Module 9: Elastic Beanstalk Assignment

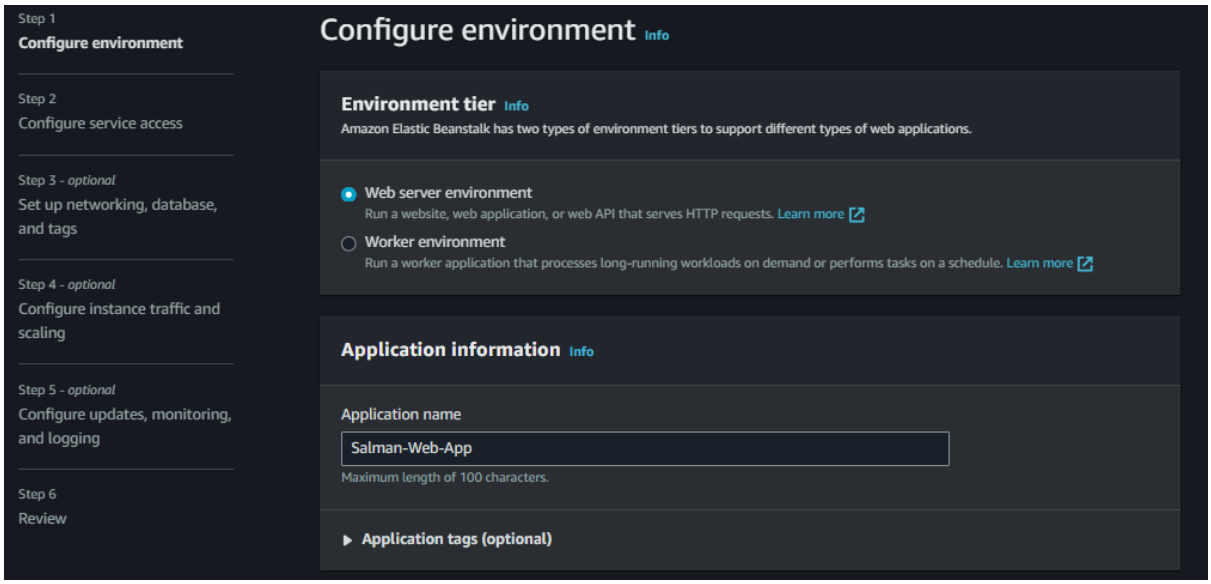
Problem Statement:

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.

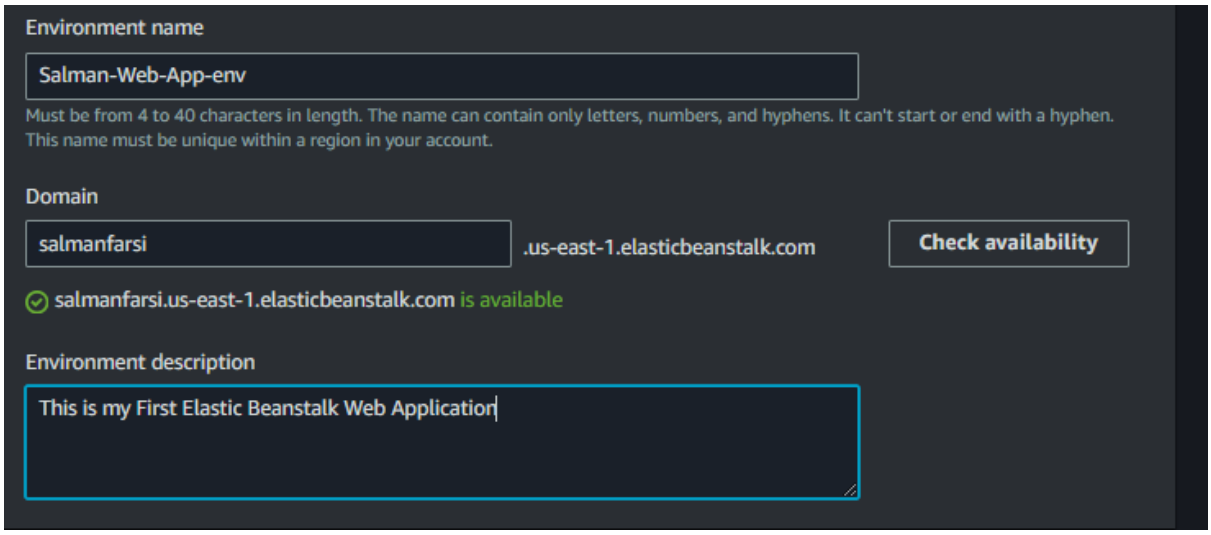
Tasks To Be Performed:

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

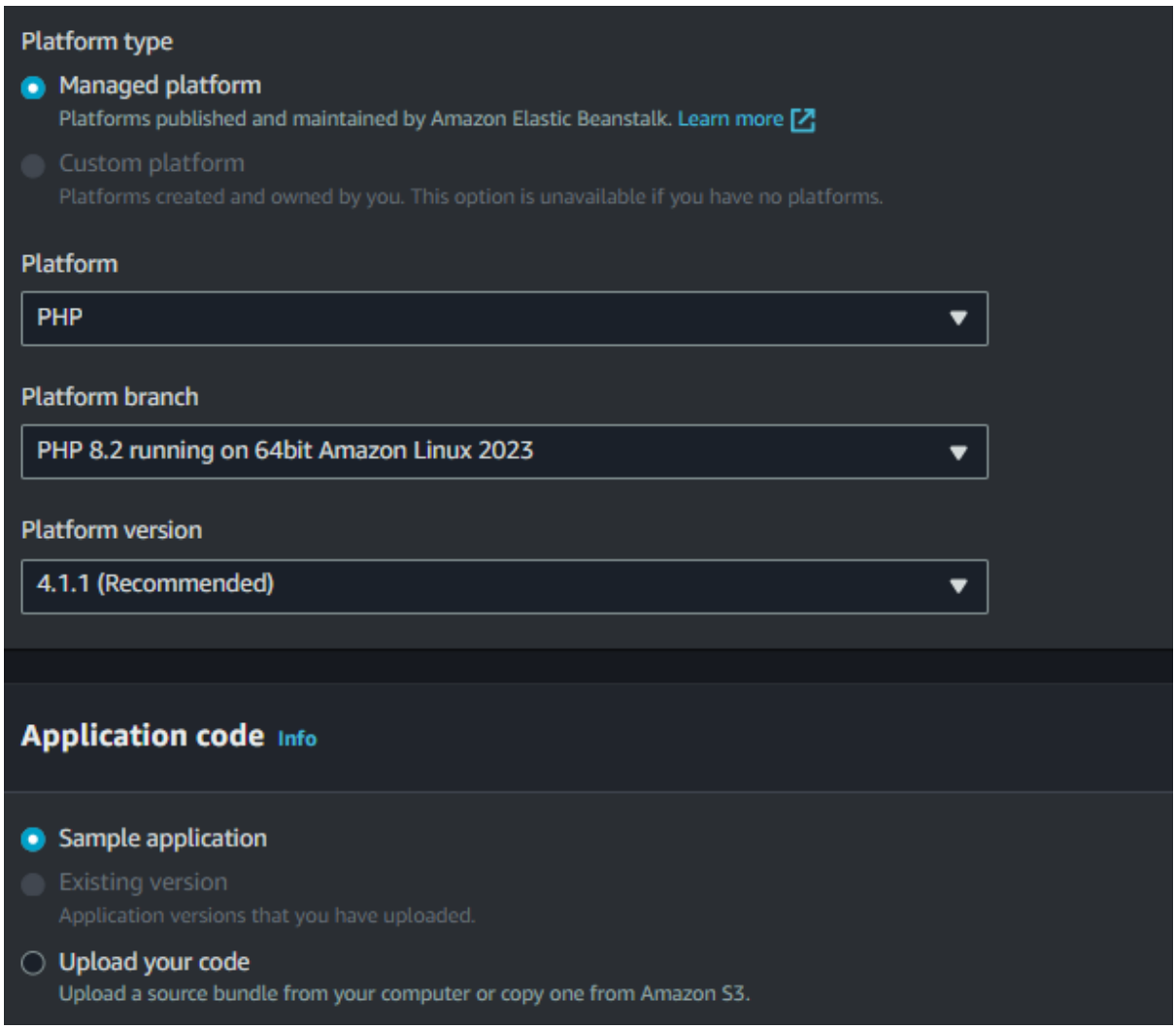
1. Creating Elastic Beanstalk Environment and Selecting Web Server Env and Given Name as Salman-Web-App



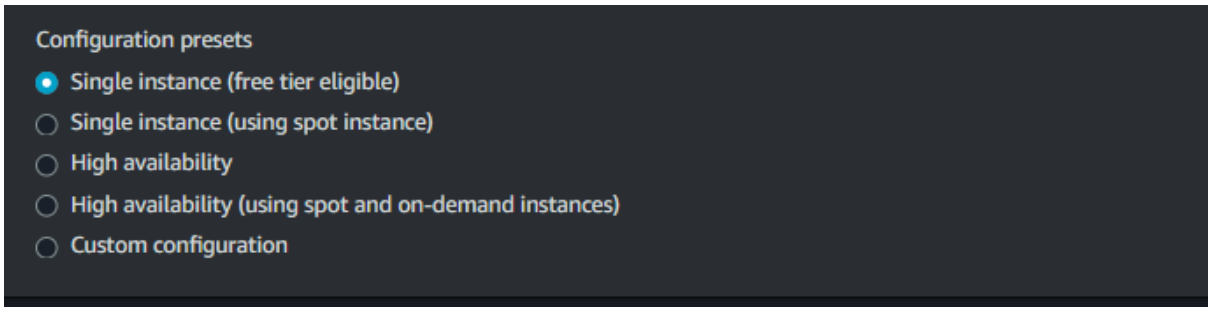
2. Its Took Environment name Automatically and I Given Domain Name and its shown Available



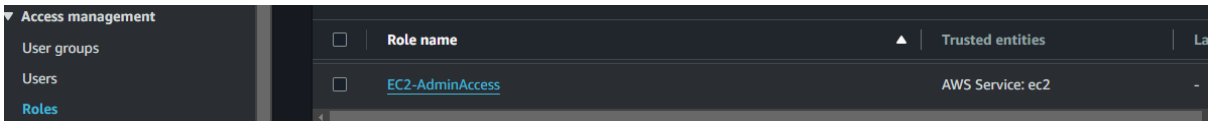
3. By Default Its Selected Managed Platform for Webserver and runtime is PHP as per the task and branch and version and Currently not uploading custom file and using sample App file .



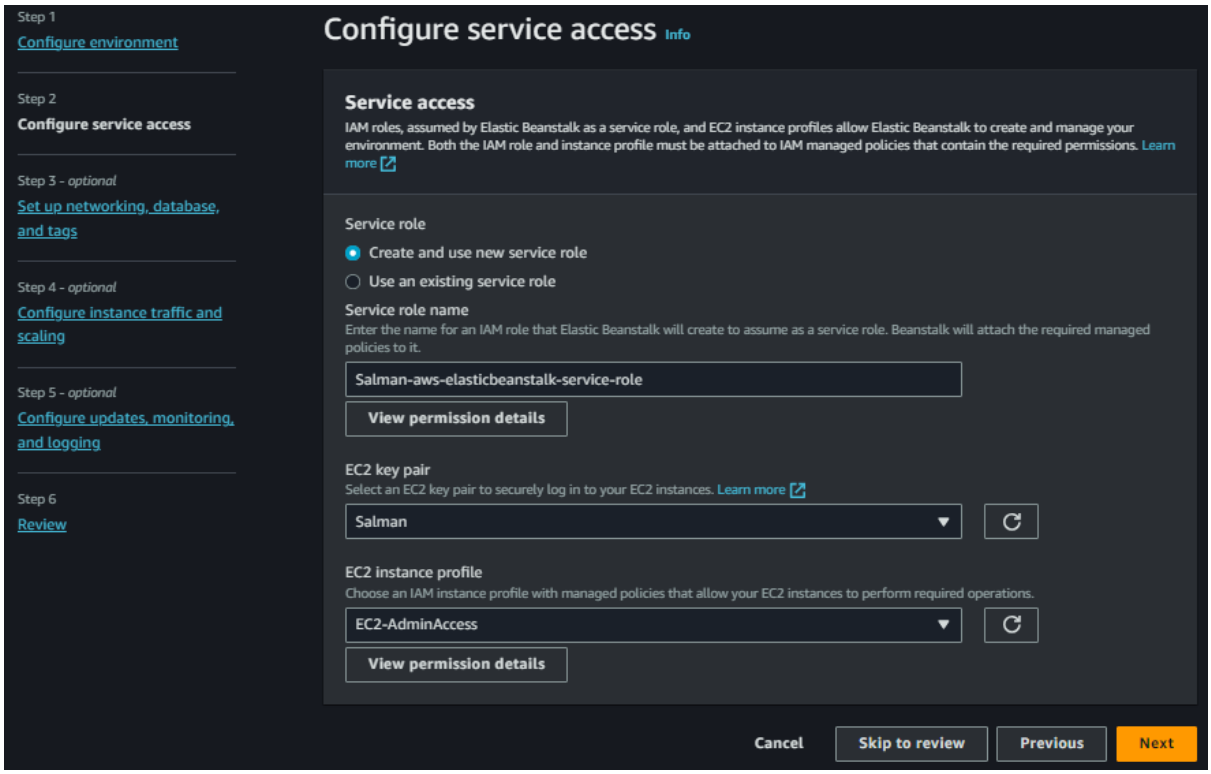
4. Choosing Free Tier eligible



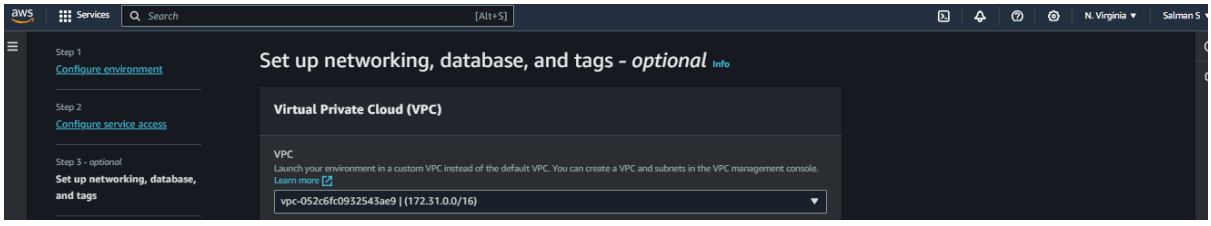
5. After That It Will Ask Role so I Came to IAM and Created EC2-AdminAccess to EC2 Instances



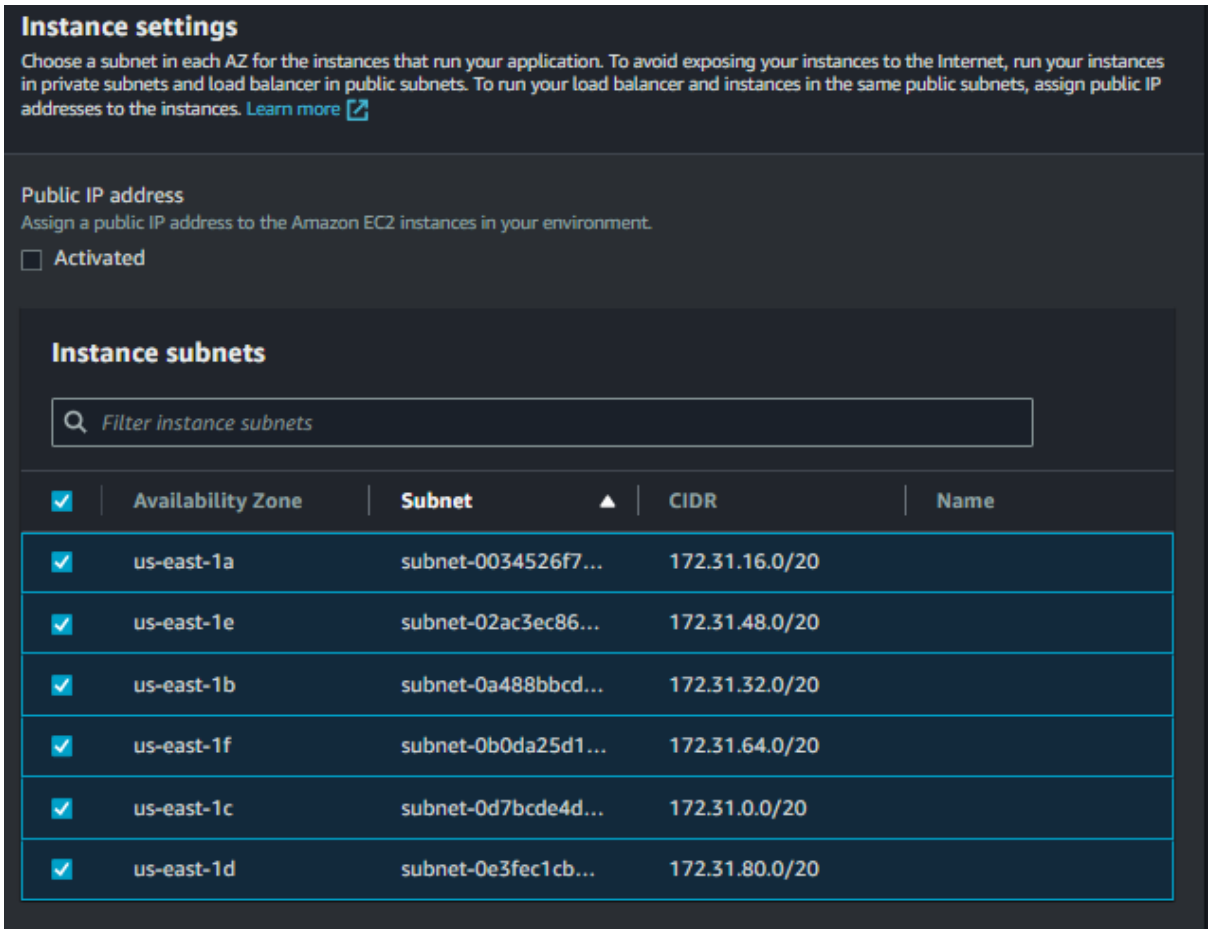
6. Create service role and using Existing EC2 Instance Profile which we previously Created



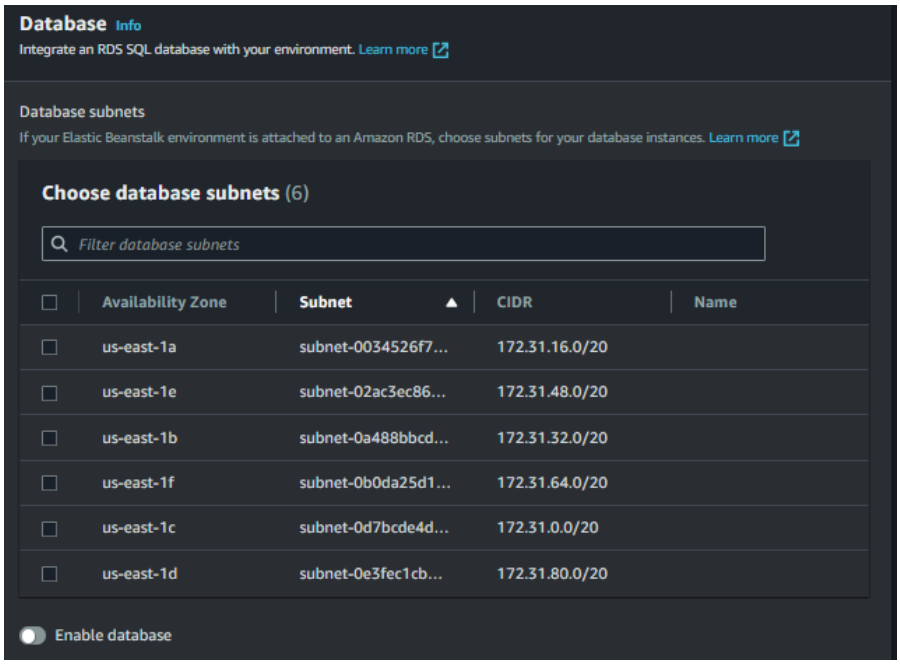
7. In Step 3 Selecting VPC



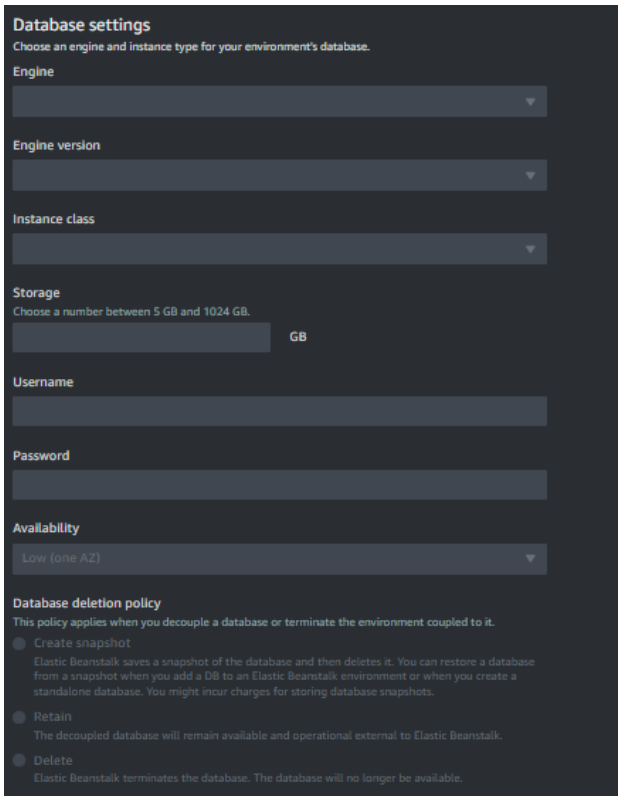
8. Currently Not Activating Public IP and Selecting All Subnets.



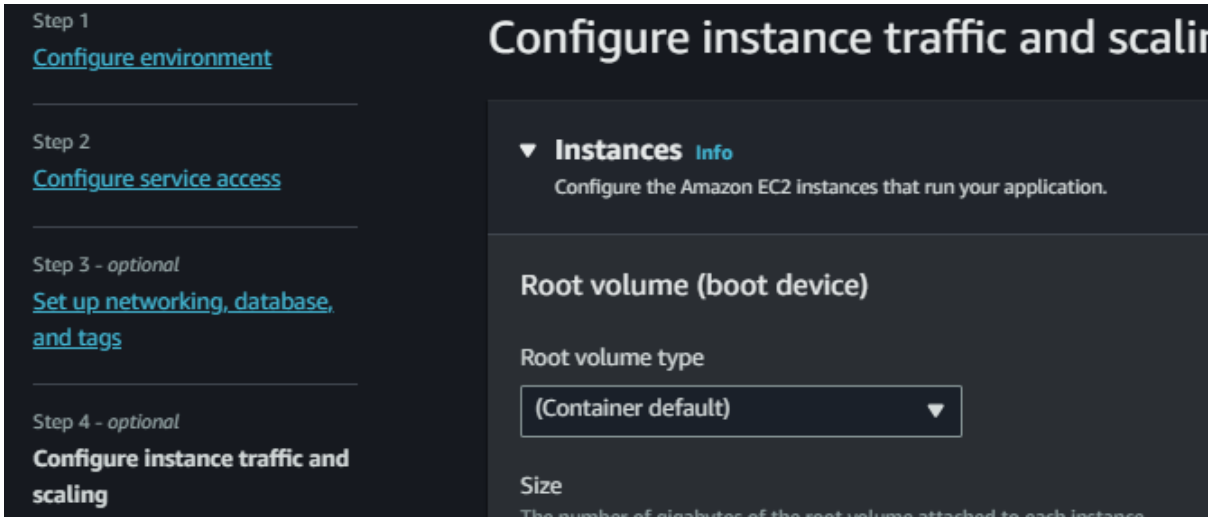
9. Not Able to Enable Database Because Its not supported to Free Tier Single Instances



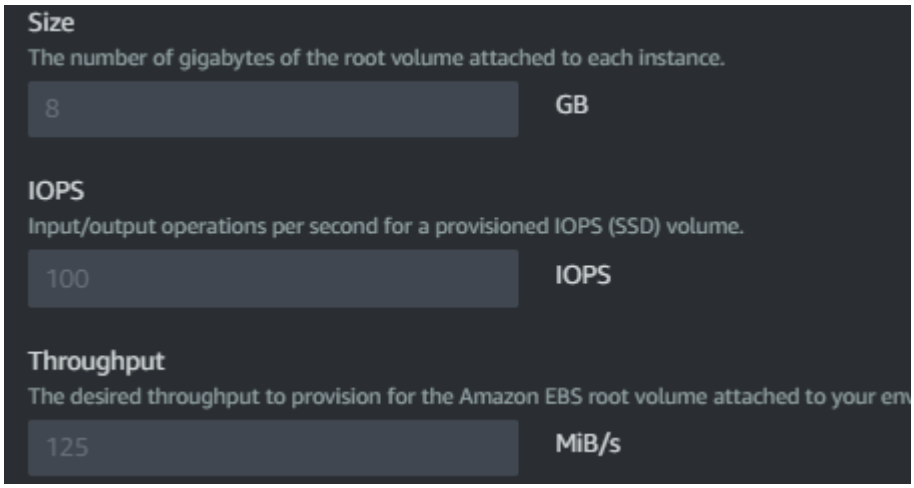
10. I Captured the Database Settings for Future Understanding Purpose



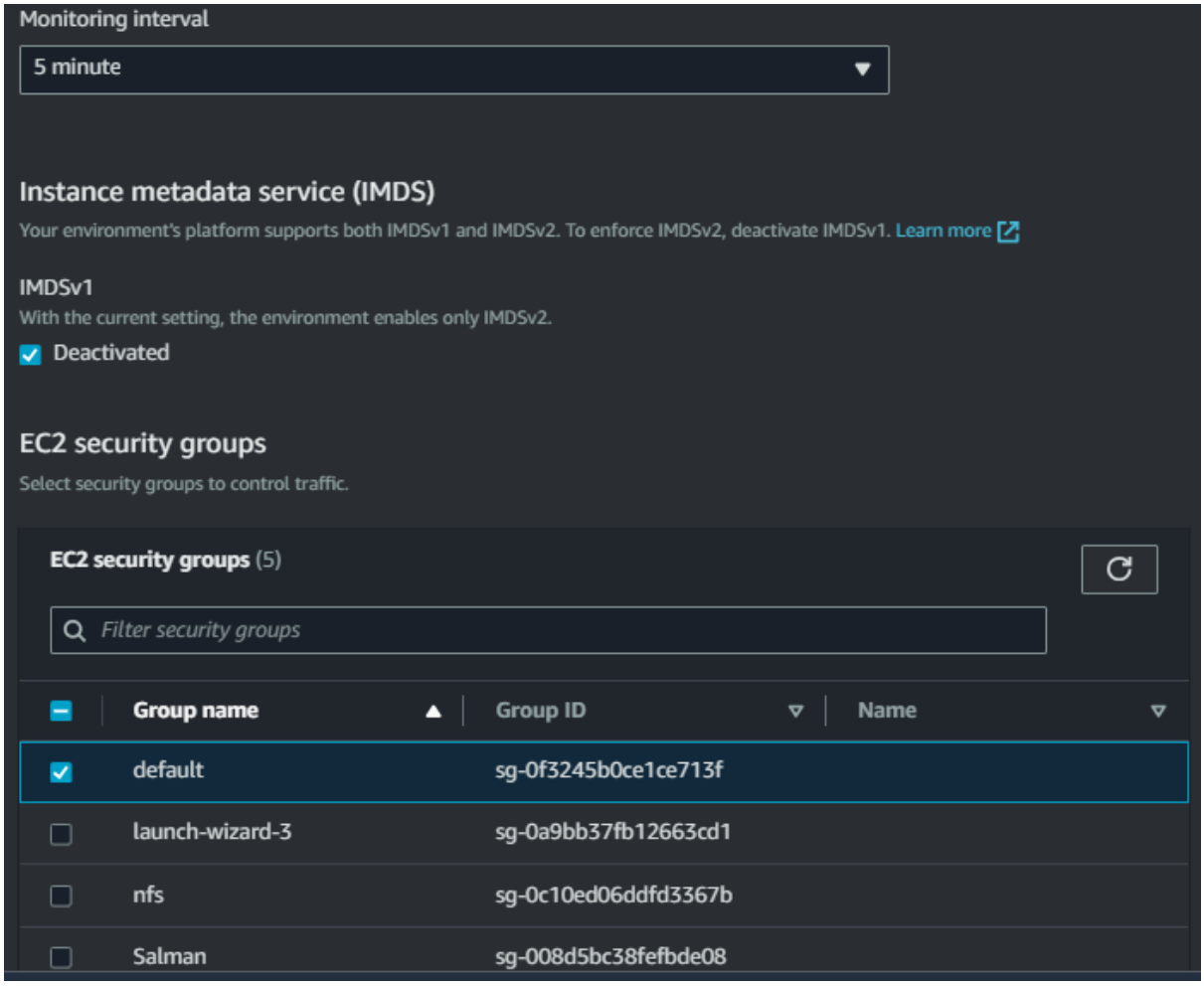
11. Root Volume is Selected by Default



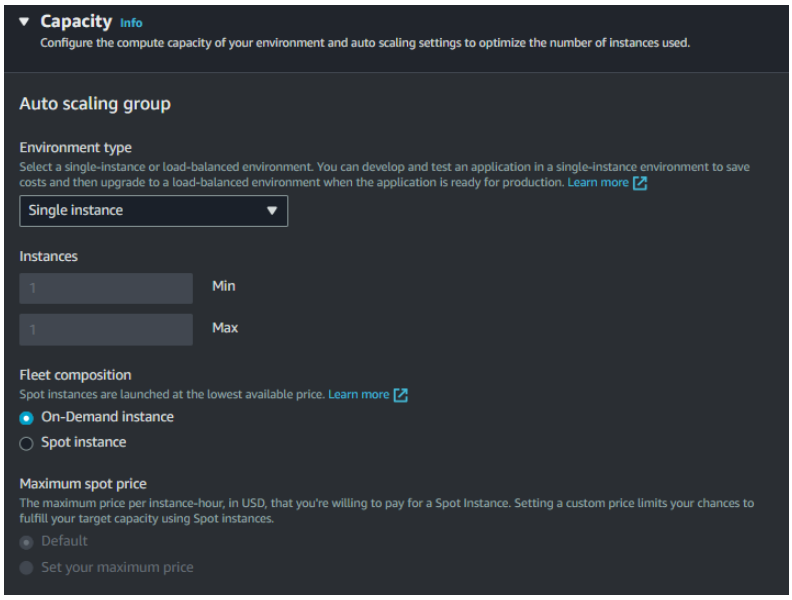
12. Default 8 GB and 100 IOPS and Throuhput 125 MiB/s for Free Tier



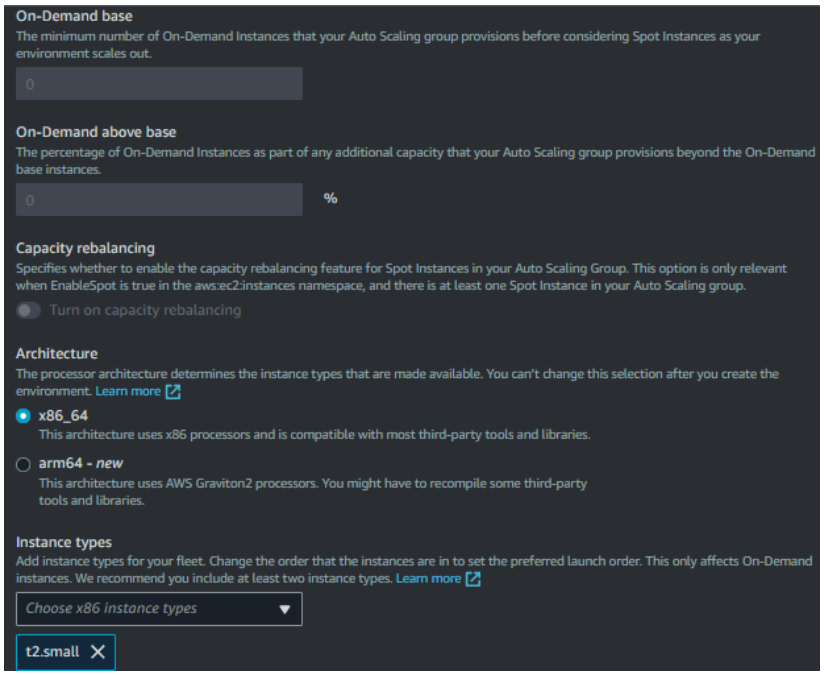
13. Monitoring Interval 5 minute once and Selected Default SG which Allowed All Traffic Defautly



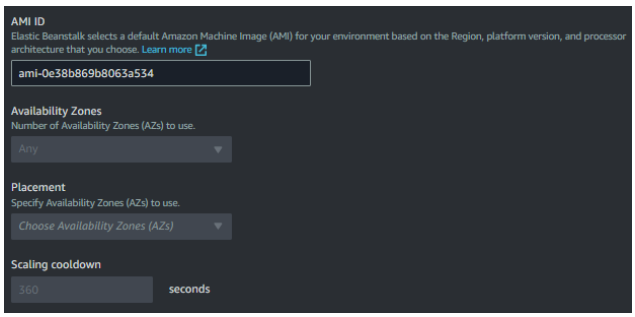
14. Configuration for Autoscaling Group Currently No Changes



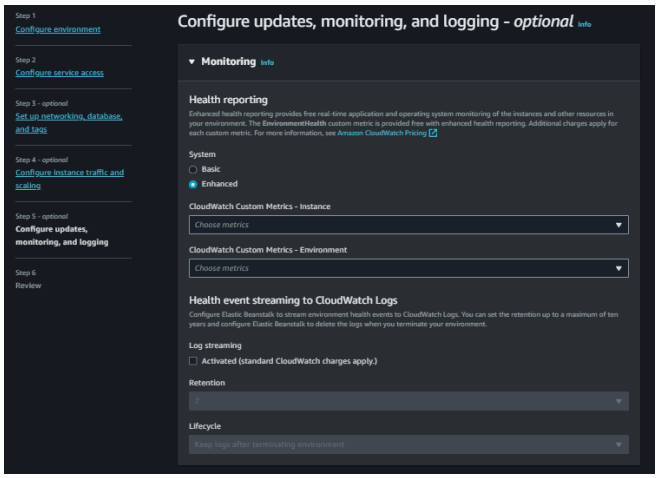
15. Using On Demand Base and Selected Architecture



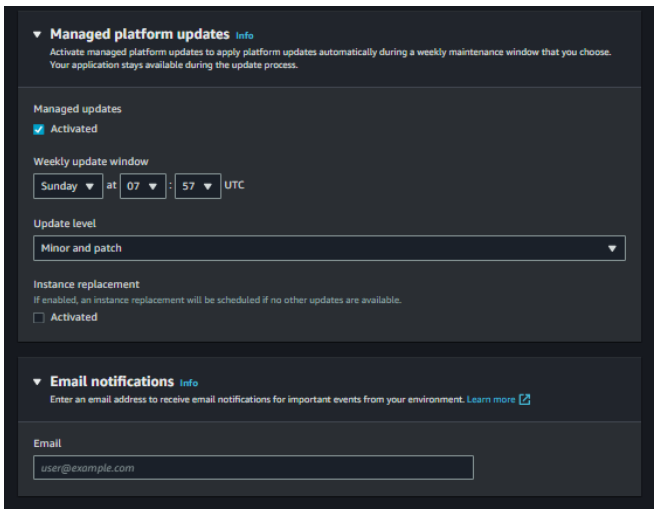
16. Free Tier AMI ID



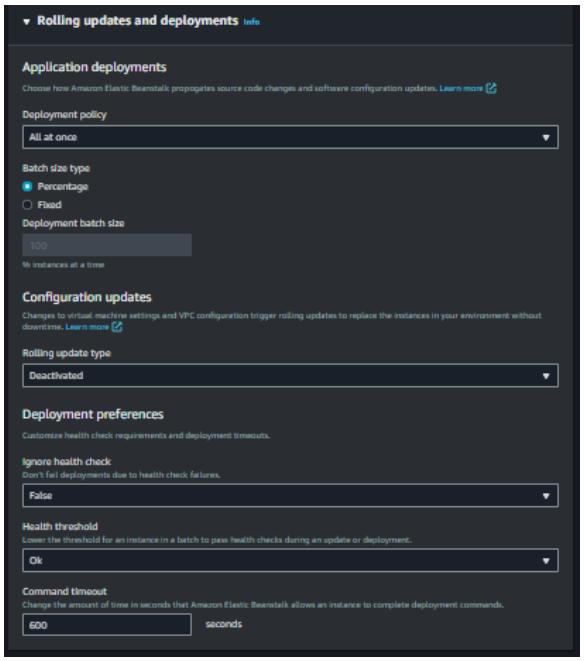
17. Monitoring Using Enhanced by default I am leaving this



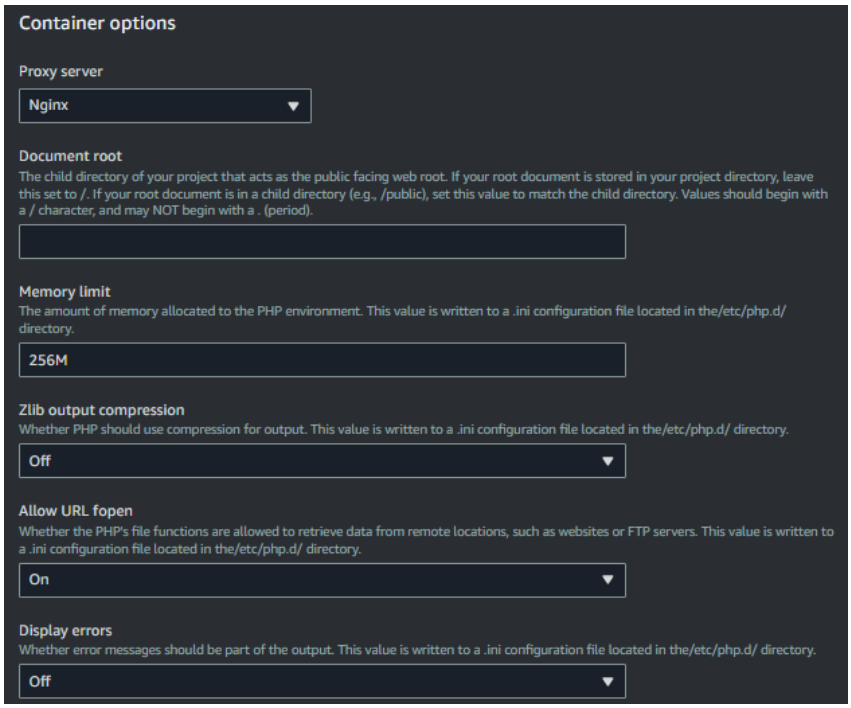
18. Managed Platform Updates it will Update Weekly Selected Day and time and we can choose Email Notifications to if we need currently not using it



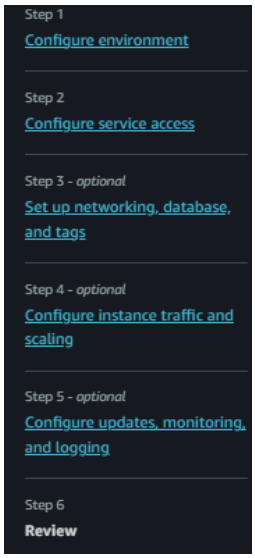
19. Rolling Updates and Deployments All At Once



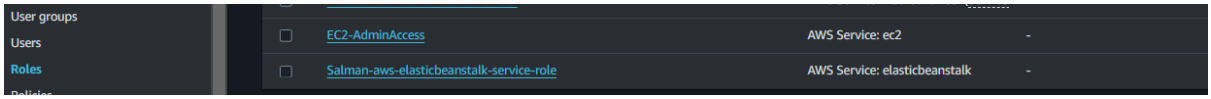
20. Using Nginx Server and memory unit and Allow URL



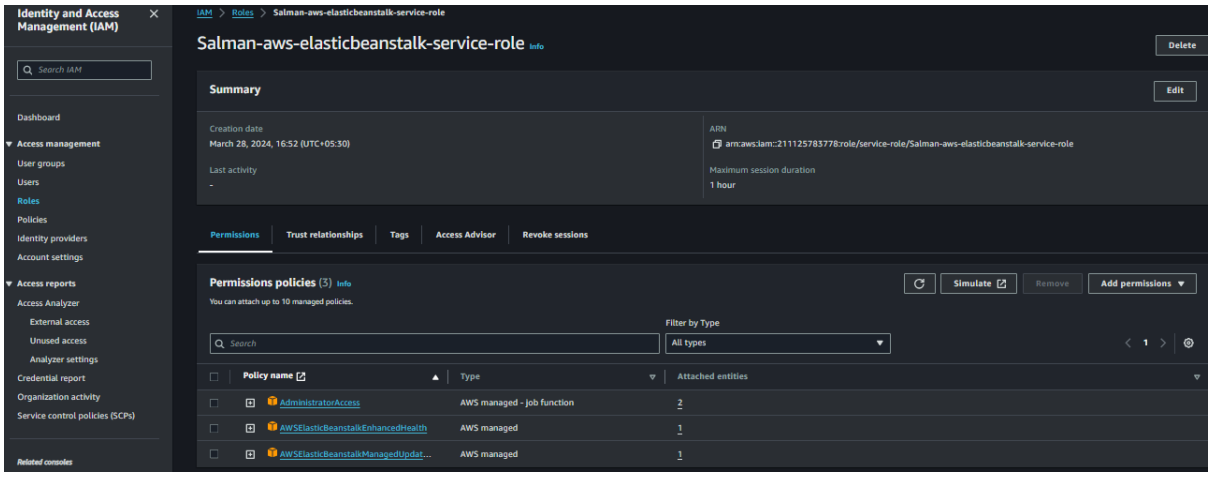
21. After Completing This all Steps Review it and Submit



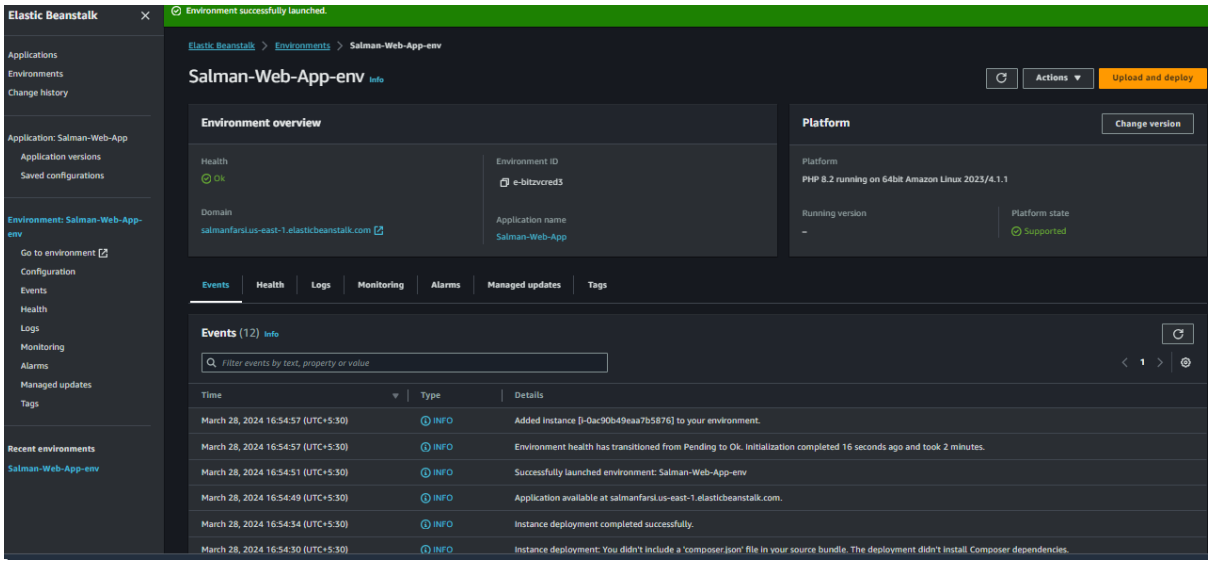
22. We Created Salman-aws-EBStalk-role so Need to give Admin Access. Go to IAM and Modify it



23. Added Admin Permission to Elasticbeanstalk environment

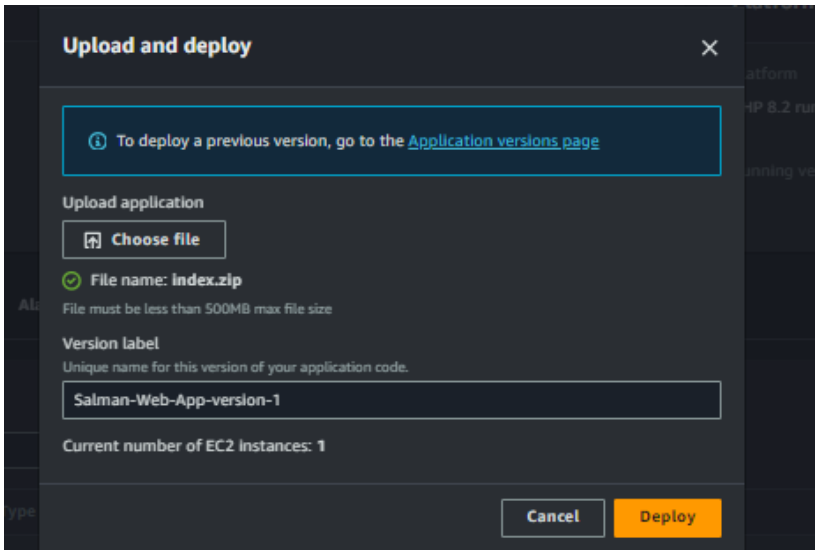


24. See Our Elastic Beanstalk Env Created Successfully and also we can see the events which are running and now Click Domain Name



25. By Default PHP Runtime we Selected and Its showing the version name and were its running

26. Now I am Using our Customize PHP Document in Zip File Format



27. This Program which we Uploaded in Beanstalk and Deploying it

C: > Users > shaik > AppData > Local > Temp > 9e1e7f94-1b0a-4ee6-9894-685cb7a9c557_index.zip.557 > index.php

```
<html>
<head>
<title>PHP Test</title>
</head>
<body>
<?php echo '<p>Hello AWS Learner</p>'; ?>
</body>
</html>
```

28. This Are the Events are running in Environment

March 28, 2024 16:58:14 (UTC+5:30)	INFO	Deploying new version to instance(s).
March 28, 2024 16:57:55 (UTC+5:30)	INFO	Updating environment Salman-Web-App-env's configuration settings.
March 28, 2024 16:57:48 (UTC+5:30)	INFO	Environment update is starting.
March 28, 2024 16:54:57 (UTC+5:30)	INFO	Added instance [i-0ac90b49eaa7b5876] to your environment.
March 28, 2024 16:54:57 (UTC+5:30)	INFO	Environment health has transitioned from Pending to Ok. Initialization completed 16 seconds ago and took 2 minutes.
March 28, 2024 16:54:51 (UTC+5:30)	INFO	Successfully launched environment: Salman-Web-App-env
March 28, 2024 16:54:49 (UTC+5:30)	INFO	Application available at salmanfarsi.us-east-1.elasticbeanstalk.com.
March 28, 2024 16:54:34 (UTC+5:30)	INFO	Instance deployment completed successfully.
March 28, 2024 16:54:30 (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.
March 28, 2024 16:54:10 (UTC+5:30)	INFO	Waiting for EC2 instances to launch. This may take a few minutes.
March 28, 2024 16:53:20 (UTC+5:30)	INFO	Created EIP: 44.221.88.176
March 28, 2024 16:53:04 (UTC+5:30)	INFO	Created security group named: sg-0b491d8a888be8409
March 28, 2024 16:52:57 (UTC+5:30)	INFO	Environment health has transitioned to Pending. Initialization in progress (running for 10 seconds). There are no instances.
March 28, 2024 16:52:38 (UTC+5:30)	INFO	Using elasticbeanstalk-us-east-1-211125783778 as Amazon S3 storage bucket for environment data.
March 28, 2024 16:52:37 (UTC+5:30)	INFO	createEnvironment is starting.

29. Refresh it, Now are able to see the Changes in the Web Application as per the Doc we uploaded

Hello AWS Learner

30. See Now we terminating the Environment and Its Started Terminating and Updating in the Events

March 28, 2024 17:03:02 (UTC+5:30)	INFO	terminateEnvironment completed successfully.
March 28, 2024 17:03:01 (UTC+5:30)	INFO	Deleting SNS topic for environment Salman-Web-App-env.
March 28, 2024 17:02:59 (UTC+5:30)	INFO	Deleted security group named: sg-0b491d8a888be8409
March 28, 2024 17:02:59 (UTC+5:30)	INFO	Deleted EIP: 44.221.88.176
March 28, 2024 17:01:57 (UTC+5:30)	INFO	Environment health has transitioned from Ok to Pending. Terminate in progress (running for 2 minutes).
March 28, 2024 17:01:57 (UTC+5:30)	INFO	Removed instance [i-0ac90b49eaa7b5876] from your environment.
March 28, 2024 16:59:57 (UTC+5:30)	INFO	Environment health has transitioned from Info to Ok. Terminate in progress (running for 11 seconds).
March 28, 2024 16:59:56 (UTC+5:30)	INFO	Waiting for EC2 instances to terminate. This may take a few minutes.
March 28, 2024 16:59:39 (UTC+5:30)	INFO	Finished validating environment's EC2 instances for termination protection.
March 28, 2024 16:59:39 (UTC+5:30)	INFO	Validating environment's EC2 instances have termination protection disabled before performing termination.
March 28, 2024 16:59:38 (UTC+5:30)	INFO	terminateEnvironment is starting.