

#### **Problem Statement:**

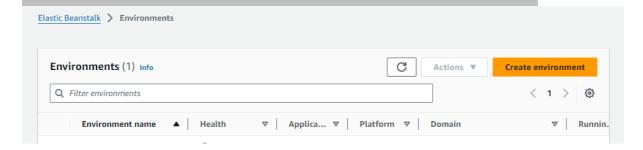
You work for XYZ Corporation. Your corporation wants to launch a new web-based application and they do not want their servers to be running all the time. It should also be managed by AWS. Implement suitable solutions.

#### Tasks to be Performed:

- 1. Create an Elastic Beanstalk environment with the runtime as PHP.
- 2. Upload a simple PHP file to the environment once created.

#### **Solution:**

#### Go to AWS > Elastic Beanstalk > Environments > Create Environment



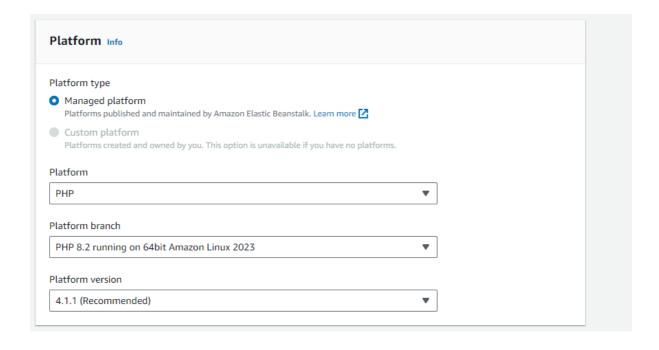
Choose Web server and Give Application Name

	eb server environment n a website, web application, or web API that serves HTTP requests. Learn more 🔼
_	orker environment n a worker application that processes long-running workloads on demand or performs tasks on a schedule. Learn more 🔀
Appl	ication information Info
Applic	ation name
ruch	i-webapplication
Maxim	um length of 100 characters.

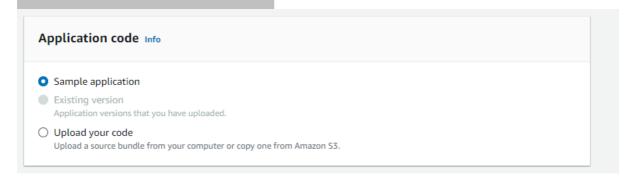
# Give Environment name and Domain name

Environment name		
Ruchi-webapplication-env		
Must be from 4 to 40 characters in length. The name c This name must be unique within a region in your acco		an't start or end with a hyphen.
Domain		
ruchicloudware	.us-east-1.elasticbeanstalk.com	Check availability
ruchicloudware.us-east-1.elasticbeanstalk.c	om is available	
Tuchicioudwale.us-edst-1.etdsticbedfistatk.t		

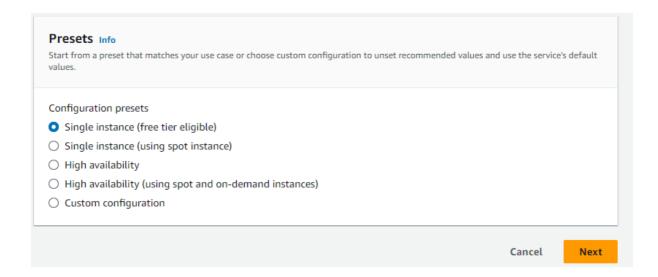
Select Managed platform and choose PHP



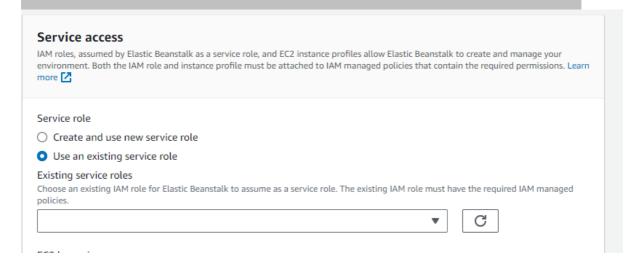
# Select Sample application for now



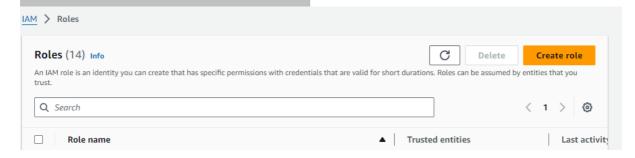
# Choose Single Instance and give Next



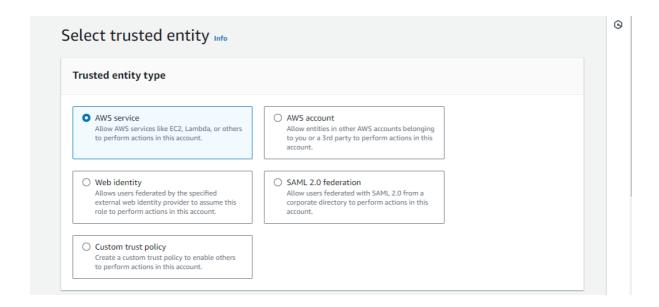
#### Provide the service access, Create the new role for Elastic beanstalk & EC2



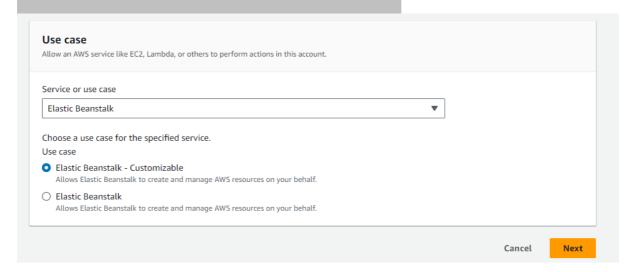
#### Go to AWS > IAM > Roles > Create role



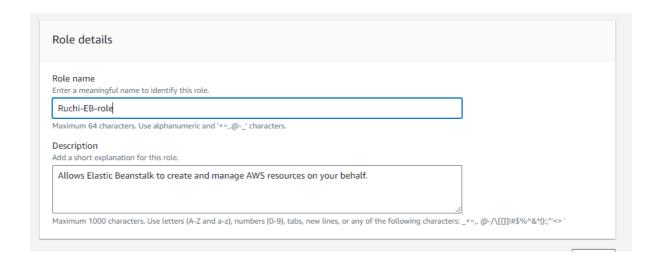
#### Select Trusted Entity Type as AWS service



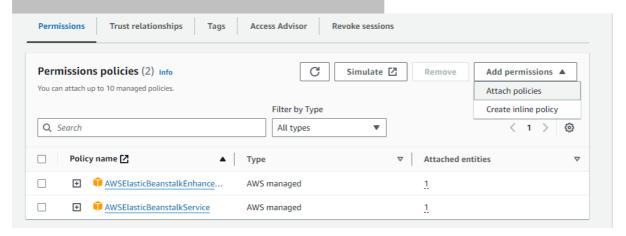
#### Choose the service Elastic Beanstalk and Click Next



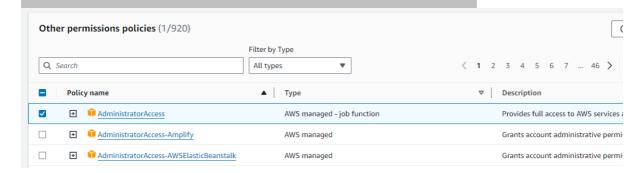
Give the Role Name and Click Submit



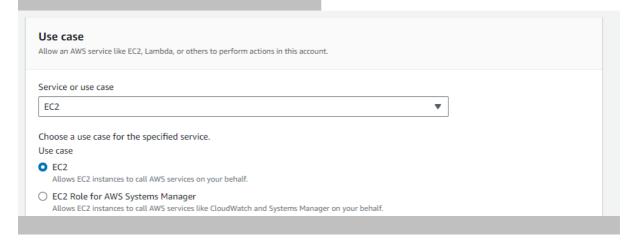
# Go to the Permissions and the Attach the policies



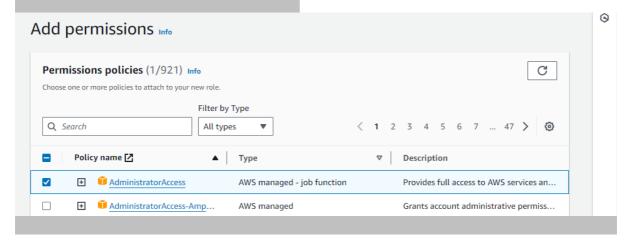
#### Provide the Administration Access for Elastic Beanstalk Role.



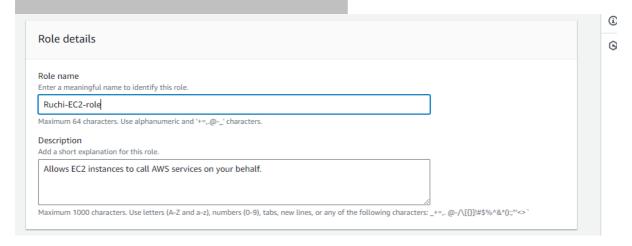
#### Next create another role for EC2 Service



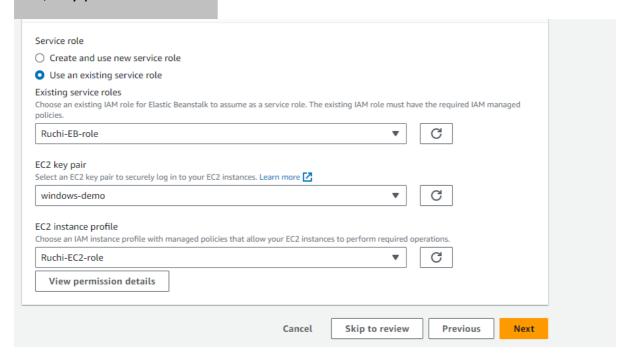
### To add permission Give Admin Access



#### Provide the Role details and Create the Role



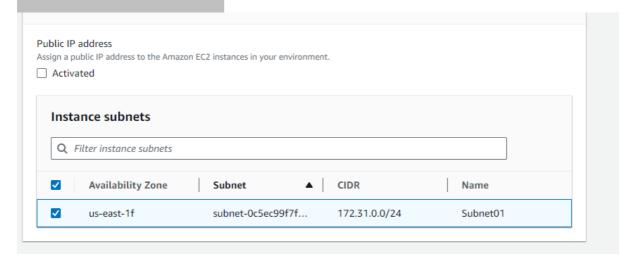
# After creating the role Click on Choose existing role and select Elastic Beanstalk role, Key pair and EC2 role.



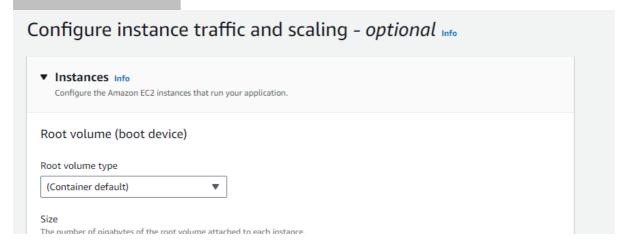
#### Select the Default VPC

# Virtual Private Cloud (VPC) VPC Launch your environment in a custom VPC instead of the default VPC. You can create a VPC and subnets in the VPC management console. Learn more vpc-07b58ff0917c64fcd | (172.31.0.0/16) ▼ Create custom VPC Instance settings Choose a subnet in each AZ for the instances that run your application. To avoid exposing your instances to the Internet, run your instances in private subnets and load balancer in public subnets. To run your load balancer and instances in the same public subnets, assign public IP addresses to the instances. Learn more Public IP address Assign a public IP address to the Amazon EC2 instances in your environment.

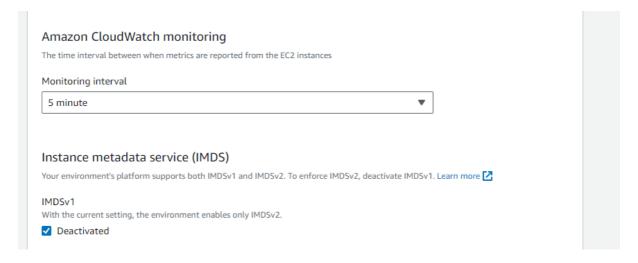
#### Select All Available Subnets



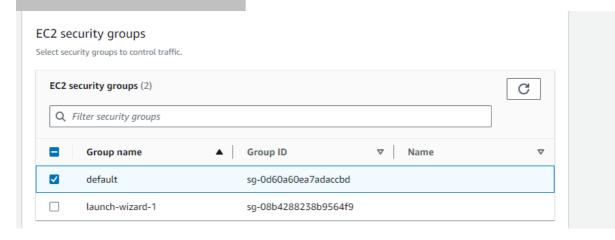
#### Select Default Volume



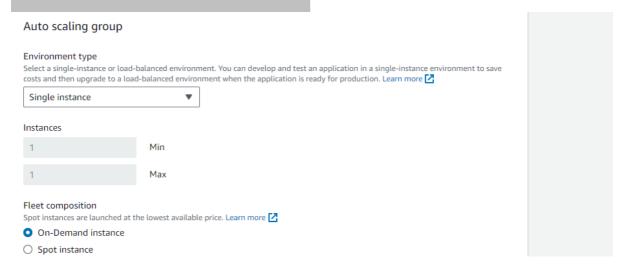
# Monitored interval 5 min

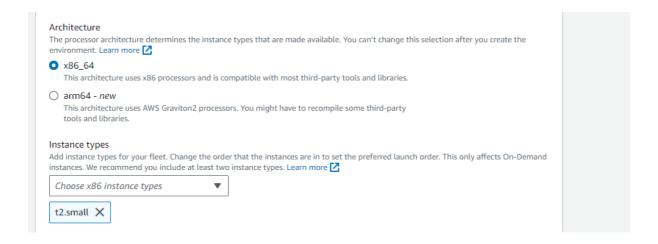


#### Choose Default Security group

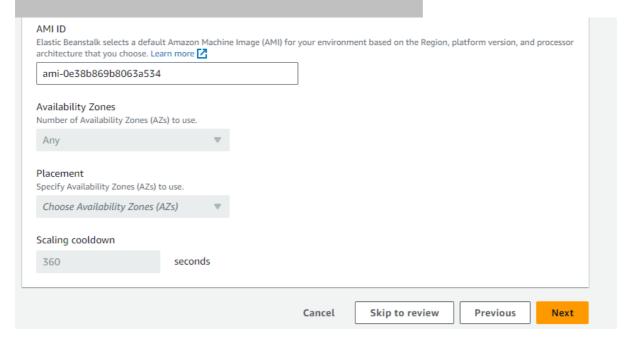


# Choose Single and On demand instance

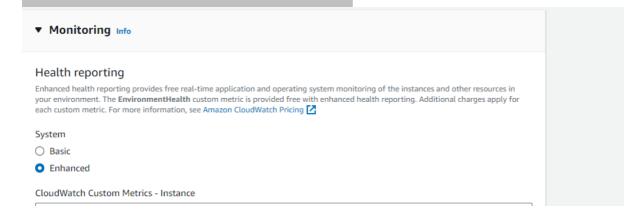




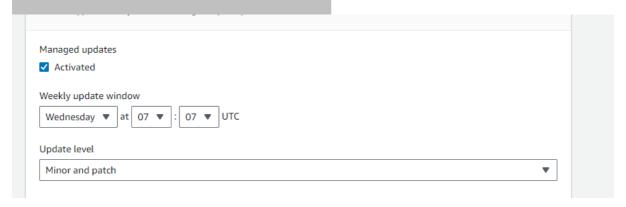
#### AMI ID will be created automatically and click on Next



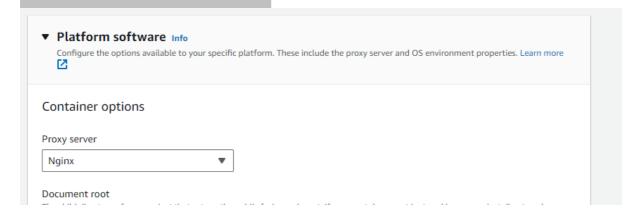
# Choose Enhanced system under Monitoring



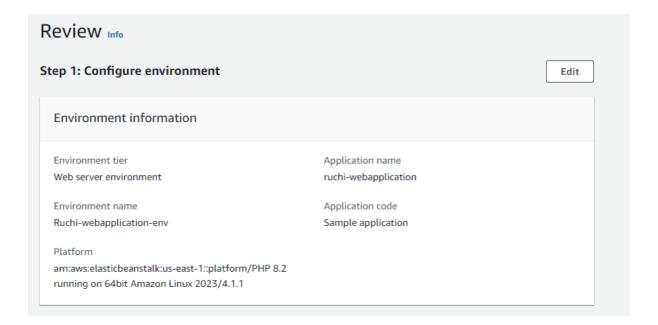
# Check box Activated for Managed updates



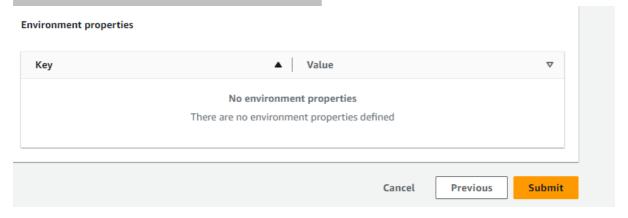
# Choose the proxy server as Nginx



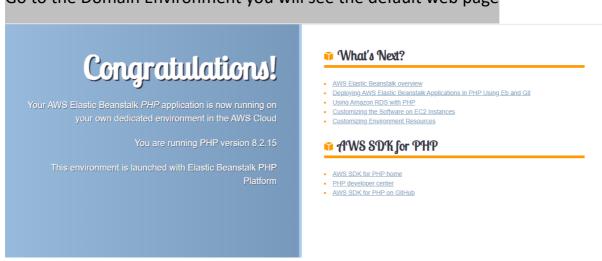
Review the configurations, if anything not mention keep it as it is.



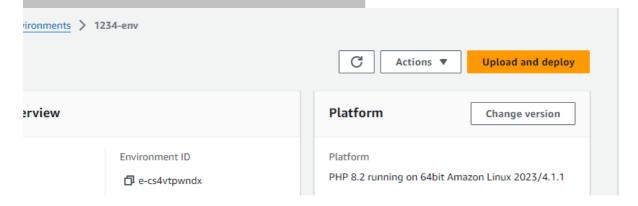
#### After reviewing submit the Environment.



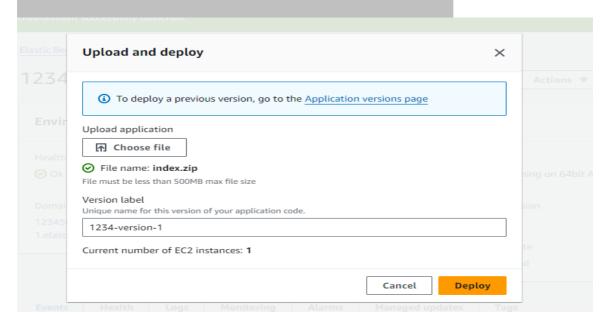
# Go to the Domain Environment you will see the default web page



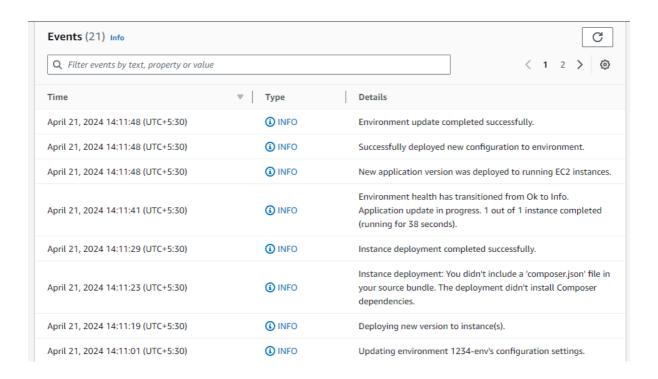
#### Now upload and deploy the Php index zip file



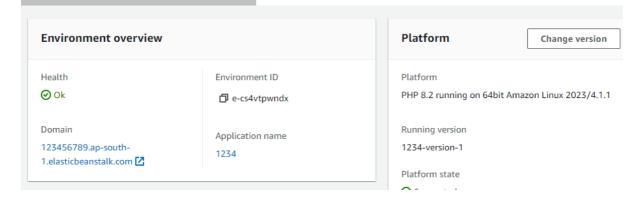
# Choose the file and give the version label and click deploy



Events are created as per the performance

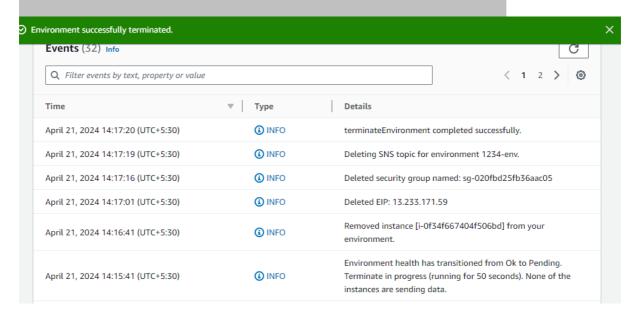


#### Now click on the domain name



# Now the webpage is created as per the document we uploaded.

#### We terminated the Environment and it is reflected in the Events.



\_\_\_\_\_