Practical-5 Platform as a service using AWS

Name: Ashwini Shetty

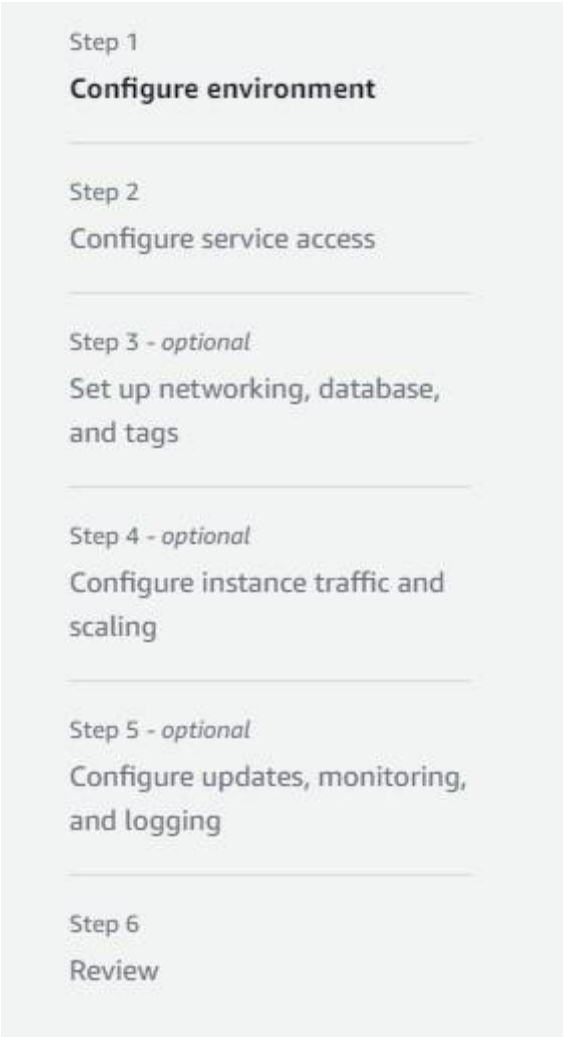
Roll no: A063

MSc SDS Batch 2

1. We’ll be using Elastic Beanstalk - Python

2. There will be the steps

3. Fill in the details



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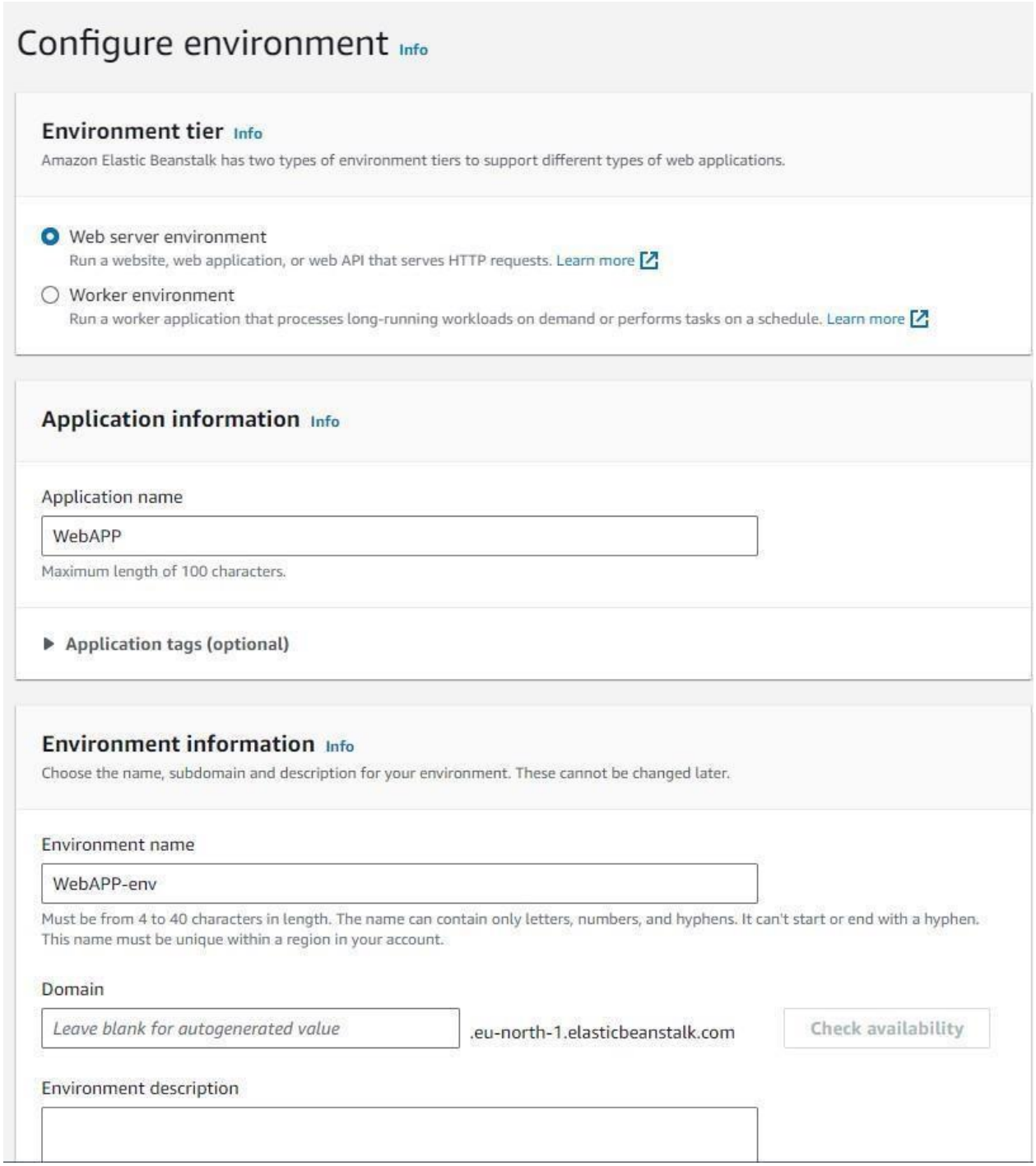
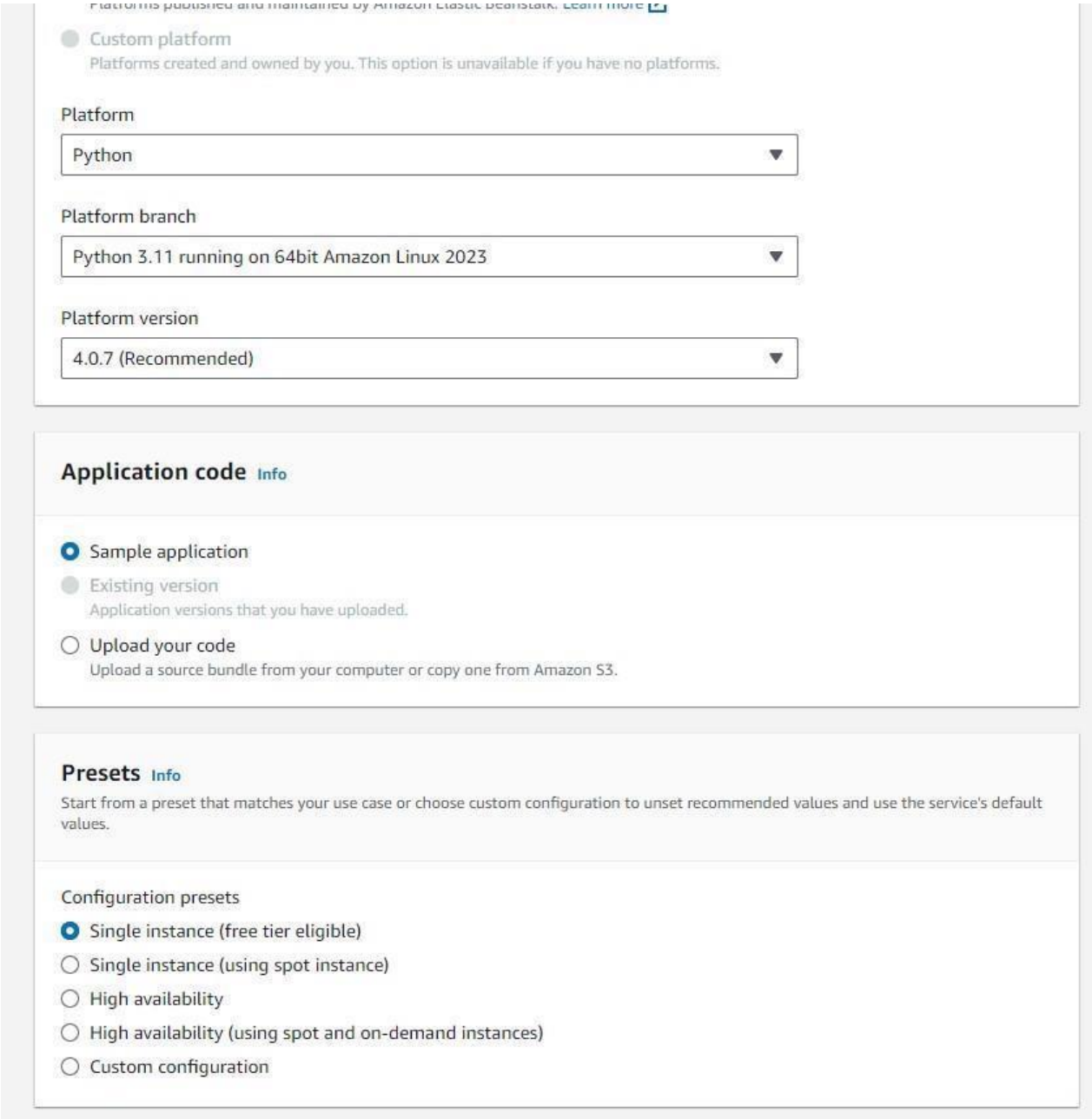
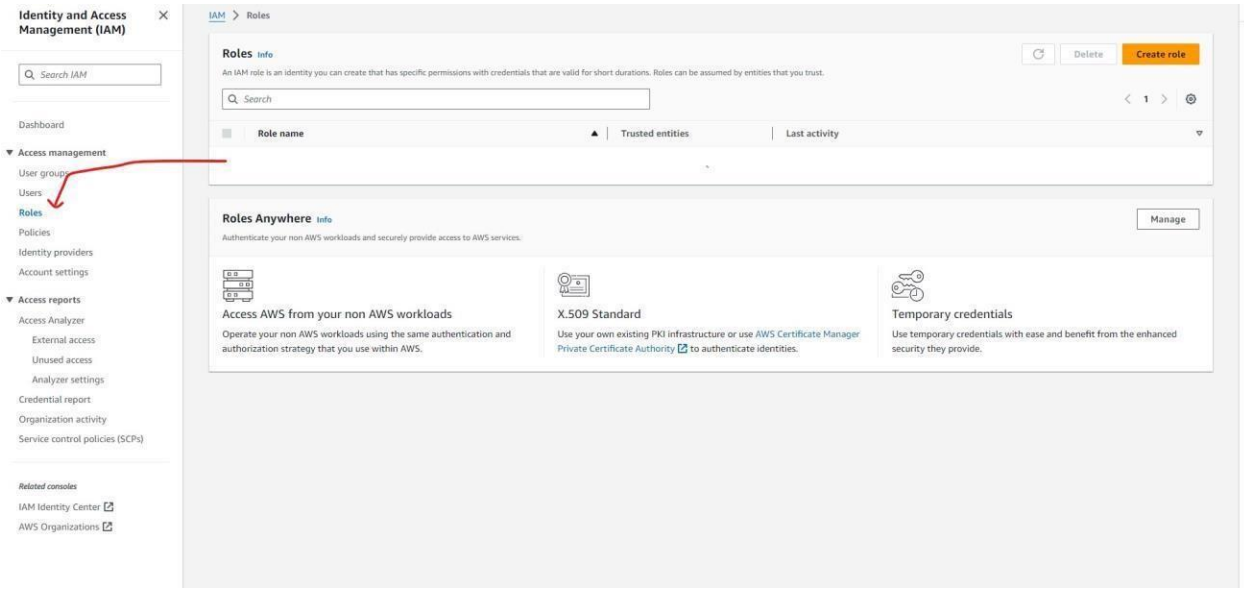


4. Select the platform



5. Go to the IAM services -> Create role



Trusted entity type

- (●) **AWS service**
  Allow AWS services like EC2, Lambda, or others to perform actions in this account.
- ( ) **AWS account**
  Allow entities in other AWS accounts belonging to you or a 3rd party to perform actions in this account.
- ( ) **Web identity**
  Allows users federated by the specified external web identity provider to assume this role to perform actions in this account.
- ( ) **SAML 2.0 federation**
  Allow users federated with SAML 2.0 from a corporate directory to perform actions in this account.
- ( ) **Custom trust policy**
  Create a custom trust policy to enable others to perform actions in this account.

Use case

Allow an AWS service like EC2, Lambda, or others to perform actions in this account.

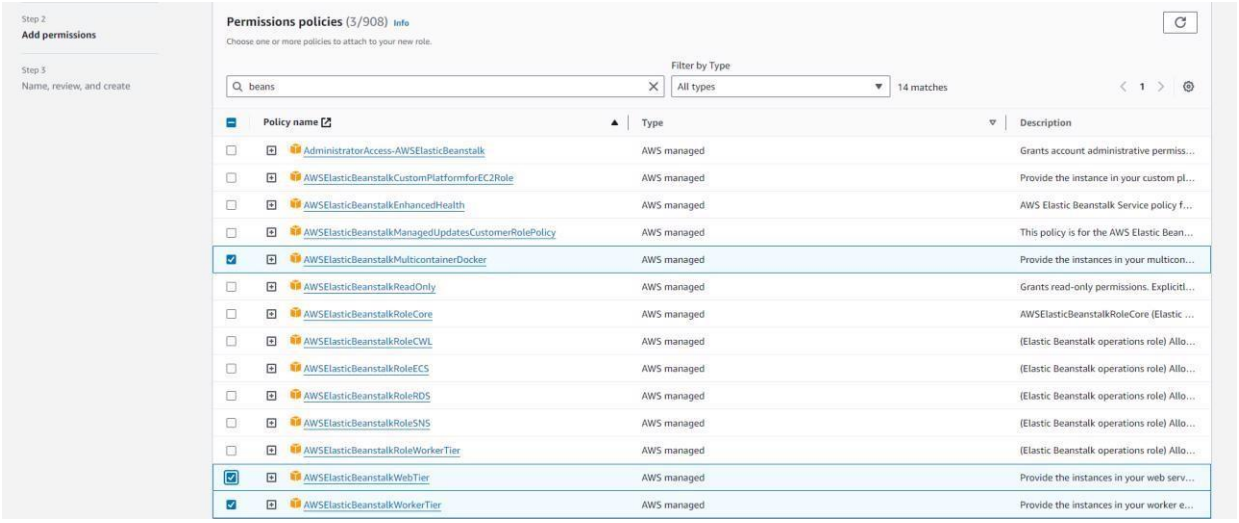
Service or use case

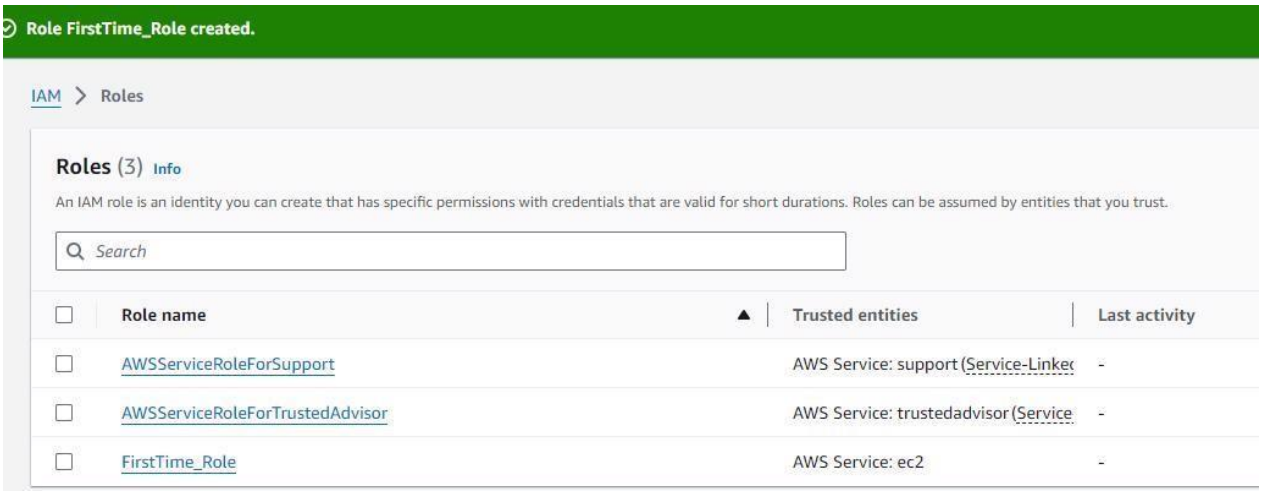
EC2

Choose a use case for the specified service.

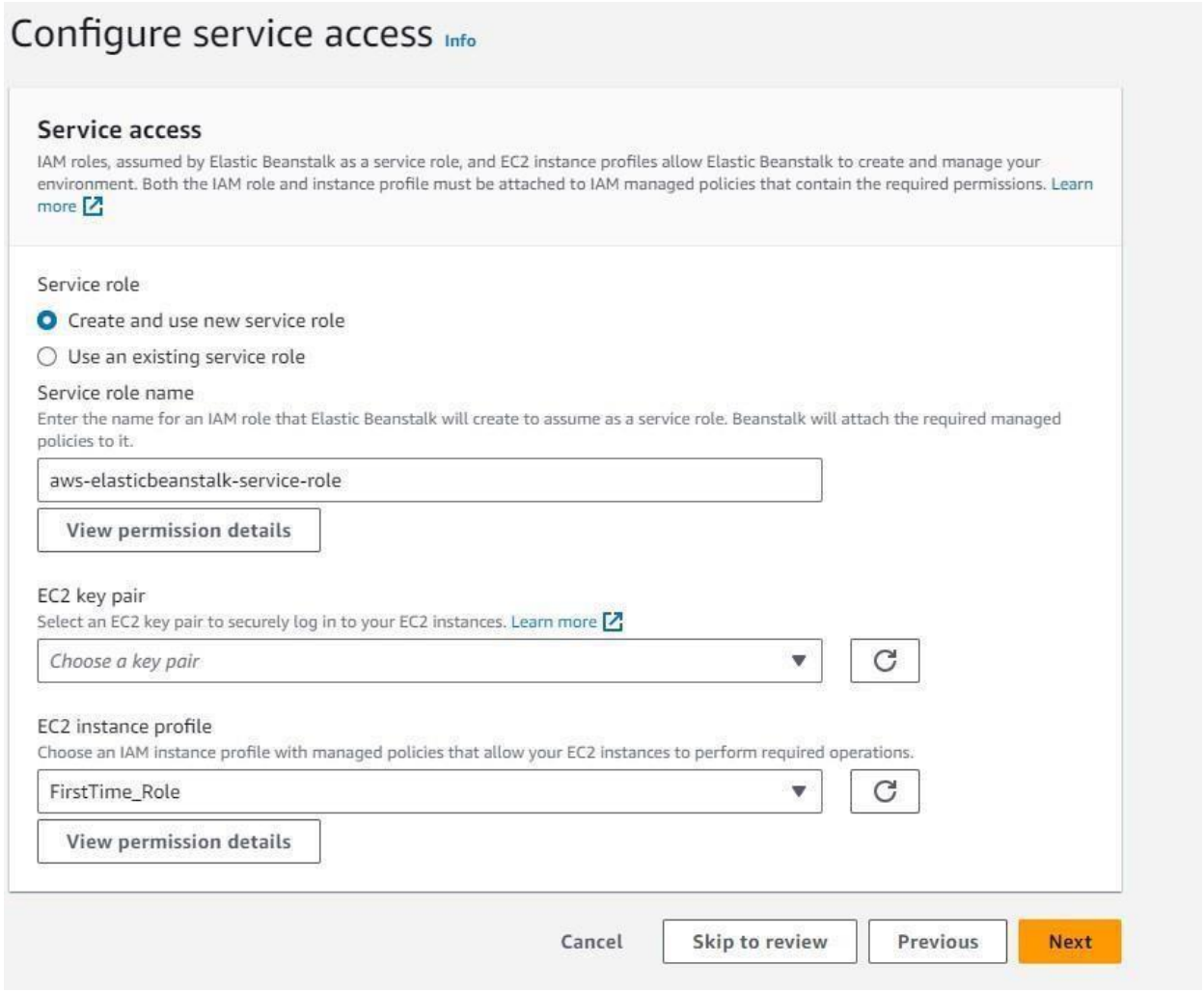
Use case

- (●) **EC2**
  Allows EC2 instances to call AWS services on your behalf.
- ( ) **EC2 Role for AWS Systems Manager**
  Allows EC2 instances to call AWS services like CloudWatch and Systems Manager on your behalf.
- ( ) **EC2 Spot Fleet Role**
  Allows EC2 Spot Fleet to request and terminate Spot Instances on your behalf.
- ( ) **EC2 - Spot Fleet Auto Scaling**
  Allows Auto Scaling to access and update EC2 spot fleets on your behalf.

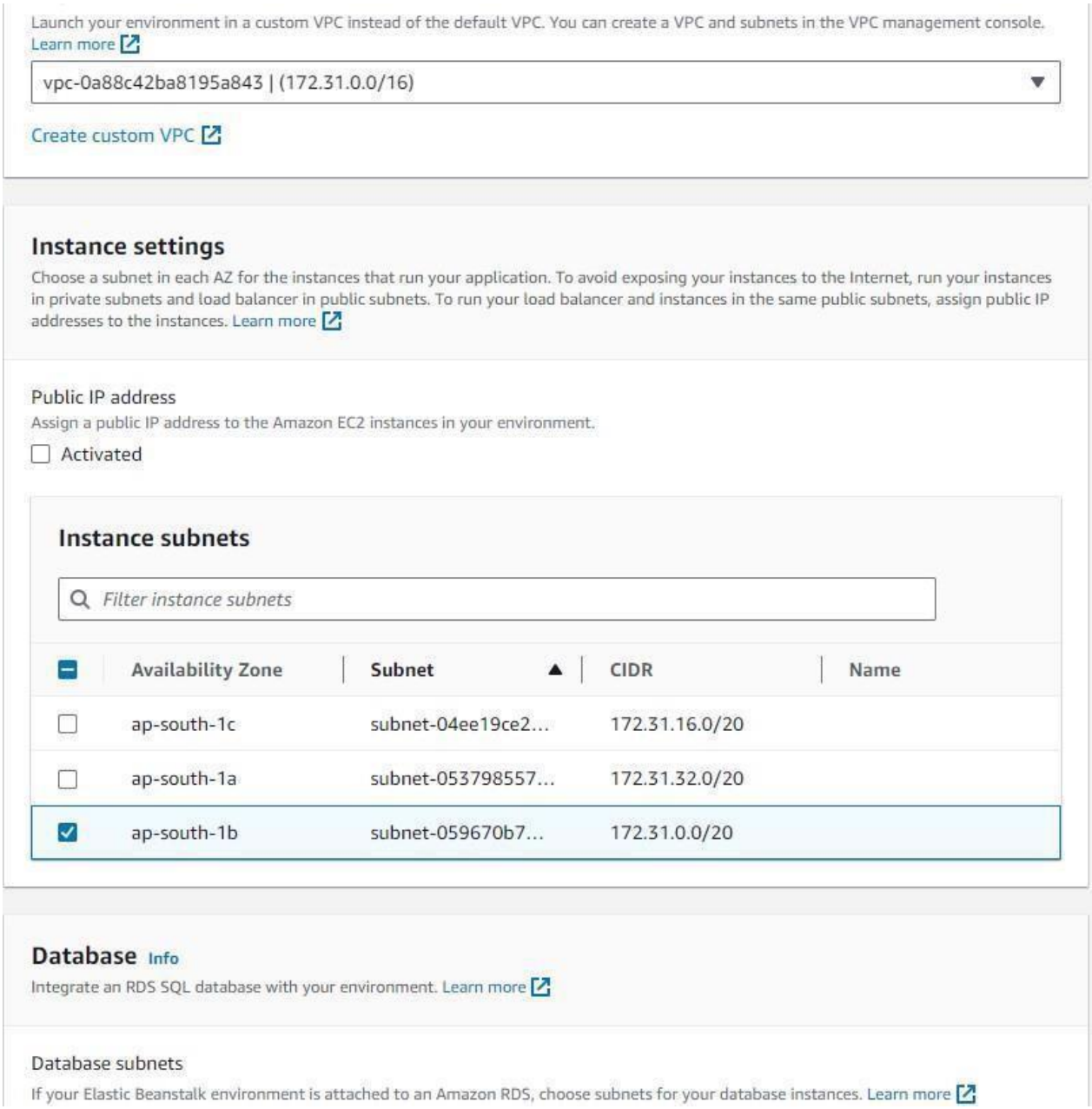




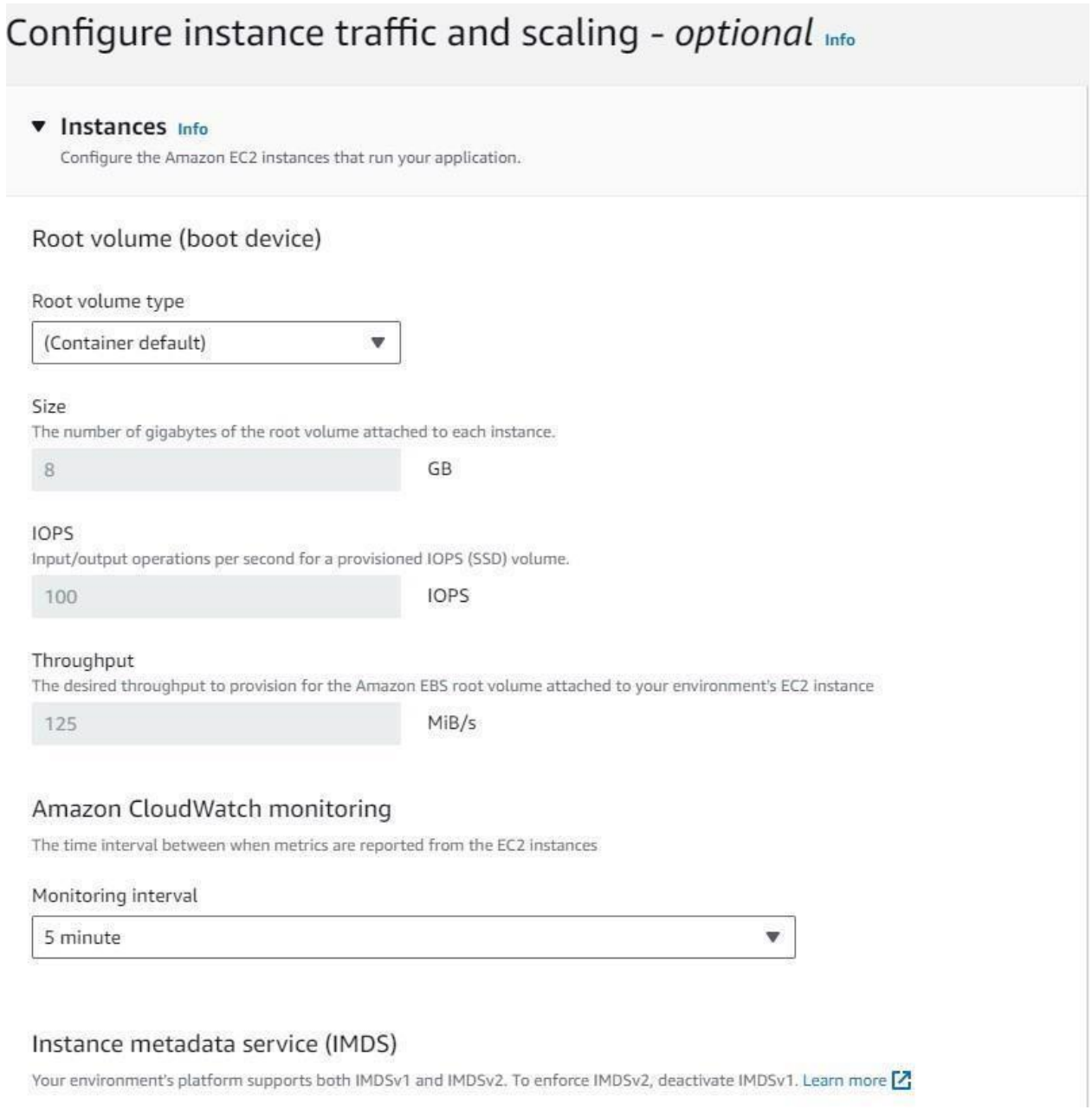
6. Create new service role, and select the EC instance profile



7. Set up network and database



8. Keep the settings default



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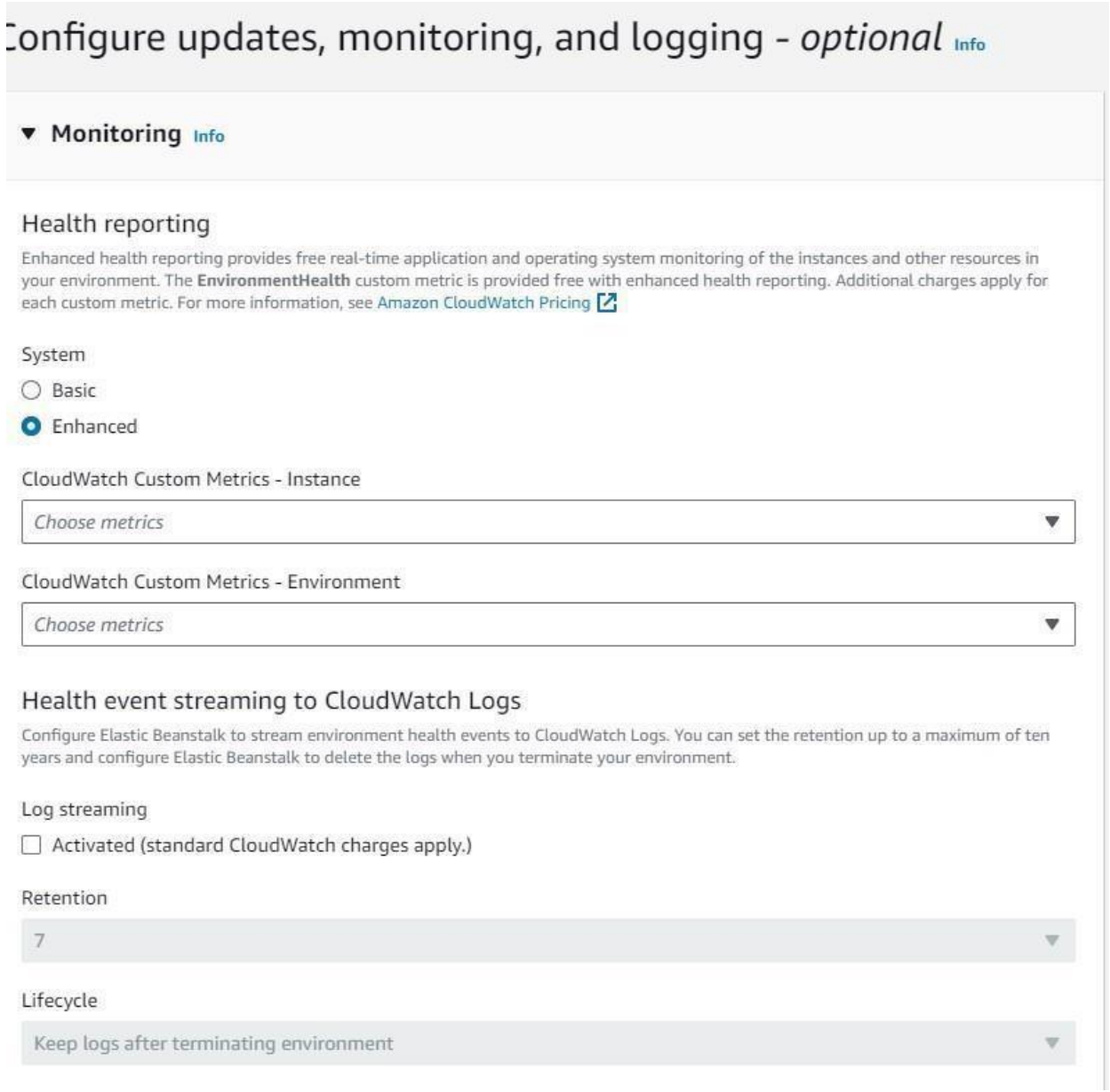
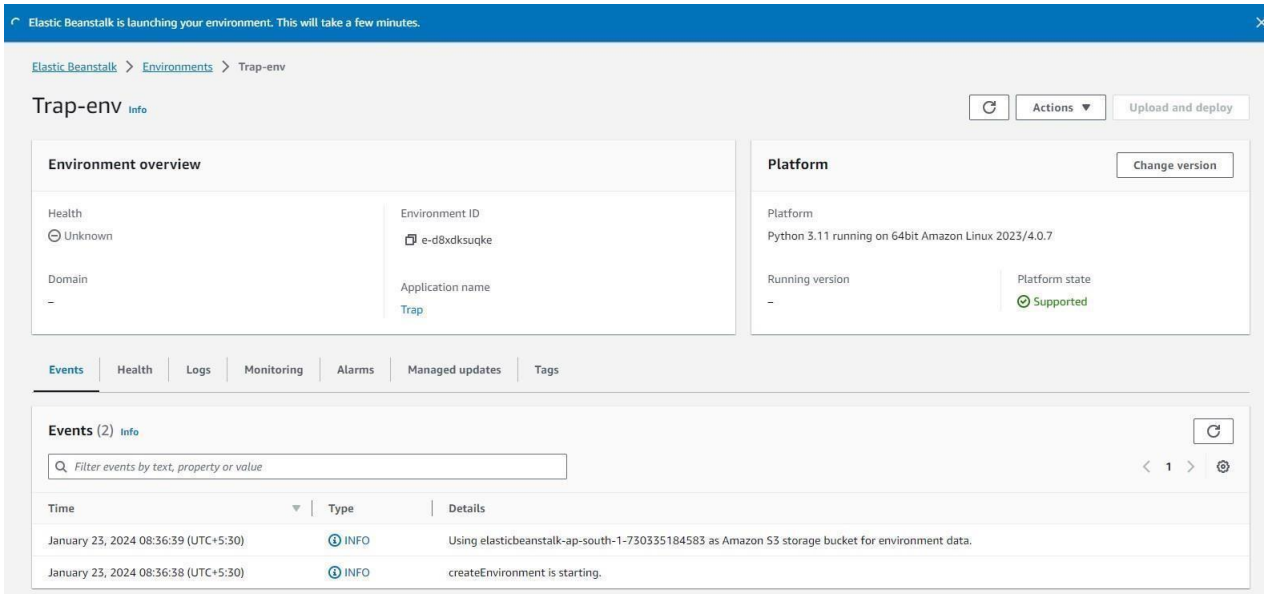
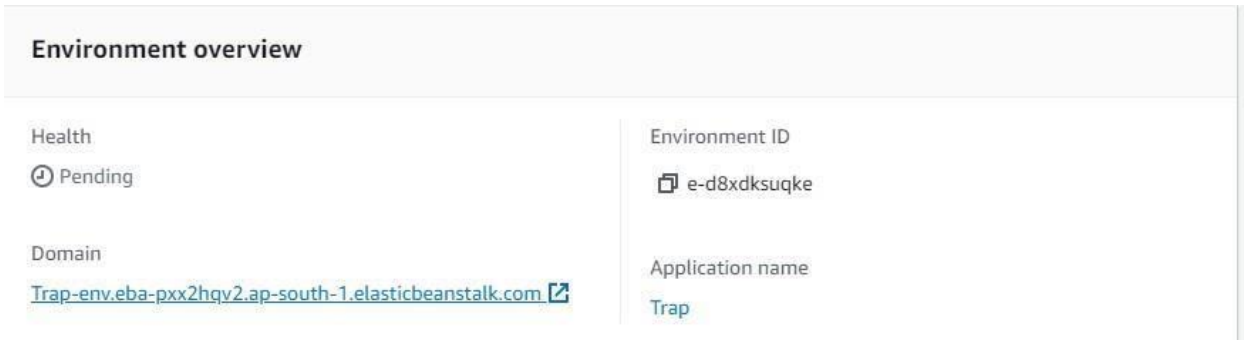


10. Review and submit!
11. The environment will start launching





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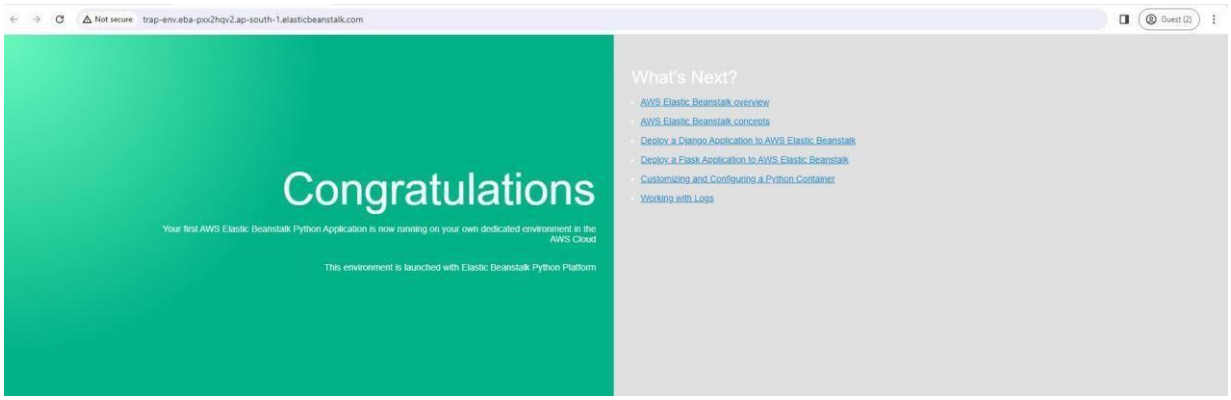

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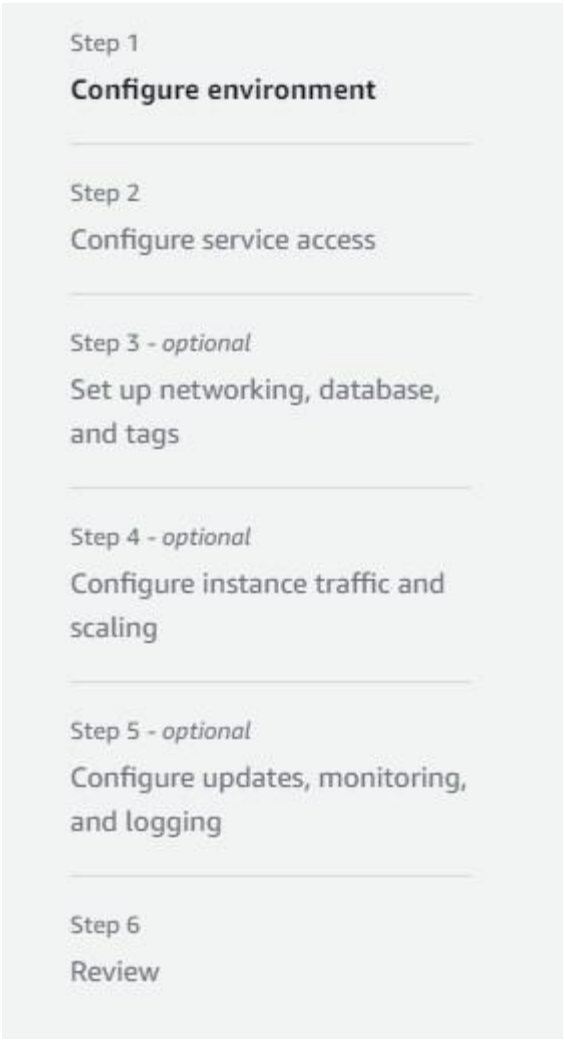
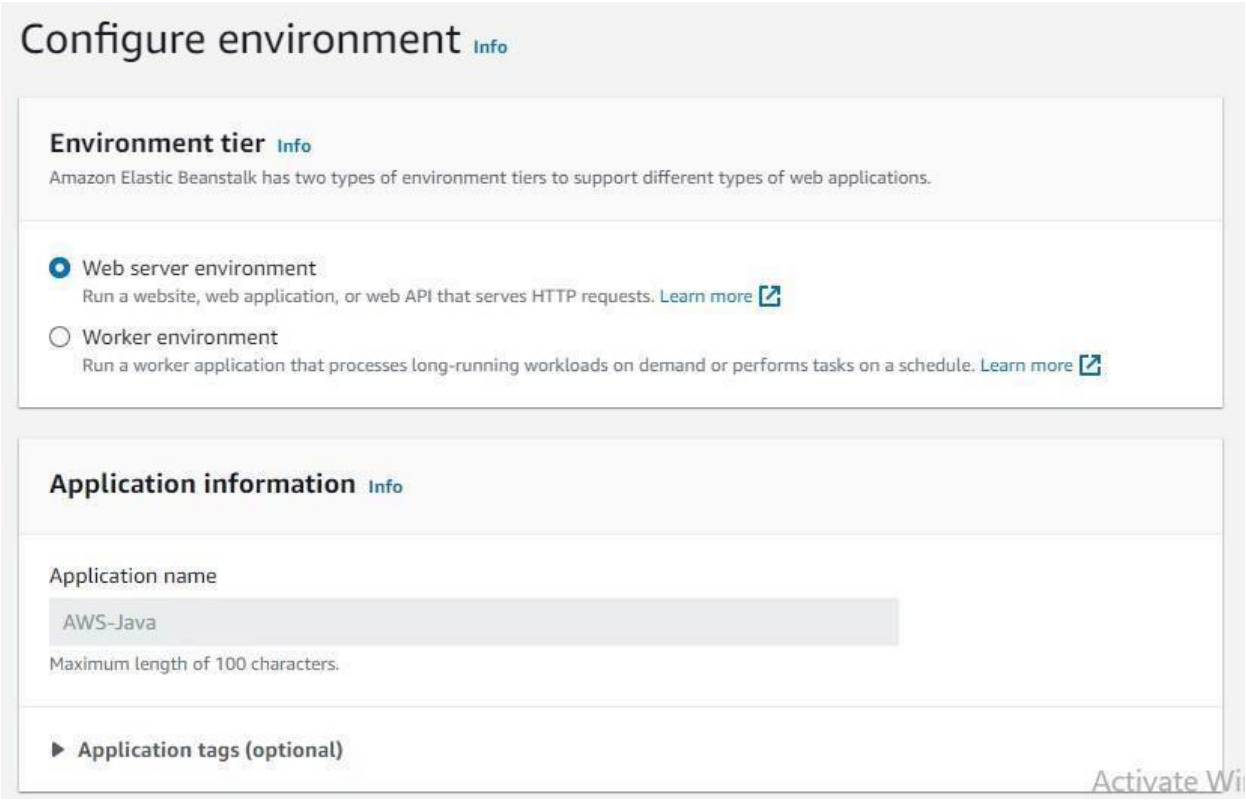
2. There will be the steps





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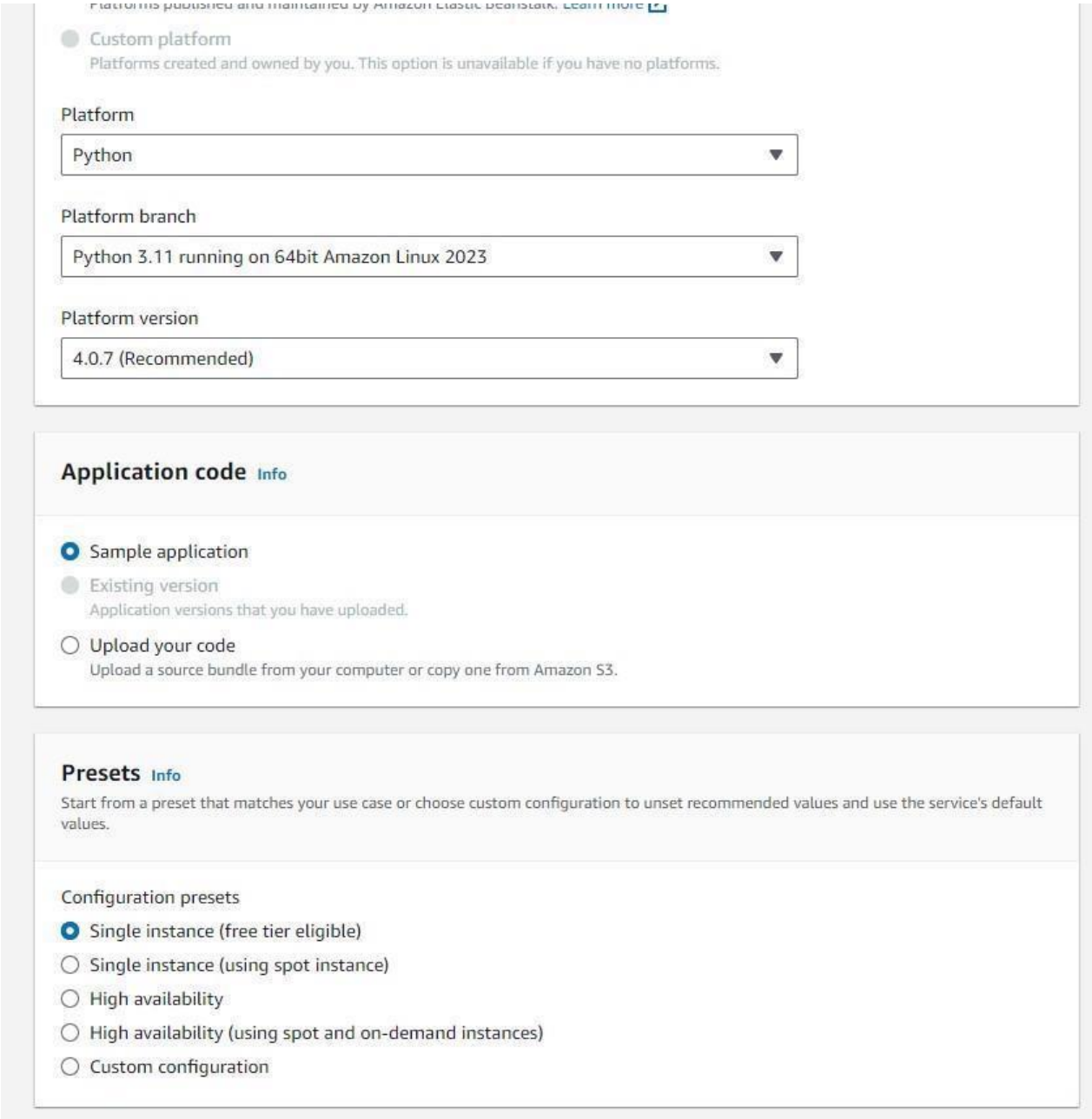

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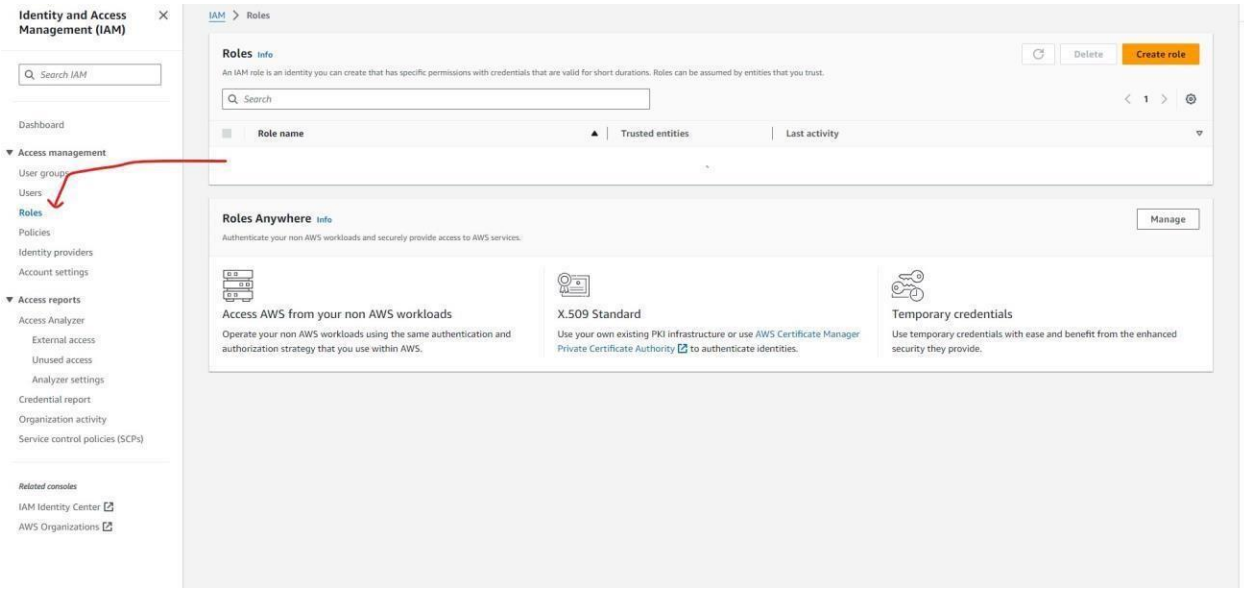

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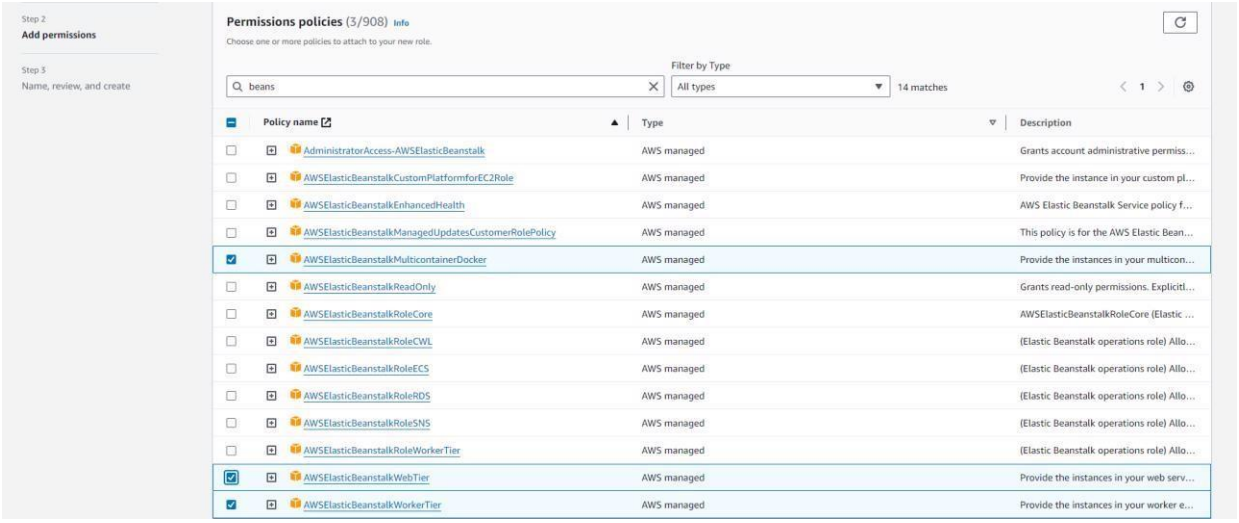

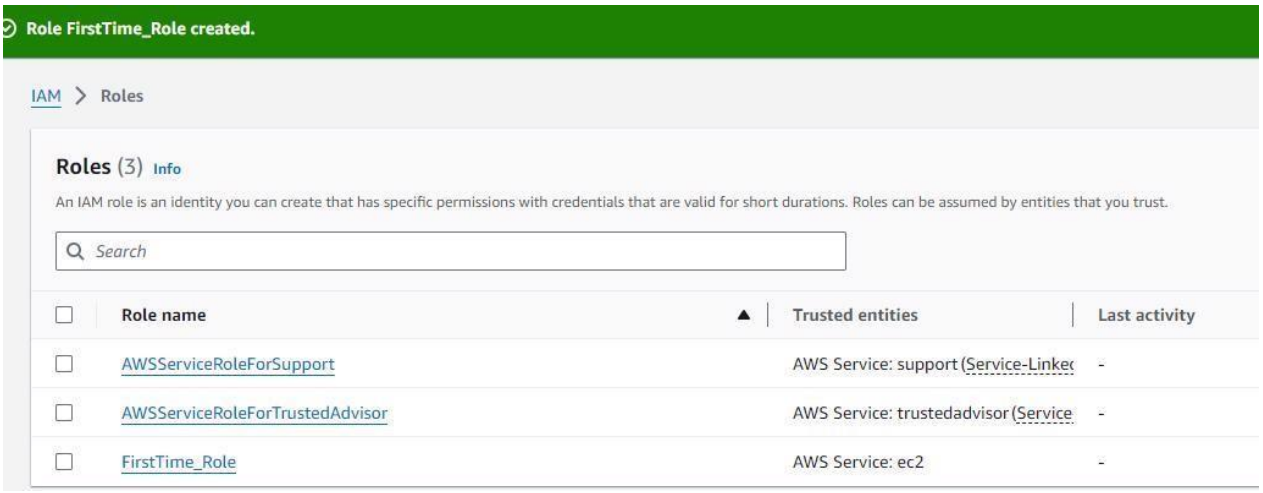

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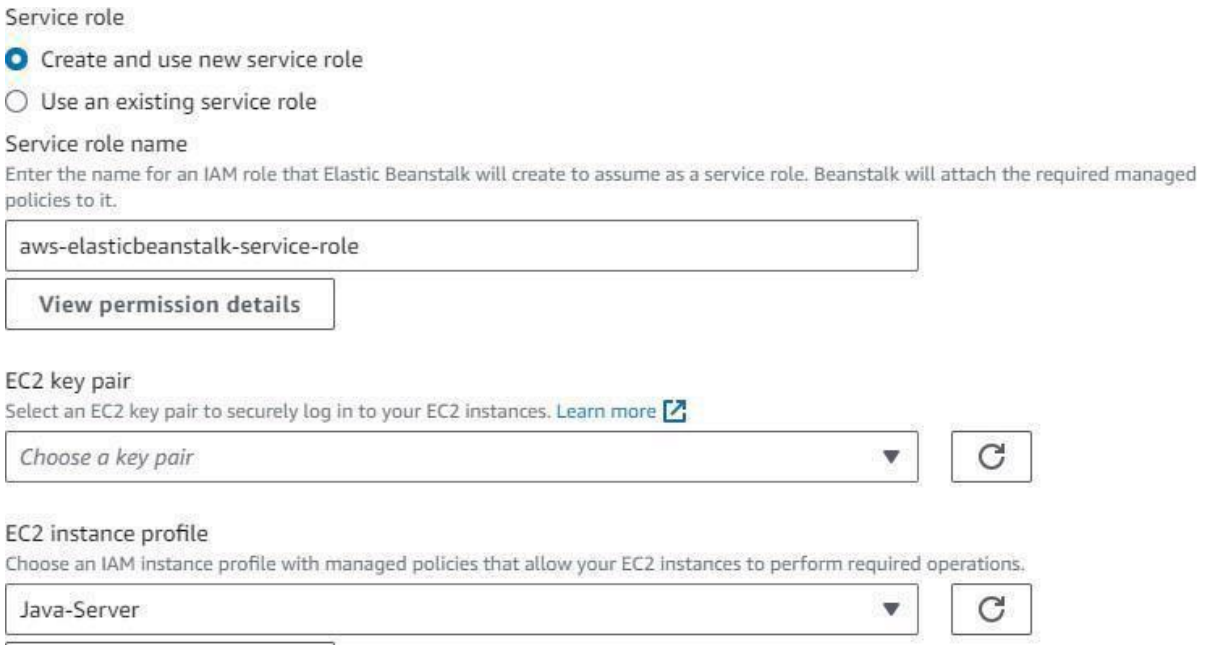


15. Set up network and database

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-0a88c42ba8195a843 | (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.

☐ Activated

Instance subnets

Filter instance subnets

	Availability Zone	Subnet ▲	CIDR	Name
☐	ap-south-1c	subnet-04ee19ce2...	172.31.16.0/20	
☐	ap-south-1a	subnet-053798557...	172.31.32.0/20	
☑	ap-south-1b	subnet-059670b7...	172.31.0.0/20	

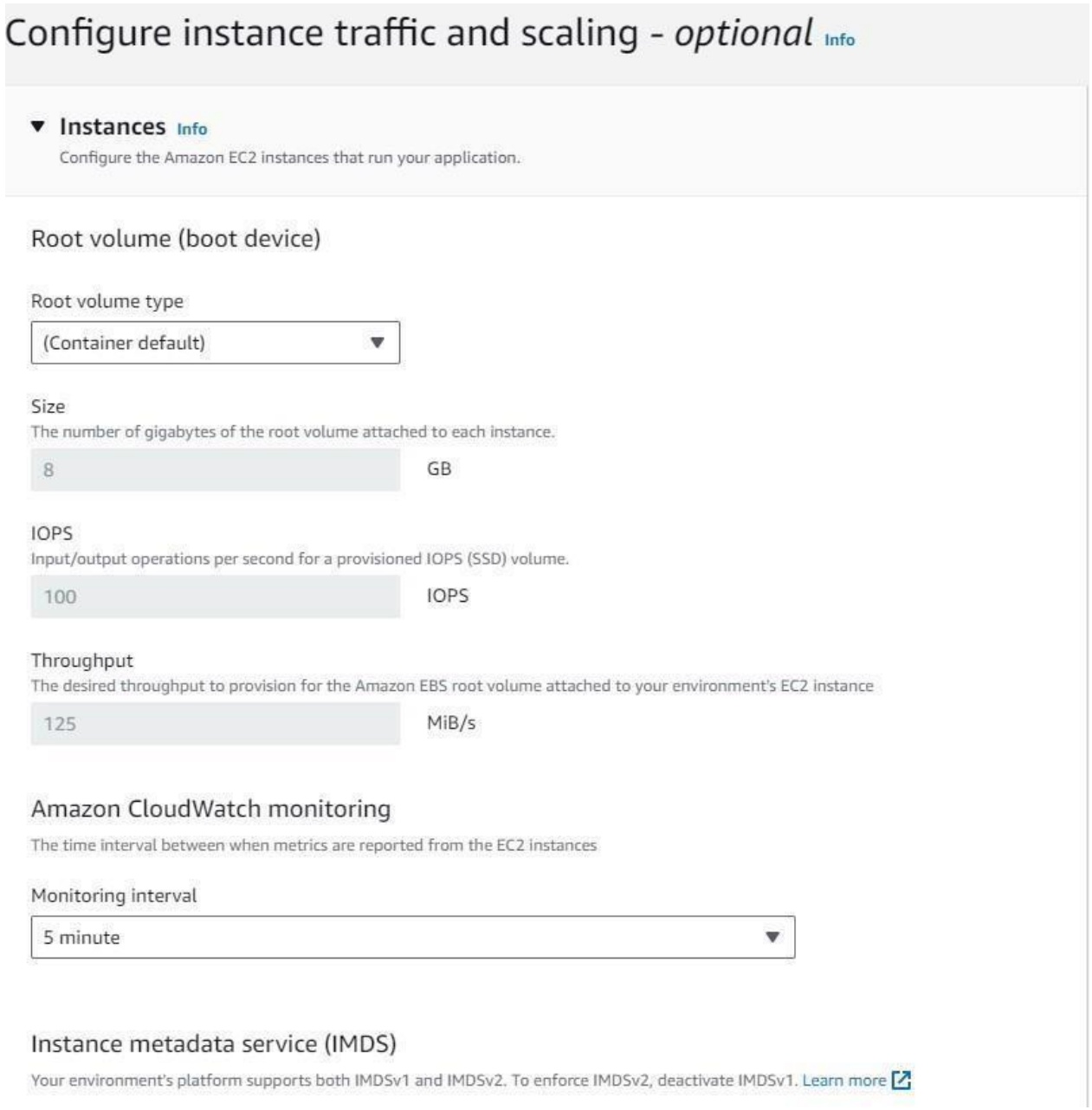
Database Info

Integrate an RDS SQL database with your environment. Learn more

Database subnets

If your Elastic Beanstalk environment is attached to an Amazon RDS, choose subnets for your database instances. Learn more

16. Keep the settings default



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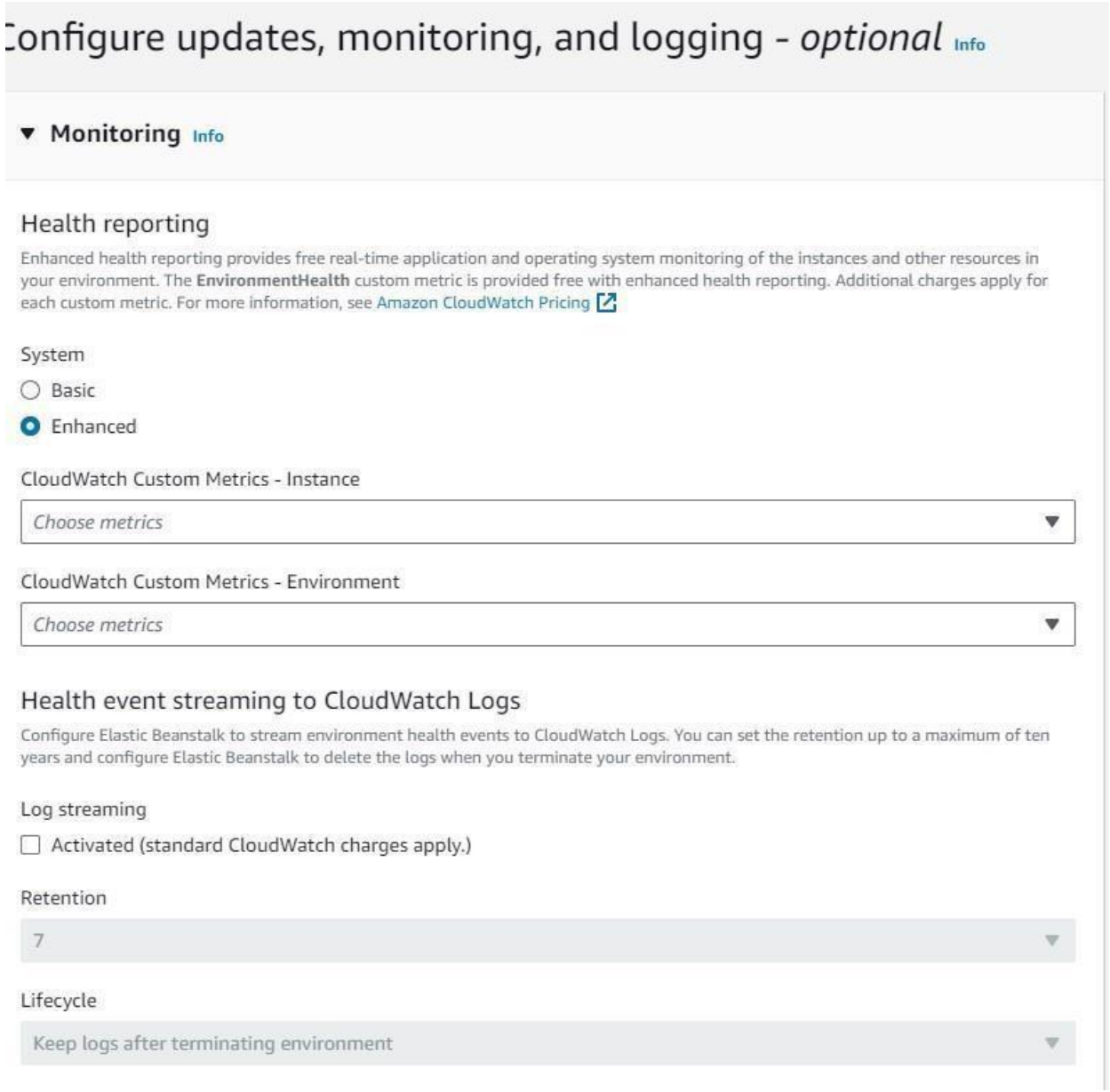

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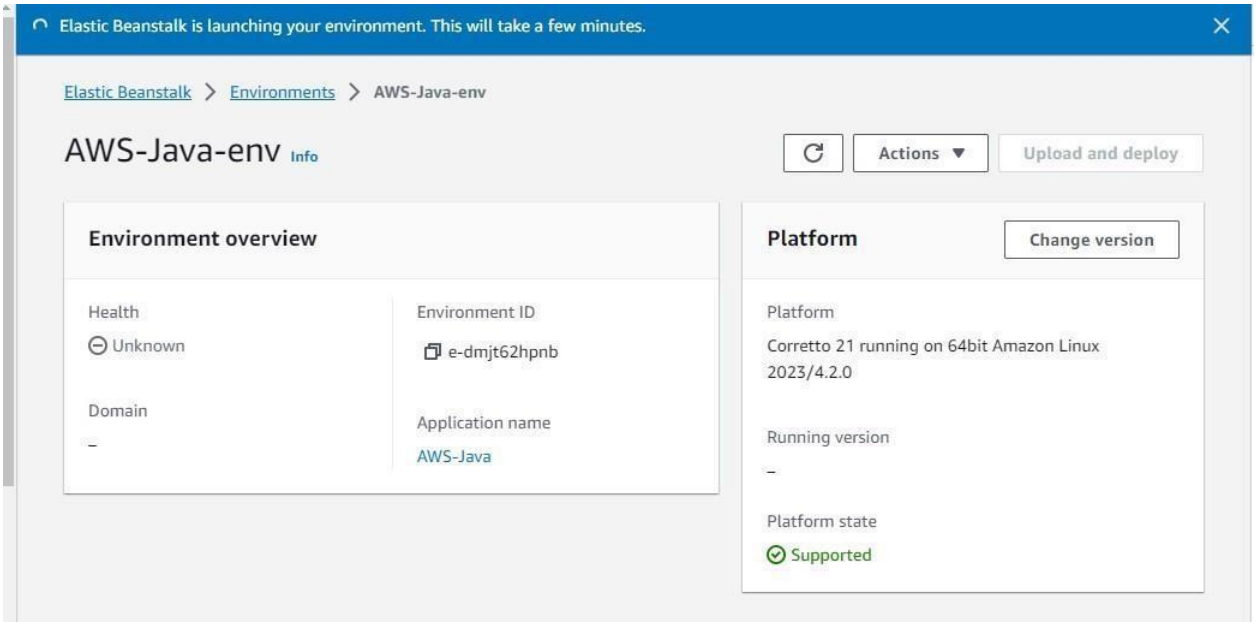

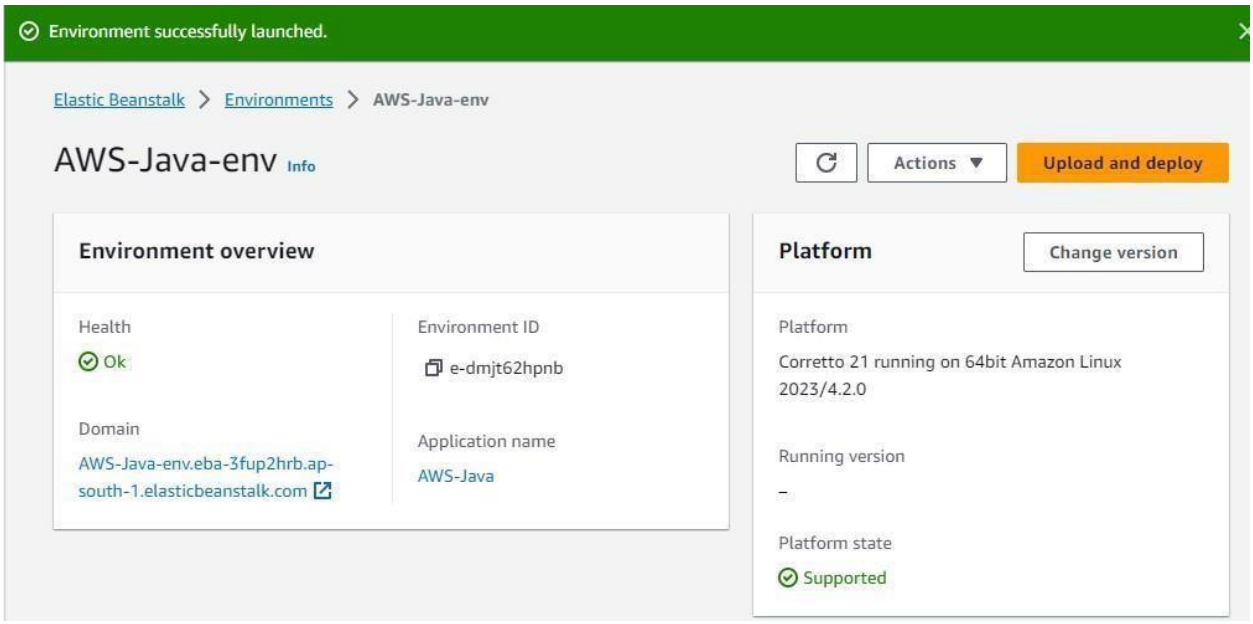

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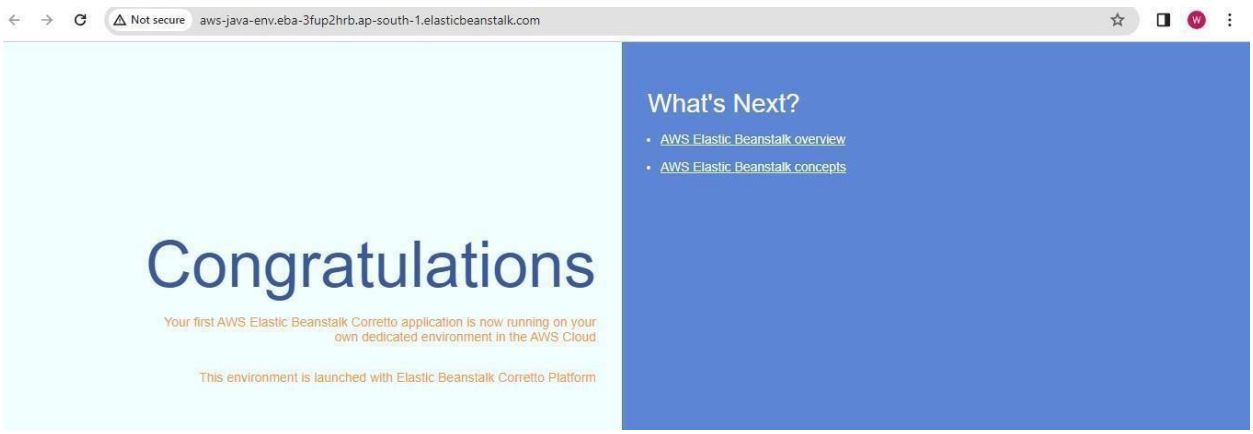
Not secure
aws-java-env.eba-3fup2hrb.ap-south-1.elasticbeanstalk.com
Congratulations
Your first AWS Elastic Beanstalk Corretto application is now running on your own dedicated environment in the AWS Cloud
This environment is launched with Elastic Beanstalk Corretto Platform
What's Next?
AWS Elastic Beanstalk overview
AWS Elastic Beanstalk concepts