Practical-5 Platform as a service using AWS

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Roll no: A043

MSc SDS Batch 2

1. We'll be using Elastic Beanstalk - Python



2. There will be the steps

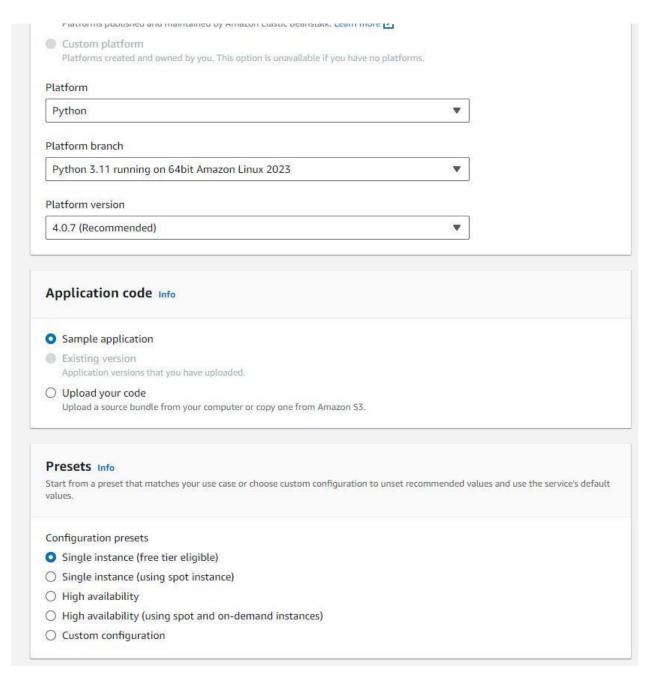
3. Fill in the details

Configure environment Step 2 Configure service access Step 3 - optional Set up networking, database, and tags Step 4 - optional Configure instance traffic and scaling Step 5 - optional Configure updates, monitoring, and logging Step 6 Review

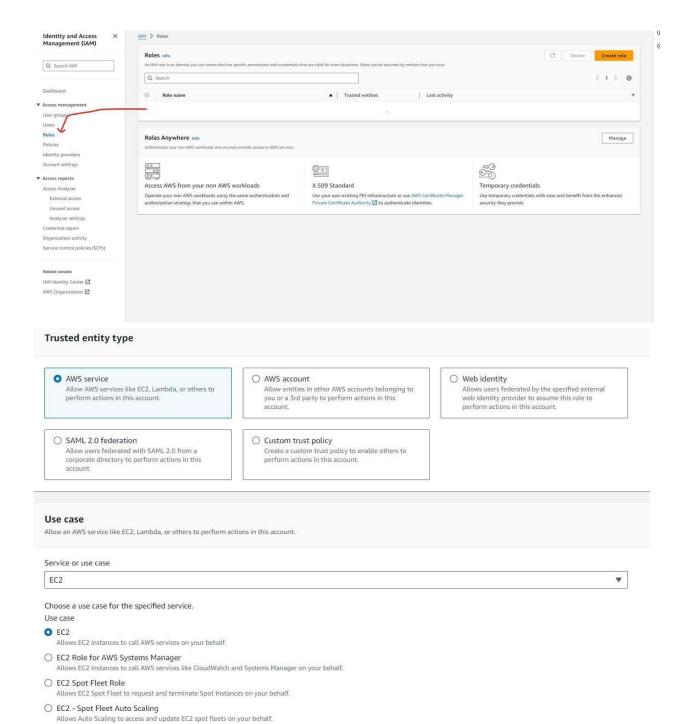
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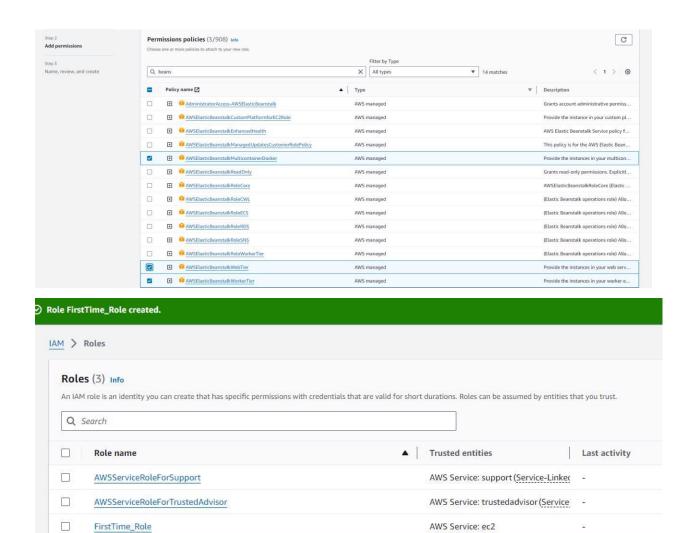
Environment tier Info	ment tiers to support different types of web application	10
Amazon clastic bearistatic has two types of environi	nent tiers to support univerent types of web application	12.
 Web server environment Run a website, web application, or web API that 	t serves HTTP requests. Learn more 🔀	
Worker environment Run a worker application that processes long-ru	unning workloads on demand or performs tasks on a sc	hedule, Learn more 🔼
Application information Info		
Application name		
WebAPP		
Maximum length of 100 characters.		
► Application tags (optional)		
Section 2000 200,000) 36		
Environment information Info	our environment. These cannot be changed later.	
Environment information Info Choose the name, subdomain and description for yo	our environment. These cannot be changed later.	
Environment information Info Choose the name, subdomain and description for yo	our environment. These cannot be changed later.	
Environment information Info Choose the name, subdomain and description for you Environment name WebAPP-env Must be from 4 to 40 characters in length. The name	ne can contain only letters, numbers, and hyphens. It ca	n't start or end with a hyphen.
Environment information Info Choose the name, subdomain and description for your service of the name Environment name WebAPP-env	ne can contain only letters, numbers, and hyphens. It ca	n't start or end with a hyphen.

4. Select the platform

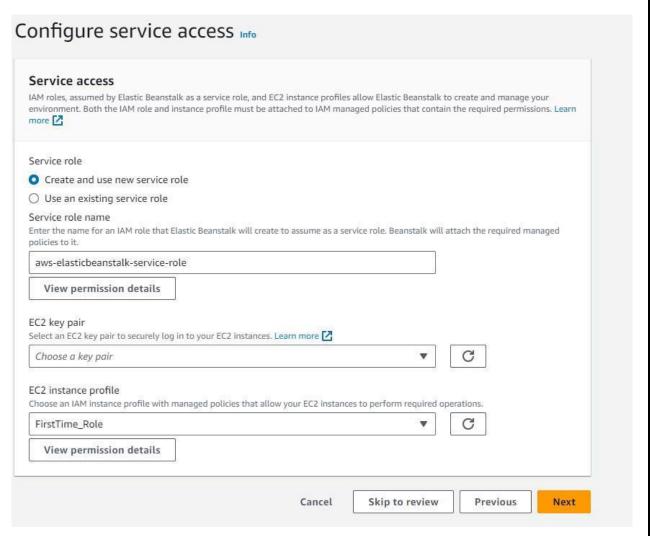


5. Go to the IAM services -> Create role

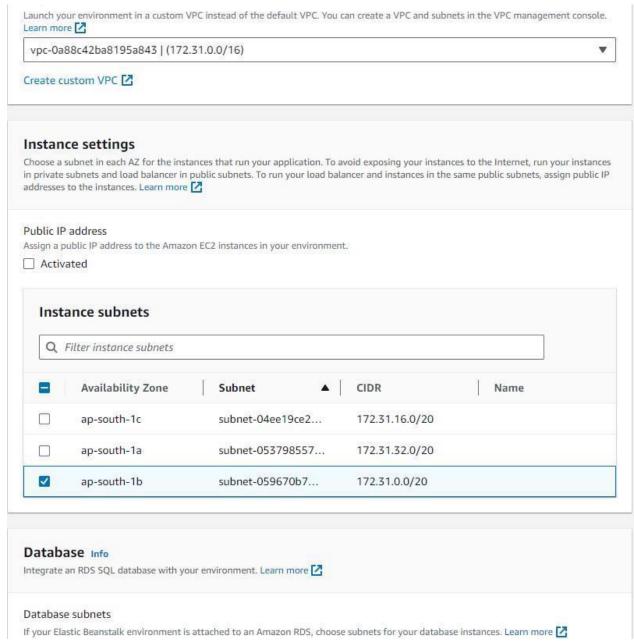


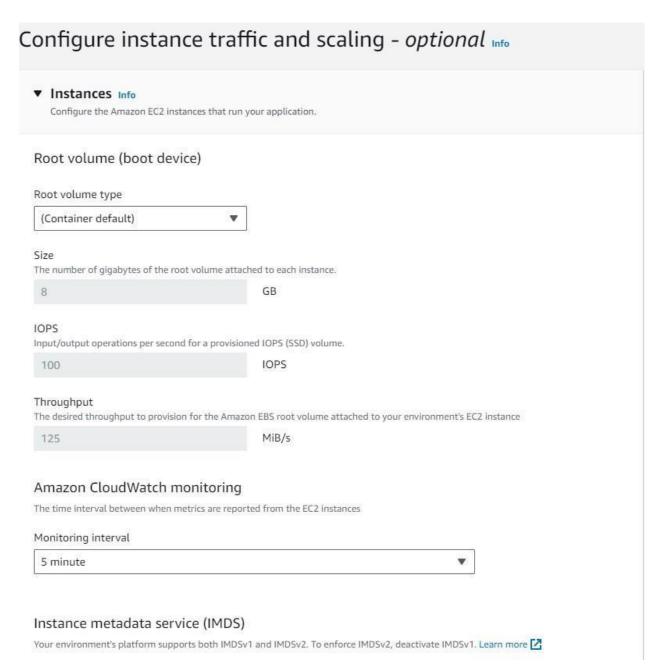


6. Create new service role, and select the EC instance profile



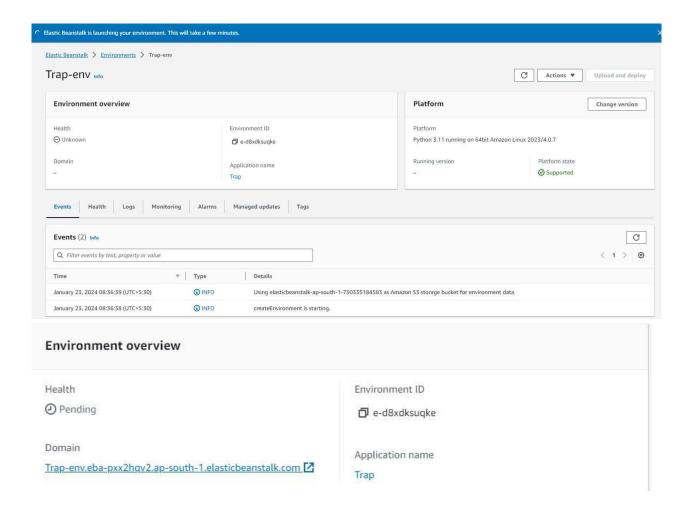
7. Set up network and database



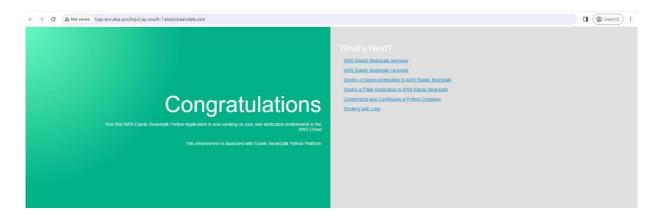


Configure updates, monitoring, and logging - optional Info ▼ Monitoring Info Health reporting Enhanced health reporting provides free real-time application and operating system monitoring of the instances and other resources in your environment. The EnvironmentHealth custom metric is provided free with enhanced health reporting. Additional charges apply for each custom metric. For more information, see Amazon CloudWatch Pricing 🔀 System O Basic Enhanced CloudWatch Custom Metrics - Instance Choose metrics CloudWatch Custom Metrics - Environment Choose metrics Health event streaming to CloudWatch Logs Configure Elastic Beanstalk to stream environment health events to CloudWatch Logs. You can set the retention up to a maximum of ten years and configure Elastic Beanstalk to delete the logs when you terminate your environment. Log streaming Activated (standard CloudWatch charges apply.) Retention 7 Lifecycle Keep logs after terminating environment

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



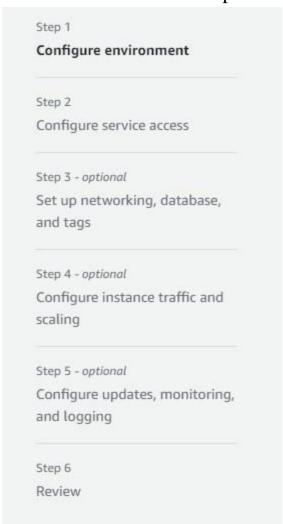
The webapp is launched!

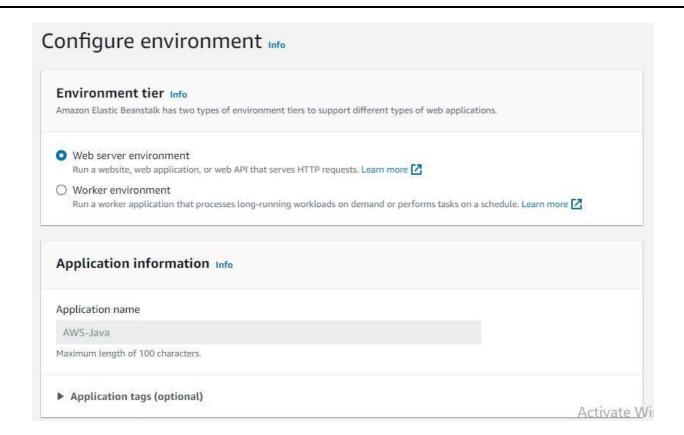


1. We'll be using Elastic Beanstalk - Java

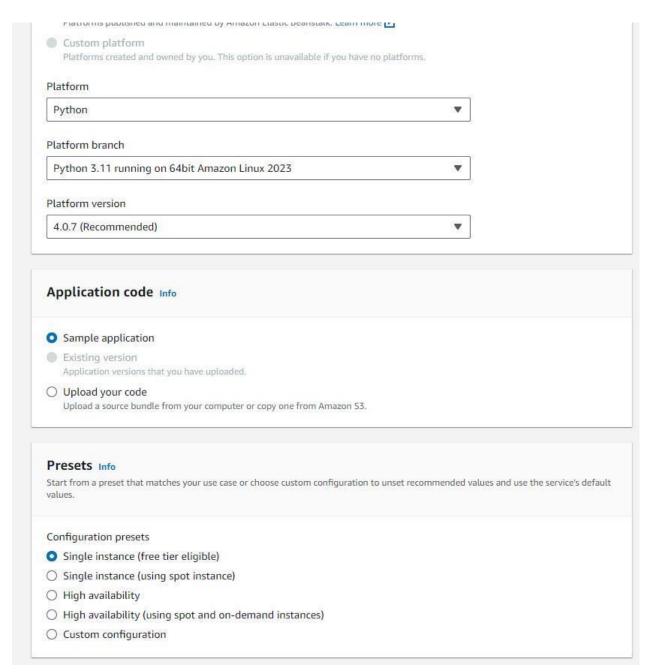


2. There will be the steps

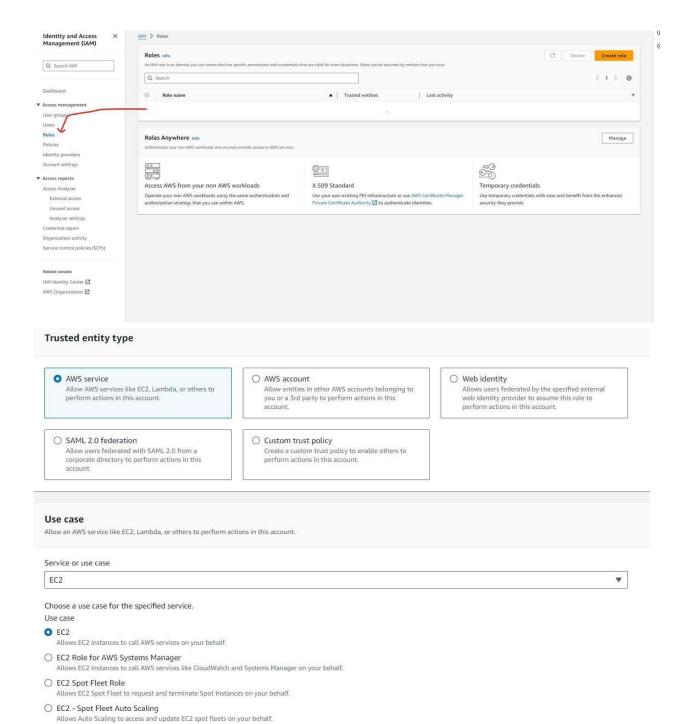


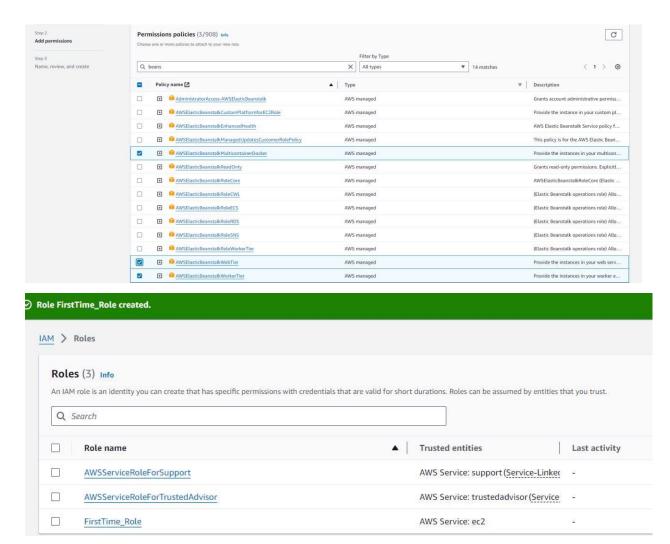


12. Select the platform



13. Go to the IAM services -> Create role

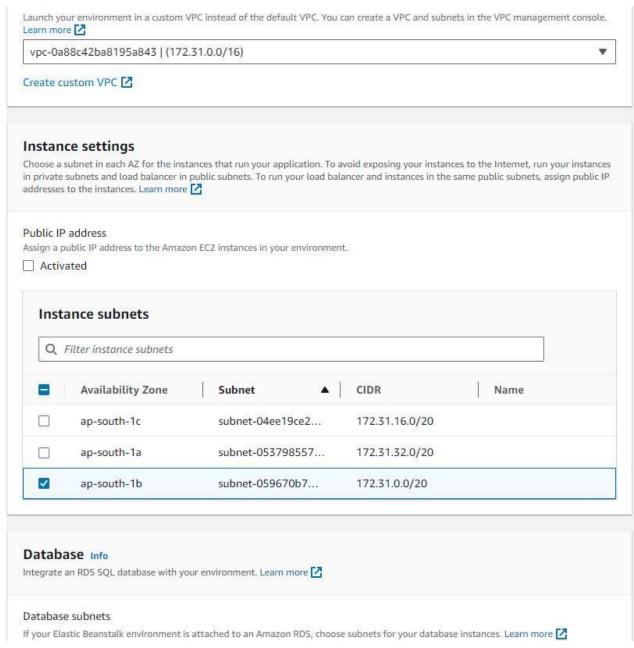




14. Create new service role, and select the EC instance profile

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 policies to it.	as a service role. Beanstalk will attach the required manage
aws-elasticbeanstalk-service-role	
View permission details	*
EC2 key pair Select an EC2 key pair to securely log in to your EC2 instances. Learn more	771
Choose a key pair	▼ C
EC2 instance profile Choose an IAM instance profile with managed policies that allow your EC2 in	nstances to perform required operations.
Java-Server	▼ C

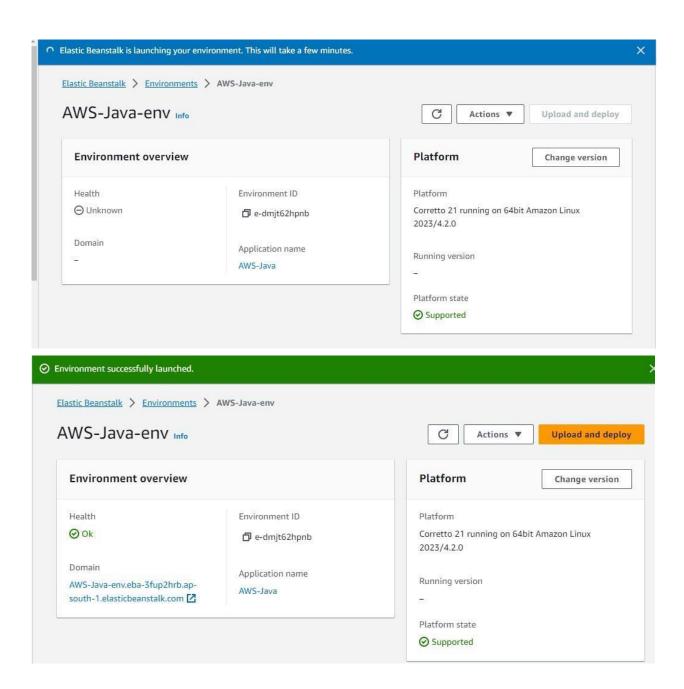
15. Set up network and database



Configure instance traffic and scaling - optional Info ▼ Instances Info Configure the Amazon EC2 instances that run your application. Root volume (boot device) Root volume type (Container default) . The number of gigabytes of the root volume attached to each instance. 8 GB IOPS Input/output operations per second for a provisioned IOPS (SSD) volume. IOPS Throughput The desired throughput to provision for the Amazon EBS root volume attached to your environment's EC2 instance MiB/s Amazon CloudWatch monitoring The time interval between when metrics are reported from the EC2 instances Monitoring interval 5 minute Instance metadata service (IMDS) Your environment's platform supports both IMDSv1 and IMDSv2. To enforce IMDSv2, deactivate IMDSv1. Learn more 🔀

Configure updates, monitoring, and logging - optional Info ▼ Monitoring Info Health reporting Enhanced health reporting provides free real-time application and operating system monitoring of the instances and other resources in your environment. The EnvironmentHealth custom metric is provided free with enhanced health reporting. Additional charges apply for each custom metric. For more information, see Amazon CloudWatch Pricing [2] System O Basic Enhanced CloudWatch Custom Metrics - Instance Choose metrics CloudWatch Custom Metrics - Environment Choose metrics Health event streaming to CloudWatch Logs Configure Elastic Beanstalk to stream environment health events to CloudWatch Logs. You can set the retention up to a maximum of ten years and configure Elastic Beanstalk to delete the logs when you terminate your environment. Log streaming Activated (standard CloudWatch charges apply.) Retention 7 Lifecycle Keep logs after terminating environment

- 18. Review and submit!
- 19. The environment will start launching



The webapp is launched!

