



AWS Spotlight: Big Data Leads to Big Challenge for Biotech Pioneer

After spinning off from a large pharmaceutical company, a fast-rising therapeutics organization needed an AWS environment capable of supporting and scaling their machine learning-enabled drug discovery research efforts. But not just any AWS environment—one that could keep pace with their sky-rocketing data volumes while controlling costs and adhering to best practices. That's where ConRes came in.

Business & Technology Challenges

For the organization, scaling their research efforts wasn't as simple as just spinning up a few more AWS instances. What they needed was far more complex, a solution that could host and secure their ever-growing stores of research data and reduce time-intensive data processing for their scientists. Not to mention, one that could also keep cloud spend in check in the face of business growth.

Challenges at a glance:



*Small team
with limited IT
expertise*



*Growing data
volumes*



*Time-intensive
data processing*



*Early-stage
knowledge of AWS
best practices*



*Securing data
in and out of
the cloud*

How ConRes Responded

Given the scalability and resource challenges facing the therapeutics innovator's small team of data scientists, ConRes turned to automation. We devised an integrated solution encompassing AWS S3 and AWS Lambda technologies, which automated data processing tasks and replicated on-prem data to a secure environment in the cloud. Not only did this solution increase the scale and capacity of the organization's data storage, but it also added security and resilience to their research efforts.

Of course, growing data volumes often raise concerns about higher costs and greater resource sprawl across AWS environments, and the organization was not immune to these concerns. Fortunately, partnering with the ConRes cloud team helped bring their AWS environment to a scalable state that met best-practice standards for resource utilization and security.

Solution at a glance:



*Secure, scalable data
storage in AWS*



*Automated data
processing*



*AWS best
practice expertise*



*Cloud usage and
spend optimization*

The result? An AWS environment built to drive groundbreaking drug discovery research. According to the organization's IT & DevOps associate, resiliency, security and scale are three words to describe the benefits of working with ConRes to optimize their AWS environment. He said:

"We're definitely flying right now. We're way more efficient and resilient. Instead of needing four or five data scientists to run data manually, now one person can have the results in hours, not weeks."

-IT & DevOps Associate

In addition to the greater peace of mind delivered by more scalable, secure cloud storage and an optimized AWS environment, the organization has also optimized their cloud utilization and reduced their spend, ensuring cloud concerns will not stand in the way of the world's next big drug discovery.



About ConRes

As a private, women-owned IT solutions provider, we are uniquely positioned to help companies design, procure, implement and support custom solutions. Backed by over 55 years of customer dedication, our approach is simple: We have great people who are highly skilled at what they do and find ways to help our customers achieve business goals.

