VGW Data Engineering Capability

Engineering robust & reliable data automation

MECHANICAL ROCK

The Client

Virtual Gaming Worlds (VGW) is an innovative and highly profitable game design workshop. They are the pioneers of Social Sweepstake Gaming with tens of thousands of players and multiple product lines including Online Social Casinos and Poker platforms.

The VGW platform is a highly scalable, highly available distributed system built on the AWS global cloud. With customers all over the world, they leverage the power of AWS services to deliver a seamless customer experience and a rapid development lifecycle.

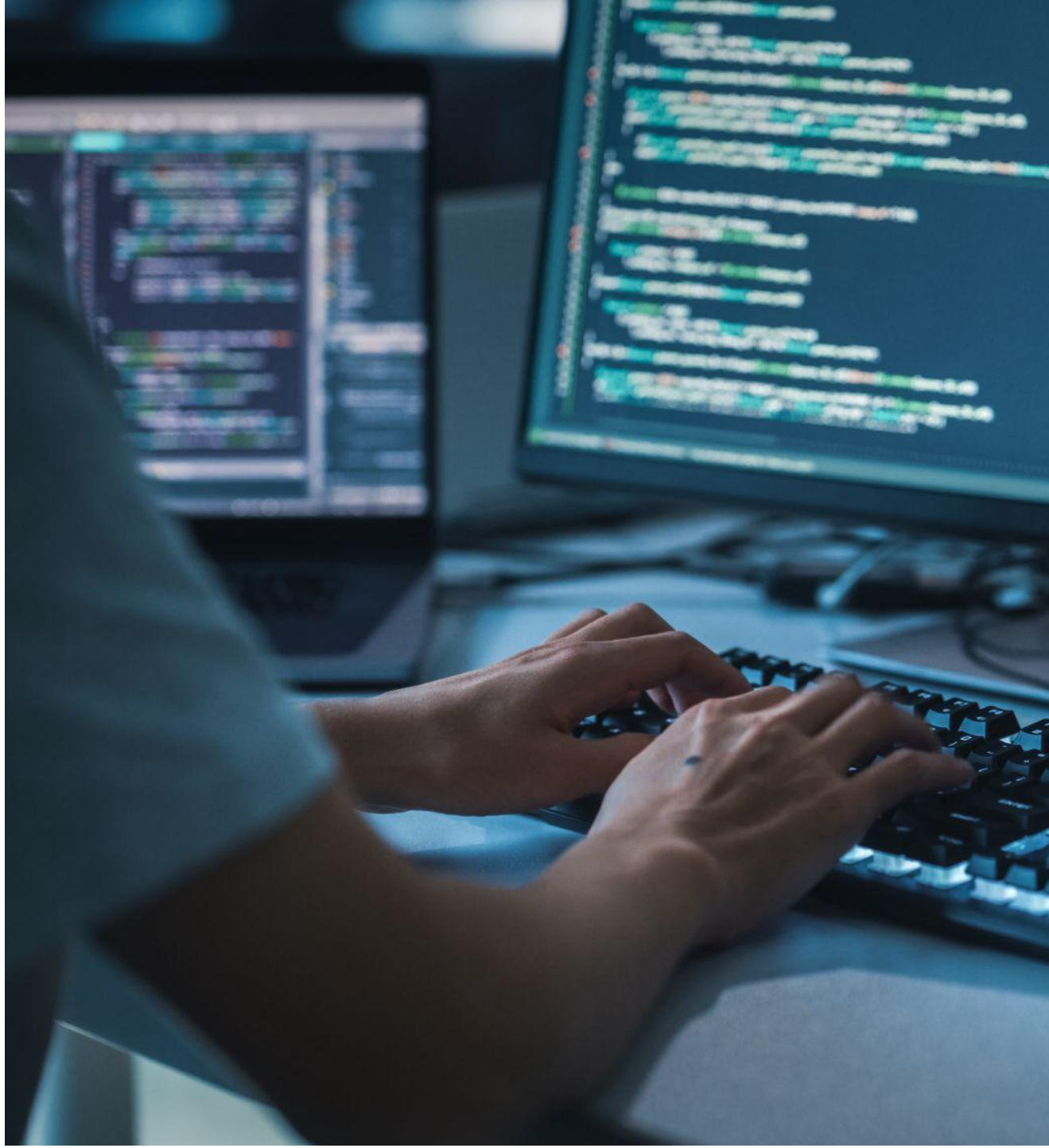
The volume of traffic and the demands of analytics, compliance and reporting on a gaming platform means that the systems generate millions of records every hour. Sitting on top of this is a sophisticated suite of financial and operational analytics.

The Challenge

VGW is building a scalable data platform so they can integrate their platform with third party systems for insight, reporting and regulatory purposes.

In their journey of building trustable, timely and accurate data VGW needed specific expertise to engineer robust and reliable data automation.

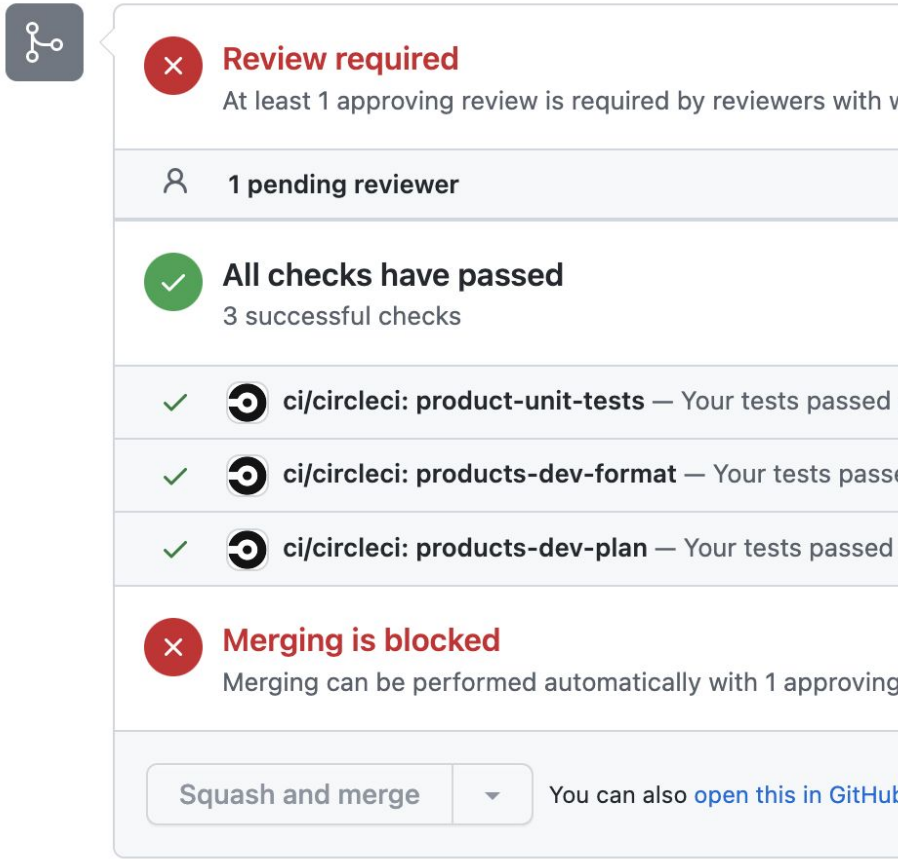
They turned to Mechanical Rock as a long-term trusted partner in software and data engineering to help them with this challenge.



The Solution

Mechanical Rock worked with VGW engineers to build data engineering capability based on industry leading practices:

- Continuous Integration and Delivery (CI/CD) of the entire stack including infrastructure and data pipelines
- Infrastructure-as-code deployment of all AWS resources, leading to more reliable deployments and less configuration drift
- Trunk based development for shorter lead times, faster feedback and more reliable change cycles
- Local development including unit tests to give data engineers confidence by allowing them to test transformation logic before committing their code
- Sandboxes to run transformations against the actual data without impacting production
- Strong security including integration with a third party identity provider, network firewalls, and a new 'least-privileged' Roles Based Access Model (RBAC)



The Benefits

Developed 3 new data pipelines with 43 ETL jobs in just 2 weeks

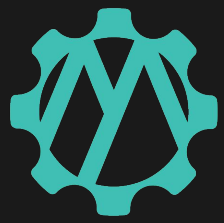
Averaged 4 production releases per day

Automated testing on every change to the system

Improved data quality through automated checks

Improved reliability through pipeline alerting & monitoring

Faster feedback loops for data engineers



Do you need leading data engineering practices?

Get in touch so we can chat about your plans over a coffee

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