

DEVOPS TEAM BUILDS BUSINESS INTELLIGENCE FRAMEWORK AND DRASTICALLY REDUCES DEPLOYMENT TIMES

“

We have been incredibly impressed with PSL's technical competency (working with us on a very complex project), their communication skills (bringing multilingual resources to our project) and their ability to transform our requirements into a successful ongoing project.

—
CEO

”

Results:

- DevOps adoption
- Deployment time decreased from months to seconds
- Cloud-based application
- Business intelligence framework
- Fully-automated infrastructure
- Microservices architecture
- Distributed load balancing
- Auto-repairing server configurations

Tech Stack:



The Challenge: -----

The financial services industry dominates the economy in terms of equity and market earnings, making it necessary for companies to continually innovate and provide added value to clients in order to stay relevant. PSL's client, a leading provider of sales and performance management software solutions for the financial services industry, was looking to improve services for customers, but needed a technically strong partner to make it happen. Due to the complexity of the project, the client needed a software development partner with reasonable costs that was located in the same time zone, not an easy undertaking.

To start, our client wanted to build a dashboard that would encourage more informed decision making for customers. Building the dashboard would involve integrating and exposing a large volume of data (millions of data per day) from different sources into a single repository. The final dashboard would incorporate the data from the repository, presenting a user-friendly interface to clients. Essentially, the team needed to create an application that would generate the UI based on models, which could be immediately modified to incorporate additional data as dictated by the user.

The second objective was to set up a DevOps team to provision and maintain the infrastructure, as a DevOps team would be better equipped to add value quickly due to the nature of DevOps. Deploying the application in the cloud, with all the related requirements for scaling, security and networking built in, would be easier with a collaborative team well versed in DevOps.

The Solution:

The client's physical infrastructure was cumbersome and expensive to maintain, so the decision was made to move all new applications to a dynamic, cloud-based environment. The team set up the new infrastructure to be versioned as code, meaning the infrastructure is deployed automatically and still meets security and networking requirements. Creating the infrastructure this way allows new functionalities to be added quickly and seamlessly. Finally, the teams built continuous delivery and continuous integration into the development process to accelerate deployment times.

Next, the team started automating tests, which ensures that each version is stable and able to be deployed. Eliminating the need for manual testing means fewer mistakes, faster time to market, and faster recovery times if something does go wrong. The team also implemented their own discovery service using HAProxy for each service, enabling the distribution of load balancing instead of having a single service in charge of both.

Due to the complexity of the project, and the international structure of the team, PSL and the client setup strong communication processes and systems. This setup allowed the team to explain some of the more technical aspects of the project, ensuring cohesion in how the application was created, deployed and improved.



Need a reliable, cost-effective partner to make your software ideas a reality?

Contact PSL at contact@pslcorp.com today.

www.pslcorp.com