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technology

ONICA
a rackspace technology company

Customer Case Study – Industrial

Q Engineering streamlines data analytics for oil and gas forecasting

Unified applications and workflows in AWS empower better decisions in the boardroom and in the field.

Our customer

Q Engineering provides drilling and forecasting analytics for the exploration and production segments of the oil and gas industry.

The obstacles they faced

Q Engineering's unique application required a secure and scalable platform to support containerized workloads. The Q Engineering team had developed a prototype, but they needed help to scale it, make improvements and deploy it.

How we helped

Business/IT Transformation; Managed Public Cloud – Amazon Web Services (AWS), Amazon EC2, Amazon EKS, AWS Lambda, Amazon RDS; Cloud Cost Optimization, Professional Services On-Demand, Cloud Application Development, Data Engineering and Analytics

What we achieved together

Onica (a Rackspace company) built development and production Amazon EKS clusters and a CI/CD pipeline which provided the scalability, flexibility and security that Q Engineering needed.



Empowering oil and gas intelligence

Located in downtown Houston, Q Engineering is a software company founded by two visionaries who, after working in the industry for years, realized that there was a disconnect and a lack of efficiency between what went on in the field and what went on in boardrooms and business backends.

They established Q Engineering to bridge that gap, bringing efficiencies and insights into field work and business practices.

Security and scalability for containerized workloads

The application Q Engineering developed required the ability to route traffic based on multiple endpoints to varying instance types handling specific workloads. Q Engineering also wanted to design an end-to-end CI/CD pipeline to allow for rapid development and feedback for the team.

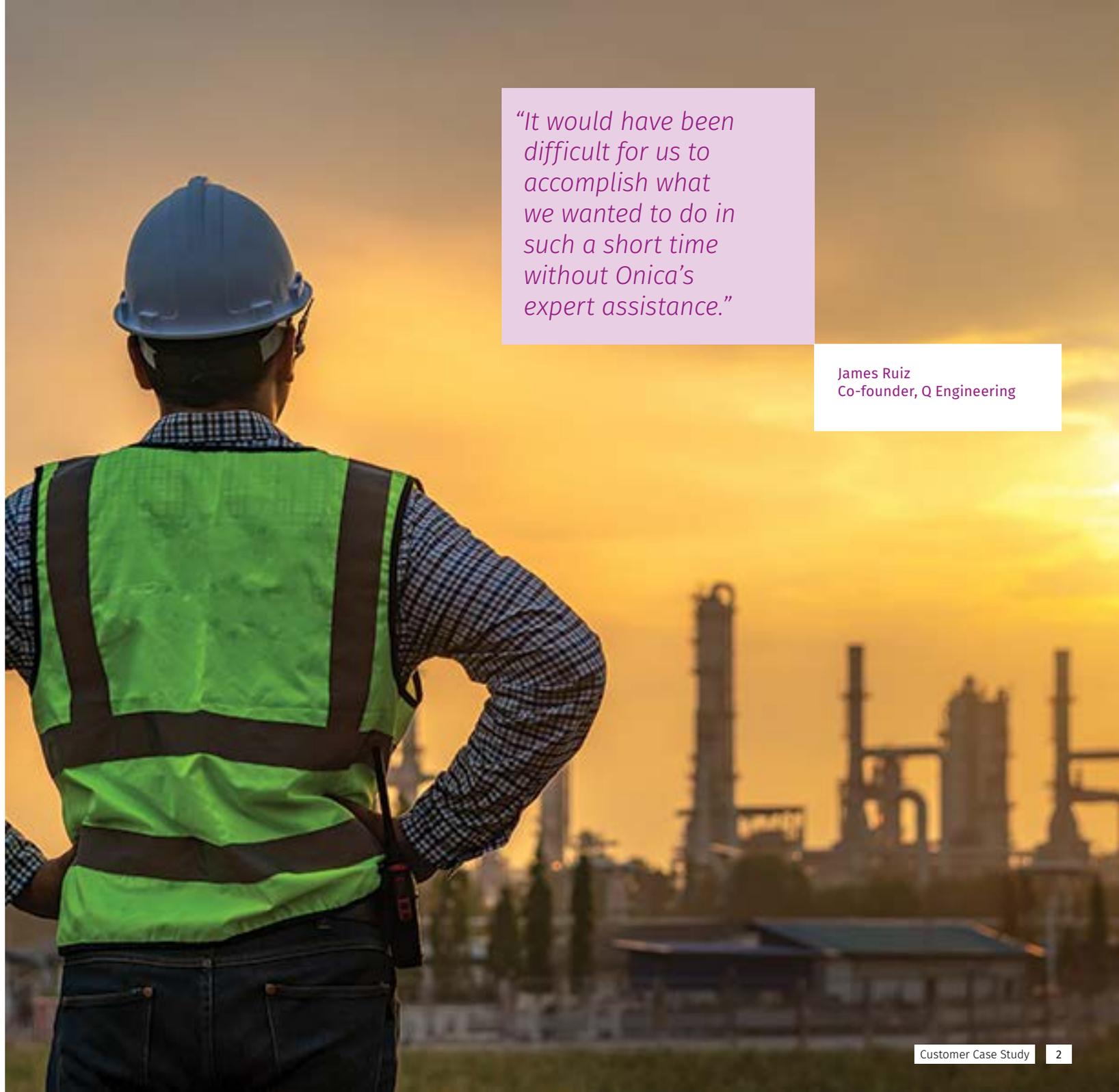
But this required a secure and scalable platform that could support containerized workloads.

Q Engineering first met Onica (a Rackspace Technology company) when they attended an Onica-led Kubernetes demonstration. At that time, the Q Engineering team expressed their interest in deploying a Kubernetes cluster for the business value it could provide, but lacked the time and resources required to learn how to do it themselves.

They wanted a solution with a scalable backend infrastructure and had developed a prototype, but they needed help refining, scaling and deploying it. The team realized that Onica could help them attain their goal of implementing a Kubernetes solution in a short time frame.

“It would have been difficult for us to accomplish what we wanted to do in such a short time without Onica’s expert assistance.”

James Ruiz
Co-founder, Q Engineering



After speaking with an Onica representative, Q Engineering signed up for Onica Cloud OpsPilot, a managed service that provides access to a group of Onica engineers who work collaboratively with the customer, using an Agile development method with work done in defined and measurable sprints.

As part of the ongoing engagement, Q Engineering also receives 24x7x365 cloud support from the same team of engineers, with defined response-time SLAs, helping to ensure any critical needs or issues are resolved rapidly.

Achieving rapid deployment and scalability

Onica developed an Amazon Elastic Container Service for Kubernetes (Amazon EKS) solution, integrated with a CI/CD pipeline based on AWS CodeBuild and AWS CodePipeline. Combining the speed of Kubernetes with a fully integrated pipeline allowed Q Engineering to rapidly deploy an application.

“They helped us define our vision for the Kubernetes cluster on AWS that we wanted to deliver to our customers and built exactly what we needed,” explained Q Engineering Co-founder James Ruiz.

The unparalleled scalability of Kubernetes on AWS allows for handling current and future workloads without concern, in addition to migrating legacy applications to the Amazon EKS cluster with ease.

“It would have been difficult for us to accomplish what we wanted to do in such a short time without Onica’s expert assistance,” Ruiz added.

Tapping into expert-led collaboration and training

Onica and Q Engineering worked together as a team on this project, with Onica providing training during development. The team held weekly work sessions, during which subject matter experts provided insight into what they were doing and also how Q Engineering could optimize their workflow.

“By having Onica do all of the back-end infrastructure, it allowed us to accomplish what a team five times our size could accomplish. It’s been a great relationship working with Onica.”

James Ruiz — Co-founder, Q Engineering

Onica trained Q Engineering staff on how to use their code pipeline to update clusters with new code in order to test and roll out to production. In addition to this, updates to production servers, instances and the backend were automated by Onica.

This accelerated Q Engineering’s development process tremendously compared to their old method, and reduced update windows from hours to minutes. Onica was also there to assist in troubleshooting and resolve blocking issues that Q Engineering encountered.

“By having Onica do all of the back-end infrastructure, it allowed us to accomplish what a team five times our size could accomplish,” said Ruiz. “It’s been a great relationship working with Onica.”

About Rackspace Technology

Rackspace Technology is the multicloud solutions expert. We combine our expertise with the world’s leading technologies — across applications, data and security — to deliver end-to-end solutions. We have a proven record of advising customers based on their business challenges, designing solutions that scale, building and managing those solutions, and optimizing returns into the future.

As a global, multicloud technology services pioneer, we deliver innovative capabilities of the cloud to help customers build new revenue streams, increase efficiency and create incredible experiences. Named a best place to work, year after year according to Fortune, Forbes, and Glassdoor, we attract and develop world-class talent to deliver the best expertise to our customers. Everything we do is wrapped in our obsession with our customers’ success — our Fanatical Experience™ — so they can work faster, smarter and stay ahead of what’s next.

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