



# DevOps on AWS Case Study

## Colorado-based Non-Profit Chooses Qwinix Technologies to Optimize Amazon Web Services (AWS) Application Performance

### Bright by Three



Bright by Three was founded by former Governor Roy Romer, and previous Procter & Gamble Chairman Brad Butler, in 1995. Since its inception, this Colorado based non-profit has reached thousands of families across the state each year—and nearly 21,000 last year alone. The organization provides support and early education information for families through a three-step program. Bright by Three is funded entirely by charitable contributions and has a goal to support the average 68,000 babies born in the state each year.

#### THE CHALLENGE

- New application needed to be built from the ground up.
- Thousands of users to support.
- Non-profit did not have a large budget.

#### THE SOLUTION

Qwinix engineers built a complete new application from scratch. Set up started in the lower environments, and included a CI/CD pipeline, to aid the deployment process and to handle the huge load on the servers. The database was secured to protect a large number of phone numbers, and the application performance was optimized to correct a history of frequent crashes due to regularly scheduled jobs that consumed large amounts of RAM. The software design experts leveraged a microservice to divide up the services and AWS RDS with PostgreSQL to ensure stability. The non-profit's explosive data growth is now managed by a custom data warehouse built with AWS Redshift.

#### THE BENEFITS

##### Implemented automatic deployments

Set up started in the lower environments, and included a CI/CD pipeline, to aid the deployment process.

##### Increased database security

The software design experts leveraged a microservice to divide up the services and AWS RDS with PostgreSQL to ensure stability.

##### Boosted customer satisfaction

"In order to meet our goal to support every child we must have a scalable and reliable network. With the help of Qwinix Technologies and AWS we now have an infrastructure in place capable of turning our goal into a reality."

#### ABOUT QWINIX TECHNOLOGIES INC. AND AWS

Qwinix Technologies is an application development and cloud enablement provider based in Denver specializing in agile, design thinking,

Organizations using a DevOps model deliver applications quicker and innovate faster. AWS offers infrastructure resources designed to support continuous integration and delivery, infrastructure as code, microservices, and monitoring & logging.

#### NEXT STEPS

To learn more about how AWS and Qwinix Technologies Inc. can help your business, visit [www.qwinix.io](http://www.qwinix.io)