

# **Benefits Summary**



Enhanced Application Visibility and Centralized Dashboard



Improved Uptime and Application Reliability



Managed IT Services for SRE and DevOps



## **About Nevro**

Nevro, a rapidly expanding medical device company established in 2006, is dedicated to providing lasting relief to patients suffering from chronic pain. Its flagship product, HFX, is a small implantable device that safely and effectively reduces pain and improves patients' quality of life.

# **Industry**

Healthcare, Healthtech, Health Diagnostics, Pharmaceutical

## Location

**USA** 

#### **Featured Services**

Application / Infrastructure Modernization,
Data & Analytics, Managed Services, Migration

# Service Page Links

- Migration and Modernization Services
- Managed Services



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# **Executive Summary**

To support their growth and ensure the reliability and availability of their critical services, Nevro partnered with nClouds and leveraged the power of Amazon Web Services (AWS), with a key focus on enhancing observability through a highly effective centralized dashboard for better visibility, and a remarkable boost in uptime and application reliability.

## **CHALLENGE**

# Need for proper SRE, monitoring system, and support for DevOps

As Nevro experienced rapid growth, they recognized the need for a robust Site Reliability Engineering (SRE) and monitoring system. They required a solution to ensure the reliability and availability of their services and to support their internal DevOps team for seamless operations. A core requirement was to improve observability to gain deep insights into their systems and applications.





# Why AWS and nClouds

nClouds, a Premier Tier Services Partner and Well-Architected Partner in the AWS Partner Network, possesses vast experience and knowledge in constructing and administering intricate cloud environments on AWS. As a result, Nevro found nClouds to be the perfect partner, as it was capable of delivering the essential guidance and assistance required to devise and execute a solution that fulfilled its unique needs.

Nevro wanted to improve its observability capabilities to better monitor its systems and applications for any issues and gain insights into performance. It needed help with automating its infrastructure deployment and management using Terraform to improve efficiency and reduce the risk of errors. Finally, Nevro needed help with managing its Windows environments on AWS Elastic Beanstalk.

Overall, the combination of AWS and nClouds' expertise and experience made them an ideal choice for Nevro, providing a comprehensive solution for all its challenges and needs.

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# nClouds' Solution Architecture for Nevro

To address Nevro's technical and business challenges, nClouds utilized AWS and third-party services to provide a comprehensive solution, including AWS Elastic Beanstalk, Windows Containers, Datadog, and AWS Application Load Balancer (AWS ALB).

#### Web Portal APIs Titan Frontend Web Portal Web Portal Titan Frontend okta ← Web Repor GAEA APIS PTA APIS Web Porta PTA ogrammir Instructions micro services for MQTT processing instructions

Titan Backend

## **AWS Elastic Beanstalk**

With AWS Elastic Beanstalk, Nevro can quickly deploy and manage its web applications, including its pain management software, without needing to worry about the underlying infrastructure.

Elastic Beanstalk provides an environment for developing and testing applications and then automatically deploys them to the appropriate servers. This means that Nevro can easily scale its application up or down as needed to meet changing demand.

## **Windows Containers**

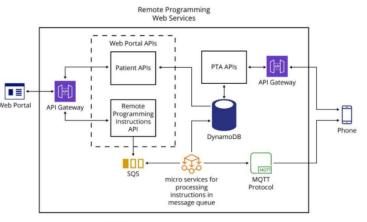
Windows Containers help Nevro achieve greater flexibility, scalability, and security in its application infrastructure, enabling it to better meet the needs of its customers and business requirements. This tool allowed Nevro to package its Windows-based applications and dependencies into containers that can be deployed on AWS. By migrating to containers, Nevro was enabled to modernize its web portal.

# **Datadog**

Datadog helps Nevro ensure its applications and infrastructure are performing optimally while allowing Nevro to identify and address issues quickly and efficiently. As a monitoring and analytics tool, Datadog allows Nevro to monitor the performance of its software applications and the infrastructure on which its applications run.

# AWS Application Load Balancer (AWS ALB)

AWS Application Load Balancer (ALB) is a service that provides Nevro with a highly available and scalable infrastructure that can handle large amounts of traffic while ensuring the security and reliability of its applications. AWS ALB helps with load balancing, autoscaling, and advanced routing capabilities.









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## **RESULTS & BENEFITS**

# **Increased Business Efficiency**

The collaboration between nClouds and Nevro, leveraging the power of AWS, delivered significant benefits and enhanced business efficiency, with observability playing a central role:



# **Enhanced Application Visibility and Centralized Dashboard**

nClouds collaborated with Nevro to implement a centralized dashboard, leveraging tools such as Datadog, to provide real-time visibility into their applications and infrastructure. This improved system visibility and enabled data-driven decision-making.



# Improved Uptime and Application Reliability

The implementation of automated processes for infrastructure deployment, testing, and monitoring, driven by the insights gained through enhanced observability, contributed to increased system uptime and application reliability.



# **Managed IT Services for SRE and DevOps**

nClouds managed and maintained the client's infrastructure, allowing Nevro's site reliability engineering (SRE) and DevOps teams to focus on improving their applications and working on new releases.

Through its strategic partnership with nClouds and the adoption of AWS, with a strong focus on observability, Nevro successfully transformed its operations, achieving enhanced reliability, improved efficiency, and greater scalability. This collaboration empowered Nevro to focus on its core mission of providing innovative pain relief solutions, ultimately improving the lives of patients. nClouds' expertise and AWS's robust platform proved to be the ideal combination, delivering a comprehensive solution that met Nevro's unique challenges and positioned them for continued success in the dynamic healthcare industry.



ABOUT **nClouds** 

nClouds is a certified, award-winning provider of AWS and DevOps consulting and implementation services. We partner with our customers as extensions of their teams to build and manage modern infrastructure solutions that deliver innovation faster. We leap beyond the status quo.