

# Designing Best-In-Class Database Migration Solutions with AWS



## Executive Summary

Acquia will migrate 140,000+ MySQL databases and file systems that power its Open Digital Experience Platform to Amazon Aurora to improve workload performance, reduce downtime, and free engineers from undifferentiated database management activities. Until now, the company has overprovisioned databases to meet their 99.95% uptime SLA.

## Goals

### Move up the stack with fully managed services.

Move from an IaaS to the fully managed PaaS (platform-as-a-service) environment on Amazon Aurora, will transform Acquia's ability to serve their customers and help them stay competitive.

### Improve performance and reduce downtime.

The serverless architecture of Amazon Aurora will enable the ability to seamlessly scale processing and the underlying storage that goes with it.

### Right-size the environment without compromising uptime SLA.

In order to provide access to additional servers for the purpose of HA or to enable multiple environments, Acquia must pay for those servers today even if they are inactive. On Amazon Aurora, Acquia will only have to pay for what is used, such as when the second node for HA is engaged, or a new development environment is spun up by the customer.

## Challenges

Acquia currently deploys high availability (HA) clusters of database servers, which results in unnecessary expense for dormant capacity. With Amazon Aurora, Acquia receives the same service for customers at an optimized cost point. Instead of doing high-value activities like improving products, launching new services, or supporting customers, Acquia teams are scaling and updating database servers to meet performance requirements and deliver their 99.95% uptime SLA.

# Acquia

EXPERIENCE DIGITAL FREEDOM

Acquia was started by the founder of Drupal, Dries Buytaert, as a hosting company for Drupal websites. Since then, it has grown to become a comprehensive, white glove service and solutions company that allows organizations to easily build, manage, and optimize their digital experiences all on one platform.

Using the Open Digital Experience Platform, Acquia businesses can move beyond basic hosting to a platform that empowers them to deliver personalized content across all channels through their customer's journey. Acquia offers cutting-edge tools like website marketing services and content distribution systems that organizations can use to improve their customers' engagement from start to finish.



## Solutions and Outcomes

Acquia will migrate all the MySQL databases they currently run in an IaaS (infrastructure-as-a-service) environment to Amazon Aurora to take advantage of fully managed services on a serverless architecture. The move will improve how Acquia delivers solutions on its Open Digital Experience Platform to its customers and transform the way its engineers spend their time. Running on Amazon Aurora will allow Acquia to reduce provisioning costs and downtime, improve workload performance, and add new capabilities and services down the road as they become available on Amazon Aurora.

The migration solution has been defined through completion of the following activities.

- Define the database migration solution that will ensure no customer interaction or application changes will be required
- Complete a comprehensive Proof of Concept to define the most expedient, cost effective, least impacting and highly successful automated database and file system migration process
- Define a fully automated toolset and procedures to complete database migrations in minutes
- Determine and assess all integration and configuration dependencies that drive detailed migration plans, to include enhancements for the end state solution
- Deliver detailed engineering plans supporting migration runbooks, platform designs and configurations, and complete knowledge transition plan to Acquia business and technology teams

### About us:

Intuitive Technology Partners, Inc. (“ITP”) is an engineering firm headquartered in New Jersey with Centers of Excellence across the Americas, EMEA & APAC. We are a strategic solutions & professional services provider supporting global enterprise clients. We have been intimately involved in Public & Hybrid cloud transformation journeys. Additionally, we continue to invest in innovative Cloud & Security startups that provides tremendous value to our customers and partners addressing key business and technical challenges.



### Core Solutions & Services:

- [Cloud Migrations to AWS](#)
- [DevOps & DevSecOps with AWS](#)
- [Migration to AWS Aurora/RDS Database](#)
- [Migration to AWS DynamoDB](#)
- [Containerization Management & Orchestration with AWS](#)
- [VMware Cloud on AWS](#)

### Intuitive Technology Partners, Inc.

379 Thornall Street, 3<sup>rd</sup> Floor, Edison, NJ 08837 | Email: [CloudSales@itp-inc.com](mailto:CloudSales@itp-inc.com) | URL: [www.itp-inc.com](http://www.itp-inc.com)