





















Client:

The client, headquartered in Germantown, Maryland, USA, is a prominent American government and commercial services contractor. Specializing in government and commercial services, the company has rapidly evolved since its formation, contributing significantly to both sectors.



Enabling Technologies:



AWS GovCloud 	IAM 	AWS CloudFormation 
AWS API Gateway 	Route53 	AWS Lambda 
AWS CloudWatch 	AWS CloudTrail 	AWS CodeCommit 
AWS CodePipeline 	AWS CodeBuild 	Amazon ECS 
Amazon EC2 	RDS 	Glue 
S3 	ECR 	Heimdall proxy 
Sonarqube 	Application load balancer 	

Business /Objectives



In response to the imperative need for infrastructure modernization, our client sought to optimize their application deployment processes within the AWS GovCloud environment. The primary business objectives included not only meeting stringent government regulations but also ensuring enhanced security measures, scalability to handle dynamic workloads, and overall operational efficiency. The aim was to establish a resilient and state-of-the-art cloud infrastructure aligned with the organization's evolving requirements.

Solutions Delivered



Bourntec implemented a robust AWS GovCloud infrastructure, ensuring compliance with rigorous government standards. The project involved architecting a scalable infrastructure using AWS services, optimizing workload management efficiency. Additionally, AWS DevOps technologies streamlined deployment processes, markedly enhancing overall operational efficiency. Real-time insights into system activities were facilitated through the integration of monitoring and logging tools, empowering proactive issue resolution. A secure environment for sensitive data was established through the adept utilization of encryption mechanisms.

Further, enhancements included a thorough code quality analysis facilitated by an integrated solution. Database management, with a focus on high availability, faster access, and optimized cache settings, was achieved through strategic deployment and configuration of RDS and Heimdall Proxy. This comprehensive approach resulted in the delivery of a modernized, secure, and efficient AWS GovCloud environment tailored to the client's needs.

Results



The implemented solution resulted in a streamlined deployment process for Client's Insurance Application within a secure and scalable AWS environment. The establishment of an AWS Landing Zone, coupled with the utilization of AWS services such as AWS Control Tower, AWS Config, Amazon CloudWatch, AWS Security Hub, AWS GuardDuty, AWS Systems Manager, AWS Workspace, and AWS AD, addressed the specific challenges posed by the application's deployment nuances. The end-user desktop solution through AWS Workspace facilitated a seamless experience for contractors and remote employees. The continuous monitoring and management tools ensured operational efficiency, security, and compliance across the AWS environment. Client achieved its objectives of a secure, scalable, and well-governed AWS infrastructure tailored to the needs of its Insurance Application deployment.