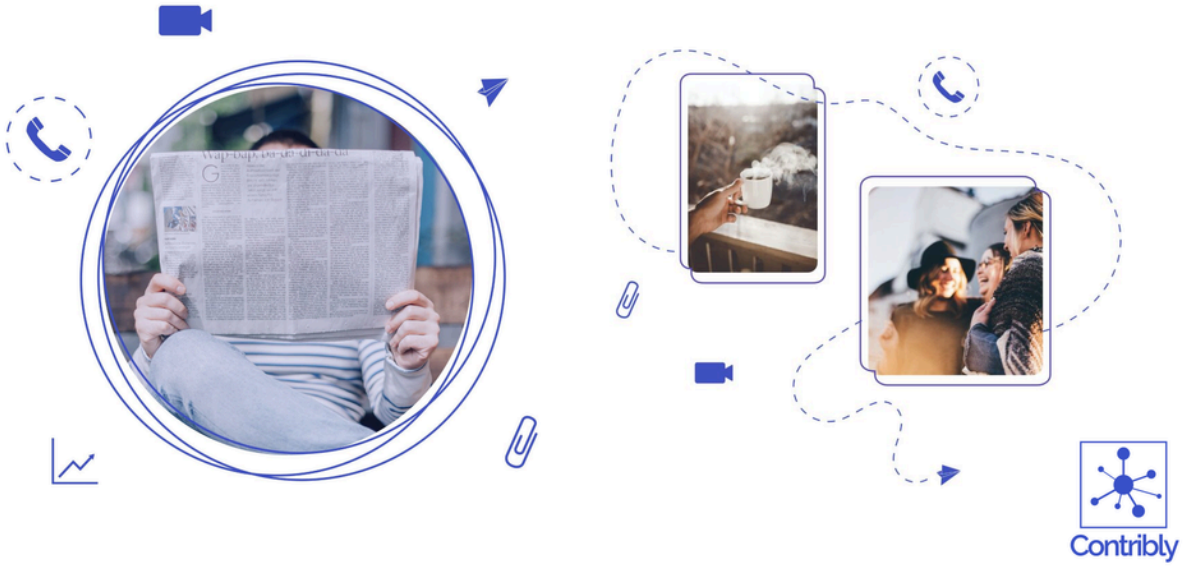
Case Study

NewRedo



Creating DevOps Infrastructure

/ Contribly

Contribly.com is an online platform that enables media organisations and publishers to crowdsource content and engage with their audience. It provides a streamlined and efficient way for organisations to gather user-generated content, such as photos, videos, and articles, from their audience members or a community of contributors. The platform offers features for content submission, curation, and collaboration, allowing media organisations to easily source and publish high-quality content that resonates with their readership. Contribly.com helps media companies harness the power of crowdsourcing to enhance their content offerings and foster greater engagement with their audience.

> " NewRedo's help with our DevOps infrastructure transformed delivery lead time and allowed the development team to realise their potential "
>
> Linda Broughton - Co-founder

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Project Introduction

Improve Contribly's DevOps infrastructure eliminating manual development and deployment processes. Remove inconsistent environments and manual processes by moving provisioning of compute and storage to Kubernetes also improving scalability and resilience. Improve the speed and ability to operate an effective CI/CD pipeline boosting collaboration, scalability, enhanced security, and enabling iterative and efficient product development.

Project Challenge

The lack of a solid Devops infrastructure poses significant challenges for startups and scaleups like Contribly. Slow development and deployment processes hindered the ability to respond quickly to market demands. Silos between teams were limiting collaboration and communication, causing delays and misunderstandings. Inconsistent environments and manual processes result in errors, making it difficult to reproduce and resolve issues. Scalability and resilience suffered due to inadequate infrastructure provisioning and scaling mechanisms, leading to performance bottlenecks and downtime. Insufficient visibility and monitoring make it challenging to identify and address problems promptly. Security vulnerabilities could be a concern without ongoing security improvements, risking breaches and legal liabilities. Iterative development and continuous delivery become arduous, impeding Contribly's ability to deliver value and gather user feedback.

Project Solution

The NewRedo consulting team conducted a thorough assessment of Contribly's existing Devops infrastructure, practices, and challenges to identify areas of improvement and set a baseline for future enhancements. From this a comprehensive plan and strategy tailored to Contribly's needs and goals was produced. This plan outlined the steps, tools, and processes required to enhance the Devops infrastructure.

Suitable DevOps tools and technologies aligned with Contribly's requirements were selected, carefully ensuring smooth integration into the existing infrastructure. The team set about automating the manual processes, including code deployment, testing, and monitoring to establish continuous integration and continuous deployment (CI/CD) pipelines and enable

frequent and efficient software releases. Infrastructure provisioning was defined with infrastructure-as-code (IaC) practices and Kubernetes employed, enabling rapid and consistent provisioning of resources. Training and knowledge transfer sessions were provided to the startup's internal teams. This equips them with the necessary skills and knowledge to effectively operate and maintain the improved Devops infrastructure. The consulting team worked closely with Contribly's internal developers to establish a culture of continuous improvement and provide ongoing support, conduct periodic assessments, and recommend further enhancements to keep the Devops infrastructure up to date and aligned with evolving business needs.

Customer Value Proposition

Transforming Contribly's Devops infrastructure provided significant value in several ways including faster time to market through shorter development cycles and streamlined, repeatable deployments through automated processes. These enhancements allowed the release of new features, updates and bug fixes more frequently, all increasing their competitive edge. Product quality was enhanced through easier automated testing, continuous integration and continuous deployment, ultimately increasing customer satisfaction and retention. An overall increase in engineering productivity was established by reducing manual effort, eliminating repetitive tasks and enabling better collaboration between development and operations functions. This allowed the team to focus on innovation, problem-solving, and delivering value. Finally scalability and flexibility were also enhanced with the improved Devops infrastructure improving the platform's ability to adapt to changing business needs.

Project Skills

App Engine, Infrastructure as Code (IaC), Containerisation, Docker, Bash, Python, Firewalls, Scala, MongoDB, Javascript, Google Cloud Platform, Kubernetes, Terraform, CI/CD, DevOps, GitHub, Ansible, Identity and Access Management (IAM), Cloud Infrastructure, Project Management, Agile Delivery Management