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Case Study

Application Containerization on AWS EKS, Infrastructure Automation using Terraform for a **Germany-Based Insurance Provider**

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Client

The client is a German financial Services Group, serving customers in the Insurance and Financial Asset Management areas. It is also one of the largest insurance services companies, and a global market leader in health, medical, and P&C insurance.

Challenges

- The client wanted to deploy their core Insurance Application - ABS, which was the backend for one of their critical banking customers for insurance processing, and its supporting applications on AWS.
- ABS was a monolithic application, while the supporting applications were microservices-based.
- The client wanted to offer this as a service to its end customers and was looking for automated, replicable deployments.
- Being a financial services company, the client was bound by various regulations and compliances, which made a secondary DR site mandatory, along with production. The client expected the RTO to be less than four-hours and RPO less than 24-hours.

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- An automated AWS Landing Zone was set up with the following accounts - Organization Account, Production Account, Dev, Pre-Prod, Management, DR, Centralized Logging, and Security Account.
- All logs will be centrally stored in the logging account. All management applications like Control-M, AD, and Jenkins will be deployed in the management account.
- The core insurance ERP was deployed across multiple AZs and load balanced using ALB.
- Non-ABS applications were microservices-based and talked to the ABS running to process/ fetch the required data based on the request.
- Auto-scaling was enabled at the service level and EC2 level to scale out the microservices based on the load.
- Terraform templates were designed for automated, replicable launch of the ABS and non-ABS application infrastructure for the DR accounts.
- The whole AWS infra was built using terraform and any changes to the infra were deployed automatically through the pipeline.
- Jenkins was used as a CI/CD tool for app deployment.

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Business Benefits

The core ERP & supporting apps were successfully deployed on AWS environment while meeting the security and high availability guidelines as per the compliance.

200 concurrent users handled successfully by the application during load testing.

4X increase in app performance.

Automated infrastructure provisioning reduced the setup time from few days to within three-hours.

Automated DR environment reduced time to setup DR from weeks to few hours.

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