RCH SOLUTIONS

Embracing the Cloud:
How the Right Advice and Guidance Helped Takeda Create a Scalable and Secure Compute Environment

About Takeda:

Takeda is a patient-focused, innovation-driven global pharmaceutical company that builds on a distinguished 235-year history, aspiring to bring better health and a brighter future for people worldwide.

This case study outlines how RCH Solutions helped Takeda embrace the Cloud for its scientific computing needs without disrupting businesses reliant on on-prem solutions.

Challenge

Creating a Foundation for Future Cloud Projects within Businesses that Utilize an On-premise Compute Infrastructure

Takeda has embraced the Cloud (AWS) as a strategic platform for all facets of its business, including numerous R&D areas across the company.

However, evolving their AWS environment for its specialty computing needs, while not significantly impacting the businesses that utilize an on-premises compute infrastructure, was a challenge. The company needed strategic expertise to support the architecture, engineering, and operations of its AWS Cloud, as well as superior execution to build a strong foundation for future growth and scale within the innovation layer of its company.

Unmatched Expertise and Experience in AWS Cloud Computing for R&D

Takeda was in search of a partner that had specialty Cloud computing experience and could help the organization execute challenging projects for various scientific business groups within R&D. Sponsored by Takeda's Global Head of Data Engineering and Emerging Technologies, Jason Tetrault, RCH Solutions was engaged to design, develop, and test integrated services in Takeda's AWS Cloud. Those projects included:

- Architect and Implement a platform to serve as a small molecule registration system, including an associated data warehouse

- Database Migration, including the design, development, and testing of integrated services in AWS for disparate database systems (MySQL, PostgreSQL, and Oracle RDBMS)

- Support and Operations of the Turbot (www.turbot.com) software platform to ensure proper security and governance within AWS

- An Experienced Partner for engineering or refining computing at scale, high-performance computing, and big data/analytics projects in the Cloud

RCH worked directly with the internal IT staff, research scientists, and application vendors to provide the optimum scalable solution for this highly visible, dynamic environment. The projects included important application testing from a variety of sources, a comprehensive plan, with clearly stated deliverables, and a fully accountable partner

| Results

A Stable and Scalable Cloud Platform For Continued Growth and Success

As a result of RCH's strong partnership, Takeda further stabilized its AWS Cloud environment and built a strong foundation for the future development of key scientific computing workflows.

> "The support provided by RCH Solutions was far more specialized than other providers I have worked with to date," said Tetrault. "Their expertise, experience and commitment to meeting our goals was critical to the success of our AWS Cloud effort and as a result, we've continued to rely on their services to help advance our broader compute initiatives."

Today, Takeda's internal IT team, alongside RCH Solutions as its Managed Services provider, continues to deliver accurate and timely solutions for several demanding business units in support of scientific initiatives, and it is well-positioned to leverage its AWS Cloud environment to its full potential.

About RCH Solutions

RCH Solutions (RCH) is a global provider of computational science expertise, helping Life Sciences and Healthcare companies of all sizes clear the path to discovery for more than 30 years. Learn more at www.rchsolutions.com.

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Contact the RCH team to learn how we can support your advanced scientific computing and IT needs.
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