

# Hyperscaling for Global Success: Leveraging the Power of AWS and Unleashing Lightning-fast Deployments with BASE2



*It's my second time working with BASE2 to fill the DevOps needs for my startups and both experiences have been absolutely stellar. The onboarding process was very quick and within a few weeks we were migrated to AWS with a fully working CI pipeline.*

**Kevin Paterson, Co-Founder, Carbon Diet Coach**  


## The Results

Migration from Digital Ocean to AWS and containerization in just 4 weeks with end-to-end CI/CD pipelines

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Empowered rapid deployments, facilitating faster delivery of new features to market

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Improved application stability, and enhanced monitoring capabilities

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Supercharged the scalability of the application to meet the ever growing global user base from 10,000 to more than 350,000

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Simplified development and production cost allocation processes

**4 Weeks**

TO MIGRATE, CONTAINERIZE  
AND IMPLEMENT CI/CD

**35x**

USER BASE GROWTH RAPIDLY  
SCALED TO

**Accelerated**

SPEED TO MARKET

## A bit about Carbon Diet Coach

Carbon Diet Coach is a science-based nutrition app designed by the team of nutrition experts at Reform LLC. The app has a global user base and is available in the App Store and Google Play in many countries.

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## What they needed

The Carbon Diet Coach (Carbon) application was experiencing rapid user growth. To accommodate this increase and achieve scalability, the application needed to be migrated from Digital Ocean to AWS. Additionally, the manual and time-consuming process of application deployments and environment management necessitated the implementation of end-to-end automated deployments for both the application and infrastructure.

## What BASE2 delivered

To address the requirements, BASE2 embarked on a migration of the Carbon Diet Coach application from Digital Ocean. The focus was on implementing infrastructure-as-code for the solution while adhering to AWS architecture and security best practices. The following key initiatives were implemented:

### **Containerization using ECS Fargate**

The application was migrated and containerized leveraging AWS Elastic Container Service (ECS) using the Serverless Fargate launch type. This containerization approach facilitated efficient resource management, enabled scalability, and simplified deployment processes.

### **Infrastructure-as-Code**

The Carbon app infrastructure was re-architected as infrastructure-as-code, enabling consistent provisioning of Development (Dev) and Production (Prod) environments. This approach ensured that deployments were efficient, predictable, and easily reproducible.

### **Multi-AZ Architecture**

A Multi-AZ (Availability Zone) architecture was implemented to enhance system resilience and fault tolerance.

### **Continuous Integration and Continuous Deployment (CI/CD)**

Automated deployment pipelines were established to streamline the release cycle of both application and infrastructure code. CI/CD practices enabled faster and more efficient delivery of updates and new features, reducing time-to-market and enhancing agility.

### **Environment Monitoring and Management**

BASE2 implemented robust monitoring and management capabilities to ensure the stability and optimal performance of the carbon application. This included proactive monitoring of key metrics, automated scaling, and timely alerts for efficient issue resolution.

# About Us

BASE2 has been at the forefront of cloud-native solutions for almost 20 years, delivering hundreds of innovative and successful cloud deployments across a broad range of industries. We believe in agile, scalable and secure solutions that adapt and evolve with your business needs.

**Your ongoing success is our success.**

As an AWS Advanced Consulting Partner with certified DevOps and SaaS competency, our team members are skilled in the implementation, management, operations, maintenance and support of leading cloud systems with a focus on providing our clients with security, automation, scalability and recovery features. Our extensive knowledge and experience with cloud applications and their development make deployments an easy and affordable process for our clients. Our methodology, demonstrated results and commitment to data security have made us a trusted partner for our numerous international customers.

BASE2 is ISO/IEC 27001:2013 certified for its information security management system (ISMS) for cloud development and operations, and is CPS 234 compliant.

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