

Micro Services and DevOps

Exec. Summary: Reduce Time to Market for new products with agile process

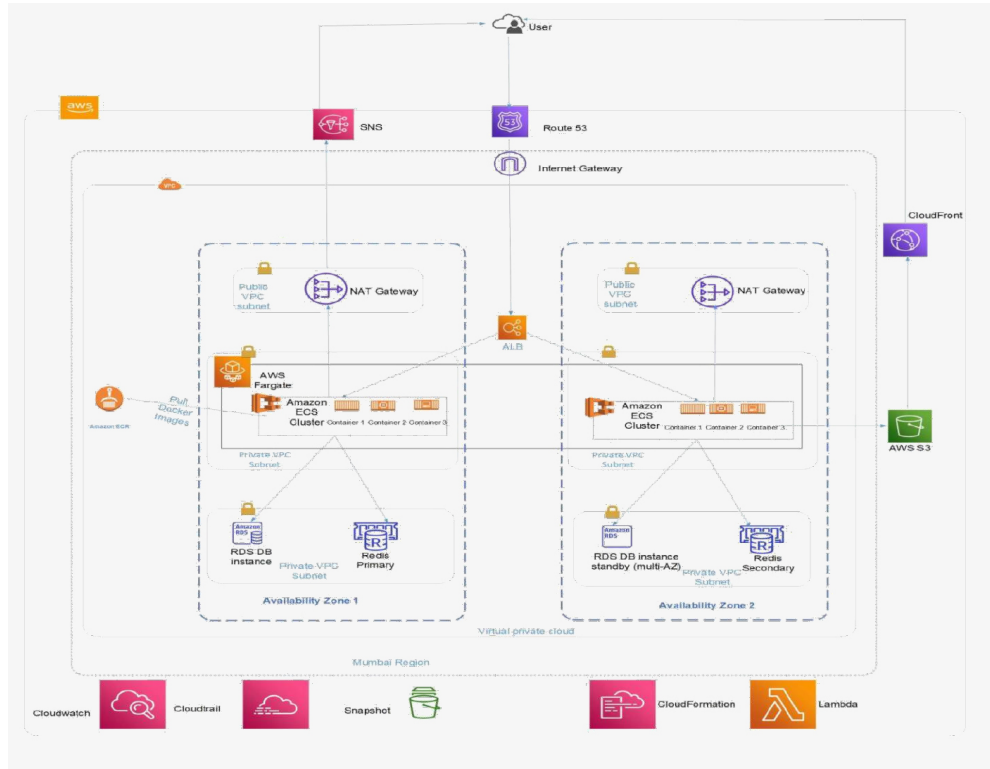
In the Digital DevOps world, expectation from business is to reduce the Time To Market (TTM) for the solutions/applications/products developed.

As part of overall Development lifecycle for a new product, application owner wanted the application to be developed with microservice architecture with DevOps process to automate overall CI-CD pipeline.

The client has decided to with Cloud-First approach. AWS was the preferred cloud provider for client.

Giniminds helped the client in developing and deployment of new product using Container approach with Micro Service architecture and leveraged multiple native AWS tools to build automated CI-CD pipeline (AWS ECR, AWS ECS, AWS Fargate, AWS Cloud Trail, AWS CodeBuild, Cloud Formation, Lambda)

Indicative deployment architecture.



The business benefits derived by the organization are as follows

- **Micro Service architecture enabling modular scalability and enhancements**
- **Roll out changes/enhancements modularly.**
- **Automated and Integrated CI-CD pipeline to reduce development timelines.**
- **Enhanced Security with Role based access and data masking capability**
- **Cost optimization with reduced infra foot print (containerization).**
- **Training to Development team on new technology and process.**

Key Facts

WHO: Leading Micro Finance company

CHALLENGES: Develop product with Micro Service architecture and reduce Time to Market

SOLUTION: Giniminds assisted the organization in implementing Micro Service Architecture using Container solution and automated CI-CD pipeline to optimize overall Development process..

BENEFITS:

- 1) Container based Micro service-based architecture for product deployment.
- 2) Cost Optimization with reduced Infra foot print (container)
- 3) Reduce overall Time to Market with combination of Micro service architecture & automated CICD pipeline (from days to hours)
- 4) Enhanced security with Role Based Access control and Data Masking
- 5) Training for team to enable them to manage new technology and process