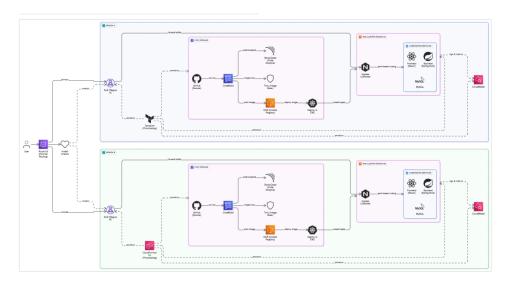
<u>Three Tier Project deployed in EKS Cluster Through Terraform and Cloudformation</u>

Cart-table App:

CloudFormation Stack Description: This stack provisions a full AWS infrastructure to deploy a containerized React + Spring Boot full-stack application using Amazon EKS, Amazon RDS, Amazon Route 53, CodePipeline, CloudWatch, and other supporting services. Main Infrastructure Components

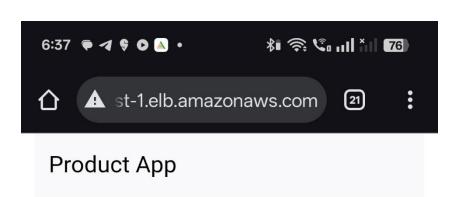
- Networking Amazon VPC •
 Custom VPC with: 2 Public Subnets and 4 private Sunbets
- 2. EKS node group (frontend & backend pods)
- 3. RDS MySQL instance
- 4. Associated Route Tables
- 5. Internet Gateway, and NAT Gateway
- 6. Elastic IP for NAT Gateway

Architecture Diagram



34%

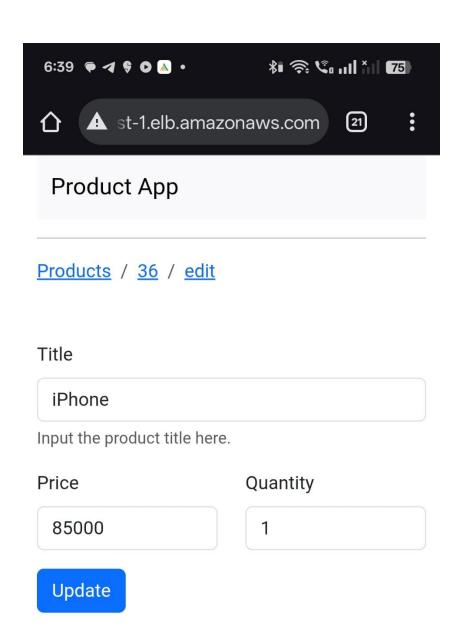
?



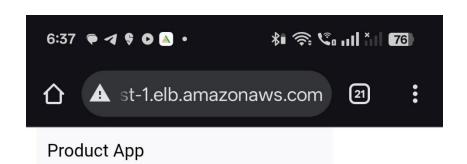
Products / 35

Product Info: 35

Title	Realme
Price	22000
Quantity	1
Edit	Delete



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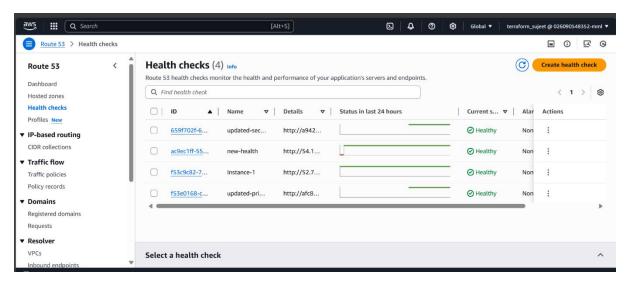
Products

#	Title	Price	Quantity	Actions		
33	Blackberry	1100	55	View	Edit	Delete
35	Realme	22000	1	View	Edit	Delete

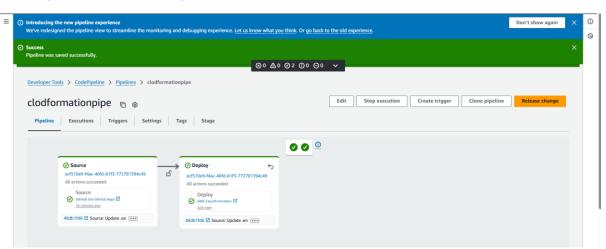
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Add

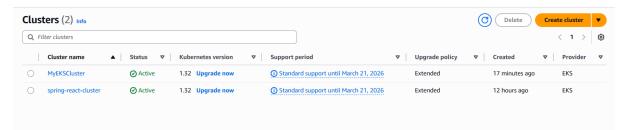
Creating rout53 for failover routing and health check.



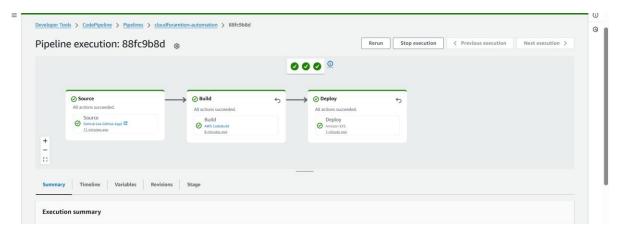
Creating Infrastructure through Cloudformation



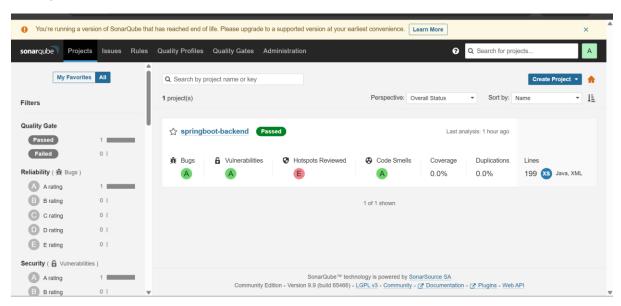
Craeted an Eks Cluster named MyEKSCluster

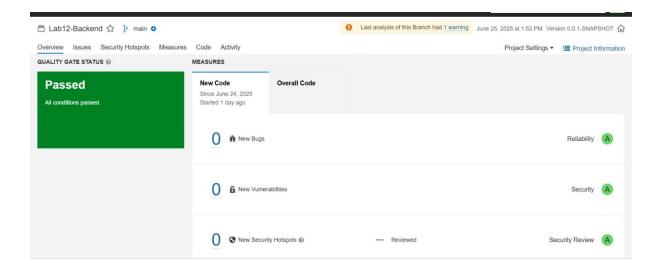


Creating Infrastructure and deploying application inside that infra. Now it's deployed so it's automated now.

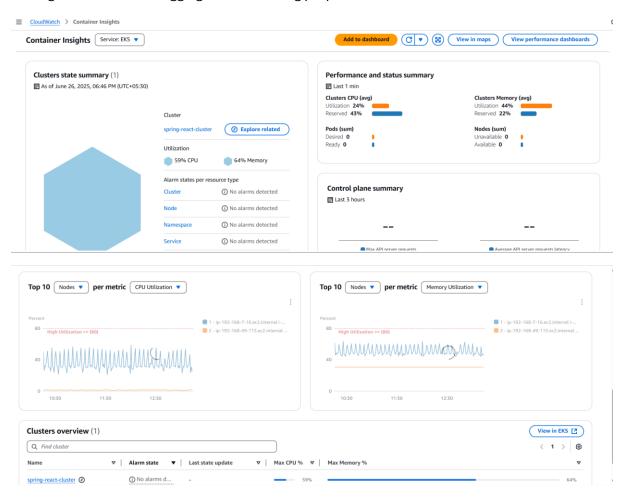


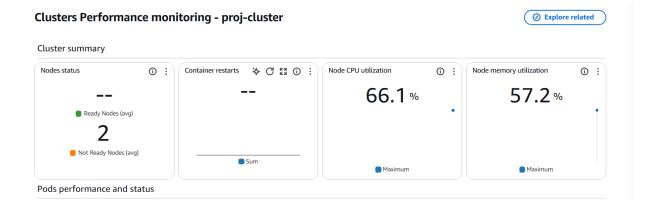
Adding SonarQube for codequality analysis.





Adding Cloudwatch for logging and monitoring purpose



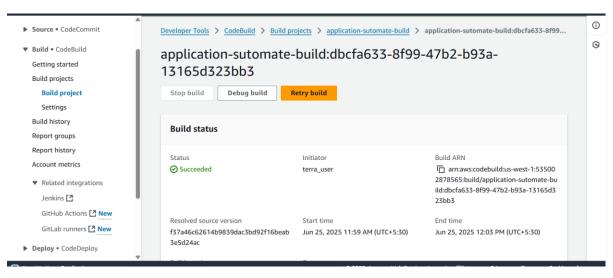


Now we can access the application through loadbalancer. react-springboot-alb-53400275.us-east-1.elb.amazonaws.com

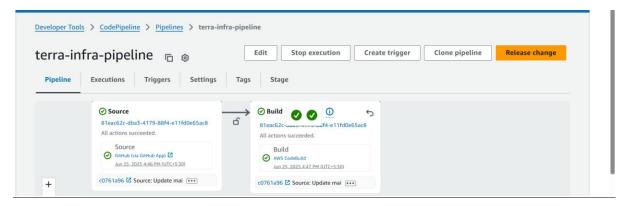
git repo: https://github.com/Supriya9876/Terraform-Capstone

Now Automating the Infra through terraform

Build



Pipeline



Application automation through eks deploying through terraform

