

A woman with long brown hair, wearing a white lab coat and blue safety glasses, is shown in profile, looking down and to the left. She is holding a pipette. The background is a blurred laboratory setting with various equipment and containers. The text is overlaid on the left side of the image.

Accelerating Cloud Infrastructure for a Pharmaceutical Company: From Stabilization to GxP-Compliant Delivery

Reducing Build Times by Over 90% While Meeting GxP Standards for Mission-Critical Cloud Infrastructure in a Highly Regulated Environment



Overview

Novo Nordisk, a global leader in healthcare, required a solution to stabilize and optimize a mission-critical cloud infrastructure service responsible for delivering Infrastructure-as-Code (IaC) templates on both Azure and AWS. These templates needed to meet GxP requirements, ensuring compliance and quality in a regulated environment.

Poly Consulting was brought onboard to address these complex requirements and to deliver a reliable, efficient, and compliant infrastructure solution.

Poly Consulting exceeded expectations by not only stabilizing the service but also dramatically improving performance. Their technical expertise and understanding of GxP compliance requirements allowed them to operate effectively within Novo Nordisk's stringent regulatory framework, ultimately reducing build times from 1.5 hours to just 15 minutes.





Business Challenge

Navigating a Highly Regulated GxP Environment

- Novo Nordisk's cloud infrastructure service operates within a stringent regulatory framework, adhering to GxP standards. Compliance with GxP involves detailed documentation, rigorous testing, and quality assurance processes to ensure patient safety and product reliability.
- Poly Consulting faced the challenge of maintaining high development speeds without compromising on regulatory requirements. Every change to the infrastructure needed to align with GxP standards, requiring meticulous planning, execution, and documentation. Achieving this balance between speed and compliance was critical for ensuring project success.

Complex and Inefficient Technical Architecture

- The existing cloud infrastructure featured a highly complex architecture, contributing to prolonged build times and limiting operational efficiency. This complicated system required extensive expertise to fully understand, optimize, and streamline without disrupting daily operations.
- Long build times (up to 1.5 hours) created delays in development cycles, affecting productivity and stakeholder satisfaction. Poly's team needed to simplify this intricate architecture to make it more maintainable and scalable, while also reducing build times significantly—a challenging task in a regulated environment.



Business Challenge

Rapid Talent Onboarding and Value Delivery

- The project required specialized expertise in cloud infrastructure, regulatory compliance, and GxP standards. Poly Consulting faced the challenge of quickly sourcing and onboarding professionals with the right skill set to fit Novo Nordisk's highly regulated environment.
- Novo Nordisk needed a partner who could deliver results immediately while respecting budgetary constraints. Poly Consulting had to ensure that the team was fully operational from day one, delivering measurable value and addressing project requirements without delay.

Balancing Scalability with High-Speed Delivery

- Novo Nordisk's cloud infrastructure needed to be stable and scalable, supporting future growth while remaining easy to maintain. However, building a scalable solution while simultaneously reducing build times and simplifying architecture required careful balancing.
- Poly Consulting needed to optimize the infrastructure for current performance demands while ensuring flexibility for future expansions. This included implementing improvements that would not only reduce build times but also support long-term maintainability without increasing complexity.



“I was especially impressed by their ability to communicate effectively with our line-of-business customers. They quickly understood our needs and translated them into precise technical requirements, delivering superb technical solutions. I highly recommend Poly for sourcing technical staff for cloud development, especially in regulated GxP environments.”

John Michael Howell
Product Owner
Novo Nordisk



Transformation

Our Approach

Service Stabilization and Ownership

Poly's consultants took full ownership of stabilizing the cloud infrastructure, ensuring that the IaC templates met GxP standards without sacrificing speed or quality. They quickly integrated into Novo Nordisk's team, gaining a deep understanding of the regulated environment and aligning with internal processes to achieve consistent, compliant service delivery.

Technical Architecture Simplification

Poly Consulting's team analyzed the existing technical architecture and identified inefficiencies that contributed to extended build times. By implementing strategic adjustments and simplifying the architecture, Poly reduced template build times from 1.5 hours to just 15 minutes, significantly improving operational efficiency and enabling faster project delivery.

Effective Communication and Requirement Translation

Poly's consultants engaged with Novo Nordisk's line-of-business customers to fully understand their needs. The team then translated these business requirements into technical specifications, ensuring that the IaC templates met end-user expectations while staying aligned with regulatory demands.

Efficient Onboarding and Value Delivery

Poly Consulting prioritized efficient onboarding, respecting Novo Nordisk's budget and ensuring that their consultants began delivering value from day one. With a commitment to quality and speed, Poly's team demonstrated an immediate impact, contributing to accelerated project timelines and delivering high-quality results within the client's financial parameters.



Build Time Reduction

90%

Reducing Build Times by Over 90% While Meeting GxP Standards for Mission-Critical Cloud Infrastructure.

Stabilized GxP-Compliant Environment

GxP

Meeting all GxP compliance requirements essential to Novo Nordisk's regulated environment.



“Poly consultants stabilized our critical cloud infrastructure service, and they exceeded our expectations. Working within our regulated GxP environment, they demonstrated remarkable ownership and commitment. Their expertise allowed them to simplify a complex technical architecture, reducing our build times from 1.5 hours to just 15 minutes—a transformation that greatly improved our operations.”

John Michael Howell
Product Owner
Novo Nordisk



Results

Poly Consulting's expertise in technical recruitment, cloud infrastructure, and GxP compliance made them the ideal partner for Novo Nordisk.

Their approach to simplifying complex architecture, engaging effectively with stakeholders, and delivering immediate, budget-conscious results ensured the success of this mission-critical project.

By finding the right talent and accurately interpreting Novo Nordisk's needs, Poly Consulting enabled a seamless and impactful transformation of their cloud infrastructure.

Build Time Reduction: Poly's optimizations reduced IaC template build times from 1.5 hours to just 15 minutes, dramatically improving system responsiveness and enabling faster iterations.

Stabilized GxP-Compliant Environment: The stabilized service now provides reliable, qualified IaC templates for AWS and Azure, meeting all GxP compliance requirements essential to Novo Nordisk's regulated environment.

Enhanced Stakeholder Satisfaction: By effectively communicating with line-of-business customers and translating their needs into technical specifications, Poly improved stakeholder satisfaction and ensured that technical solutions aligned closely with business objectives.

Immediate Value Delivery: Poly's consultants quickly integrated into the team and began delivering results immediately, respecting the client's budget and time constraints.



Novo Nordisk A/S

Novo Nordisk is a leading global healthcare company, founded in 1923 and headquartered in Denmark.

Its purpose is to drive change to defeat serious chronic diseases, built upon heritage in diabetes. They do so by pioneering scientific breakthroughs, expanding access to medicines, and working to prevent and ultimately cure disease. Novo Nordisk employs about 66,000 people in 80 countries and markets its products in around 170 countries.

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Produced in Copenhagen, Denmark 2024.

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