

Kynetec: 4x Faster Processing Times Thanks to Improved Automation



To optimize data processing times, Kynetec moved their solution to a serverless architecture and replaced relational databases with Cloud-based solutions with better horizontal scaling.

THE BUSINESS NEED

Kynetec processes large amounts of raw data to create industry reports for their clients. Working on such sizable data volumes, to some extent manually, took up a lot of their Analysts' time.

After implementing an **MVP** – the first step to introducing automation – Kynetec decided to further expand their new solution to **free up Data Analysts** to work on more meaningful tasks.



THE SOLUTION

The initial MVP used a cloud-managed SQL database service as the main data processing platform. This was transitioned to a **file-based storage service**, using serverless features where feasible to minimize the resource footprint when not in use.

Raw data can now be cleaned significantly faster and more efficiently, enabling Analysts to spend more time creating value-added insights.

With Managed Spark Computing clusters, average raw data processing times were reduced by 77%.

THE RESULTS



Data processing efficiency increased by **up to 77%**



Effective processes allowed Data Analysts to spend more time producing richer insights

” PGS Software plays a pivotal role in us meeting our objectives against automating and enhancing our Data Pipelines. The value-driven approach ensures changes are prioritised and where the effort may be significant, PGS Software deliver bite-sized proof of concepts to ensure commitment to architecture and solutions will meet short, medium, and long-term goals.

Shahbaz Hafeez

Senior Director, Software Development

PROJECT DETAILS



SOLUTIONS

AWS Cloud, Infrastructure as Code, Continuous Integration, Serverless, Big Data

TECHNOLOGIES

Python, Scala, AWS RDS PostgreSQL, AWS RDS Aurora, AWS DynamoDB, AWS Lambda, AWS Glue, AWS IAM, AWS Batch, AWS Athena, AWS Step Functions, AWS SQS, AWS SNS, AWS CloudWatch, AWS S3, Apache Spark

TOOLS

Jenkins, Bitbucket, JIRA, Confluence, Docker, Terraform, Terragrunt

TEAM

3 developers, 1 Project Manager/Scrum Master

ABOUT KYNETEC

Kynetec is a world leader in delivering market research to the agricultural and animal health sectors. The company prides itself on providing best-in-class technologies and methodologies, building on a long history of **continuous innovation**. Kynetec delivers the highest, consistent quality, timeliness, privacy, integrity, and compliance standards.



ABOUT PGS SOFTWARE

PGS Software supports customers worldwide with tailor-made IT solutions. We offer expertise and services in cloud computing, design and data science – including business analysis, optical and UX/UI design and quality assurance.

Working on your project from start to finish or as your extended team, we offer solutions where off-the-shelf software isn't enough. With over 3,000 projects under our belt and publicly traded since 2008, our Software Craftsmen look forward to any new challenge.