A leading insurance MNC saves costs with Infrastructure-as-Code facilitated by AWS CloudFormation

Customer Profile

Our customer is a leading insurance MNC offering long-term life insurance with both individual and group insurance facilities. For more than two decades, the company has been offering life insurance solutions catering to several needs of individuals - protection, savings, pension, investment, health, annuity, etc. Thus, the solutions of our customers cover the big risks of mortality, morbidity, and longevity.

Customer's Challenges

The insurance company had a legacy IT infrastructure, which was slowing down their SDL. Also, the client was facing the following problems:

Slow software development cycle

The customer was manually deploying the apps which were taking 5 to 6 weeks. Such a long duration was slowing down the software development lifecycle (SDL). This made it difficult for the client to plan the activities and it was only resulting in more and more technical debts.

Increasing costs

Our customer needed containerization. Without this, the cost was increasing. The apps weren't in any bundle with the dependencies. Hence, when the app environment needed to be changed from testing to development or development to production; the IT team faced a great mess as the app components weren't packed together. Lack of containerization was decreasing efficiency, portability, and agility.

Manual infrastructure

The client's IT infrastructure was not automated enough! Manually deploying and managing every infrastructure component was exhausting as well as time-consuming. The IT team had to

manage, monitor, and provision the infrastructure with manual configuration, hardware devices, and operating systems.

In addition to these, the insurance company was facing the following issues:

- The client was finding it hard to deploy DD-Agent applications on the EKS cluster.
- Also wanted to deploy a cluster using the Infrastructure-as-Code tool with the following conditions:
  - Network infrastructure shouldn't be created as part of IaC code as it was already present. A lambda function was present which should be used to fetch the details.
  - The principle of least privilege should be applied.
  - One time resources also shouldn't be deployed.

Our Solutions

The client approached us as we are one of the leading AWS service providers to solve the problems they were facing. We shared the following two options with them:

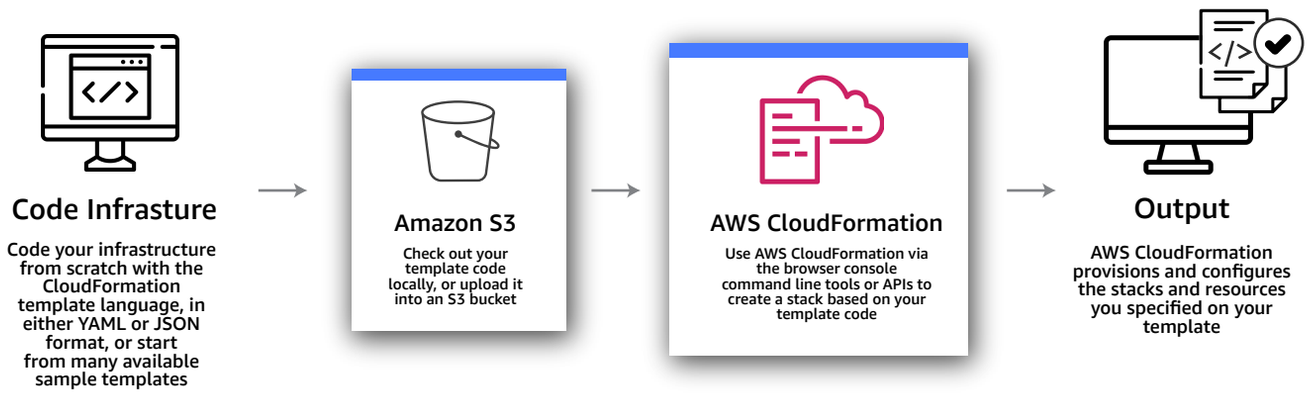
- To use Terraform and Helm to provision infrastructure and application deployment.
- To use AWS CloudFormation service to provision infrastructure and deploy an application.

The leading insurance company decided to go with the second option, as their team members were aware of the CloudFormation service. And in the future, they can modify the infrastructure as per their needs.

In addition, we are providing the following services to the client:

Infrastructure as Code with AWS CloudFormation

We are codifying and managing the client's legacy IT infrastructure in AWS CloudFormation template language. Then, we are uploading the template code into an S3 bucket and create a stack-based on the template code. And finally, AWS CloudFormation is enabling the client to provision and configure the resources on the template. With this, the leading insurance company is saving a significant amount of costs and time.

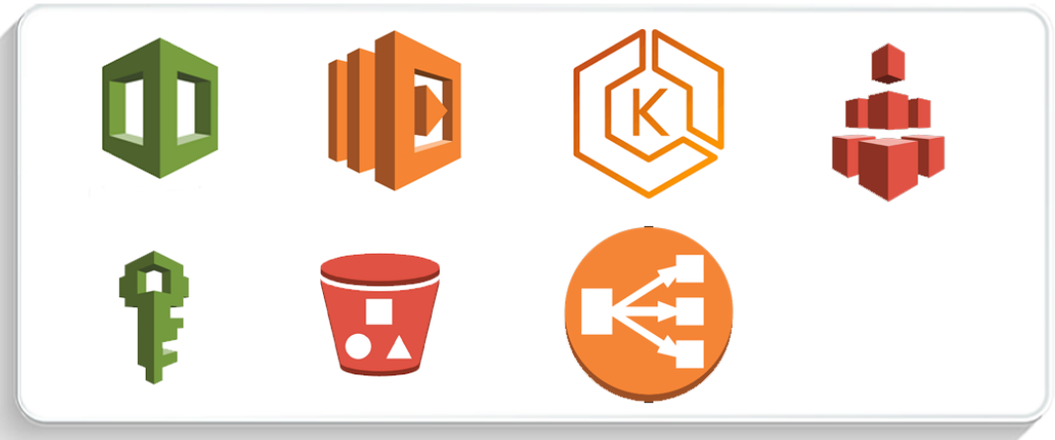


Containerization

We are also containerizing some of the apps to ensure a portable computing environment with VMs. With this, the client is getting the benefits of portable apps that they can move anywhere without any chaos. Also, containerized apps are using all the resources by increasing efficiency. Now, the insurance company can deliver apps faster with containerized apps.

DevOps Implementation

To shorten the software development lifecycle and gap the distance between development and operations teams, we are implementing a DevOps pipeline. With this, the acclaimed insurance company is releasing high-quality apps faster than ever before. As the DevOps pipeline is automating testing, integration, and deployment for the IT team.



- AWS Cloudformation
- AWS Lambda Function
- AWS EKS
- AWS EFS
- AWS IAM
- AWS S3 Bucket
- AWS ALB

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ABOUT AAIC

We are automation experts, with a majority(> 60%) of our workforce AWS-certified. We assist you in applying intelligence to the Cloud and DevOps, as our name suggests.

Our AWS certified experts create high-performing cloud apps by utilizing intelligent components and smart integrations to accelerate your digital transformation journey.

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