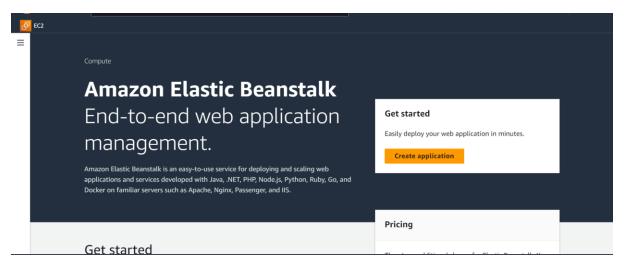
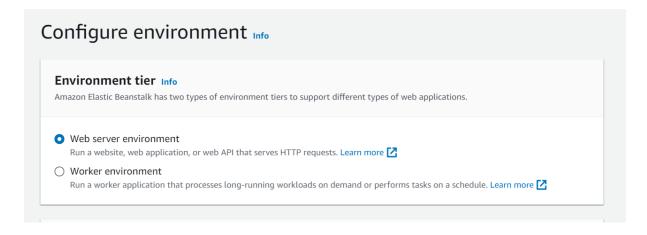
Elastic Beanstalk Environment Configuration

An AWS Elastic Beanstalk environment is a collection of AWS resources running an application version. You can deploy multiple environments when you need to run multiple versions of an application. For example, you might have development, integration, and production environments.

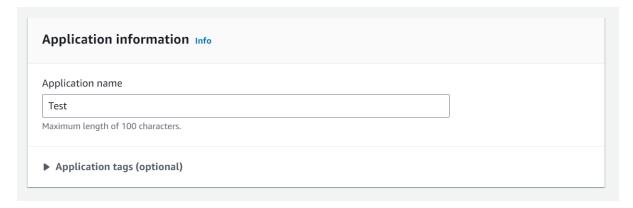
Create an application



Choose an environment tier

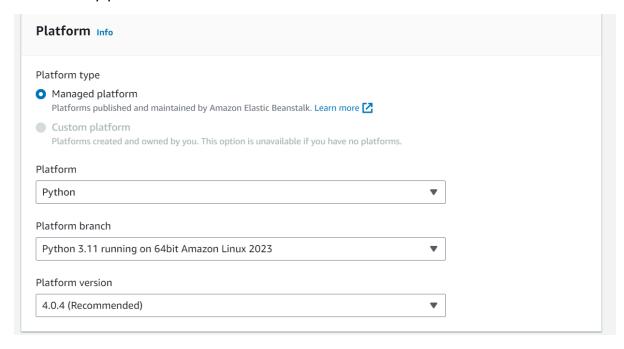


Name it as 'Test'

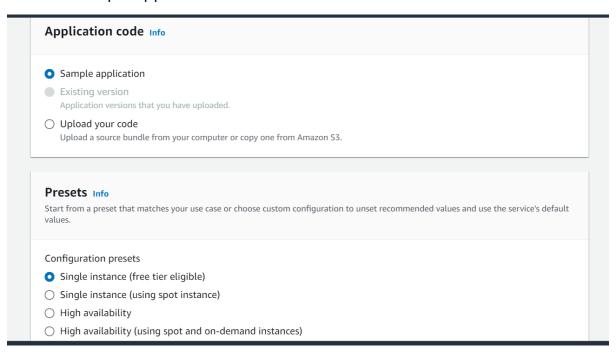


Test-env		
omain		
Leave blank for autogenerated value	.ap-south-1.elasticbeanstalk.com	Check availability

Choose any platform

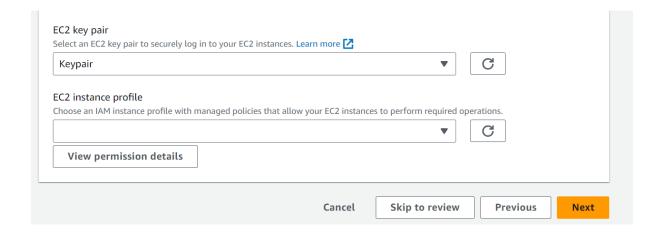


Create a sample application



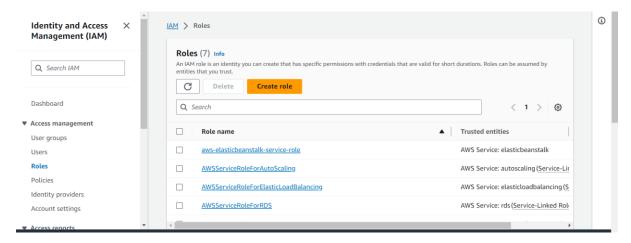
The Configure service access page displays

Service access IAM roles, assumed by Elastic Beanstalk as a service role, and EC2 instance profiles allow Elastic Beanstalk to create and manage your environment. Both the IAM role and instance profile must be attached to IAM managed policies that contain the required permissions. Learn more Service role Create and use new service role Use an existing service role Service role name Enter the name for an IAM role that Elastic Beanstalk will create to assume as a service role. Beanstalk will attach the required managed policies to it. aws-elasticbeanstalk-service-role View permission details

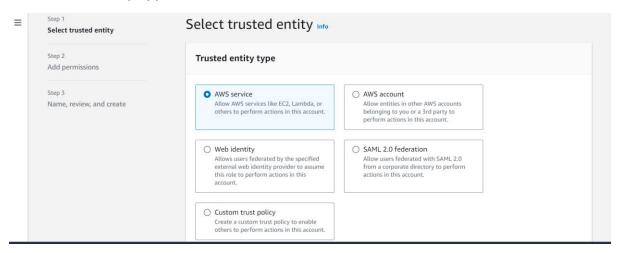


Here we have to create a EC2 instance profile

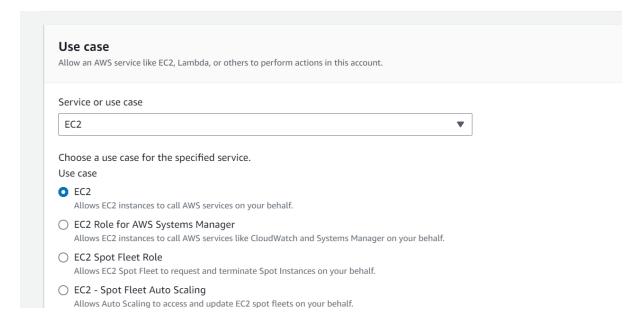
So go to IAM roles and create a role



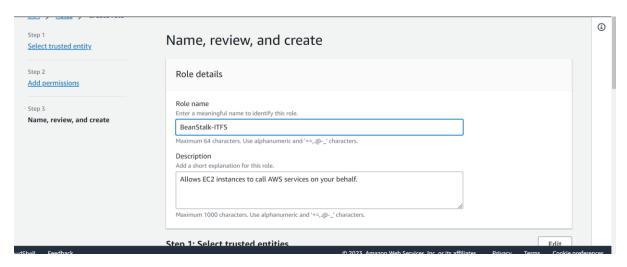
Select the entity type as 'AWS service'



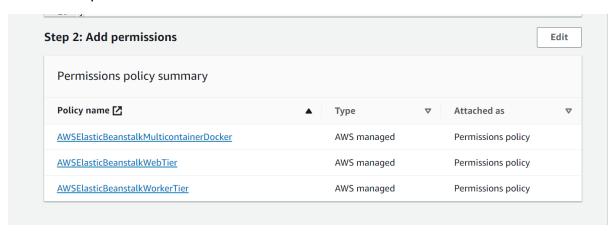
Choose the User case as 'EC2'



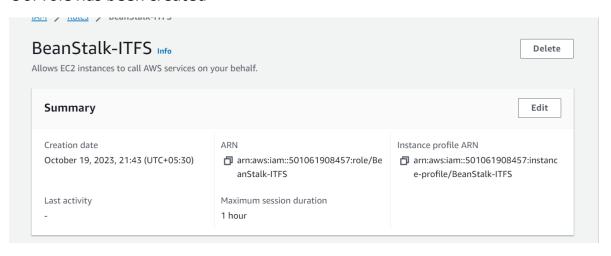
Name it as 'BeanStalk-ITFS'



Add these permissions

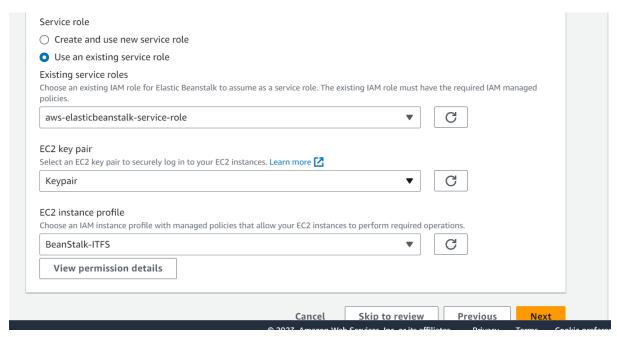


Our role has been created

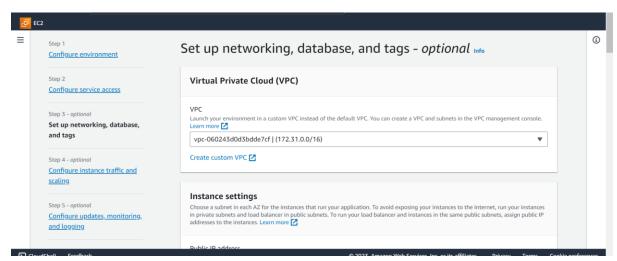


Now go back to the Beanstalk environment creation page

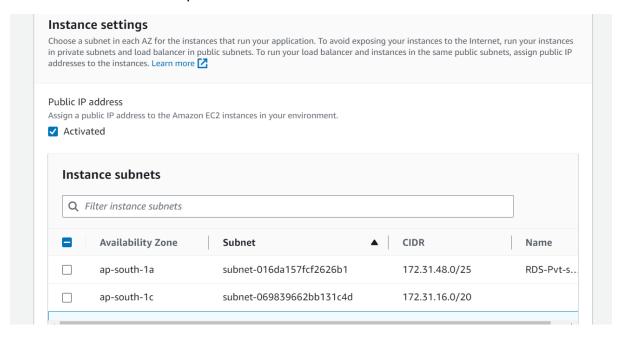
Here you can now see your role in Instance Profile once you click on refresh



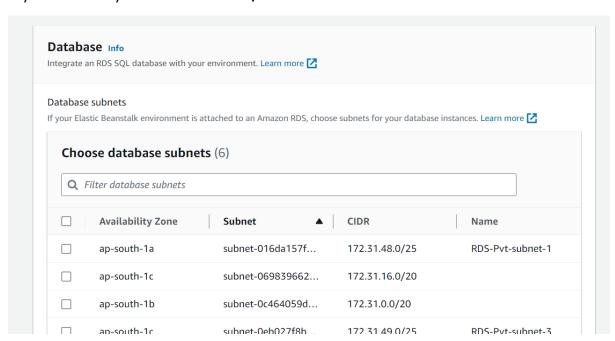
Here choose your default VPC



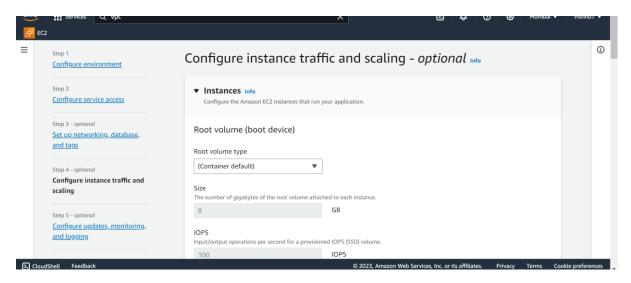
Choose the subnets required



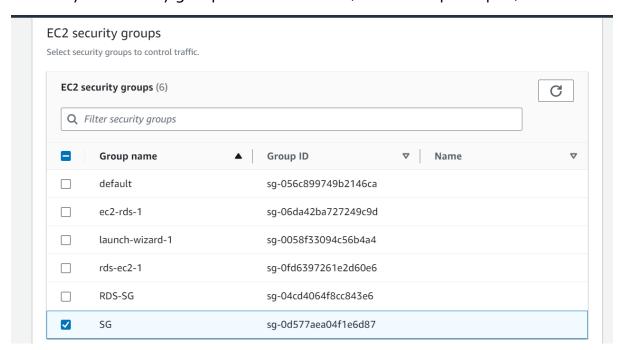
If you have any database to use, choose the subnet it is on



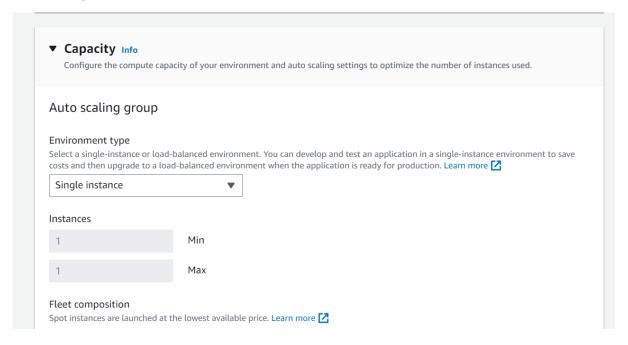
Choose default



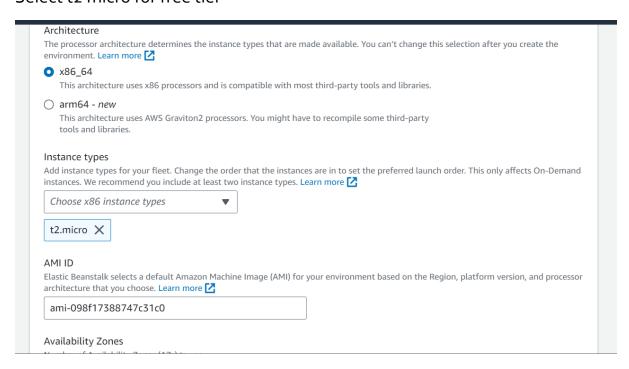
Choose your security group for the instance (with HTTP port open)



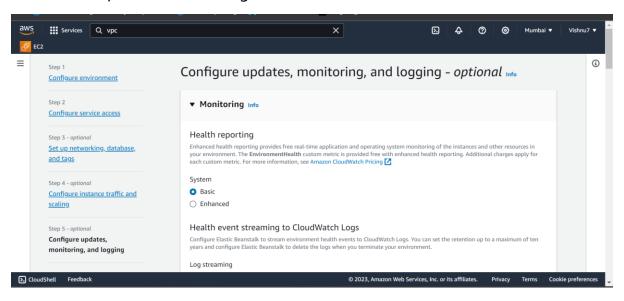
Choose whichever you prefer, we don't have any big requirements so we'll go with 'Single Instance'

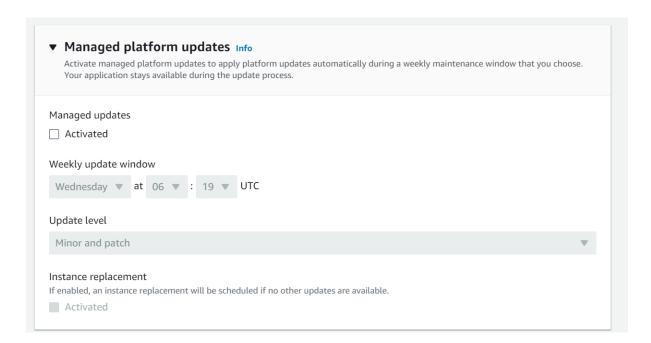


Select t2 micro for free tier

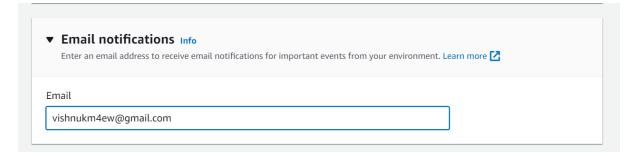


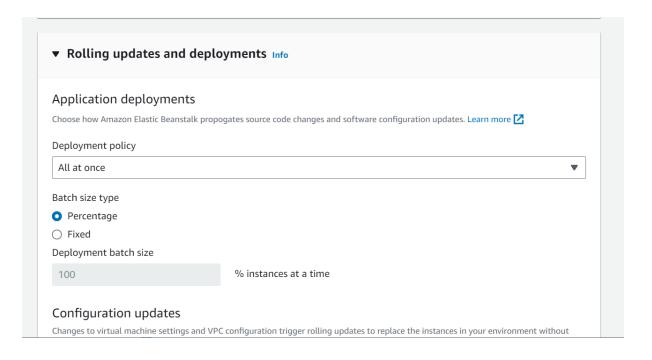
We need only Basic monitoring here

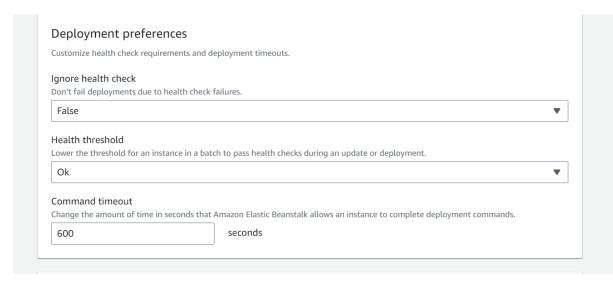


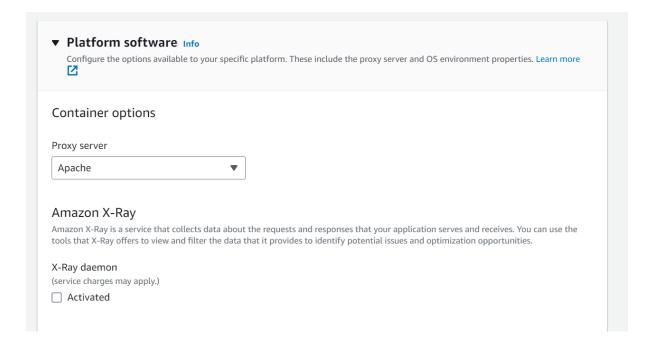


Provide your email as per your wish

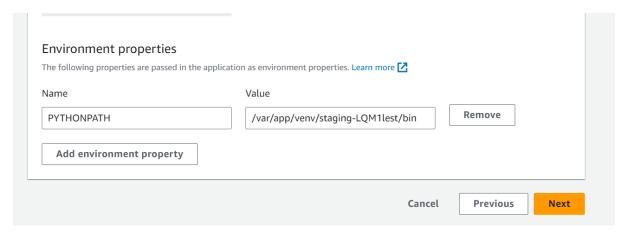








Our environment path is shown



Review

Step 1: Configure environment

Edit

Environment information

Environment tier Application name

Web server environment Test

Environment name Application code Test-env Sample application

Platform

arn:aws:elasticbeanstalk:ap-south-1::platform/Python 3.11 running on 64bit Amazon Linux 2023/4.0.4

Step 2: Configure service access

Edit

Service access Info

Configure the service role and EC2 instance profile that Elastic Beanstalk uses to manage your environment. Choose an EC2 key pair to securely log in to your EC2 instances.

Service role EC2 key pair

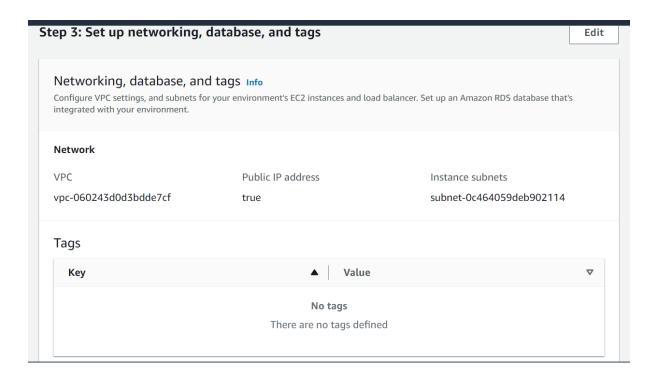
Keypair

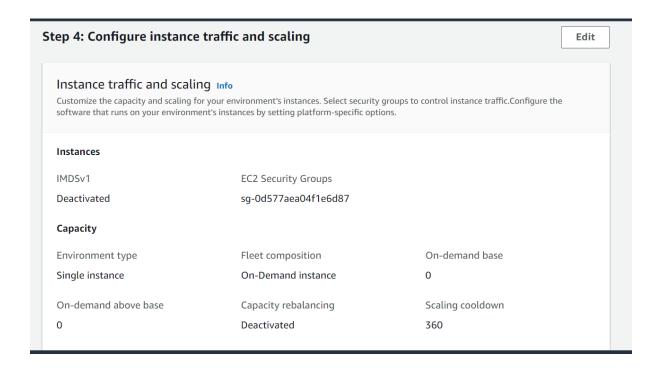
arn:aws:iam::501061908457:role/ser vice-role/aws-elasticbeanstalk-

service-role

EC2 instance profile

BeanStalk-ITFS





Processor type Instance types AMI ID

x86_64 t2.micro ami-098f17388747c31c0

Availability Zones Metric Statistic
Any NetworkOut Average

Unit Period Breach duration

Bytes 5

Upper threshold Scale up increment Lower threshold

6000000 1 2000000

Scale down increment

-1

Load balancer

Load balancer visibility Load balancer subnets Load balancer type

public subnet-0c464059deb902114 application

Step 5: Configure updates, monitoring, and logging

Edit

Updates, monitoring, and logging Info

Define when and how Elastic Beanstalk deploys changes to your environment. Manage your application's monitoring and logging settings, instances, and other environment resources.

Monitoring

System Cloudwatch custom metrics - Cloudwatch custom metrics -

basic instance environment

_ _

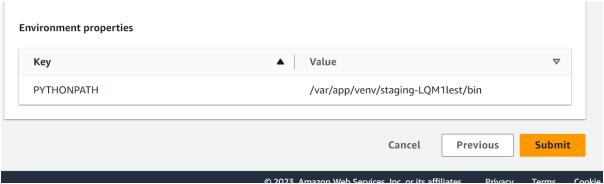
Log streamingRetentionLifecycleDeactivated7false

Updates

Managed updates Deployment batch size Deployment batch size type

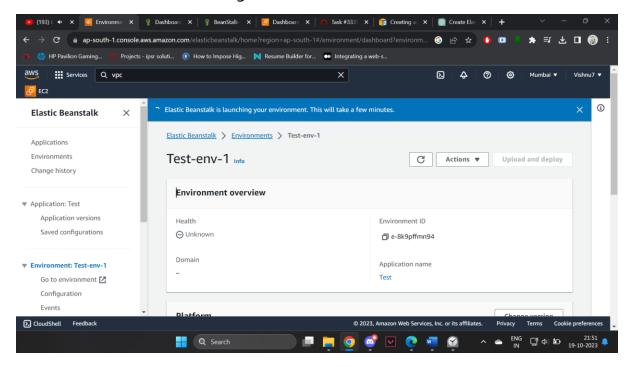
Deactivated 100 Percentage



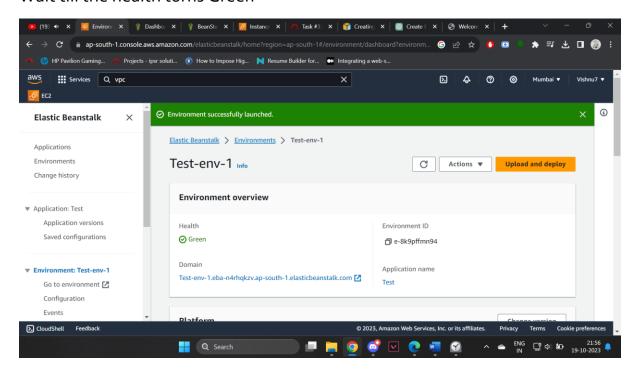


Click on submit to finish

Our Test environment is being created

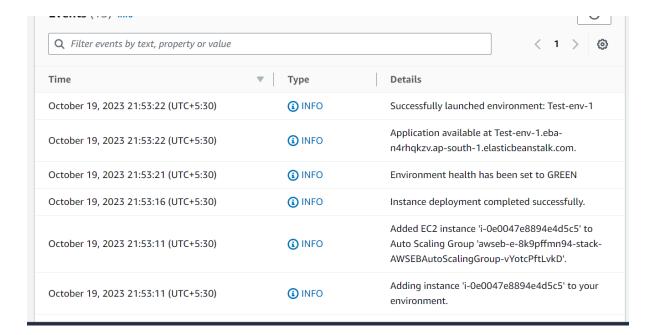


Wait till the health turns Green



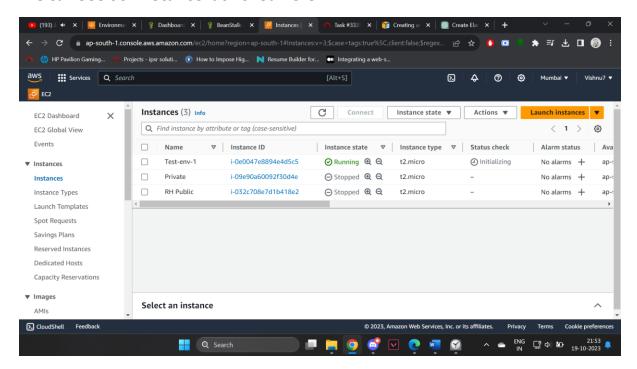
We can see the processes building here

October 19, 2023 21:53:11 (UTC+5:30)	(i) INFO	Instance deployment successfully generated a 'Procfile'.
October 19, 2023 21:52:22 (UTC+5:30)	INFO	Waiting for EC2 instances to launch. This may take a few minutes.
October 19, 2023 21:51:46 (UTC+5:30)	(i) INFO	Created EIP: 13.126.122.242
October 19, 2023 21:51:31 (UTC+5:30)	INFO	Created security group named: sg- 0c494286129d69c51
October 19, 2023 21:51:12 (UTC+5:30)	(3) INFO	Created SNS Notification Topic. ARN: arn:aws:sns:ap-south- 1:501061908457:ElasticBeanstalkNotifications- Environment-Test-env-1
October 19, 2023 21:51:09 (UTC+5:30)	(i) INFO	Using elasticbeanstalk-ap-south-1-501061908457 as Amazon S3 storage bucket for environment data.
October 19, 2023 21:51:08 (UTC+5:30)	(i) INFO	createEnvironment is starting.

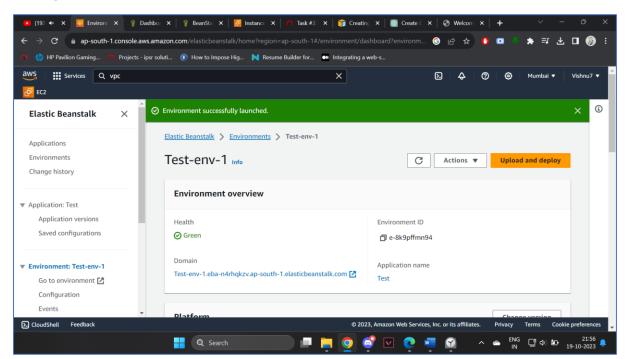


Once our instance is launched, go to EC2 and check its status

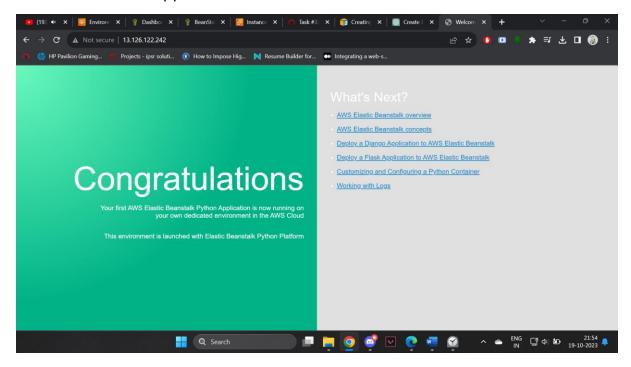
We can see our instance launched here



Now go back to the 'Test' environment and click on its domain



It'll take us to our Application



You can change the configuration of the same, from edit options in the environment page and also modify the environment based on your preference.