Managing Complexity with Expert Help

How Pure Charity right-sized infrastructure and improved compliance with Speedyrails

pure CHARITY

Software and services to support non-profits

Pure Charity provides tools and services to non-profit organizations and individual fundraisers around the world to support optimized outreach, operations, and fundraising. The company's impressive growth meant Pure Charity needed help to simplify, streamline, and right-size its infrastructure to continue to deliver custom applications for online fundraising, donation processing, trip management, and other services quickly and at scale to its partners.

Company growth as a catalyst

Rapid growth and expansion are the goals of many businesses—though with it comes evolving requirements for systems and infrastructure. A forward-looking business wants the right processes and standards in place, with efficient and consistent deployments. That's why Pure Charity sought a migration to a Kubernetes architecture solution. The company saw the benefits of this cloud-based architecture improvement, yet it needed its existing IT resources and team to continue to focus on developing its application—the core of its business.

Challenge

To stay ahead of anticipated growth, Pure Charity decided to modernize and future-proof its infrastructure while meeting security and compliance requirements and preserving business operations during peak times.

Solution

The company turned to Speedyrails' managed cloud migration and managed Kubernetes services. Speedyrails reduced infrastructure size and complexity, while meeting security requirements and modernization goals.
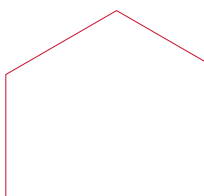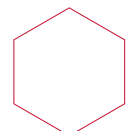
Results

Pure Charity saw at least a 50 percent reduction in infrastructure, improved workflows, enhanced deployment pipelines, and enhanced security and compliance.

"

Suggestions are given by Speedyrails' team as best practice. Nothing is forced or required by Speedyrails."

– Beverly Nelson,
CTO and Lead Developer,
Pure Charity

Unique customers deserve unique support

Pure Charity enlisted the help of Speedyrails to migrate the company infrastructure to Amazon Web Services (AWS) and build its application infrastructure on Amazon Elastic Kubernetes Service (Amazon EKS). Pure Charity wasn't looking for a lift-and-shift migration. The company also wanted to modernize its infrastructure during the migration to AWS.

Speedyrails architected and implemented infrastructure and migrated Pure Charity's applications to a Kubernetes cluster on Amazon EKS, providing autoscaling and high availability for their applications. This helped Pure Charity pay only for what it needed. Speedyrails also improved the development and staging environments to boost developers' productivity by enabling them to deploy frequently and test more. Throughout the entire migration, Pure Charity retained its PCI and GDPR compliance, and with its new infrastructure, Pure Charity can pursue compliance with other standards such as HIPAA and SOC2.

It was critical that Pure Charity maintain backward compatibility with the code while undergoing the infrastructure modernization efforts. Thanks to Speedyrails' expertise and experience, the existing application was modernized without interruption to its core functionality or abilities, saving time and reducing costs.

Throughout the process, Speedyrails delivered that personalized touch and provided an excellent working relationship. "Suggestions are given by Speedyrails' team as best practice. Nothing is forced or required by Speedyrails," said Beverly Nelson, CTO and Lead Developer at Pure Charity. All of the changes were done on Pure Charity's terms. The team was able to move at its own pace and achieve its desired results.
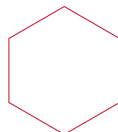

Our experience with the Speedyrails team has been nothing short of exceptional. The entire team is well versed in up-to-date system technologies and best practices. Collaborating with them on planned system improvements allowed us to accomplish our goals in a more timely fashion and with greater confidence."

– Beverly Nelson, CTO and Lead Developer, Pure Charity

Managed Kubernetes service

- Augments customers' DevOps and Cloud Operations teams
- Enables autoscaling and high availability through a multi-Availability Zone (AZ) setup on AWS using Amazon EKS
- Implements backup policies and redundancy across all services and ensures business continuity
- Uses AWS Security Hub and the AWS Well-Architected Framework

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kubernetes CERTIFIED SERVICE PROVIDER

Expert support delivers enhanced results

The results speak for themselves. Speedyrails reduced Pure Charity's infrastructure by at least 50 percent, and Pure Charity has seen a 64 percent increase in system efficiencies, a 27 percent decrease in false positive exceptions, and a 33 percent improvement in background processing.

Now that its infrastructure is more scalable and resilient, Pure Charity can confidently support large customer events without advanced planning—the capacity is there when it's needed. With its improved processes, Pure Charity has simplified deployments and is supporting greater consistency and reliability. With enhanced security architecture on AWS, Speedyrails works toward the highest level of ongoing security of Pure Charity's customer data and empowers the organization to more easily meet compliance requirements in the future. The company submitted to several PCI and GDPR scans with no compliance issues, and the new infrastructure enables the company to plan for HIPAA compliance as the organization grows.

Thanks to Speedyrails' excellent documentation of updates and changes, Pure Charity has a useful training resource when it onboards new developers. There's another intangible benefit: A sense of fresh excitement on the developer team. The care and approach of the Speedyrails team left Pure Charity with complete customer satisfaction.

50%
Reduction in Pure Charity's infrastructure

64%
Increase in system efficiencies

27%
Decrease in false positive exceptions

33%
Improvement in background processing

About Speedyrails

Speedyrails is a Managed Service Provider and AWS Advanced Tier Services Partner helping customers architect, deploy, and operate modern cloud-native solutions to quickly scale up to meet growing business demands, maintain business continuity, and meet security and compliance requirements.

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