



Migrating Health Data to AWS Cloud

Case Study



partner
network

SaaS Architecture
Competency

Diagnostic neurology testing on HIPAA-compliant cloud, opening new commercial & clinical markets worldwide

Discover how Neurotech, the world leader in online diagnostics for attentional disorders, migrated its health data to the AWS Cloud. Learn about their path to the cloud, enhanced security and compliance, and the benefits of adopting a SaaS model.



INDUSTRY

Healthcare, HCM/EPM

SOLUTION

Cloud Migration,
24×7 Monitoring
& compliance

CLIENT

Neurotech



CloudGeometry

Neurotech

Neurotech is the world leader in online diagnostics for attentional disorders, aka ADHD. Based on cutting-edge neuroscience, its cloud software helps test symptoms, both for children and for adults. MOXO helps pediatric specialists and parents to treat children in a clinical setting. The science could also be applied outside the clinical setting, offering HR professionals tools to apply the science to assess workplace performance and human capital.

The Challenge

Though the company's diagnostics have worked for hundreds of thousands of patients, the browser-based application ran on a monolithic LAMP stack and its data store. Modern clinical practice required better security and compliance integration. And HR professionals in a corporate setting presented a new market with different application needs. The business needed a path to the cloud, both to relieve technical debt and use a SaaS model to pursue growth.

The Solution

Neurotech recognized that taking a direct path to cloud computing offered a new, more effective way to access and use these powerful tests and the algorithms behind them. Working from the AWS Cloud Adoption Framework helped establish a roadmap for refactoring the software stack as a distributed workload. Through a step-by-step approach to cloud-native modularization of the application and database layer, CloudGeometry developed and implemented a step-by-step migration plan, including database migration via AWS DMS. Iterative development enabled shorter, more frequent cycles for adding features or UX improvements for new markets and customers.

[CloudGeometry Monitoring Security & Compliance](#) continuously and fixes code and configuration for all cloud service interfaces 24x7x365, validating against 500+ industry-standard Best Practice checks. For example, HIPAA compliance for clinically sensitive data is validated every time a change to the code is committed.

Shift to a cloud-first model

AWS Cloud Adoption Framework (CAF) provides a path for building from first release to continuous deployments.

Accelerate iterative development

Zero in on improving operational transparency and resilience, to tackle more ambitious innovations.

Continuous global cloud operations

Ensuring reliable security, compliance, and monitoring to unlock cloud platform power.

Neurotech

The Benefits

Tackling a cloud migration start to finish opened new business models for Neurotech, such as the AXON SaaS product for Employee Performance Management, and expansion to the education market with a Joint Venture with the government of China.

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Technology Solutions & Services

to build, optimize and run your cloud software and operations.



TECHNOLOGY SOLUTIONS

APPLICATION MODERNIZATION

Transform Legacy Systems for Future-Ready Innovation

CLOUD COST MANAGEMENT

Optimize Cloud Spending for Maximum ROI and Efficiency

AI & DATA

Achieve breakthrough automation and analytic insights via cutting-edge data strategies

SECURITY AND COMPLIANCE

Reinforce your cloud infra, workload, operations, and development end-to-end

FOUNDATION SERVICES

CLOUD INFRA & OPS

Robust Infrastructure Solutions for Seamless Operations

- DevOps as a Service
- Managed Cloud Operations
- Cloud Spend Optimization
- Resilience, Continuity & Backup
- AWS Well-Architected

MODERNIZATION & MIGRATION

Smooth Transitions to Modern Architectures with Minimal Disruption

- Application Modernization
- Kubernetes Adoption
- AWS Database Migration
- Data Engineering Operations
- Data Integration
- Data Migration
- Cloud Migration & Adoption

ADVANCED SERVICES

CLOUD-NATIVE DEVELOPMENT

Build Scalable, Resilient Applications with Cloud-Native Technologies

- CI/CD
- Multi- Platform App Design & Development
- Cloud-Ready Teams
- Enterprise SaaS Modernization
- Multi-Tenancy SaaS
- B2B Customer Success Engineering

CLOUD-NATIVE OPERATIONS

Streamline Operations with Advanced Cloud-Native Practices

- Platform Engineering
- Workload Management
- Monitoring & Observability
- Infrastructure Management

AI/ML & DATA SERVICES

AI/ML & DATA

Leverage Advanced Analytics and Machine Learning to achieve exponential acceleration in the ROI of your data assets

- AI/ML Engineering for Data Analytics
- Generative AI
- Traditional ML for Data Analytics
- AI/ML Development and and Data Science
- Data Engineering for MLOps



CloudGeometry delivers expert technical services, helping our clients unlock the full potential of cloud-native open source tooling and commercial platform technologies.

With roots in Silicon Valley, we've seen firsthand what works (and what doesn't). Count on CloudGeometry to accelerate application modernization, Kubernetes adoption, developer enablement, secure multi-tenancy, AI/MLOps, DevOps automation and more.

- As **AWS Advanced Consulting** partners, our certified solution architects and platform engineers help address the range of challenges facing enterprise innovators and venture funded startups alike.
- The **Cloud Native Computing Foundation** has accredited us as a **Kubernetes Certified Service Provider**.
- We serve as charter contributors to the **Linux Foundation Data & AI Commons** (LF Data & AI), supporting a diverse, sustainable ecosystem for open source data and AI technologies.

Over the last decade, we've built and deployed hundreds of big, fast full-stack apps with well-engineered cloud infrastructure across industries: Financial Services, Industrial Automation, Healthcare, AdTech, Consumer-grade Mobile, smart devices, and more.

From enterprise upgrades to data engineering to cloud-native scale-out, CloudGeometry helps you plot the shortest path across all dimensions of modern cloud software engineering.



Advanced
Consulting
Partner

SaaS

Amazon Kinesis

AWS Lambda

Amazon Redshift

AWS Database
Migration Service



CLOUD NATIVE
COMPUTING FOUNDATION

GENERAL MEMBER
LF AI & DATA
GENERATIVE AI COMMONS



Expert
Platform Engineering
& DevOps

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AI & Machine Learning
Data Services

Open Source
Tooling & Integration



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SaaS Architecture
Competency