

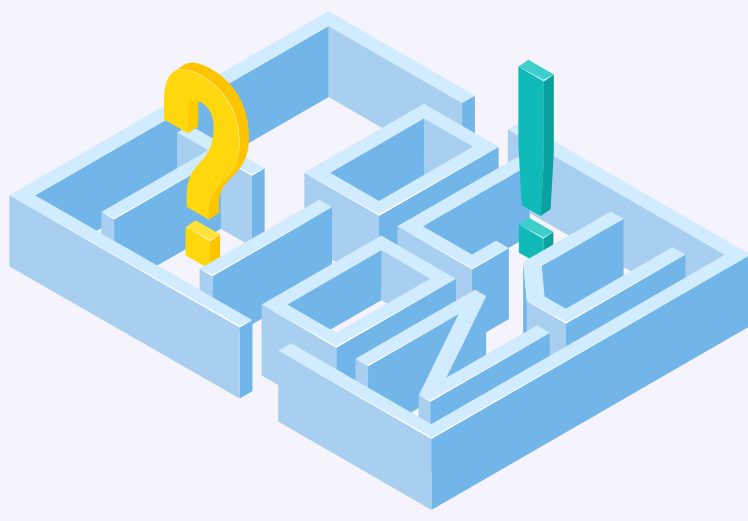
Building Resilient Infrastructure for Seamless Customer Service Delivery

Designing and deploying a resilient and scalable architecture capable of handling varying workloads, traffic patterns, and demands. Key components of such infrastructure include redundant systems, load balancing, auto-scaling, disaster recovery mechanisms, security measures, and monitoring tools. By investing in a robust infrastructure, the client can effectively meet the needs of their diverse customer base while ensuring reliability, performance, and security.

Client Overview

An all-in-one Intelligent platform providing actionable insights for CX teams using prediction and GenAI to increase your team's productivity.

Challenges



- Complex microservices architecture is difficult to maintain and managed
- SOC-2 Complex is mandatory in today's SaaS world for building customer trust
- An architecture which is scaled up and down based on the customer changing demands
- A monitoring infrastructure to maintain high availability

Solutions Offered

- A kubernetes based deployment is implemented.
- Terraform is used for Infrastructure as code (IaC) tools.
- AWS CodePipeline based CI/CD is implemented for the dev/qa/stage environment.
- Prod deployments are manually triggered post approval.
- Kong based ingress to manage the load.
- Various auto scaling techniques are utilized to scale web services, messaging platforms, and job managers like Argo.
- Alerts are set up in the log management platform to notify any critical issues.
- CI/CD integration with Slack.
- 24/7 DevOps team to support any issues that need immediate attention as well as performing monitoring rituals.
- Backup/Restore rituals as well as evidence collection for SOC-2 Compliance

Results



Accelerated Time-to-Market: Reduced lead time for delivering new features and updates, enabling quicker response to market demands.



Increased Deployment Frequency: More frequent and reliable deployments of software changes, allowing for smaller, incremental updates.



Enhanced Product Quality: Reduced defects and bugs through testing and continuous integration, ensuring higher-quality software.

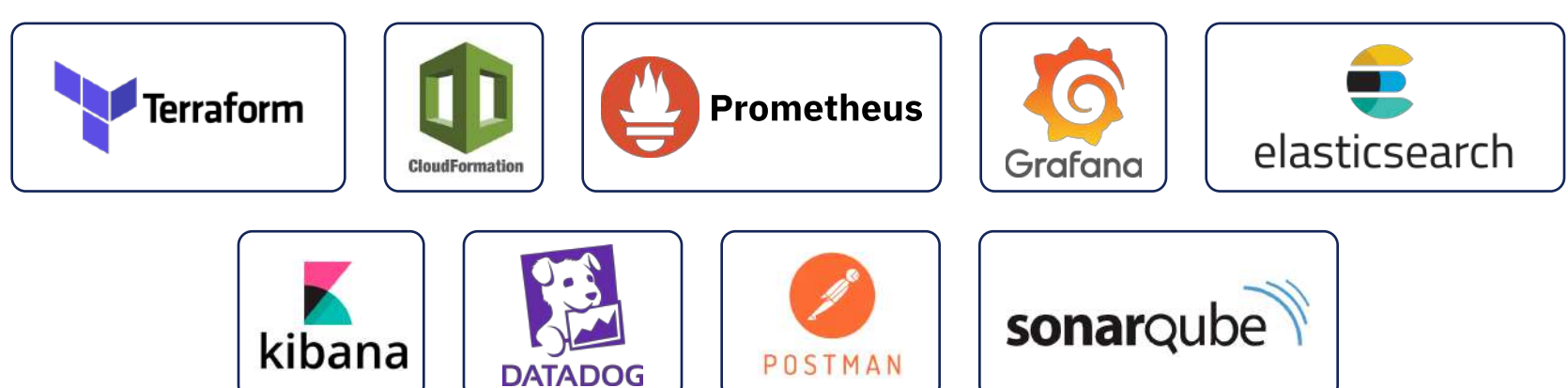


Greater Stability and Reliability: Improved system stability and reliability, resulting in reduced downtime and outages.



Improved Security and Compliance: Strengthened security posture and enhanced compliance with regulatory requirements through automated processes.

Technical Stack



Key Takeaways

Our software development initiatives have led to significant enhancements across key areas. We've achieved **faster time-to-market** and **improved product quality**, enabling **swift responses** to customer needs. By **reducing lead times** and implementing **faster feedback loops**, we've enhanced our agility. **Eliminating manual tasks** has **boosted efficiency** and **minimized errors**, empowering our teams to focus on delivering value. These initiatives have fostered a culture of experimentation and adaptation, positioning us for continued success in a competitive market.