

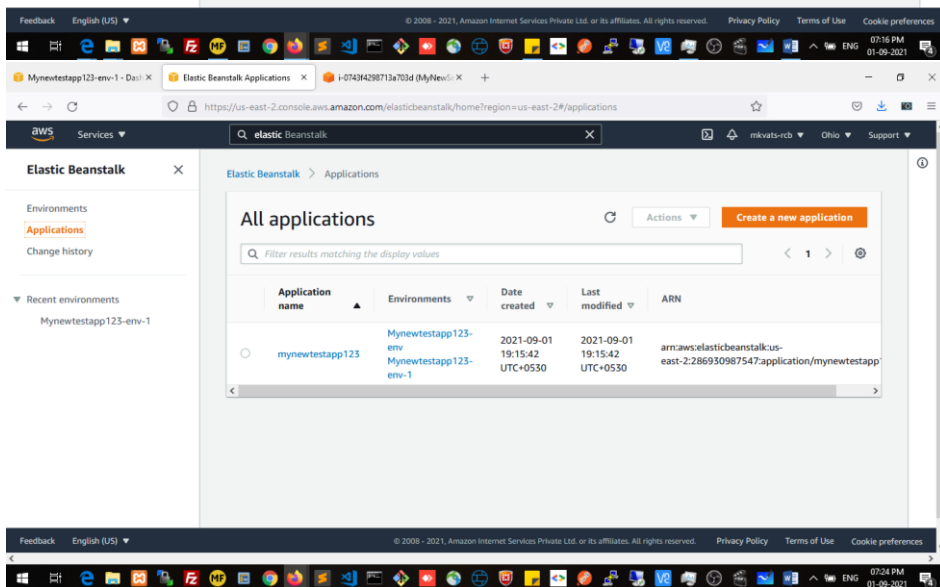
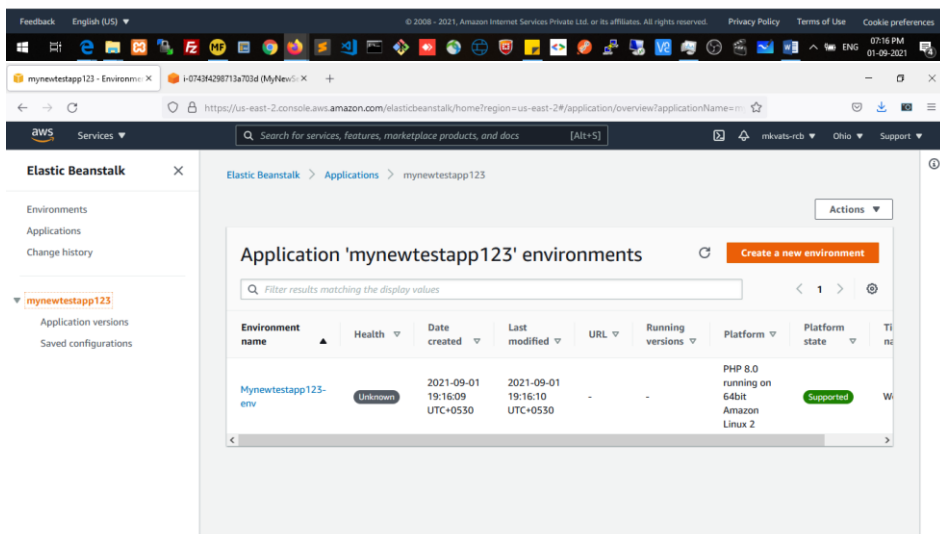
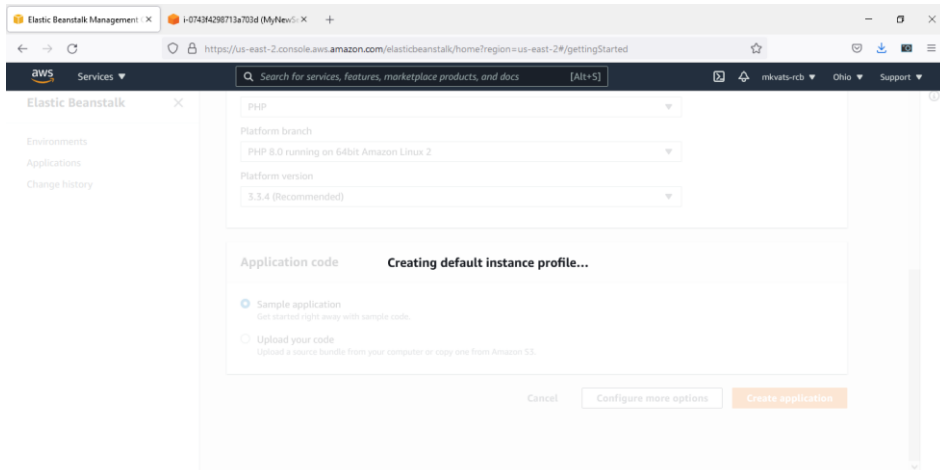
Assignment 4 – Deploying an application on Elastic beanstalk (AWS Cloud Computing ZERO TO HERO - August 2021)

1. Create an application on Elastic BeanStalk

The first screenshot shows the AWS Management Console search results for 'elastic Beanstalk'. The search bar contains 'elastic Beanstalk'. The results list services including Elastic Beanstalk, Elastic Transcoder, Elastic Container Service, and Elastic Container Registry. The 'Launch instances' button is visible on the right.

The second screenshot shows the 'Amazon Elastic Beanstalk' landing page. The main heading is 'Amazon Elastic Beanstalk End-to-end web application management.' Below this, there is a 'Get started' section with a 'Create Application' button. The 'Pricing' section states: 'There's no additional charge for Elastic Beanstalk. You pay for Amazon Web Services resources that we create to store and run your web application, like Amazon S3 buckets.'

The third screenshot shows the 'Create a web app' wizard. The 'Application information' section has a text input for 'Application name' with the value 'mynewtestapp123'. Below this is the 'Application tags' section, which includes instructions: 'Apply up to 50 tags. You can use tags to group and filter your resources. A tag is a key-value pair. The key must be unique within the resource and is case-sensitive. Learn more'.



2. Create web server environment

The first screenshot shows the 'Create environment' page. The 'Web server environment' option is selected. The second screenshot shows the 'Environment information' page where the application name is 'mynewtestapp123', the environment name is 'Mynewtestapp123-env-1', and the domain is 'us-east-2.elasticbeanstalk'. The third screenshot shows the 'Platform' page where the 'Managed platform' is selected, and the platform is 'PHP', the platform branch is 'PHP 8.0 running on 64bit Amazon Linux 2', and the platform version is '3.3.4 (Recommended)'. The application code is set to 'Sample application'.

Create environment

Search for services, features, marketplace products, and docs [Alt+S]

Elastic Beanstalk

Environments
Applications
Change history

▼ mynewtestapp123
Application versions
Saved configurations

Select environment tier

Amazon Elastic Beanstalk has two types of environment tiers to support different types of web applications. Web servers are standard applications that listen for and then process HTTP requests, typically over port 80. Workers are specialized applications that have a background processing task that listens for messages on an Amazon SQS queue. Worker applications post those messages to your application by using HTTP.

☒ **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](#)

Cancel **Select**

Environment information

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

Application name
mynewtestapp123

Environment name
Mynewtestapp123-env-1

Domain
Leave blank for autogenerated value us-east-2.elasticbeanstalk
[Check availability](#)

Description

Platform

☒ **Managed platform**
Platforms published and maintained by Amazon Elastic Beanstalk. [Learn more](#)

☐ **Custom platform**
Platforms created and owned by you.

Platform
PHP

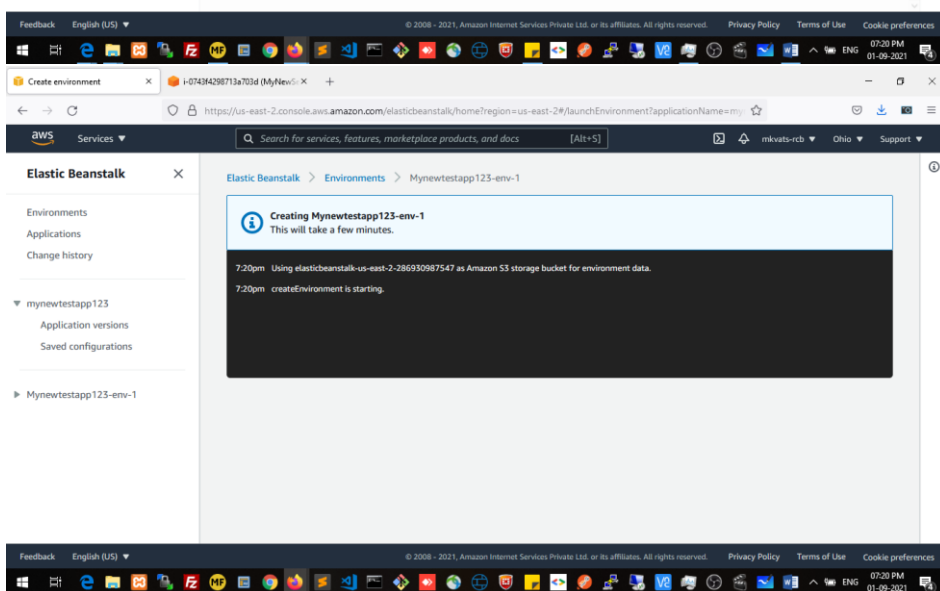
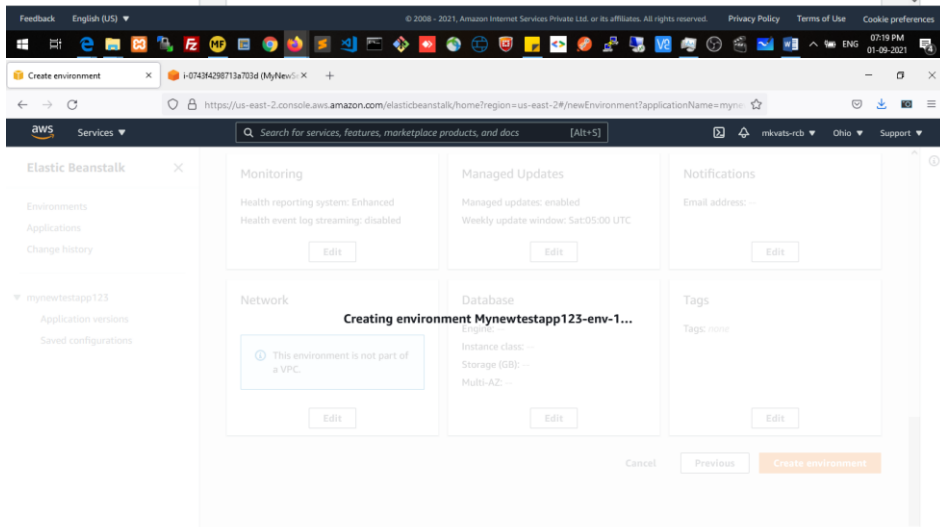
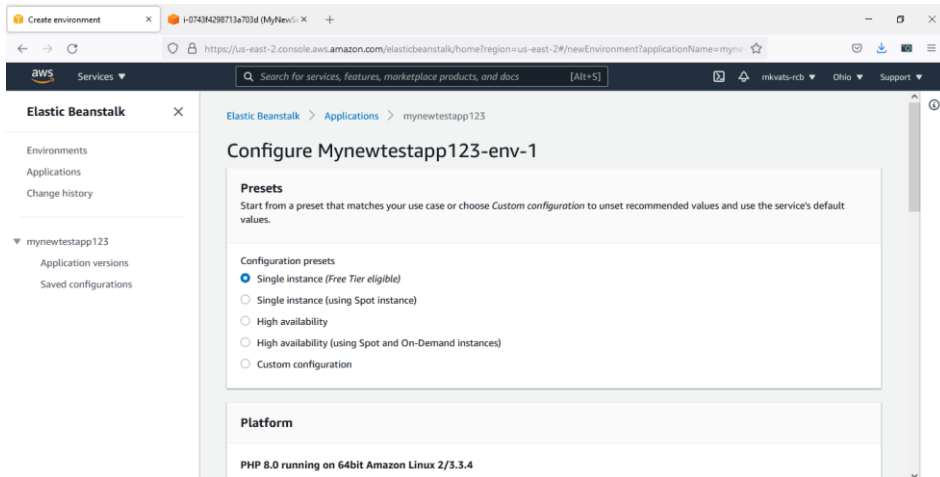
Platform branch
PHP 8.0 running on 64bit Amazon Linux 2

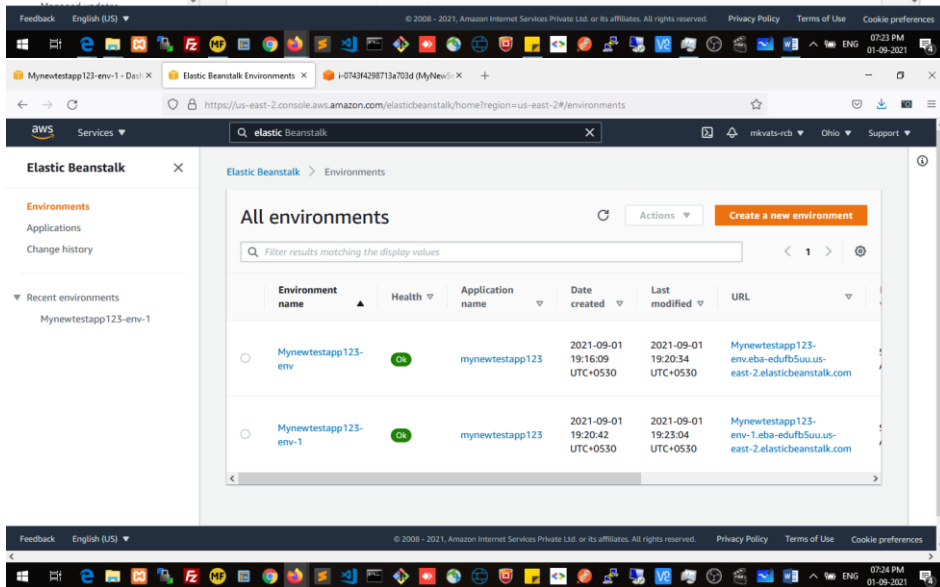
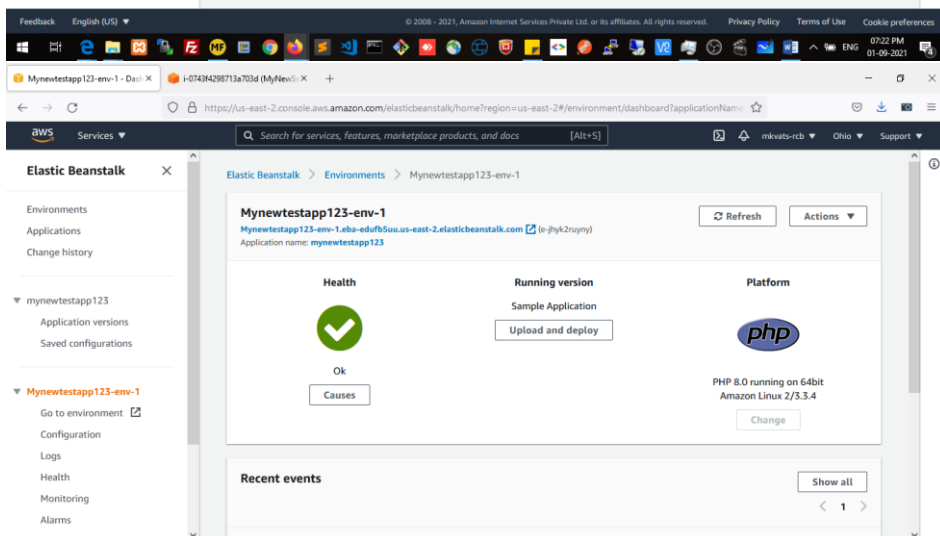
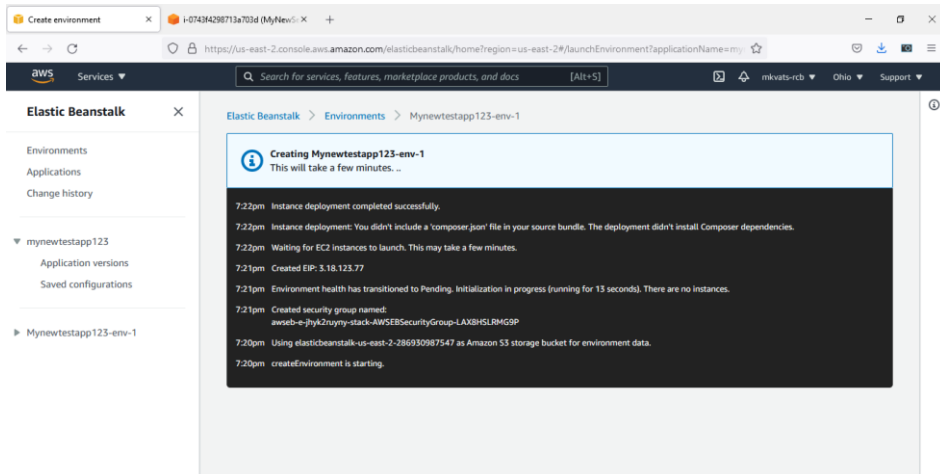
Platform version
3.3.4 (Recommended)

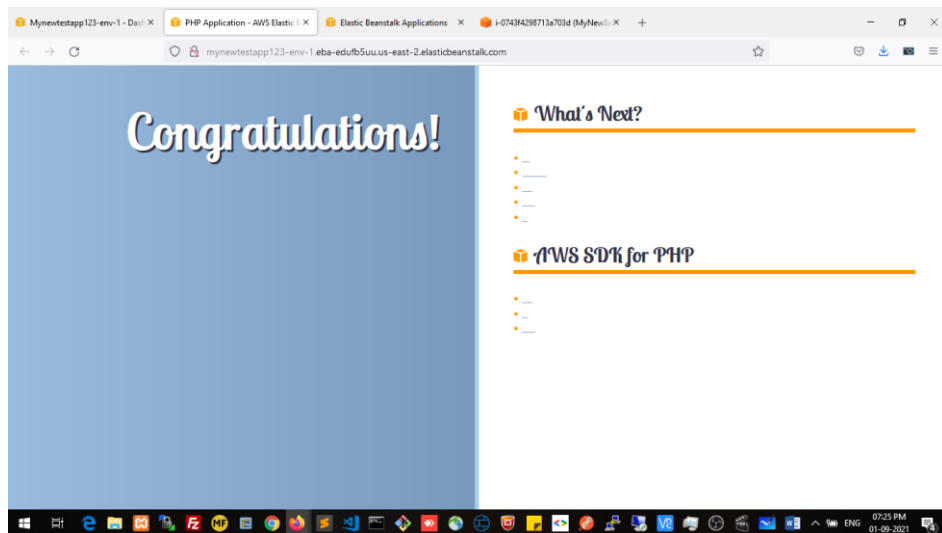
Application code

☒ **Sample application**
Get started right away with sample code.

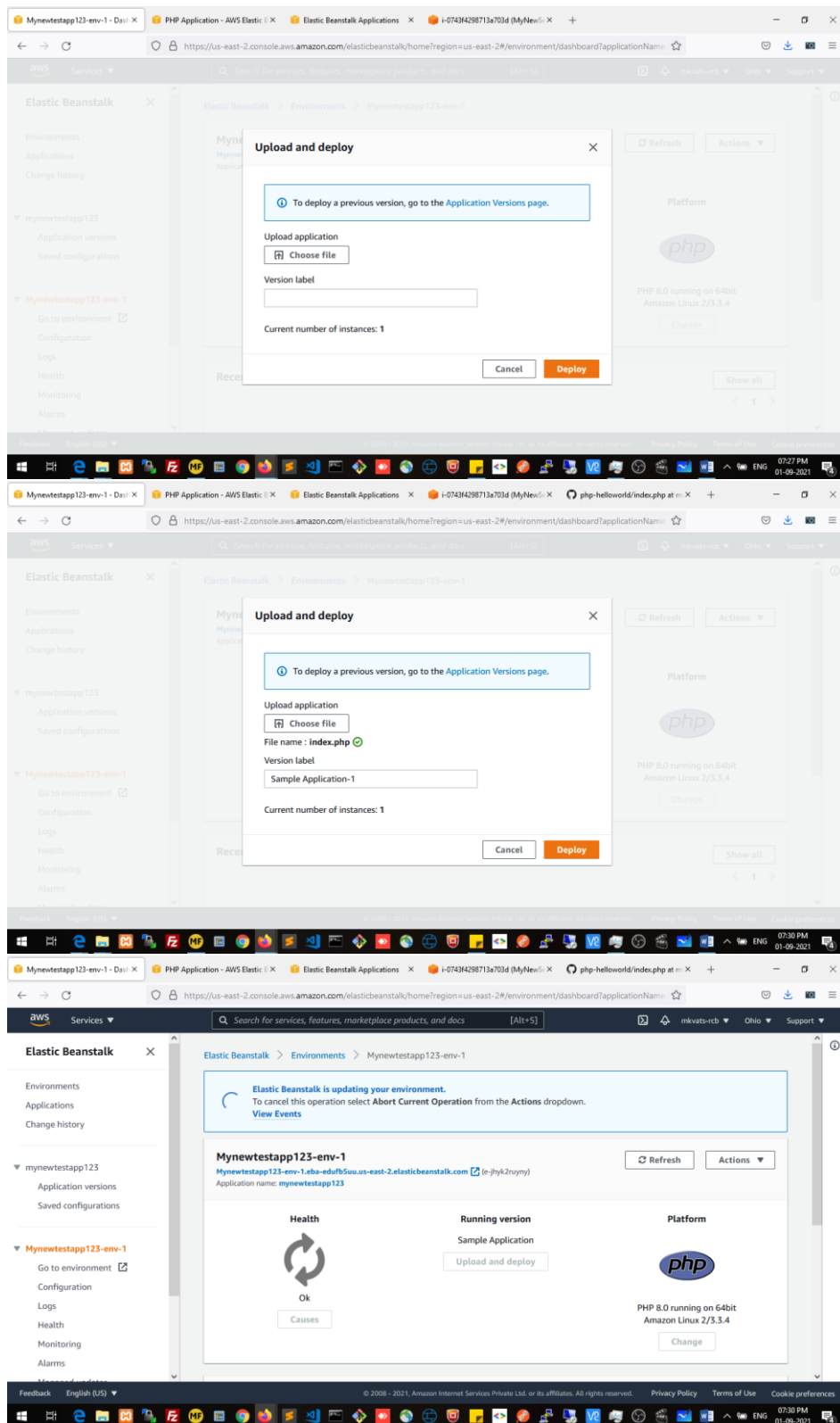
☐ **Existing version**
Application versions that you have uploaded for mynewtestapp123.







3. Deploying a sample application



Mynewtestapp123-env-1 - Events

PHP Application - AWS Elastic

Elastic Beanstalk Applications

i-0743f4298713a703d (MyNew)

php-helloworld/index.php at m

https://us-east-2.console.aws.amazon.com/elasticbeanstalk/home?region=us-east-2#/environment/events?applicationName=...

Elastic Beanstalk

Environments

Applications

Change history

mynewtestapp123

Application versions

Saved configurations

Mynewtestapp123-env-1

Go to environment

Configuration

Logs

Health

Monitoring

Alarms

Elastic Beanstalk is updating your environment.
To cancel this operation select **Abort Current Operation** from the Actions dropdown.

Events

Severity: TRACE

Time	Type	Details
2021-09-01 19:30:32 UTC+0530	INFO	Environment update is starting.
2021-09-01 19:23:04 UTC+0530	INFO	Successfully launched environment: Mynewtestapp123-env-1
2021-09-01 19:23:03 UTC+0530	INFO	Application available at Mynewtestapp123-env-1.eba-edufb5uu-us-east-2.elasticbeanstalk.com.
2021-09-01 19:23:02 UTC+0530	INFO	Added instance [i-024fa509ad598d5a4] to your environment.
2021-09-01 19:23:02 UTC+0530	INFO	Environment health has transitioned from Pending to Ok. Initialization completed 22 seconds ago and took 2 minutes.

Mynewtestapp123-env-1

Mynewtestapp123-env-1.eba-edufb5uu-us-east-2.elasticbeanstalk.com (i-jyk2uyyn)

Application name: mynewtestapp123

Refresh

Actions

Health

Degraded

Causes

Running version

Sample Application

Upload and deploy

Platform

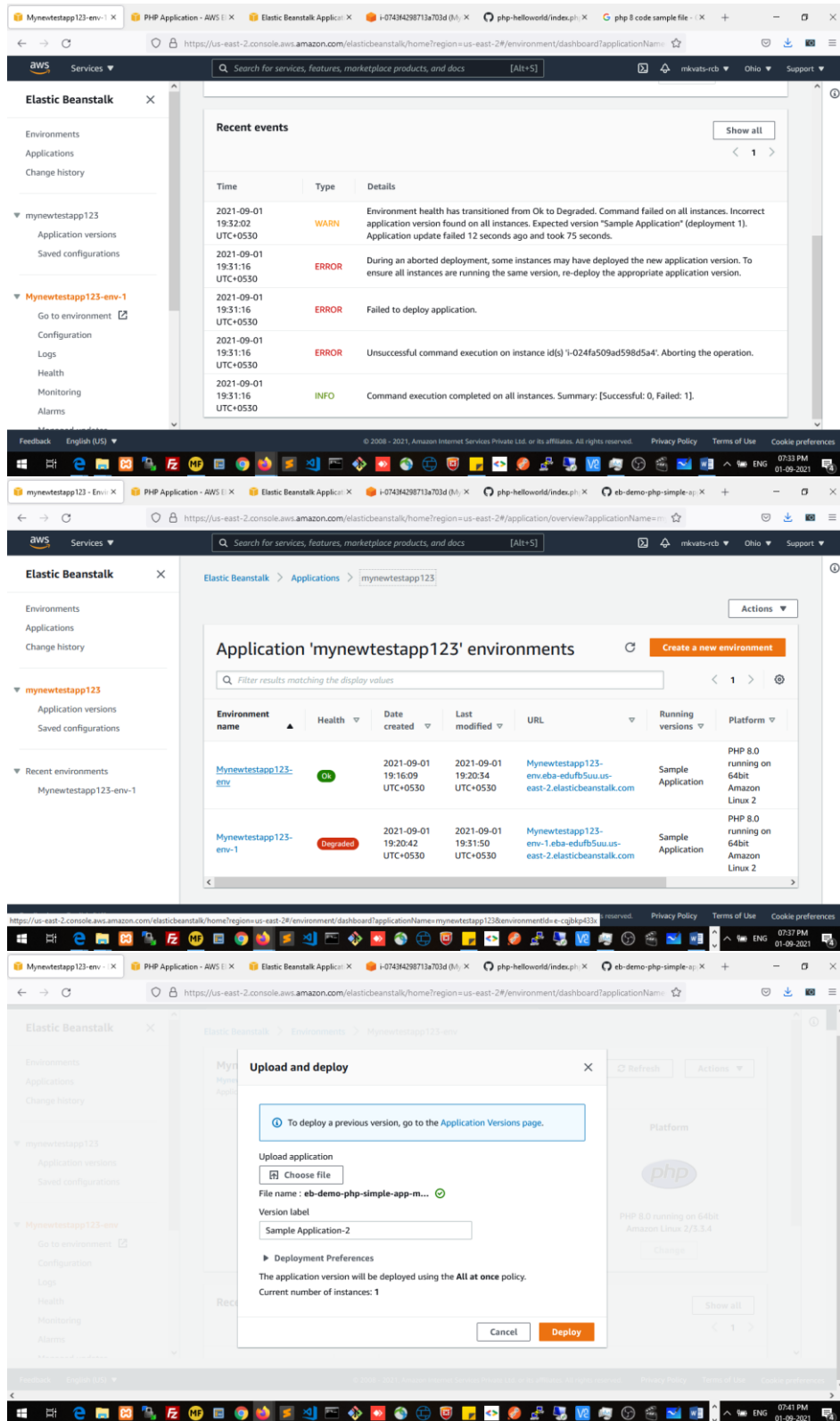
PHP 8.0 running on 64bit Amazon Linux 2/3.3.4

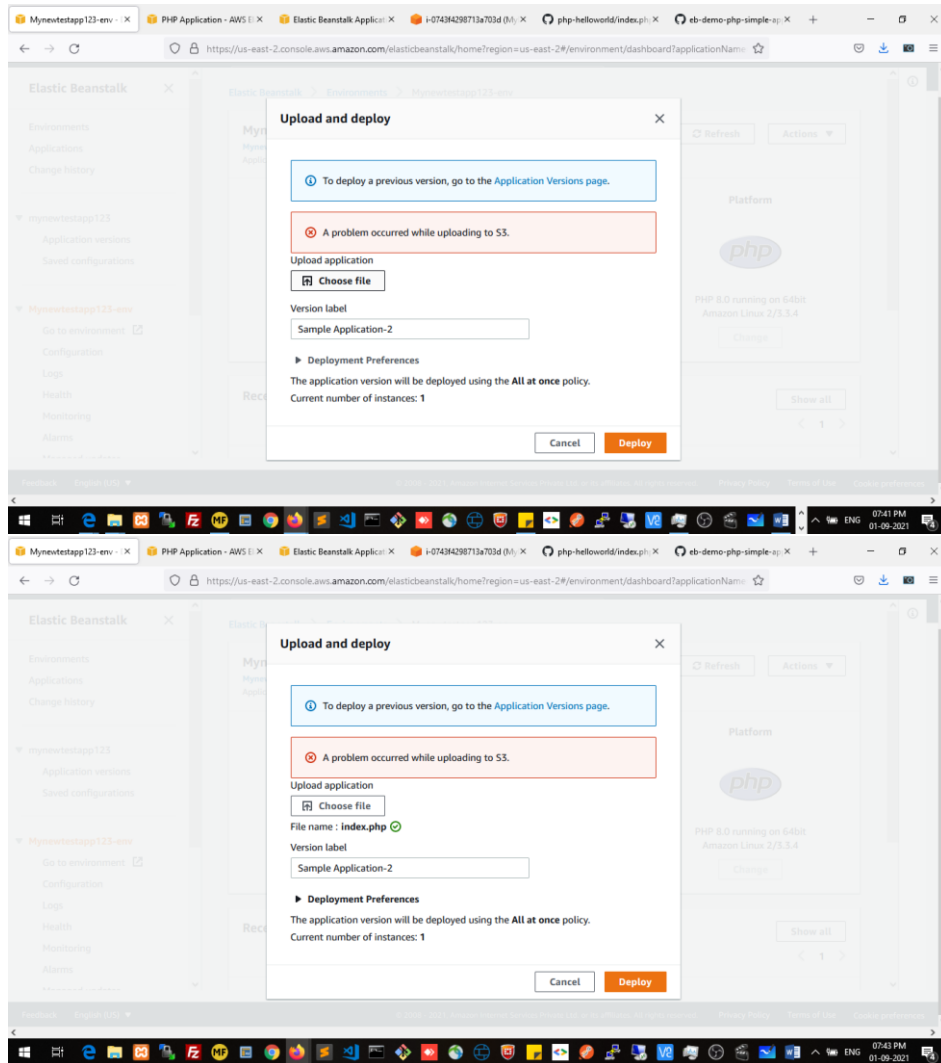
Change

Recent events

Show all

Time	Type	Details
2021-09-01 19:31:16 UTC+0530	ERROR	During an aborted deployment, some instances may have deployed the new application version. To ensure all instances are running the same version, re-deploy the appropriate application version.
2021-09-01 19:31:16 UTC+0530	ERROR	Failed to deploy application.
2021-09-01 19:31:16 UTC+0530	ERROR	Unsuccessful command execution on instance id(s) i-024fa509ad598d5a4. Aborting the operation.
2021-09-01 19:31:16 UTC+0530	INFO	Command execution completed on all instances. Summary: [Successful: 0, Failed: 1].
2021-09-01 19:31:16 UTC+0530	ERROR	[Instance: i-024fa509ad598d5a4] Command failed on instance. Return code: 1 Output: Engine execution has encountered an error.





Mynewtestapp123-env - XPHP Application - AWS E - XElastic Beanstalk Appli...i-074384298713a703d (bl) Xphp-helloworld/index.ph...eb-demo-php-simple-2j: X

← → ↻https://us-east-2.console.aws.amazon.com/elasticbeanstalk/home?region=us-east-2#/environment/dashboard/applicationName=

Services

Search for services, features, marketplace products, and docs [Alt+S]

mkvats-rcb Ohio Support

Environments

Applications

Change history

▼ mynewtestapp123

Application versions

Saved configurations

▼ Mynewtestapp123-env

Go to environment

Configuration

Logs

Health

Monitoring

Alarms

Elastic Beanstalk is updating your environment.

To cancel this operation select **Abort Current Operation** from the Actions dropdown.

[View Events](#)

Mynewtestapp123-env

Mynewtestapp123-env-eba-edufb5uu-us-east-2.elasticbeanstalk.com (e-cqjbp433a)

Application name: mynewtestapp123

Refresh Actions

Health

Running version

Platform

Ok

Causes

Sample Application

Upload and deploy

php

PHP 8.0 running on 64bit Amazon Linux 2/3.3.4

Change

Feedback

English (US)

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PHP Application - AWS E - XPHP Application - AWS E - XElastic Beanstalk Appli...i-074384298713a703d (bl) Xphp-helloworld/index.ph...eb-demo-php-simple-2j: X

← → ↻mynewtestapp123-env-1-eba-edufb5uu-us-east-2.elasticbeanstalk.com

Congratulations!

Your AWS Elastic Beanstalk PHP application is now running on your own dedicated environment in the AWS Cloud

You are running PHP version 8.0.8

This environment is launched with Elastic Beanstalk PHP Platform

What's Next?

- 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
- Customizing Environment Resources

AWS SDK for PHP

- AWS SDK for PHP home
- PHP developer center
- AWS SDK for PHP on GitHub