WNC INSURANCE SERVICES

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Client:

Client is a Health Insurance company, founded in 1994 and situated in the USA, With a substantial presence, the company insures more than 500 employers and over 25,000 individuals across the United States. Specializing in delivering cost-effective health insurance solutions and quotes, the company caters to employers, individuals, families, and Medicare beneficiaries.

Scalable Deployment and API Excellence with AWS

Enabling Technologies

- AWS Elastic Beanstalk
- AWS API Gateway
- Amazon RDS
- Amazon S3
- AWS CloudWatch

Business /Objectives

The client's primary challenges were centered around the need to develop and deploy a highly scalable web application and API. Key objectives included automating the deployment process to reduce time-to-market, implementing robust auto-scaling capabilities to handle varying workloads efficiently, integrating seamlessly with essential AWS services (Amazon RDS, S3, CloudWatch), and ensuring the highest standards of security through regular updates. The overarching goal was to create a responsive and resilient system capable of meeting the dynamic requirements of a growing user base.

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Solutions Delivered

Bourntec addressed the client's challenges by deploying a scalable web application and API using AWS Elastic Beanstalk and AWS API Gateway. Elastic Beanstalk automated deployment, optimized efficiency, and enabled auto-scaling to handle varying workloads. Integration with Amazon RDS, Amazon S3, and AWS CloudWatch enhanced database management, secure data storage, and real-time monitoring. Simultaneously, AWS API Gateway facilitated RESTful API deployment with features like throttling and caching for optimal performance and robust security. Effective version management ensured smooth transitions for users. The streamlined processes, coupled with regular updates, achieved the client's goals for scalability, performance, and security.

Results

The project resulted in the successful deployment of a scalable web application and API, meeting the client's objectives. The automated processes provided by AWS Elastic Beanstalk reduced deployment times and increased overall operational efficiency. The auto-scaling capabilities ensured that the system could handle varying workloads, providing a seamless user experience. Integration with AWS services enhanced the application's functionality, and the use of AWS API Gateway allowed for the creation of a performant and secure API.