



AWS MIGRATION CASE STUDY

Tidal Migrations identified 76% in savings for the City of Peterborough with a transformative migration approach to AWS

AWS Customer Name: City of Peterborough

AWS Partner Name: Tidal Migrations

About City of Peterborough

The City of Peterborough is a city on the Otonabee River in Ontario, Canada. The city, with a population of 81,000, has operations from large multinational companies such as Siemens, Rolls-Royce Limited, and General Electric. A high rate of population growth is expected to continue with the city projecting a 41% increase in residents by 2041¹.

Customer Challenge

In its plans to promote economic development and competitiveness, the City of Peterborough wants to ensure that the necessary IT infrastructure is in place to support the needs of its various departments. The IT division was tasked with ensuring that the services they provide keep pace with the growing demands of cost efficiency, security, agility, and scalability.

Leveraging the technical benefits and scalability of the cloud while reducing the city's dependence on its own IT and data center assets were identified as potential avenues to achieve those objectives.

Partner Solution

Tidal Migrations provided a migration assessment on a subset of the city's application portfolio to determine the migration readiness and 6R disposition recommendation for those applications. Using the Tidal Migrations platform and proprietary discovery tools, and our data-driven migration methodology, Tidal Migrations captured the key data and information required to make informed and automated disposition recommendations.

The key information collected included:

- Key infrastructure information associated with application and database servers and their dependencies
- Application source code and database analyses to determine migration difficulty
- OS and Database licensing data to inform the optimum licensing treatment within AWS EC2 and RDS instances

¹ <https://peterborough.ca/future-ready/>

- Key qualitative and business application attributes captured via interviews

Tidal Migrations compared relative performance of the customer's on-prem servers with AWS instance options (on a normalized performance index) in order to recommend the lowest cost, performance-comparable EC2 instance. This optimized matching incorporated the following factors: normalized CPU performance, memory usage, operating system, license portability, bursting compatibility, and cost.

Tidal Migrations helped the customer identify approximately CAD 743,000 in savings over three years by migrating 13 applications to AWS. This involved replatforming to optimized AWS EC2 and RDS instances. Further, more transformative recommendations included refactoring applications to run on AWS Lambda and AWS Elastic Beanstalk.

Results and Benefits

Using Tidal's transformative cloud migration approach, the City of Peterborough is estimated to be able to save up to 76% by refactoring their applications and migrating to AWS. For example, by refactoring an application on a JSP/Tomcat 8.5 stack, to AWS Lambda using the Serverless Java Container pattern, the customer could reduce its monthly costs to CAD 80.63. This represents a 87.3% reduction from CAD 636.08/month if it remained on-prem.

"Using Tidal Migrations we were able to rapidly assess our infrastructure and applications for migration to AWS. The data-driven insights in the platform allowed us to develop a plan and reference architecture to transform our applications, saving the city considerable time and costs versus competing assessment techniques. Additionally Tidal Migrations' CloudCalculator.com solution was able to help us predict what our costs would be for both lift & shift, and transformative migrations." -
Jamie Hagg, Manager Enterprise Technology at City of Peterborough

About Tidal Migrations

Tidal Migrations is an Advanced ISV Partner and Public Sector Partner with Amazon Web Services. Its mission is to enable rapid transformation from Enterprise IT to the Cloud. They achieve this with its award-winning Tidal Migrations application assessment platform, which uses a business-first approach and a purpose-built, scalable framework. The platform is designed and built specifically for enterprise AWS customer migration and transformation projects. It provides teams with high-performance assessment and collaboration tools to move quickly.