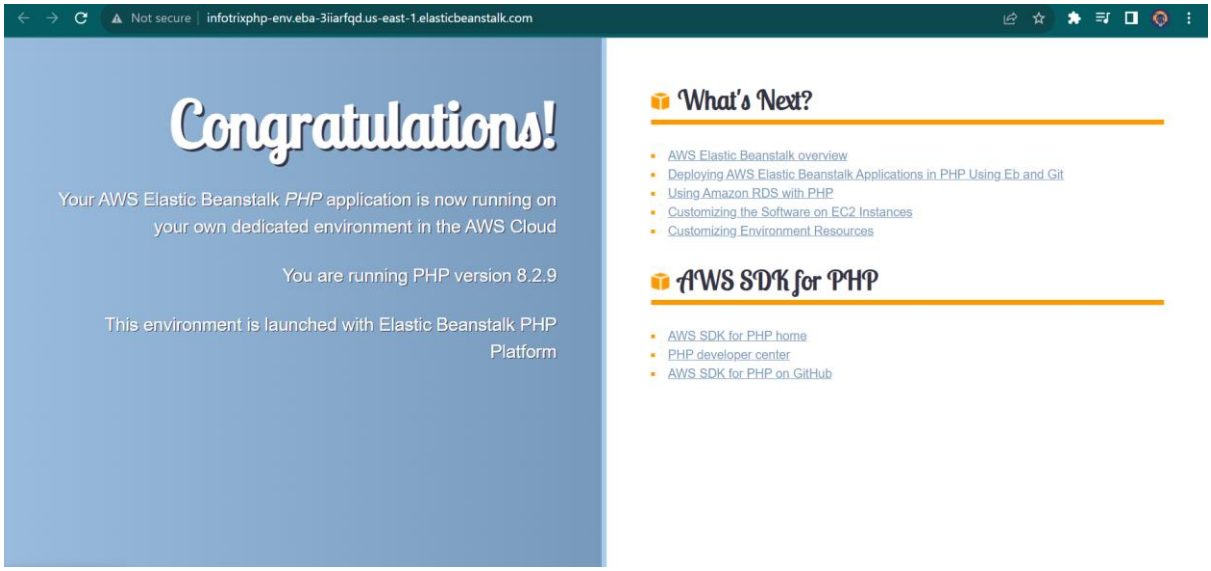
4 Max



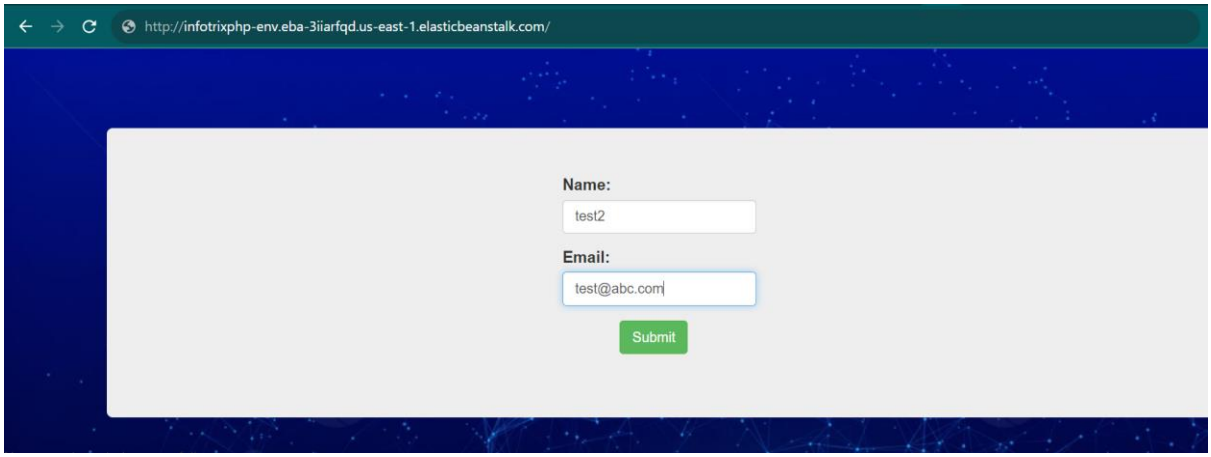
Events:

November 27, 2023 19:32:31 (UTC+5:30)	INFO	Environment update completed successfully.
November 27, 2023 19:32:31 (UTC+5:30)	INFO	Successfully deployed new configuration to environment.
November 27, 2023 19:32:31 (UTC+5:30)	INFO	New application version was deployed to running EC2 instances.
November 27, 2023 19:32:09 (UTC+5:30)	INFO	Instance deployment completed successfully.
November 27, 2023 19:32:02 (UTC+5:30)	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)	INFO	Deploying new version to instance(s).
November 27, 2023 19:31:39 (UTC+5:30)	INFO	Updating environment InfotrixPHP-env's configuration settings.
November 27, 2023 19:31:31 (UTC+5:30)	INFO	Environment update is starting.
November 27, 2023 19:28:50 (UTC+5:30)	INFO	Successfully launched environment: InfotrixPHP-env
November 27, 2023 19:28:49 (UTC+5:30)	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

```
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| intel              |
| mysql              |
| performance_schema |
| sys                |
+--------------------+
5 rows in set (0.00 sec)

mysql> use intel
Database changed
mysql> show tables;
Empty set (0.00 sec)

mysql> Create Table
    ->
    -> ^C
mysql> show tables
```

```
Query OK, 0 rows affected (0.04 sec)

mysql> describe data;
+-----------+-------------+------+-----+---------+-------+
| Field     | Type        | Null | Key | Default | Extra |
+-----------+-------------+------+-----+---------+-------+
| firstname | varchar(20) | YES  |     | NULL    |       |
| email     | varchar(20) | YES  |     | NULL    |       |
+-----------+-------------+------+-----+---------+-------+
2 rows in set (0.00 sec)

mysql> exit
Bye
root@ip-172-31-21-86:/var/www/html#
root@ip-172-31-21-86:/var/www/html# ls
images  index.php
root@ip-172-31-21-86:/var/www/html# sudo nano index.php
root@ip-172-31-21-86:/var/www/html# mysql -h inforixproject.crqo4yptbbor.us-east-1.rds.amazonaws.com -u intel -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 25
Server version: 8.0.33 Source distribution
```

```
mysql> select * from data;
+-----------+-----------------+
| firstname | email           |
+-----------+-----------------+
| ghffgh    | admin@admin.com |
|           |                 |
| test1     | admin@admin.com |
+-----------+-----------------+
3 rows in set (0.00 sec)

mysql> select * from data;
+-----------+-----------------+
| firstname | email           |
+-----------+-----------------+
| ghffgh    | admin@admin.com |
|           |                 |
| test1     | admin@admin.com |
| 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.