Module 9

Elastic Beanstalk Assignment

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.

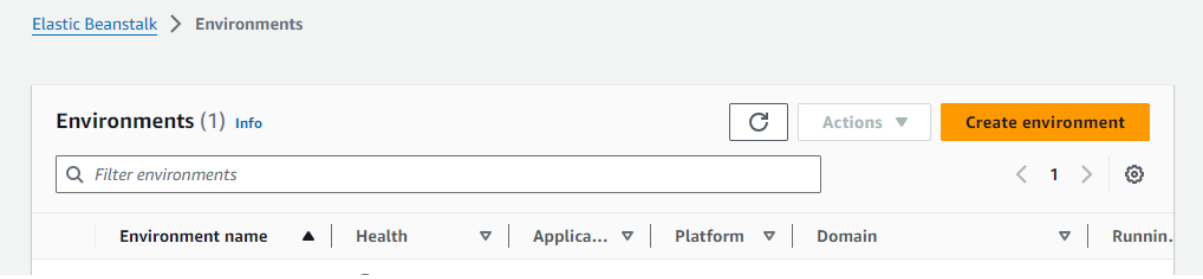
Tasks to be Performed:

1. Create an Elastic Beanstalk environment with the runtime as PHP.

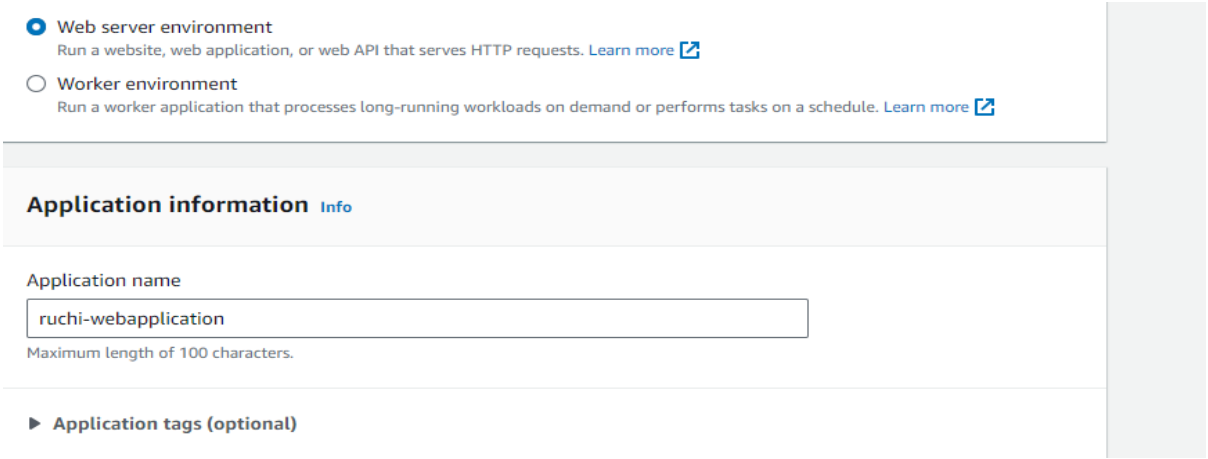
2. Upload a simple PHP file to the environment once created.

Solution:

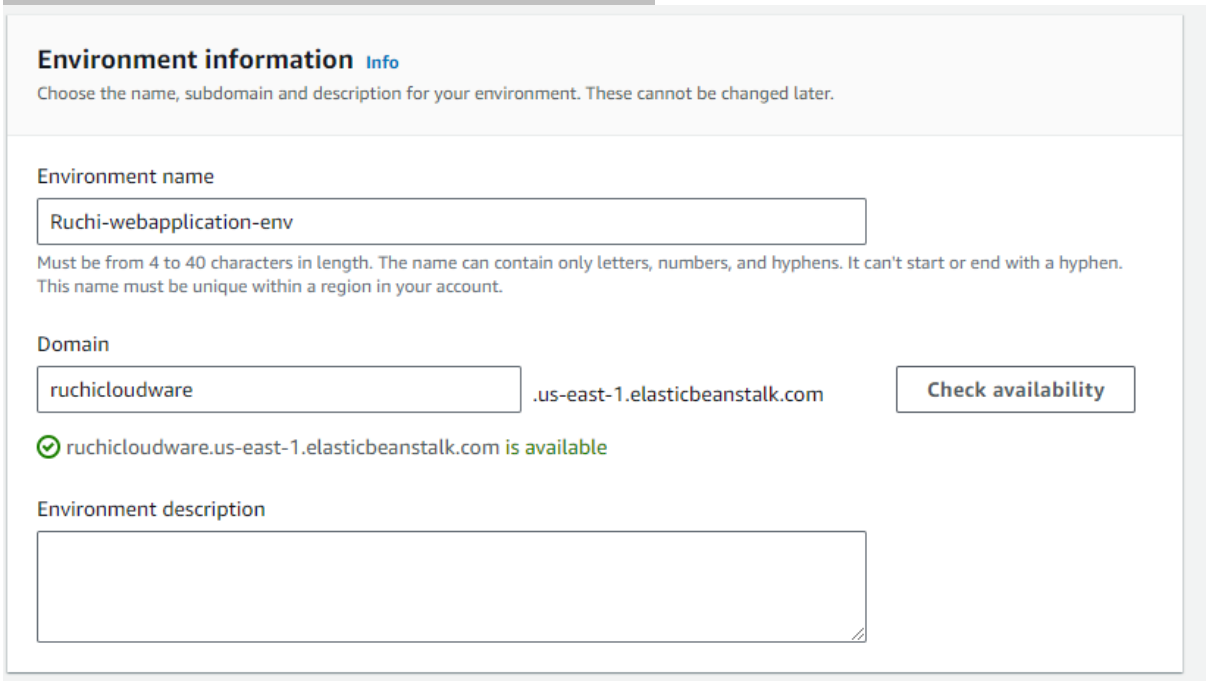
Go to AWS > Elastic Beanstalk > Environments > Create Environment



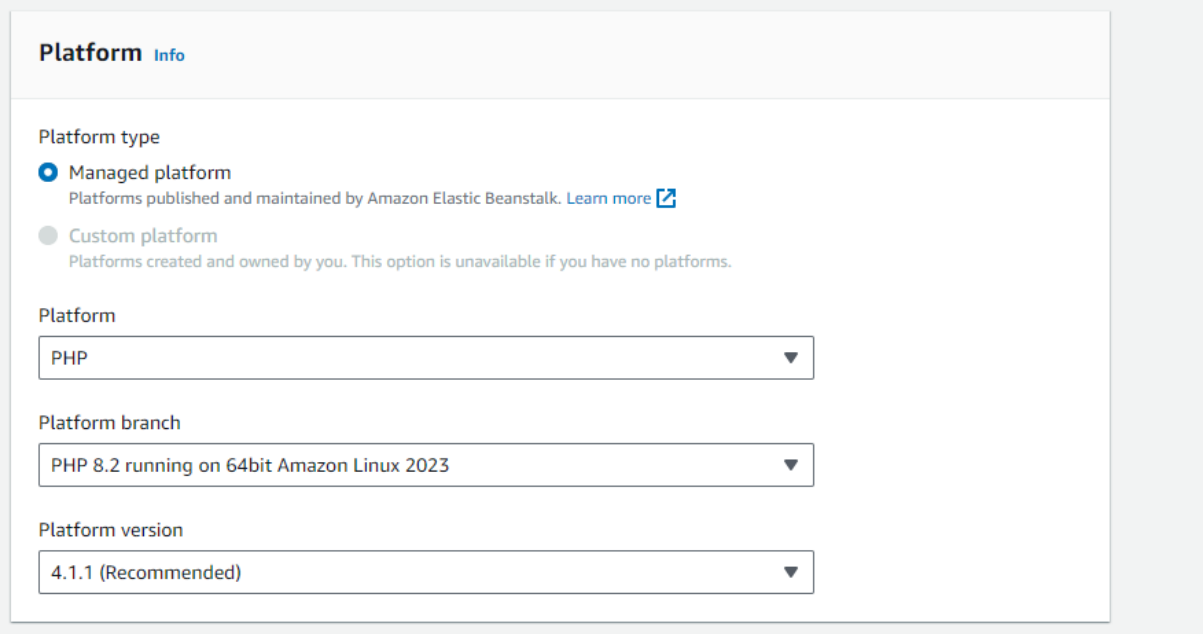
Choose Web server and Give Application Name



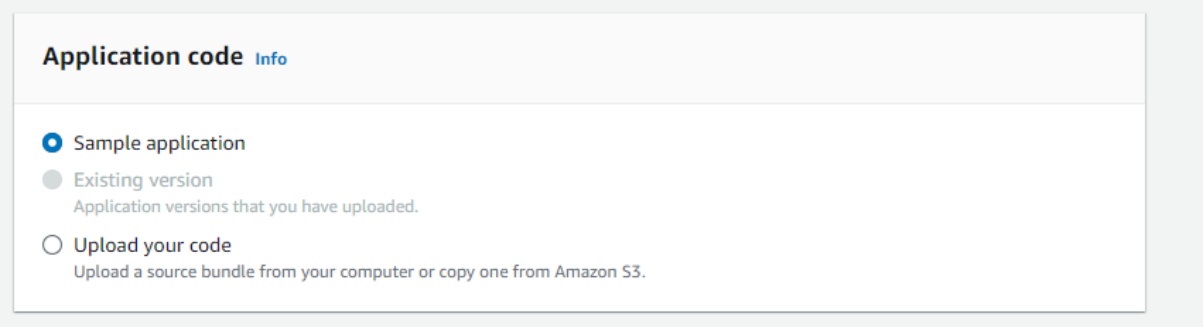
Give Environment name and Domain name



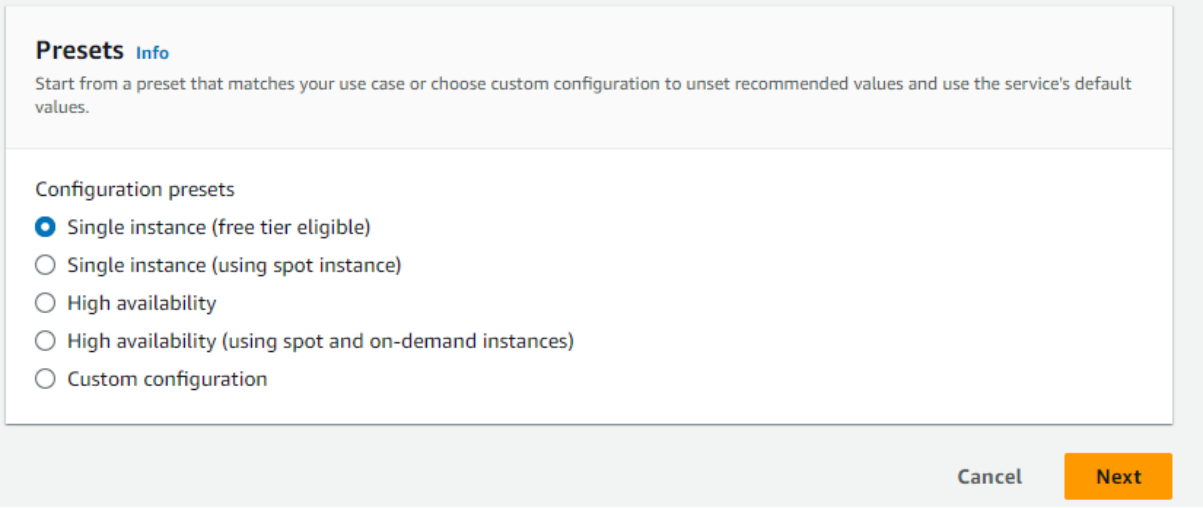
Select Managed platform and choose PHP



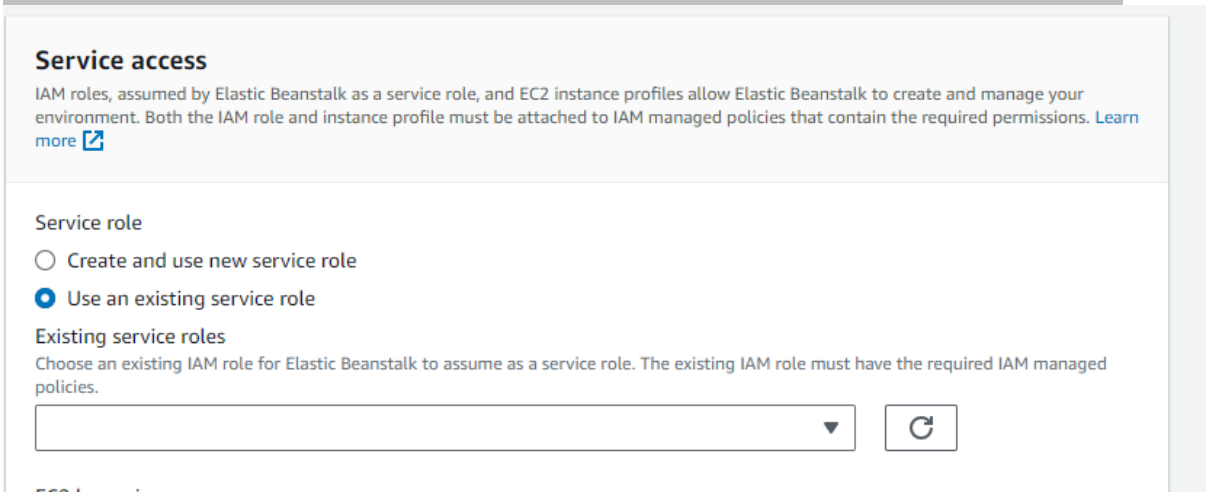
Select Sample application for now



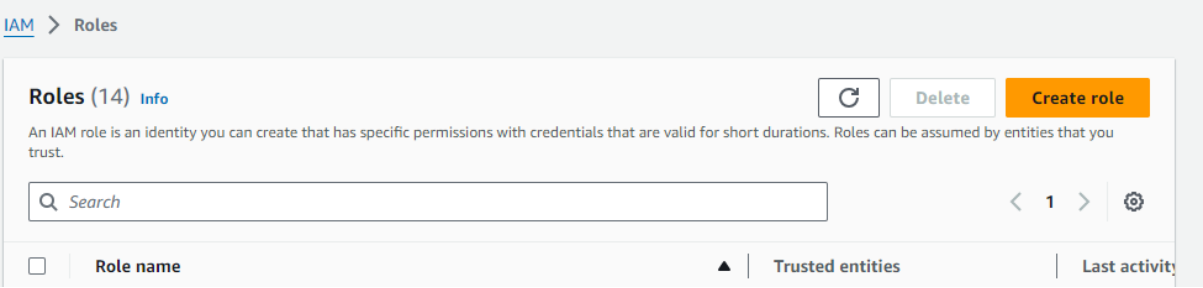
Choose Single Instance and give Next



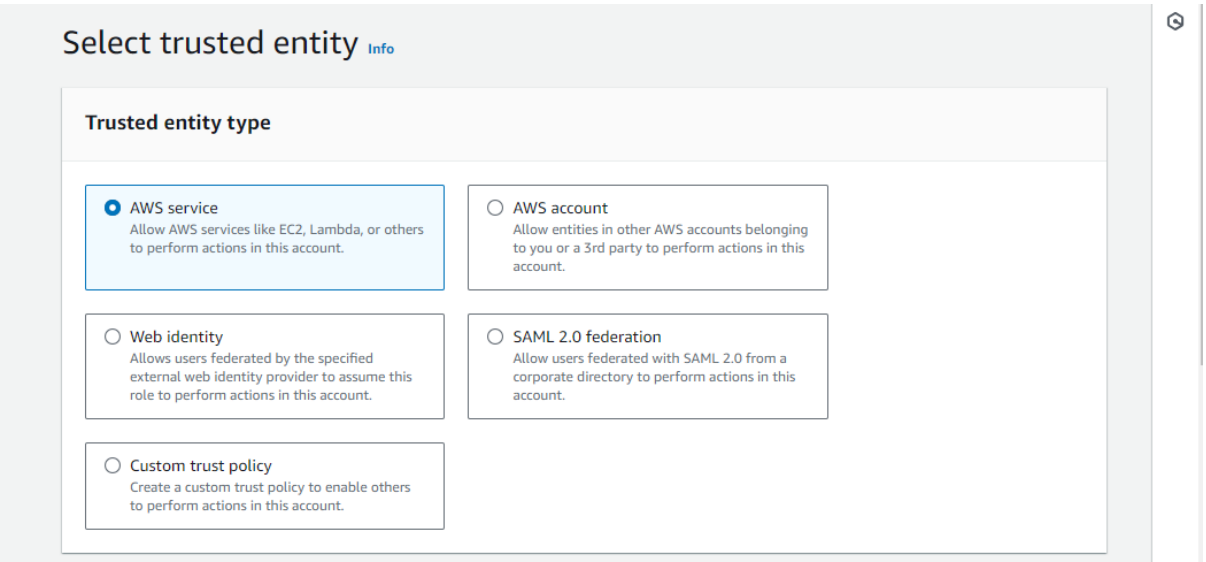
Provide the service access, Create the new role for Elastic beanstalk & EC2



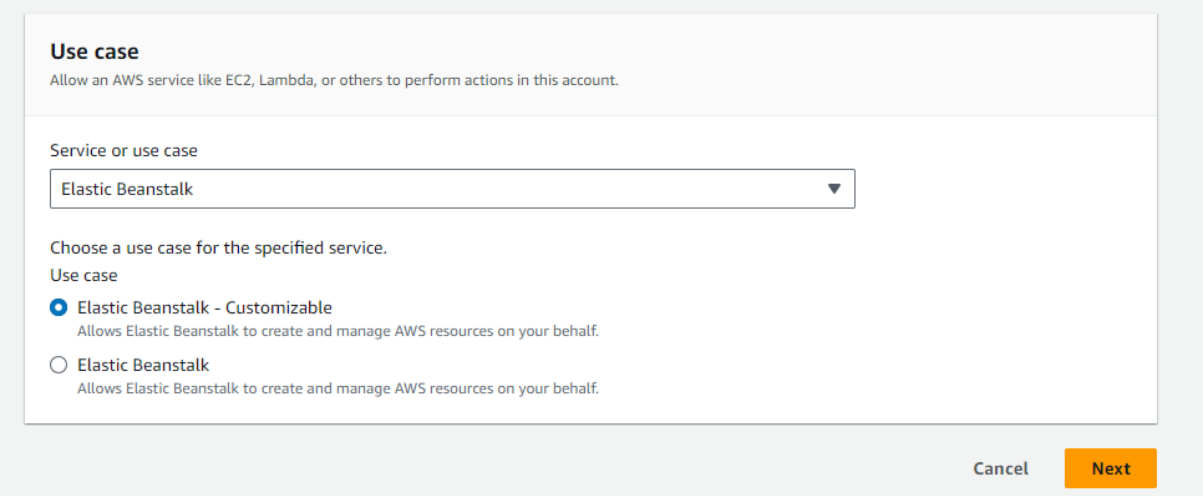
Go to AWS > IAM > Roles > Create role



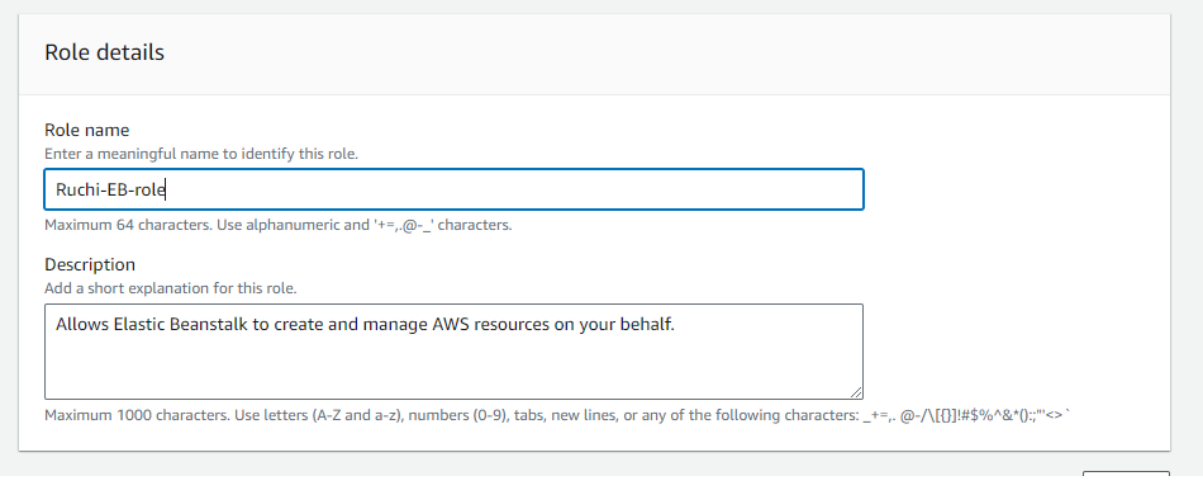
Select Trusted Entity Type as AWS service



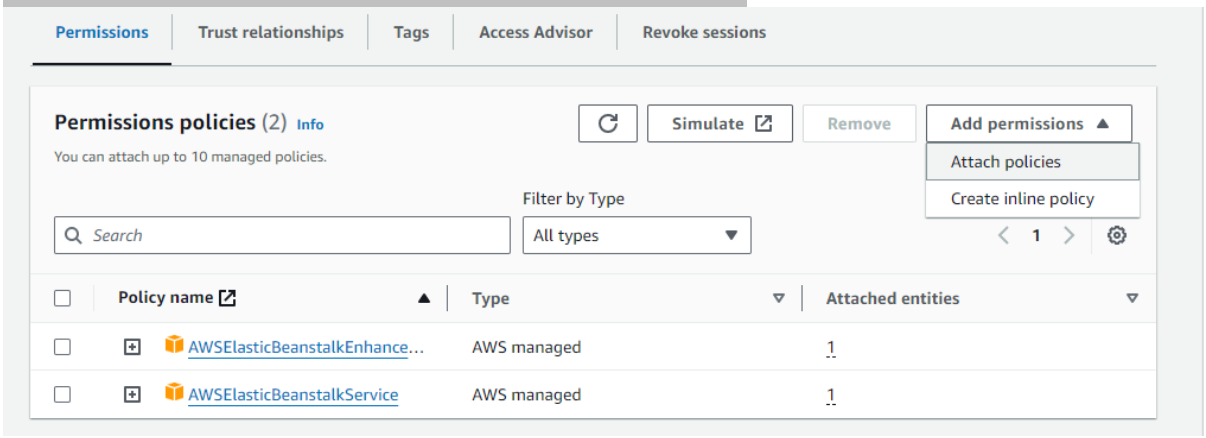
Choose the service Elastic Beanstalk and Click Next



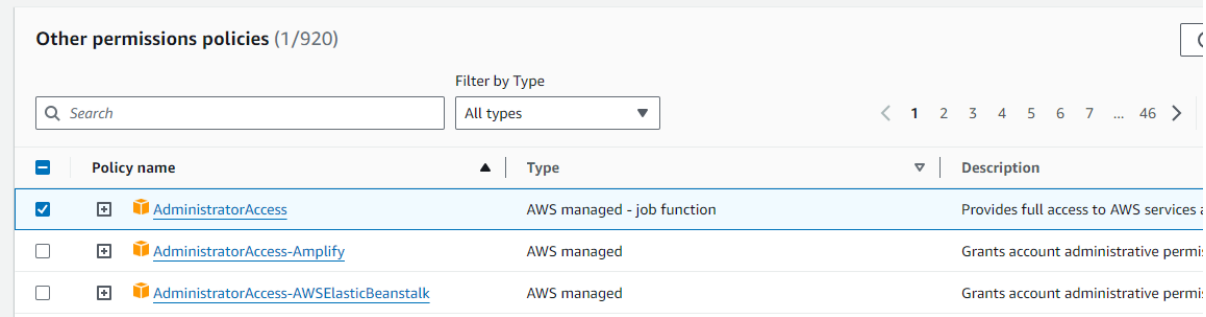
Give the Role Name and Click Submit



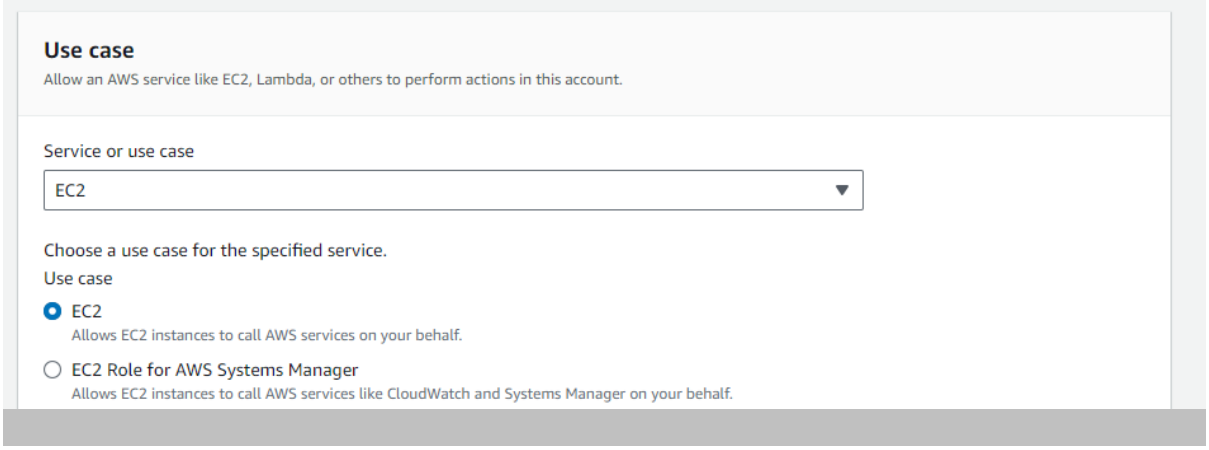
Go to the Permissions and the Attach the policies



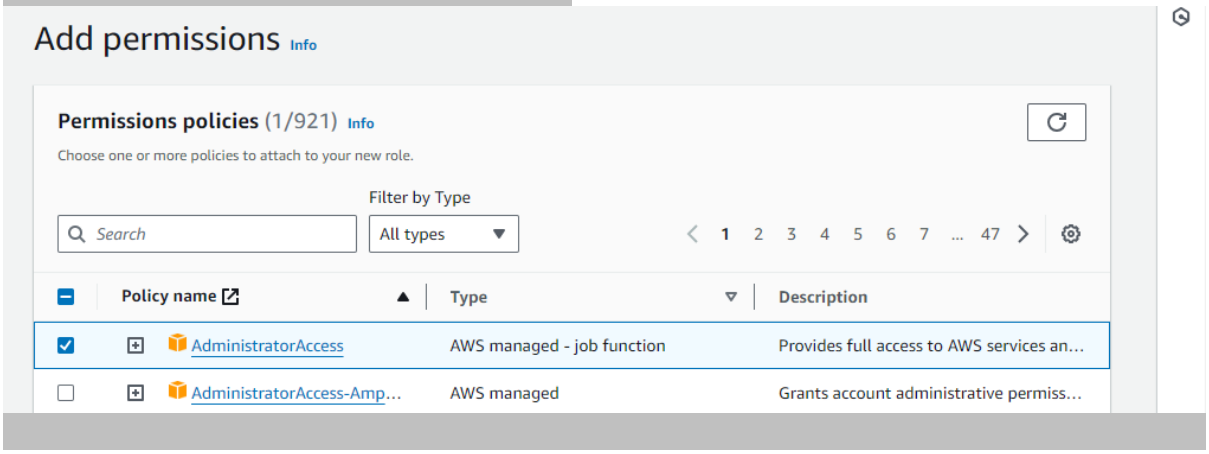
Provide the Administration Access for Elastic Beanstalk Role.



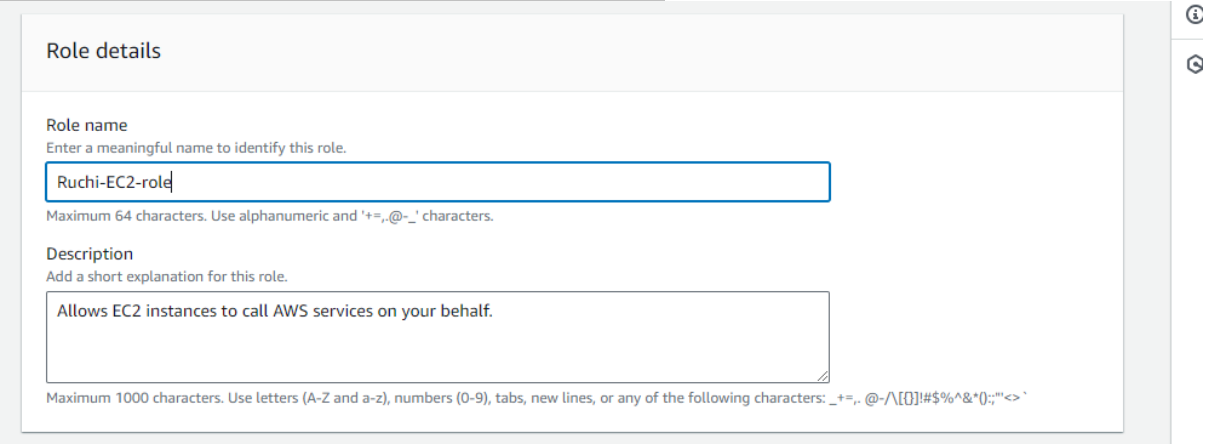
Next create another role for EC2 Service



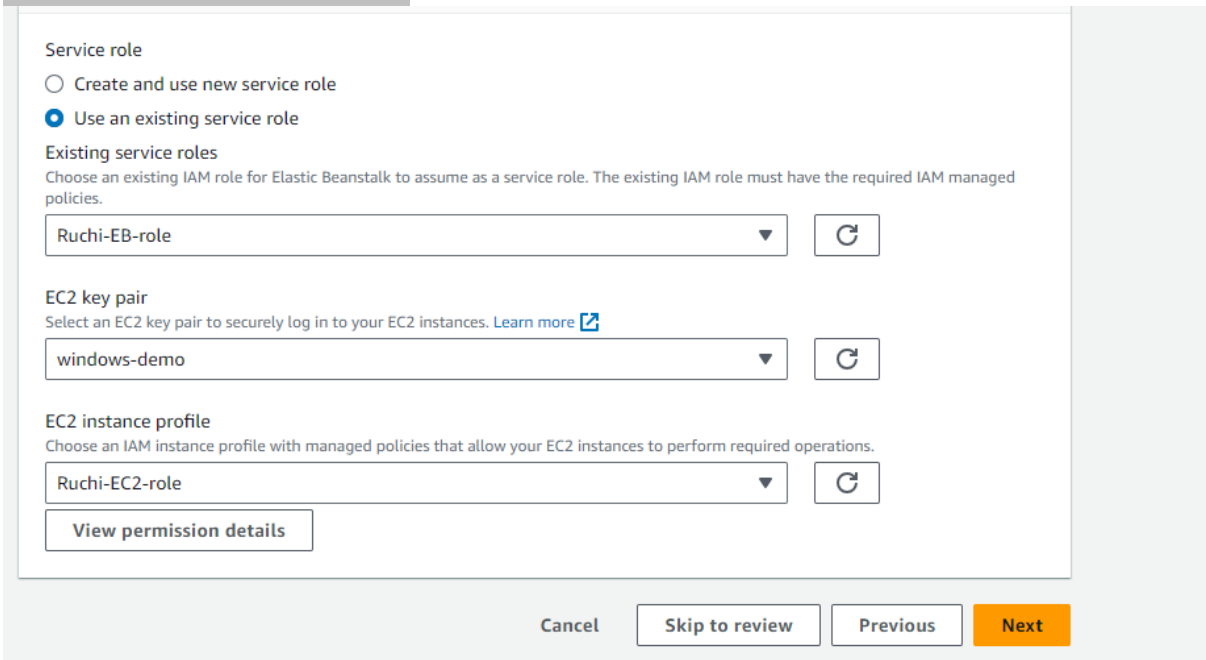
To add permission Give Admin Access



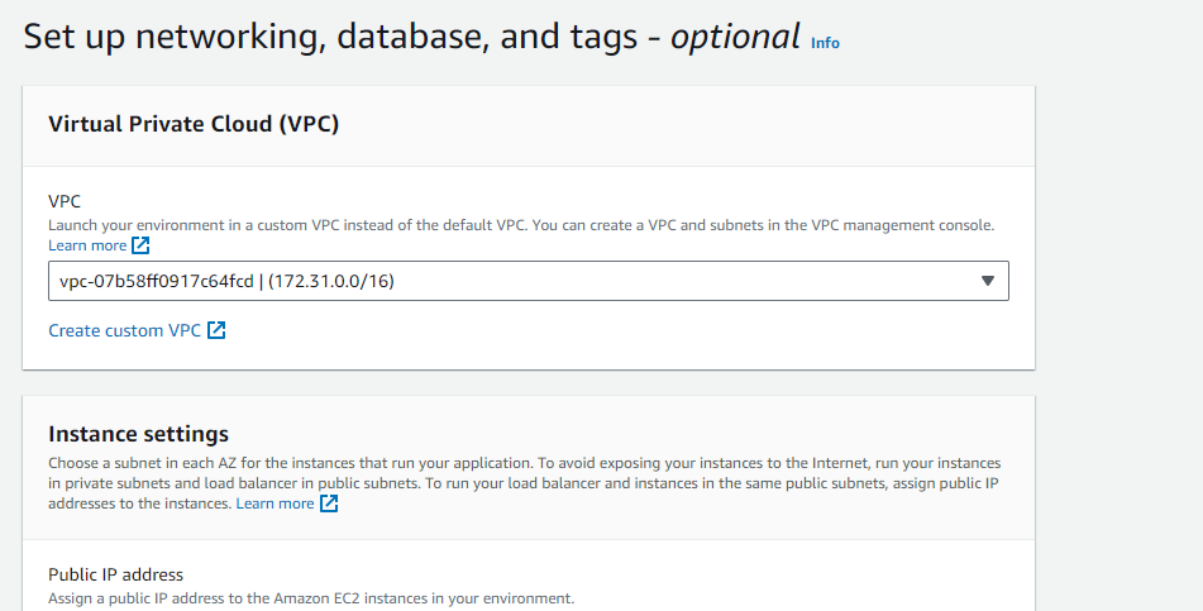
Provide the Role details and Create the Role



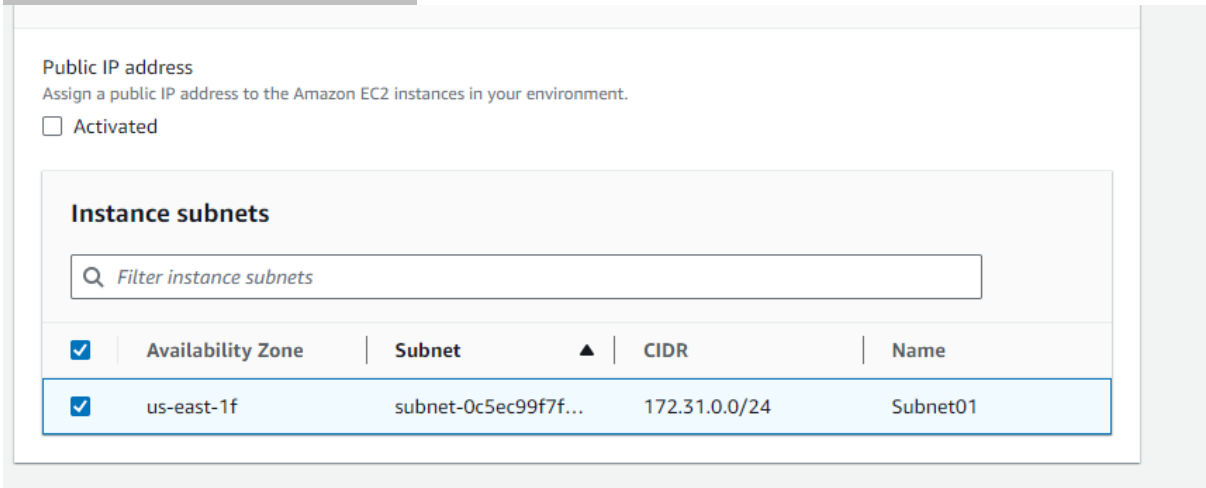
After creating the role Click on Choose existing role and select Elastic Beanstalk role, Key pair and EC2 role.



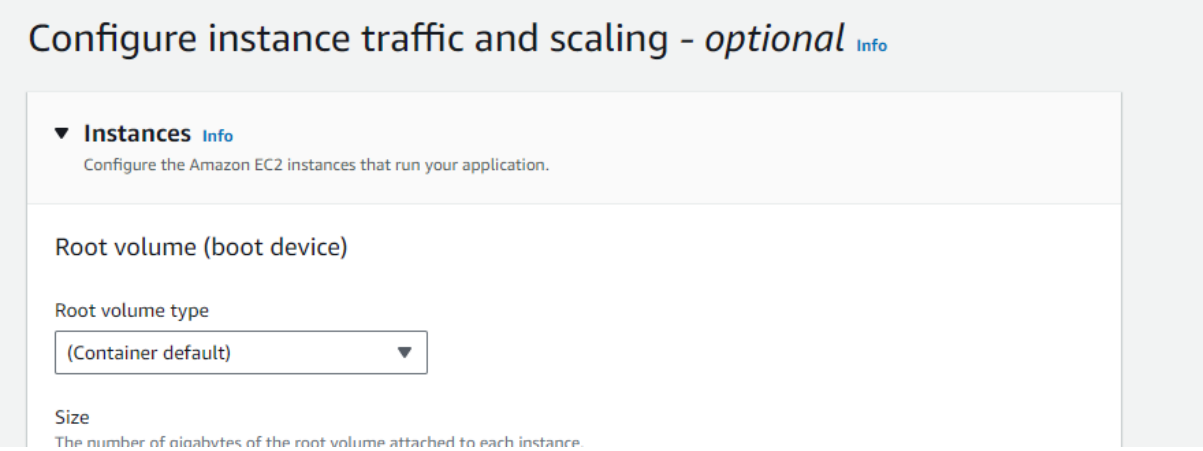
Select the Default VPC



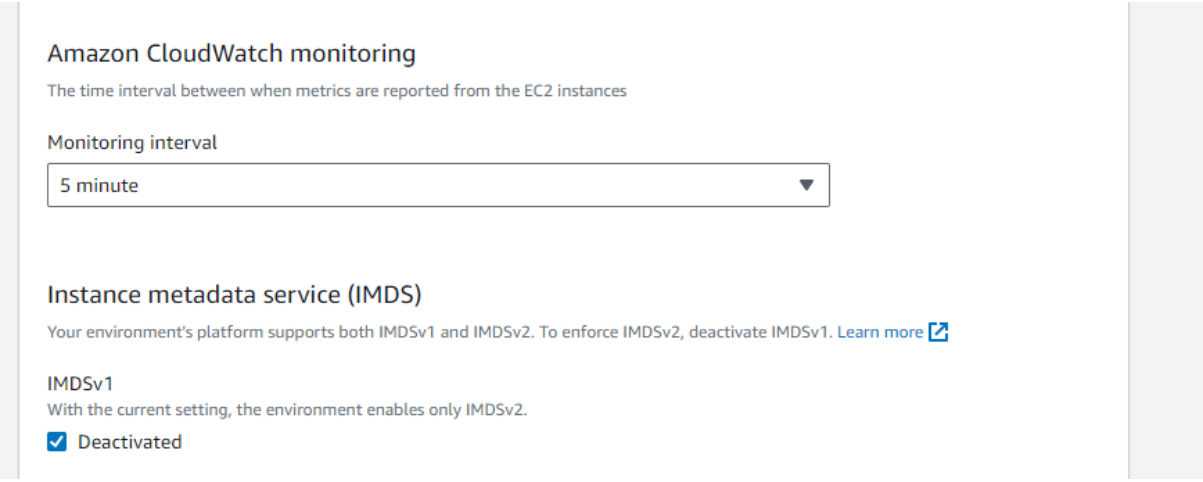
Select All Available Subnets



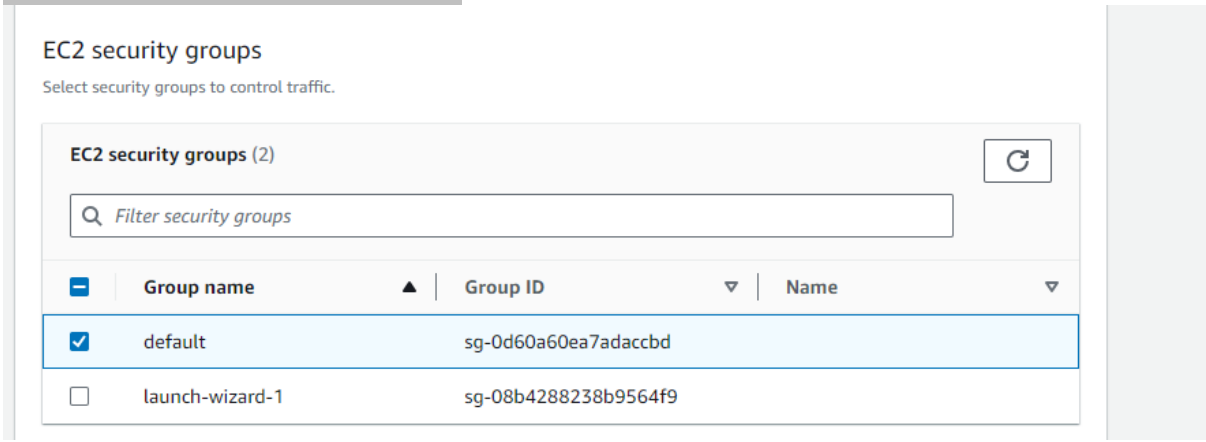
Select Default Volume



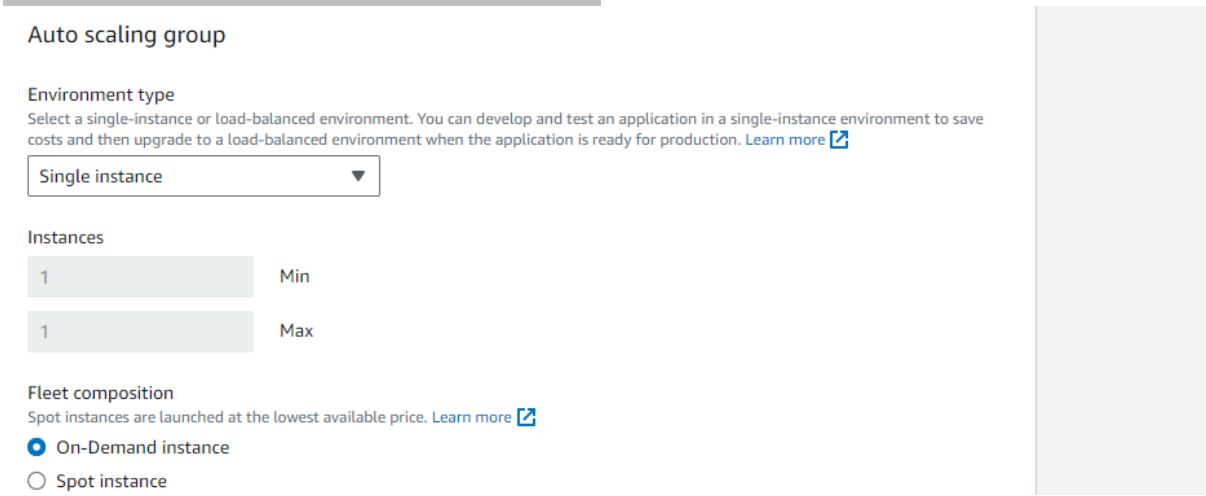
Monitored interval 5 min



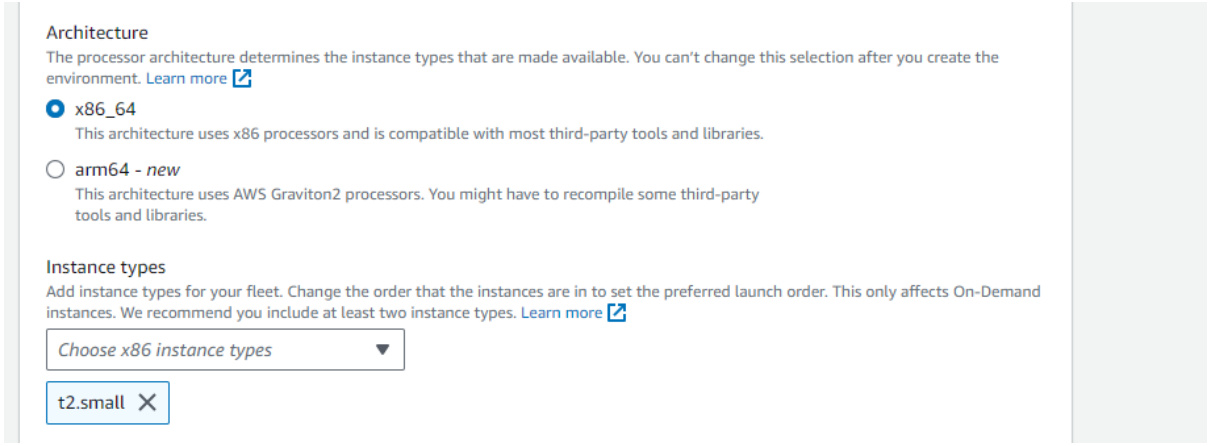
Choose Default Security group



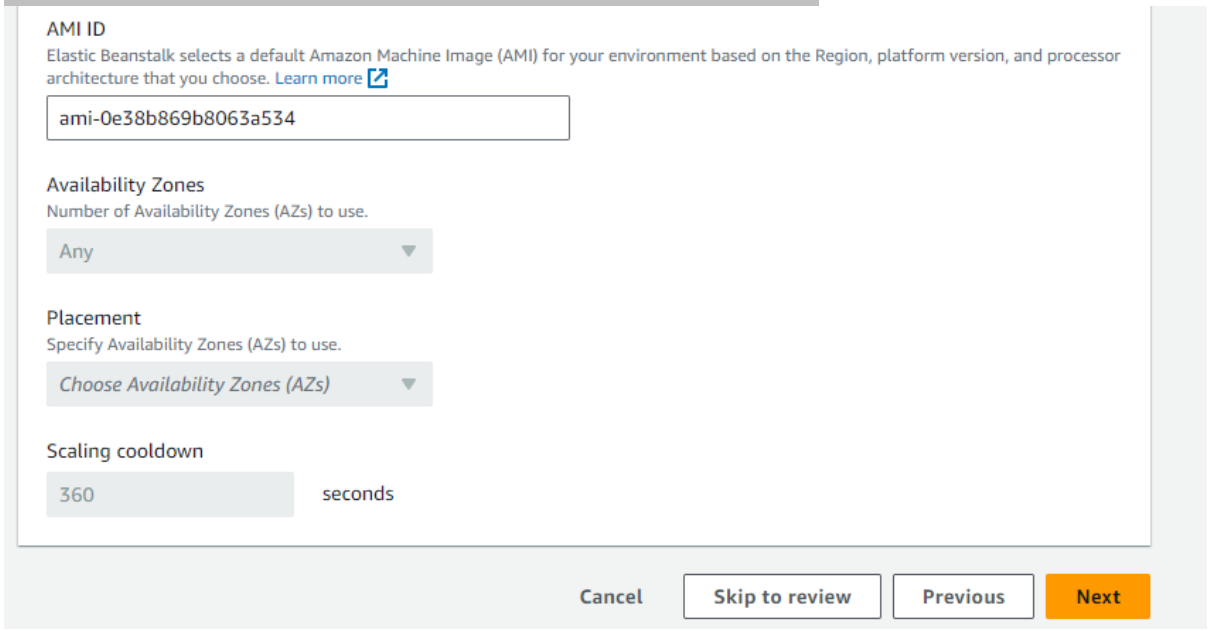
Choose Single and On demand instance



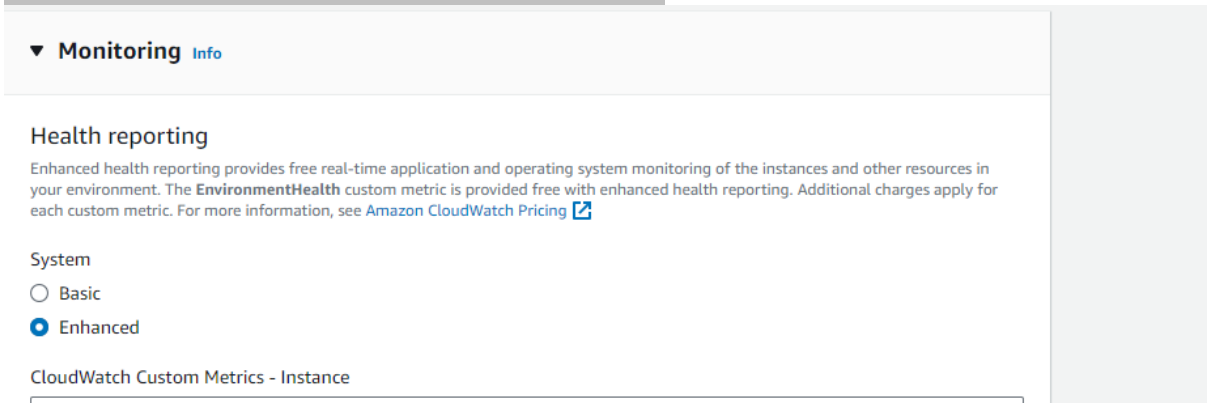
Select the following Architecture and Instance Type



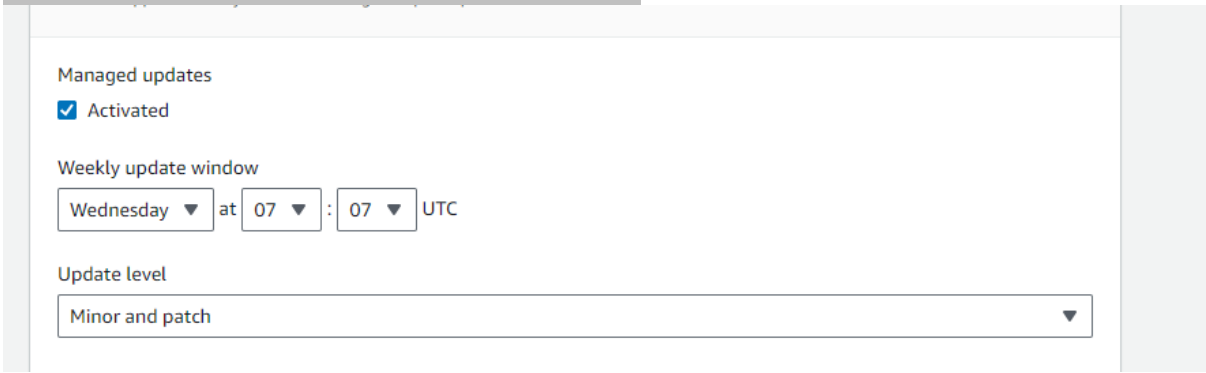
AMI ID will be created automatically and click on Next



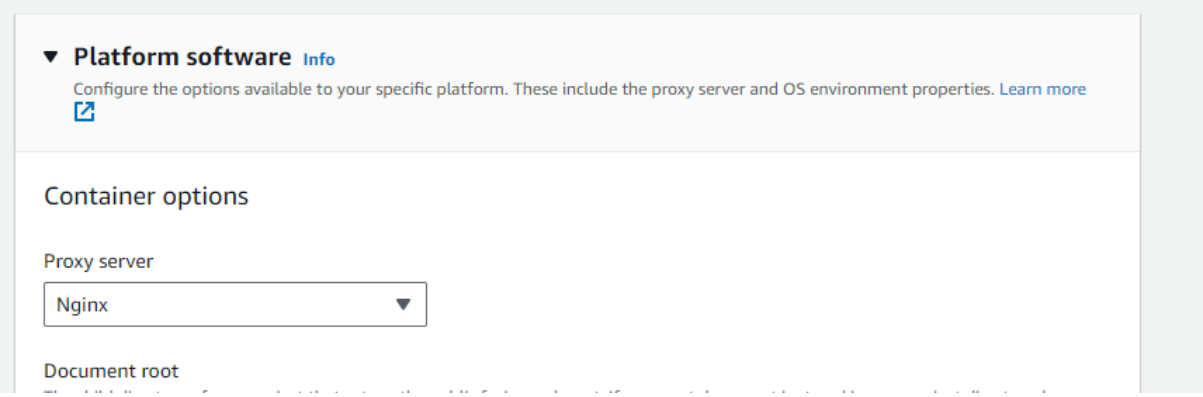
Choose Enhanced system under Monitoring



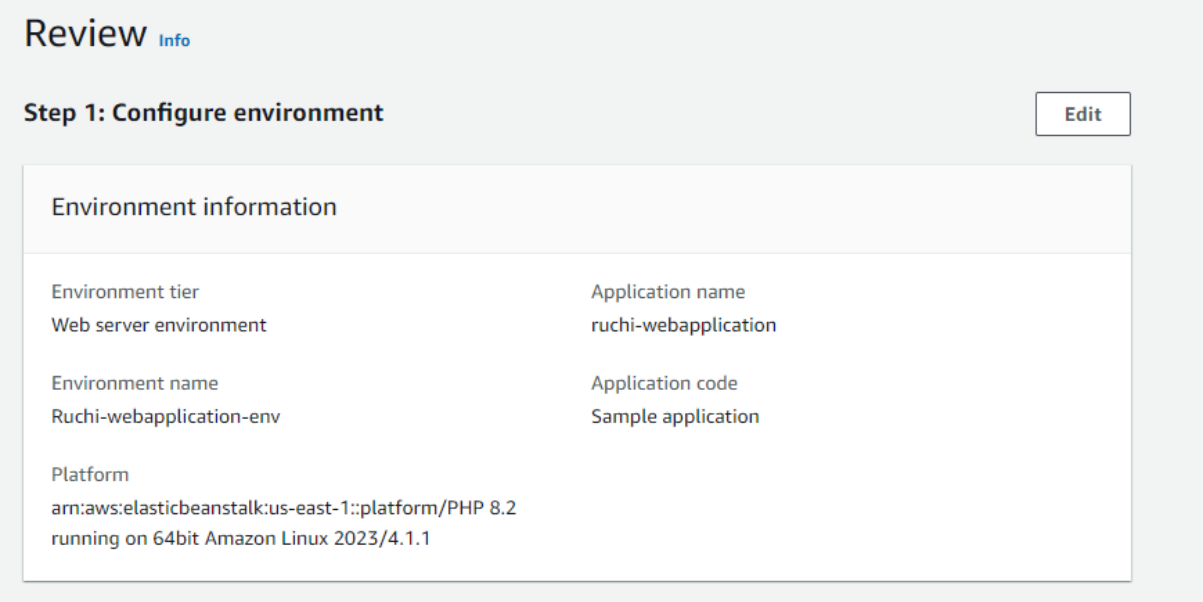
Check box Activated for Managed updates



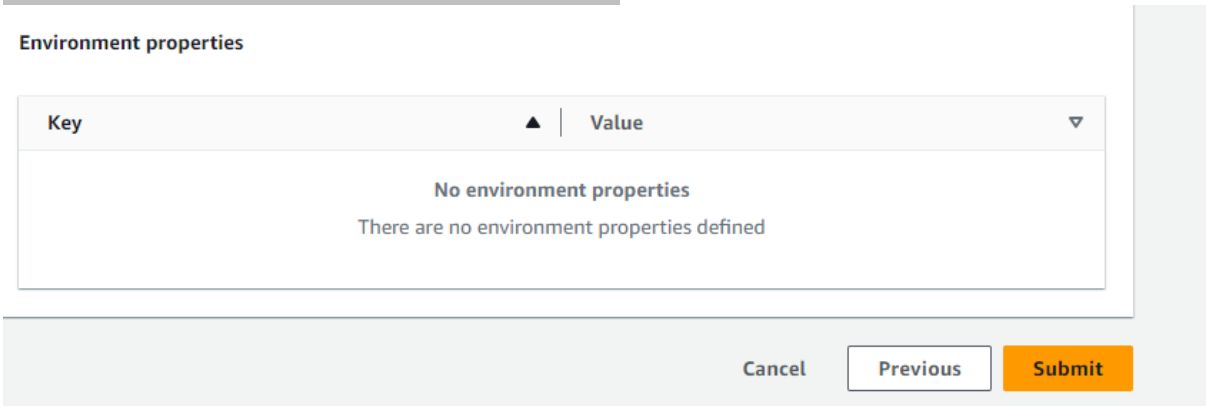
Choose the proxy server as Nginx



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

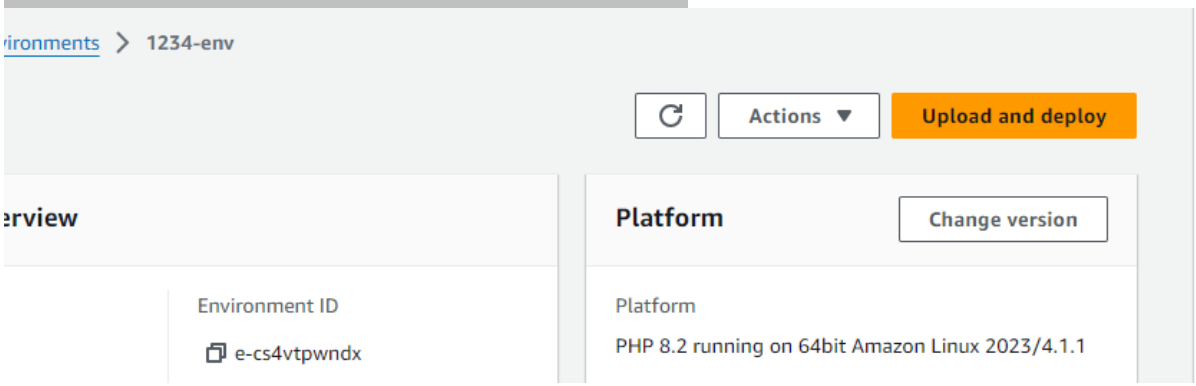


After reviewing submit the Environment.

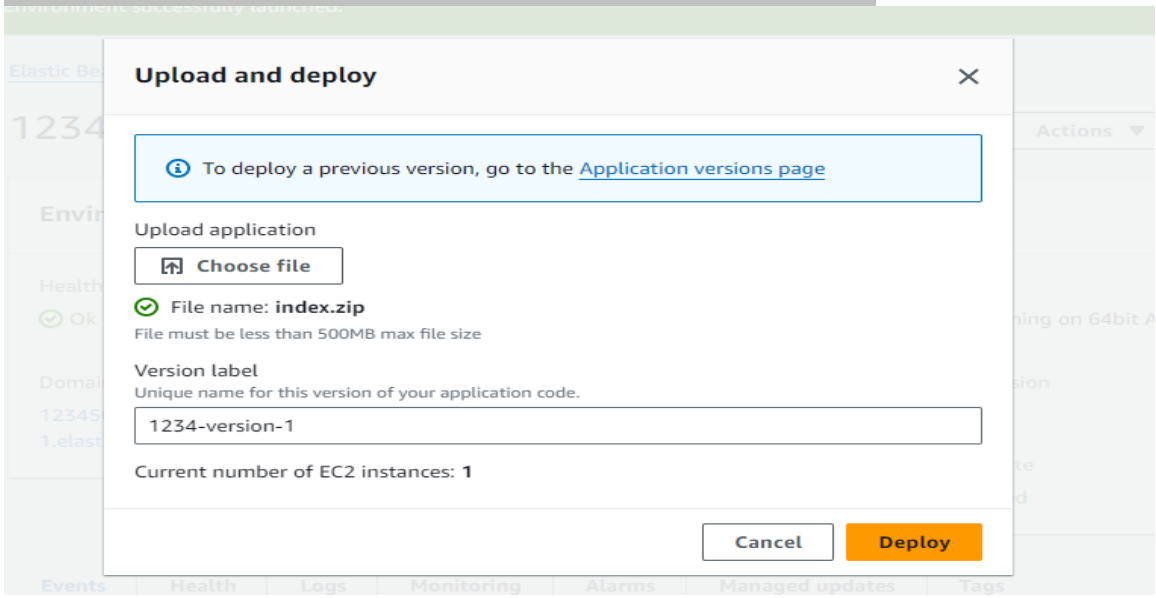


Go to the Domain Environment you will see the default web page

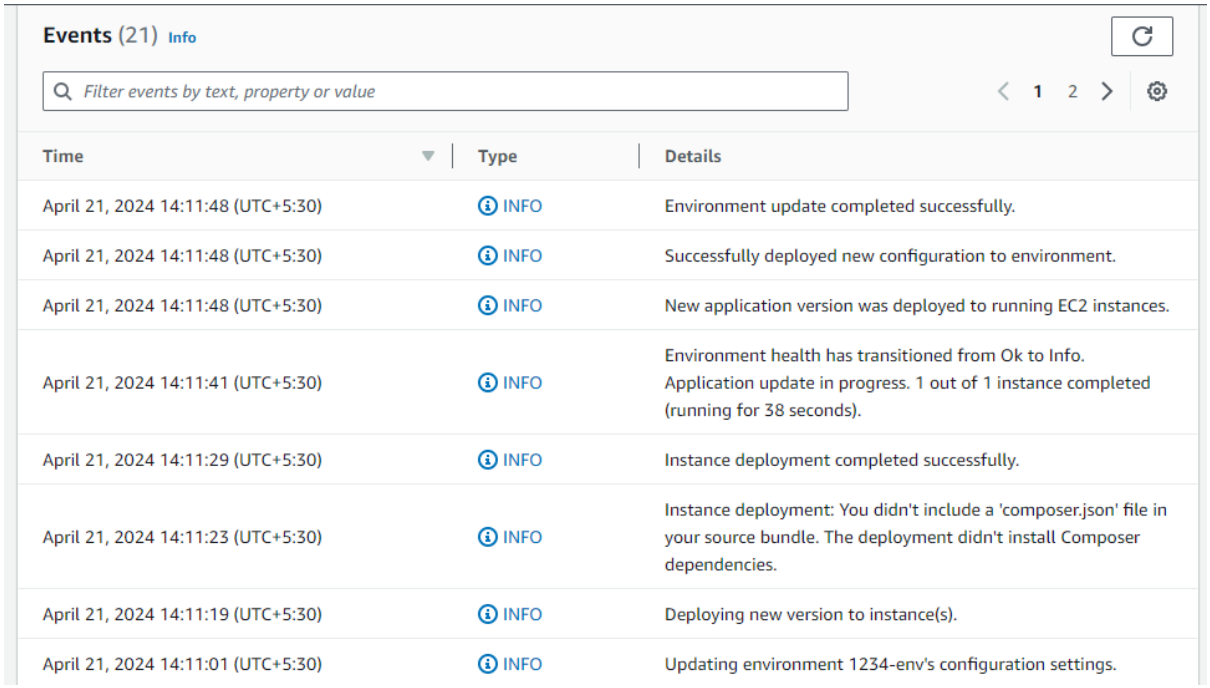
Now upload and deploy the Php index zip file



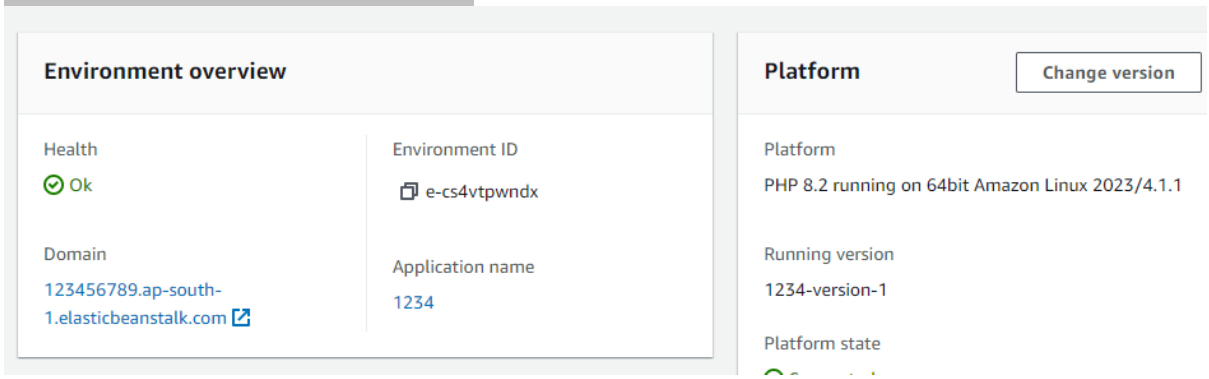
Choose the file and give the version label and click deploy



Events are created as per the performance

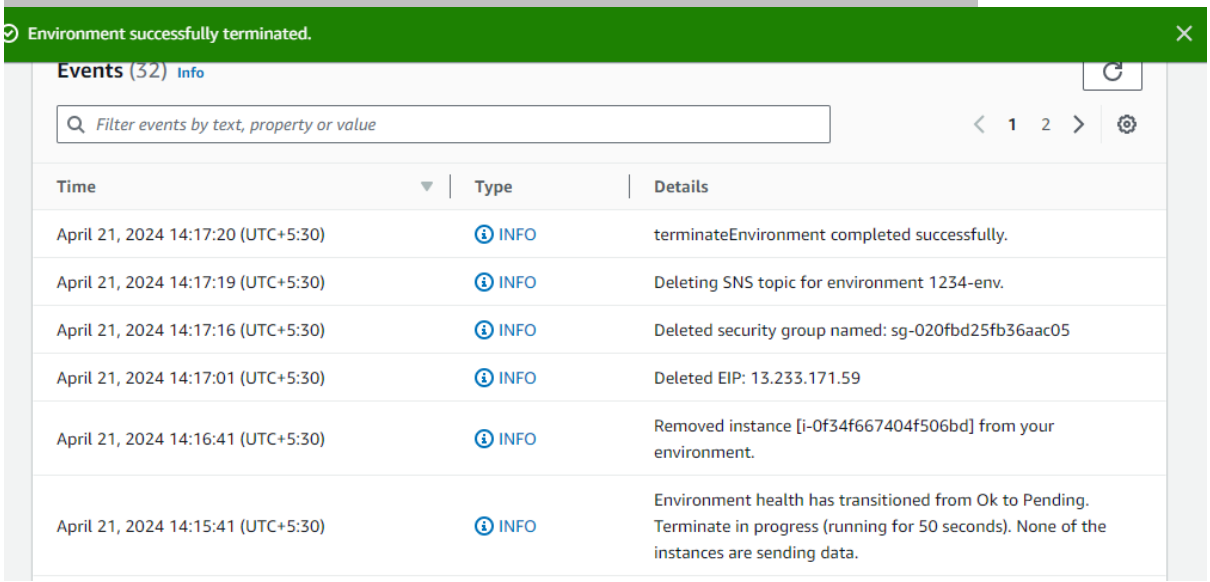


Now click on the domain name



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

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



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