

# 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

Your VPCs (1) [Info](#)

↺

Actions ▾

Create VPC

🔍 Search

⏪

1

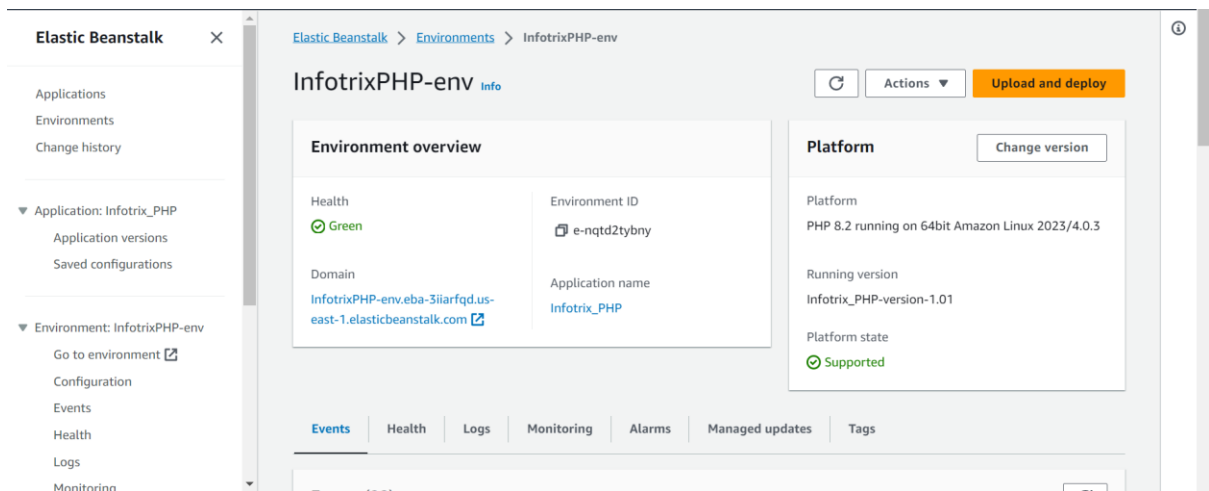
⏩

⚙️

▼	VPC ID	State	▼	IPv4 CIDR	▼	IPv6 CIDR	▼
	<a href="#">vpc-0b45219c7b2b42330</a>	✔️ Available		172.31.0.0/16		-	


### 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
<input checked="" type="checkbox"/>	us-east-1d	subnet-08ab6c538...	172.31.32.0/20	
<input checked="" type="checkbox"/>	us-east-1a	subnet-0983a3c7b...	172.31.0.0/20	
<input checked="" type="checkbox"/>	us-east-1f	subnet-0b7c9e5fe...	172.31.64.0/20	
<input type="checkbox"/>	us-east-1e	subnet-0bcee861d...	172.31.48.0/20	
<input type="checkbox"/>	us-east-1c	subnet-0d6bcef8d...	172.31.16.0/20	
<input type="checkbox"/>	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

## Elastic Beanstalk

Applications  
Environments  
Change history

▼ Application: Infotrix\_PHP  
Application versions  
Saved configurations

▼ Environment: InfotrixPHP-env  
Go to environment  
Configuration  
Events  
Health  
Logs  
Monitoring

Elastic Beanstalk > Environments > InfotrixPHP-env

## InfotrixPHP-env



Actions

Upload and deploy

### Environment overview

Health  
Green

Environment ID  
e-nqtd2tybny

Domain  
InfotrixPHP-env.eba-3iiafkd.us-east-1.elasticbeanstalk.com

Application name  
Infotrix\_PHP

### Platform

Change version

Platform  
PHP 8.2 running on 64bit Amazon Linux 2023/4.0.3

Running version  
Infotrix\_PHP-version-1.01

Platform state  
Supported

Events Health Logs Monitoring Alarms Managed updates Tags

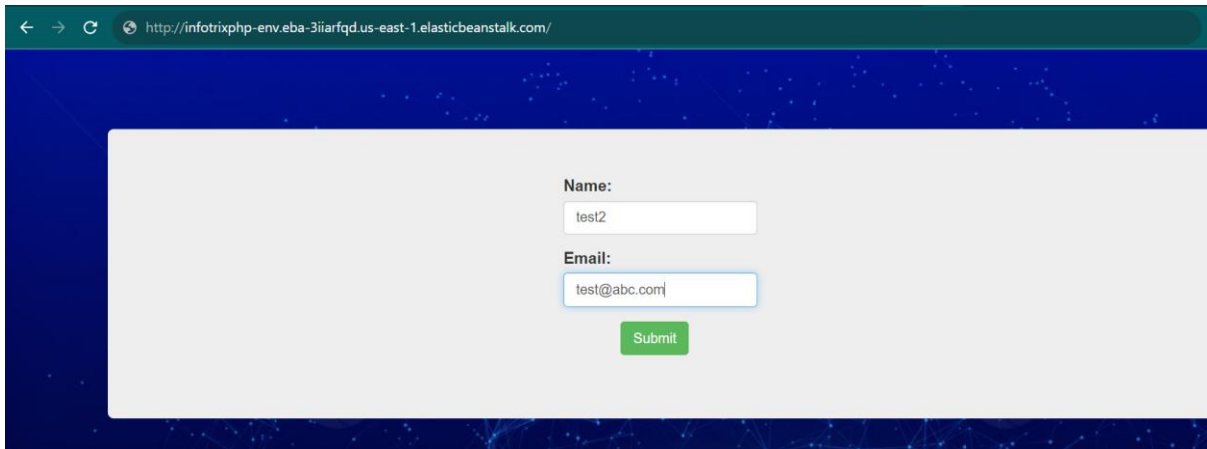
## Events:

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-3iiafqd.us-east-1.elasticbeanstalk.com.

## Initiated a sample execution using PHP web application

The screenshot shows a web browser window with the URL `infotrixphp-env.eba-3iiafqd.us-east-1.elasticbeanstalk.com`. The page has a blue header and a white main content area. On the left, a large 'Congratulations!' message is displayed in a stylized font. Below it, text states: 'Your AWS Elastic Beanstalk PHP application is now running on your own dedicated environment in the AWS Cloud'. Further down, it says 'You are running PHP version 8.2.9' and 'This environment is launched with Elastic Beanstalk PHP Platform'. On the right side, there are two sections: 'What's Next?' with a list of links including 'AWS Elastic Beanstalk overview', 'Deploying AWS Elastic Beanstalk Applications in PHP Using Eb and Git', 'Using Amazon RDS with PHP', 'Customizing the Software on EC2 Instances', and 'Customizing Environment Resources'; and 'AWS SDK for PHP' with links to 'AWS SDK for PHP home', 'PHP developer center', and 'AWS SDK for PHP on GitHub'.

Upload and deployed Customized PHP web application.



A screenshot of a web browser displaying a form on a dark blue background with a starry pattern. The form is centered on a light gray rectangular area. It contains two input fields: 'Name:' with the value 'test2' and 'Email:' with the value 'test@abc.com'. Below the fields is a green 'Submit' button.

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.