



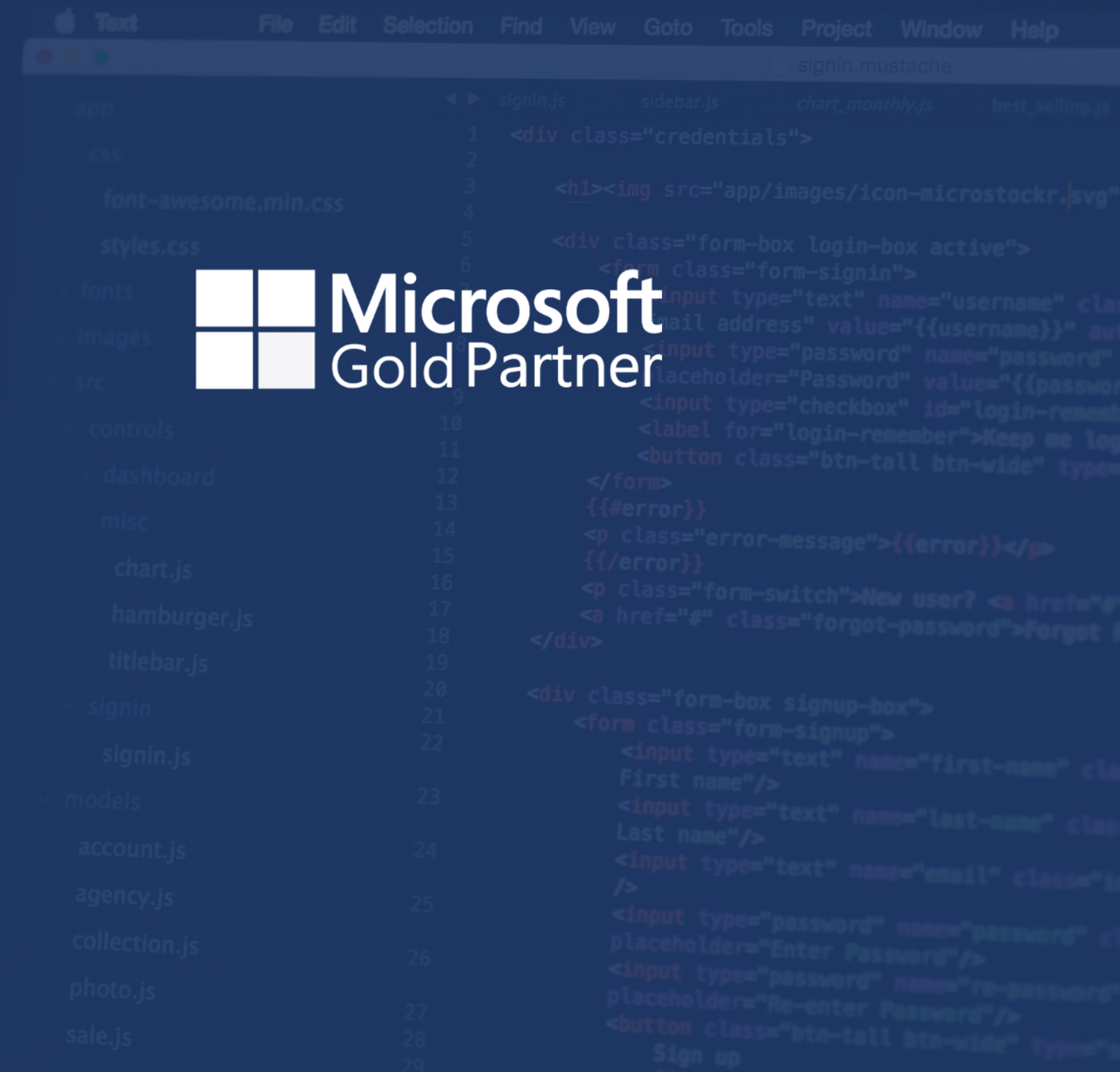
New York USA
London UK
Munich Germany
Zug Switzerland

DataArt and Microsoft



PARTNERSHIP HIGHLIGHTS

- › Microsoft Gold Partner
- › 2000+ Certified Developers, Architects, and DevOps
- › Partner since 2000
- › North America, UK, EMEA
- › Cloud-based platforms and applications
- › In-house data warehousing
- › Cloud solutions in Azure
- › Native mobile solutions
- › Robust and scalable backend solutions



Microsoft Stack

Most modern enterprises rely on **Microsoft technologies**, from business intelligence and productivity systems, to data management and development tools.

DataArt has extensive experience with Microsoft stack and helps clients **develop, integrate and optimize** Microsoft-based solutions that **drive innovation and growth**.



Azure
Windows & Devices
Application Development
Cloud Platform SQL Server
Dynamics 365 Office 365
SharePoint
Collaboration & Content
.NET Datacenter
DevOps

2000

Partner since 2000

3000+

Projects

2000+

Dedicated Microsoft professionals

Working **across industries**, DataArt designs and scales
Microsoft solutions that drives customer transformation.



Finance



Insurance



Retail &
Distribution



Travel &
Hospitality



Healthcare &
Life Sciences



Media &
Entertainment

DataArt and Azure



PARTNERSHIP HIGHLIGHTS

- › Azure consulting partner
- › 30+ Certified Developers, Architects, and DevOps
- › Building in Azure since 2011
- › North America, UK, EMEA
- › Cloud platform design
- › Cloud migration planning and implementation
- › Hybrid cloud, cloud native, and cloud agnostic scenarios
- › Monitoring and logging solutions



Microsoft Azure



Azure Key Competency Areas



Design and implementation of enterprise architecture and infrastructure with various compute services: Azure Functions, VMs, AKS, VNets, KeyVaults, Azure DevOps



Optimization of operations and security: IAM, Azure AD, Azure AD B2C, Azure Monitor



Data management and data warehousing with Storage Accounts, Data Lake, Azure Synapse, Cosmos DB, and others.



BigData and high performance projects with Data Factory, Databricks, Azure Data Explorer, HDInsights



Cost optimization



IoT



ML and AI with CVS, NLTK



Cloud Adoption initiative and coaching

We have proven expertise in areas mentioned, implemented for multitude of client projects.

Azure Consultancy



For those areas of expertise mentioned, DataArt is able to provide following consultancy services:



Infrastructure and security audit based on own expertise and results of Azure native services such as: Azure Monitor, Azure Security Center, Azure Advisor



Cost optimization consultancy



Shape desired state



Migration design, planning and execution



Proof of Concept arrangement

Case Studies

Online Banking and Payment Platform



An innovative U.S.-based provider of payment and money services management selected DataArt as a primary partner for end-to-end system implementation.

Highlights

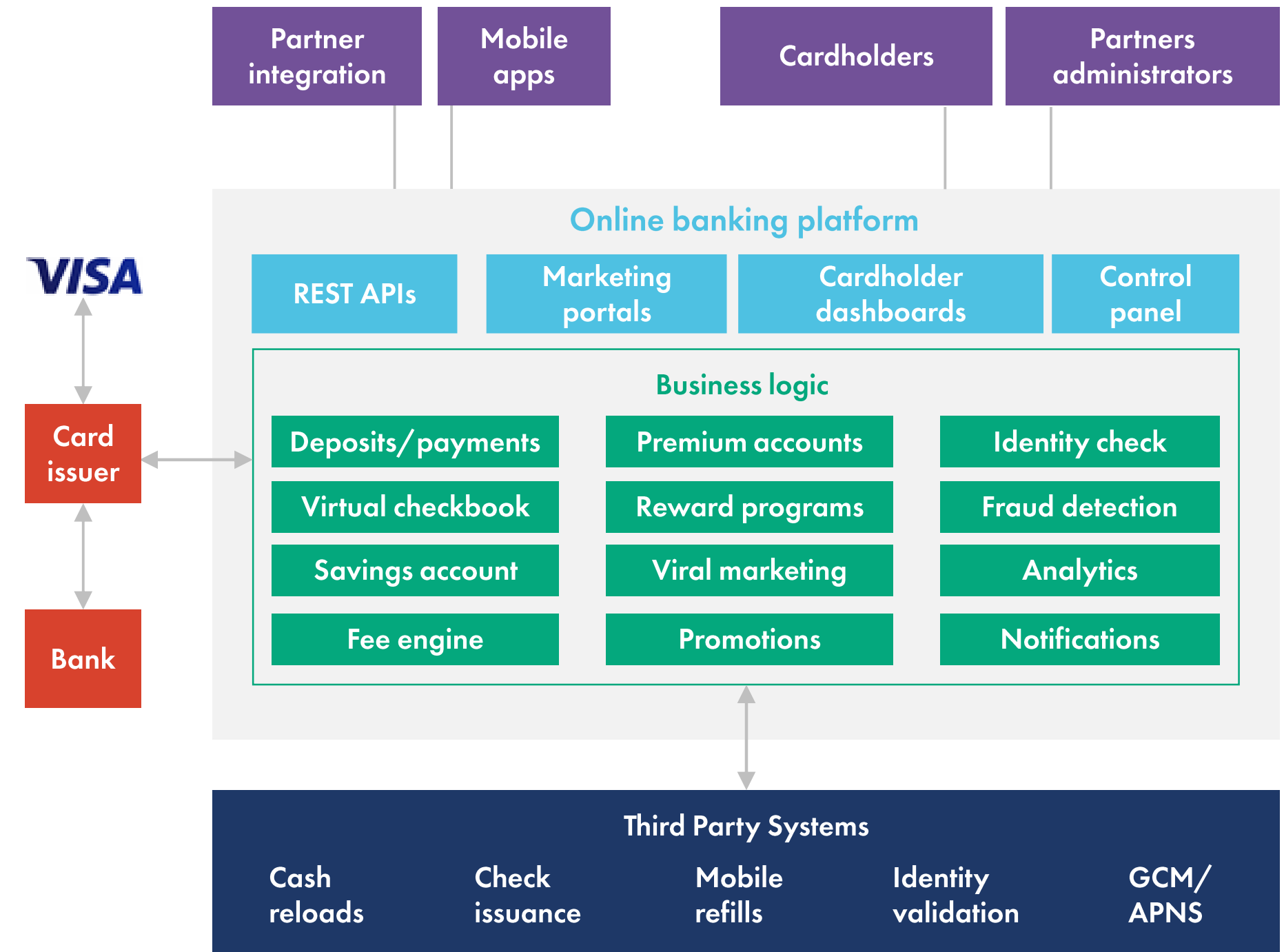
- › Customer portal and mobile application provides users with the ability to add an existing credit card to an account, depositing funds in the account, and making payments for various services
- › Bank & network management
- › Portfolio management
- › Extensive consumer banking services
- › Whitelabeling for businesses and financial institutions to deliver better banking and payment services to their consumers via web and mobile devices under their own brand

Business outcomes

- › System is in production

Technology

- › Microsoft



Data and Portfolio Analytics

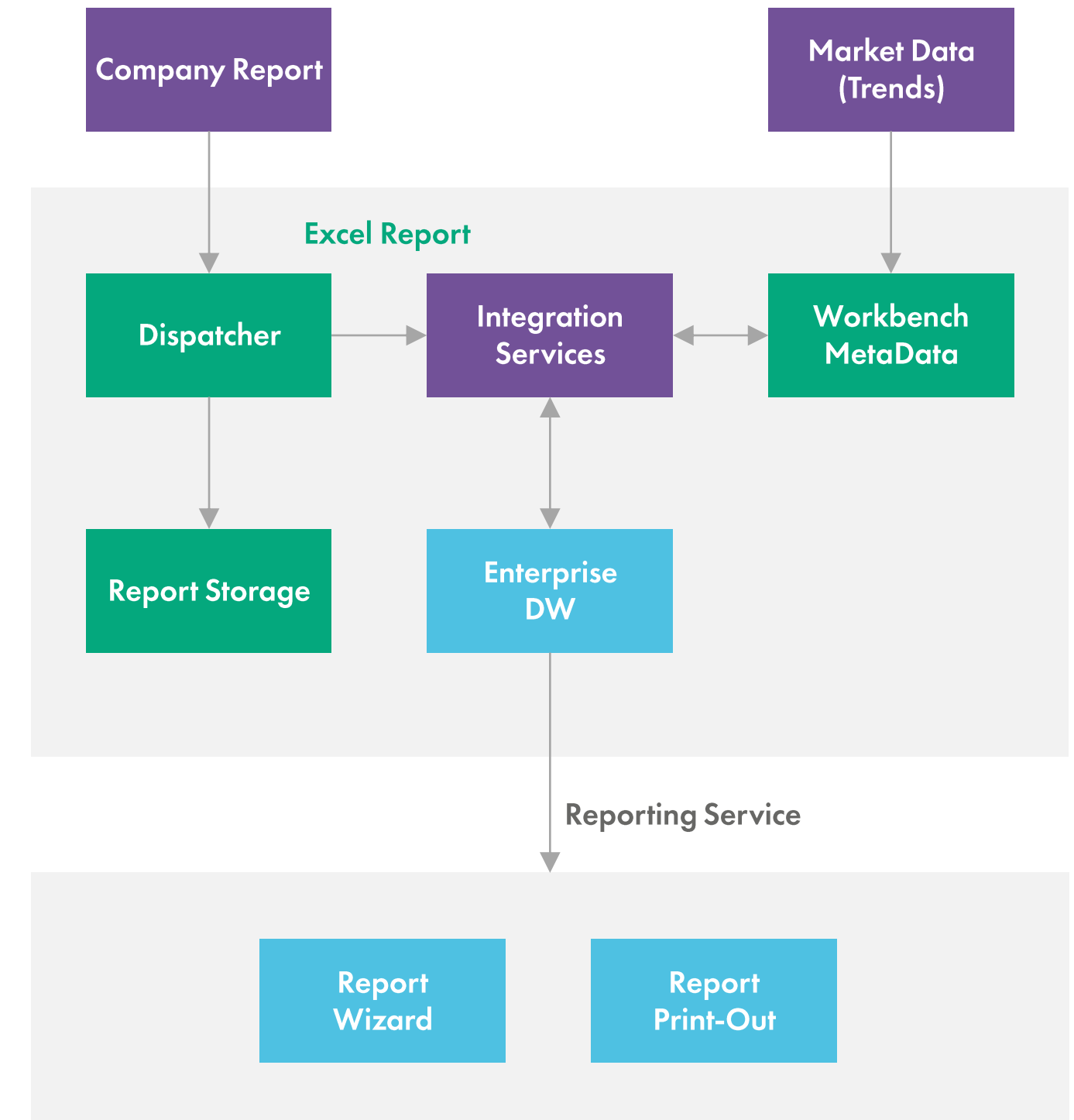
The client wanted to redesign the existing in-house system and to expand its functionality, make it scalable and further provide it as a service to other equity funds.

Highlights

- › Performance monitoring (with a diverse metrics array) for invested businesses
- › All information submitted by portfolio companies is stored in the database and automatically updated information on a client can include up to 150 different details
- › A powerful, user-friendly, centralized server storage with files available in Excel format
- › System supports multiple types of Excel spreadsheet templates
- › Prefabricated, new, custom spreadsheets can contain intricate calculation formulas
- › Report aggregation functionality makes it possible to merge multiple spreadsheets into a single printable file
- › Spreadsheets can be exported to SAC and Microsoft Document Imaging (MDI) format
- › Intricate multi-level approval workflow

Technology

- › Integration with Active Directory, Excel, Cognos, Open ID, Live ID, Sharepoint



Smart Lift-n-Shift from AWS to Azure



The client is a US based company that makes web-based clothes stores plugin. The plugin is used for further communication with end users and is platform agnostic. DataArt has been developing an application for the client for three years and has established great relationships and trust.

The client has been using AWS services, when Microsoft initiated an engagement and provided good discount to use Azure services. DataArt team performed lift-n-shift migration for the client from scratch, moving and adopting all his applications and services to Azure. During Migration, majority of systems were modernized and best practices were implemented.

Technologies and approaches

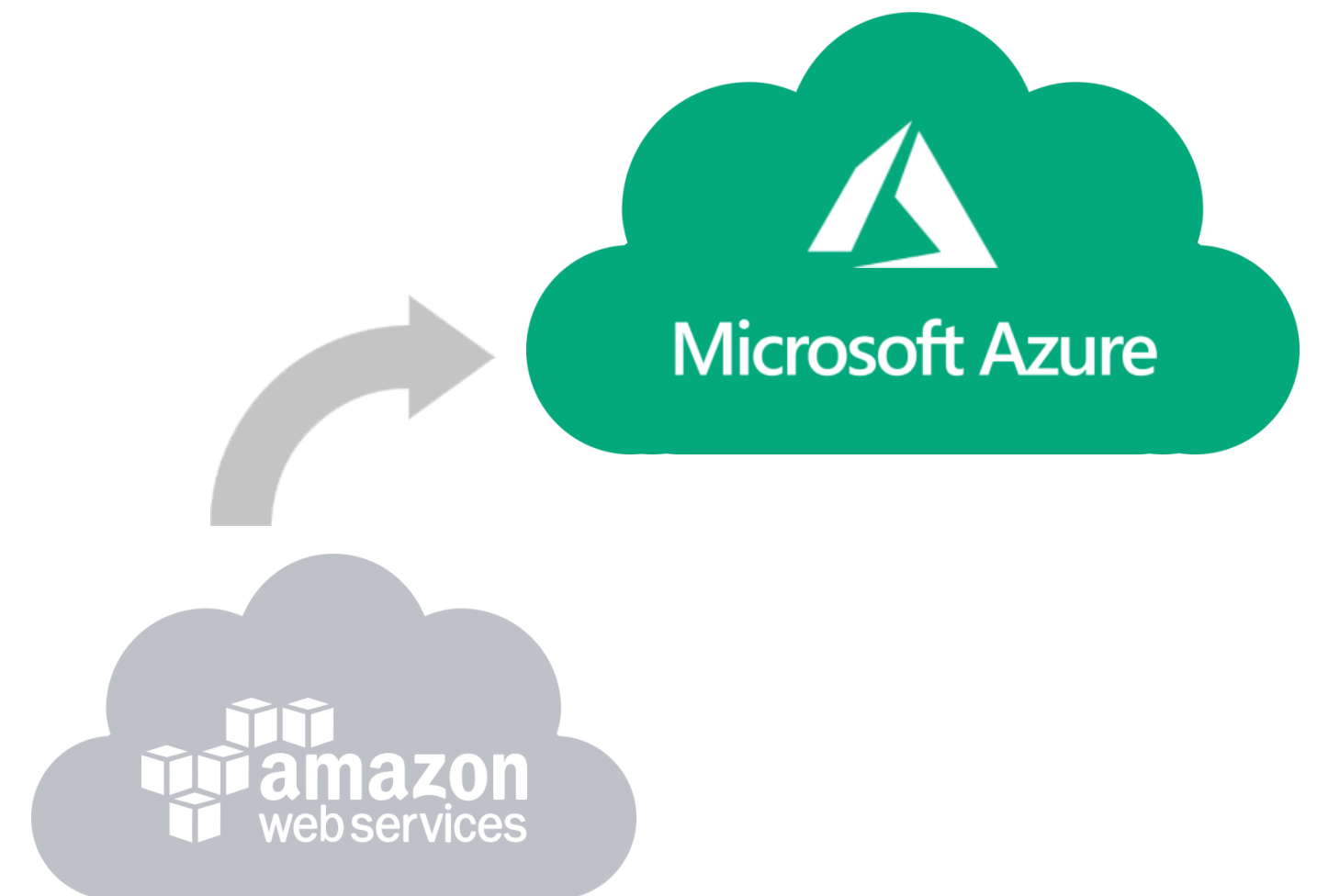
- › AKS K8s orchestration is used in Azure instead of simple Docker containers in AWS
- › Azure DevOps (10 pipelines) is used as CI/CD process instead of Jenkins in AWS
- › Azure Functions are used instead of AWS Lambda functions
- › Other Azure-native services used are Azure Service Bus, Blobs and more

Summary

Smart Lift-n-Shift was performed by DataArt from scratch without any POC or MVP etc. It took a month to perform end-to-end flow from planning till finish of the move.

Business value

The client received a huge costs optimization using Microsoft proposition. In addition, a modernization of client systems was performed, making value stream even better using latest Microsoft Azure Services.



Blockchain-Based Loyalty App for 3M

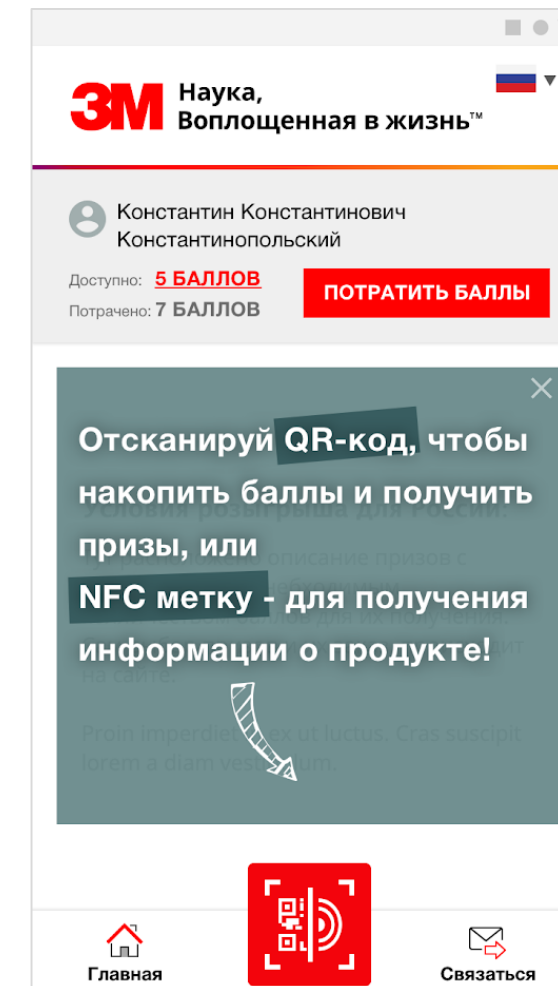


3M is a global corporation that applies science in collaborative ways to improve lives every day. With \$32 billion in sales, its 91,000 employees connect with customers all around the world.

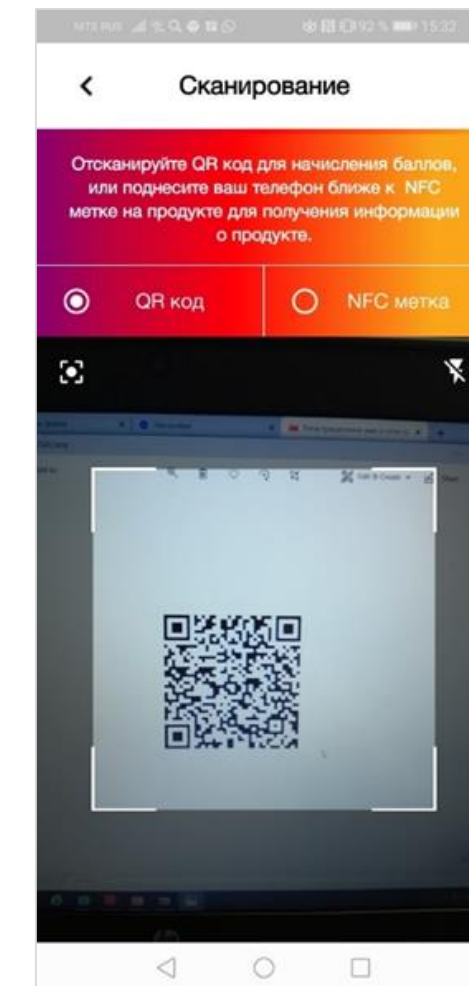
DataArt developed an app that helps 3M chart regional demand and enhance interaction with customers.

Highlights

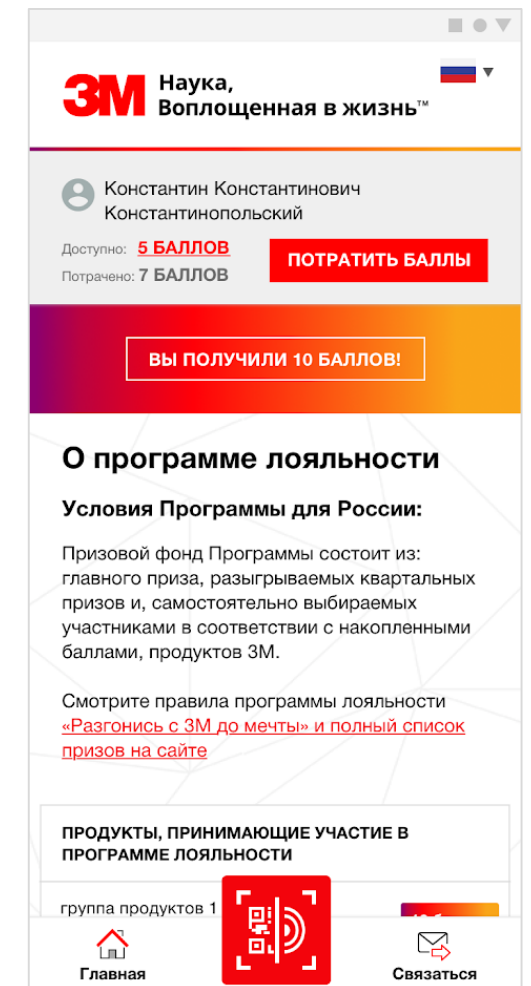
- › Visibility and accountability across supply chains
- › Increased number of products registered in the loyalty program by 4 times; active users – by 3 times
- › Increased end-user loyalty
- › Better understanding of end users and geographical distribution of products
- › 3M Products with RFID NFC labels on blockchain
- › Through the app's NFC (near field communication) technology, 3M customers can access product information and tips on their phones
- › The app is built on a Verisium blockchain platform and Microsoft Azure making all data storage immutable and compliant
- › Always updated content in customers' smartphones
- › Users can message 3M, request further information, or call
- › "Advance with 3M!" loyalty program offering reward points



3M-Auto mobile application



Customers scan QR-codes with 3M-Auto mobile App



Personal Scans History for Every Customer

Analytics Platform for Guest Experience System



The client is a leading hospitality technology solutions company that offers SaaS platform to major hotel groups. The platform offers end-to-end solutions and support, transforming guest experience and improving operational efficiency, leading to higher market share and profit margins.

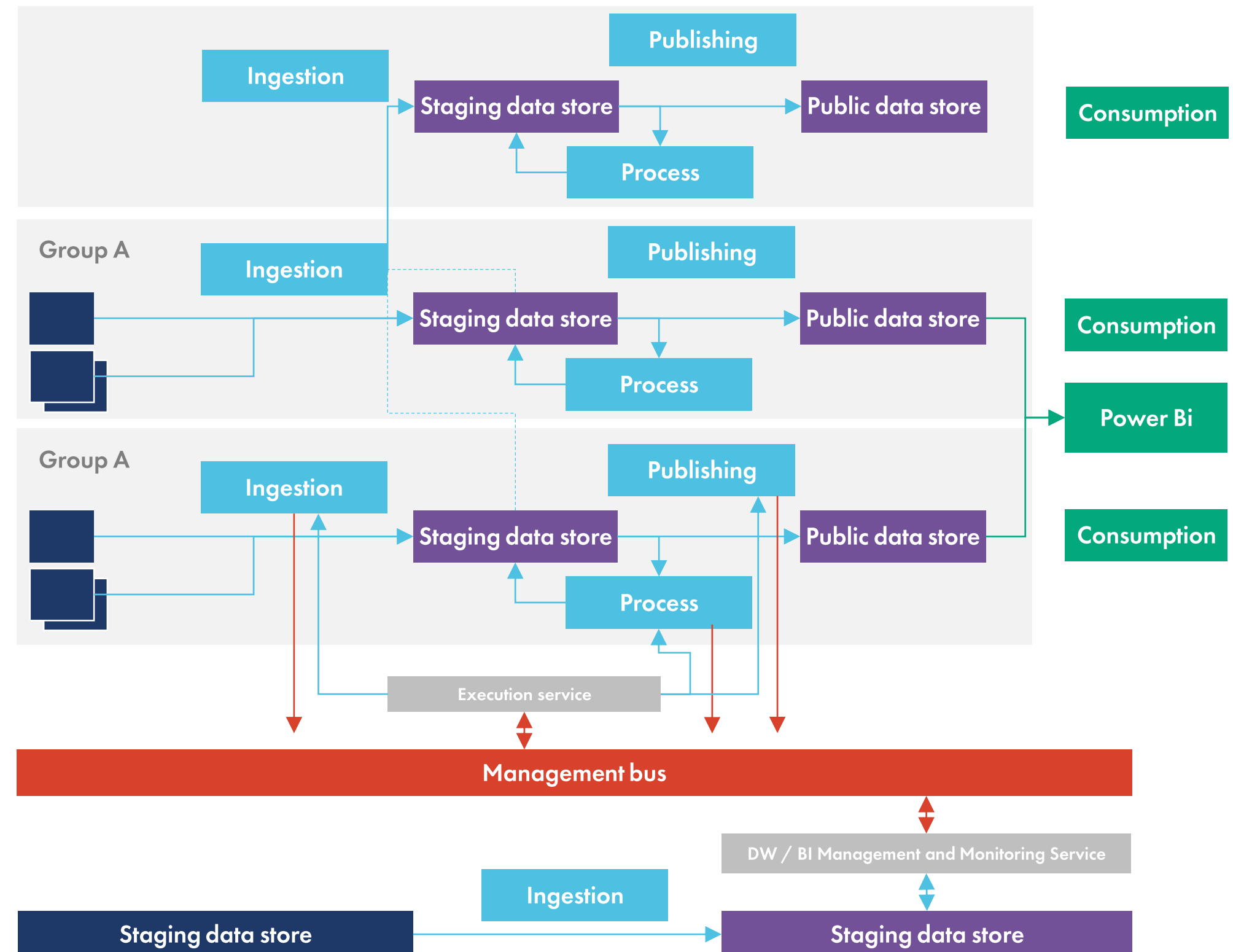
DataArt designed and implemented Data and Analytics components of the platform. Engagement began with POC focused on de-risking core technology decisions, comparing several implementation options (Data Lake + SAAS + DW, Azure Data Warehouse, Traditional Data Warehouse) and validating core requirements fit:

- › Multi-tenancy at database level
- › End-to-end integration data flow
- › Authentication in Power BI
- › Infrastructure cost optimization

Several month later, data and analytics platform based on proposed architecture was successfully implemented.

Technology

Azure, Elastic Database Pool, Functions App, Data Lake and Blob Storage, Power BI Embedded



Commercial Exchange Platform



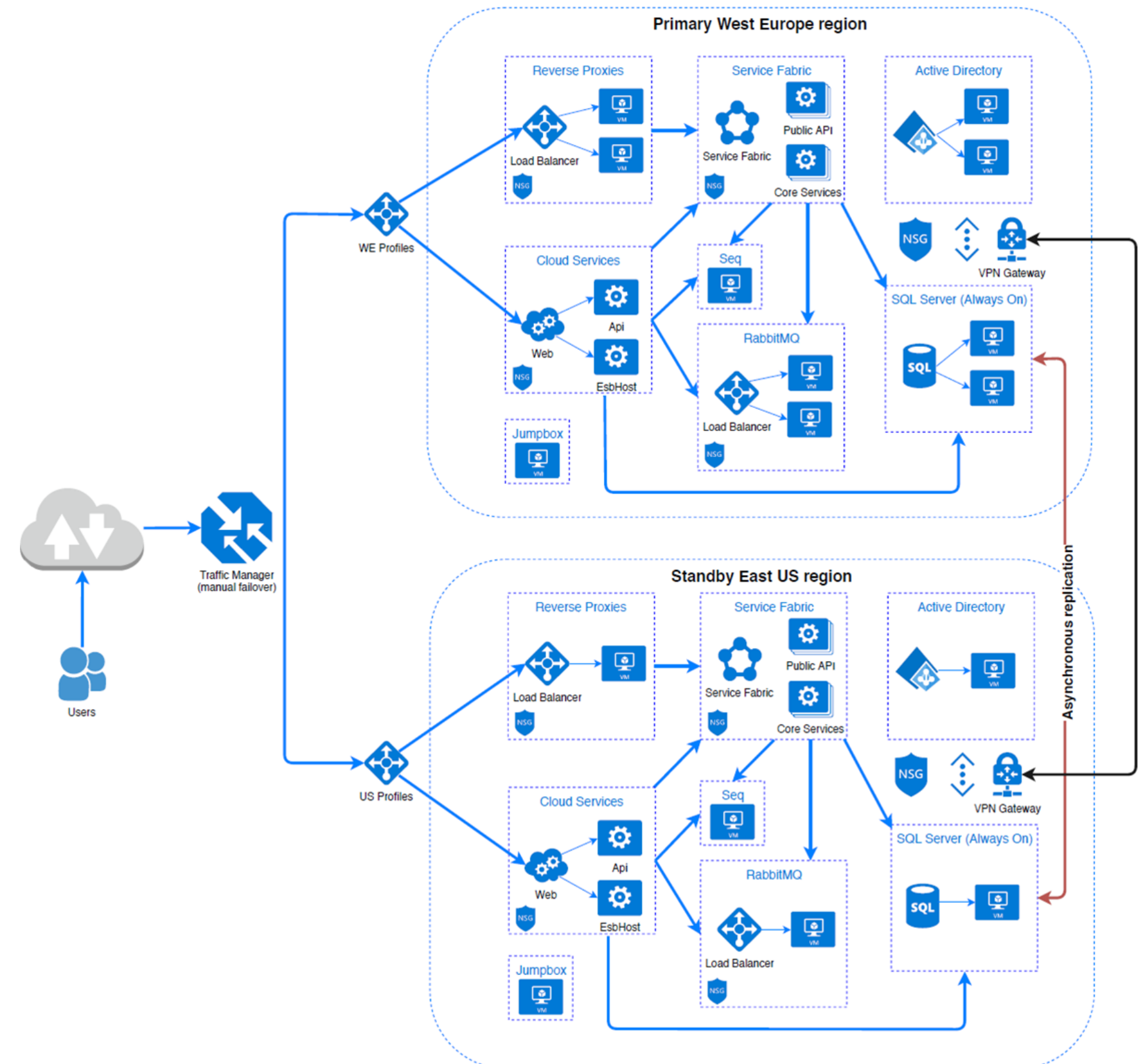
DataArt provided full line of IT Services to Europe's leading FX specialist to design and build a platform that provides confidential, same day spot and forward FX contracts to a client base of large corporations and financial institutions.

Highlights

- › Azure-based cloud platform, multi-regional deployment
- › High-performance
- › Compliance with recent & upcoming regulatory change
- › Payments delivery for all jurisdictions in multiple regions
- › Increased client retention and acquisition rate

Technology

- › Microsoft stack
- › Azure Cloud Services
- › Azure Service Fabric
- › Active Directory
- › SQL Service (Always On)
- › RabbitMQ



Crypto Custody Solution. Azure Platform (1/2)

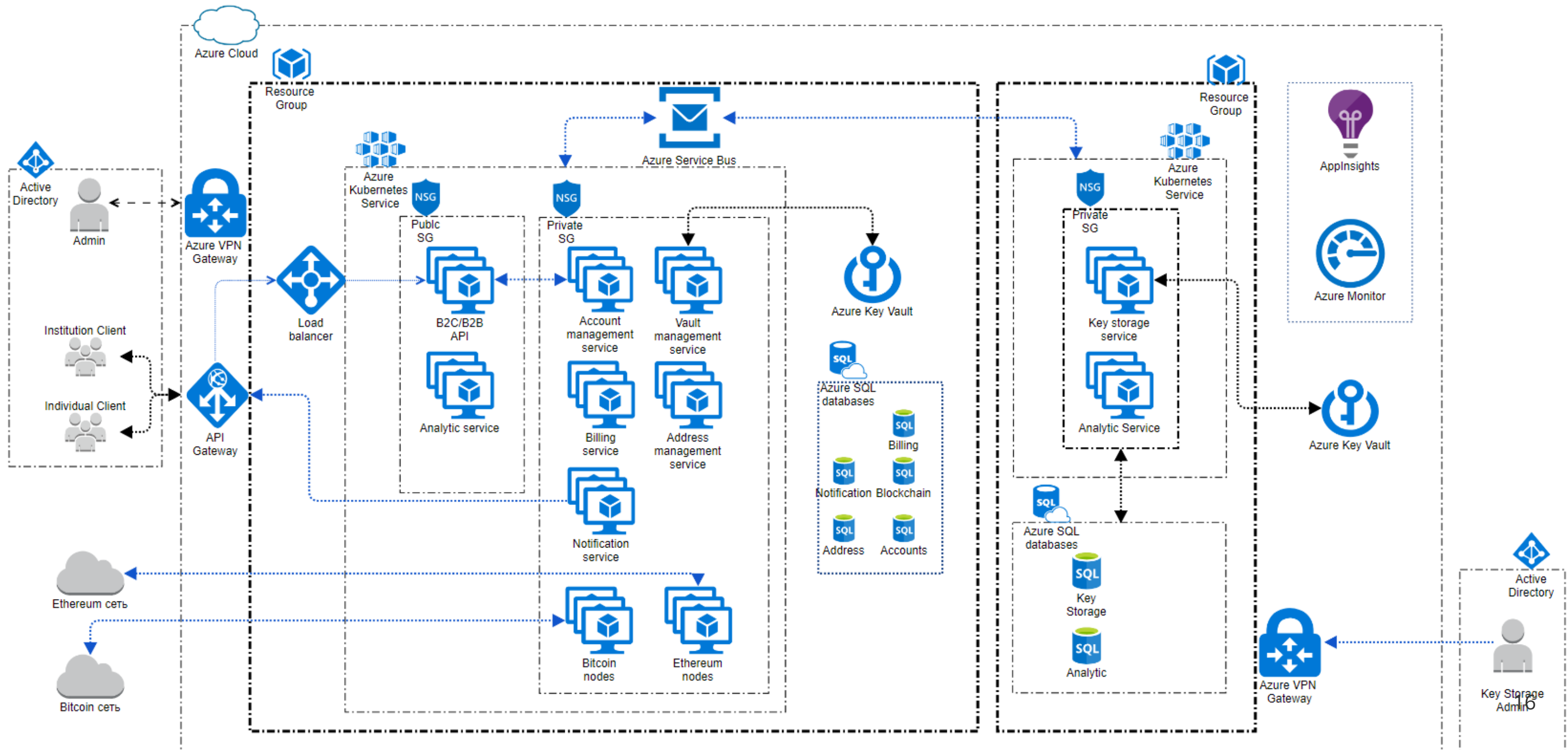


The solution is a financial instrument, a cryptocurrency storage depository built on Azure Platform.

Highlights

- › A fully automated and secured platform
- › Provides adequate protection
- › Stores clients' crypto assets in a secure and risk-free way
- › The system is divided into several independent layers, each with a certain level of safety
- › Complete protection against natural damage, human error, and virtual attacks
- › Decentralized administrative access to separate parts of the solution
- › The use of Azure Key Vault provides protection for the private keys

Crypto Custody Solution. Azure Platform (2/2)



Investment Management Platform (1/2)



An integrated, modular, turn-key, all-in-one, front-to-back investment management platform, supporting a broader range of asset classes than any other portfolio management system on the market. The only system of its kind to support crypto assets in production. Platform is steeped in years of real-world usage at some of the world's largest and most complex financial institutions.

Functionality highlights

- › Multi-tenancy
- › Real-time P/L (Listed + OTC)
- › Mobile and Desktop Interfaces
- › Real-time Sensitivities
- › Real-time VaR and Vol
- › Template-based OTC Trade Entry
- › OMS/EMS Integration (FIX)
- › Automated Trade Allocations
- › Customized Portfolio Reporting
- › Calibrated Curves and Surfaces

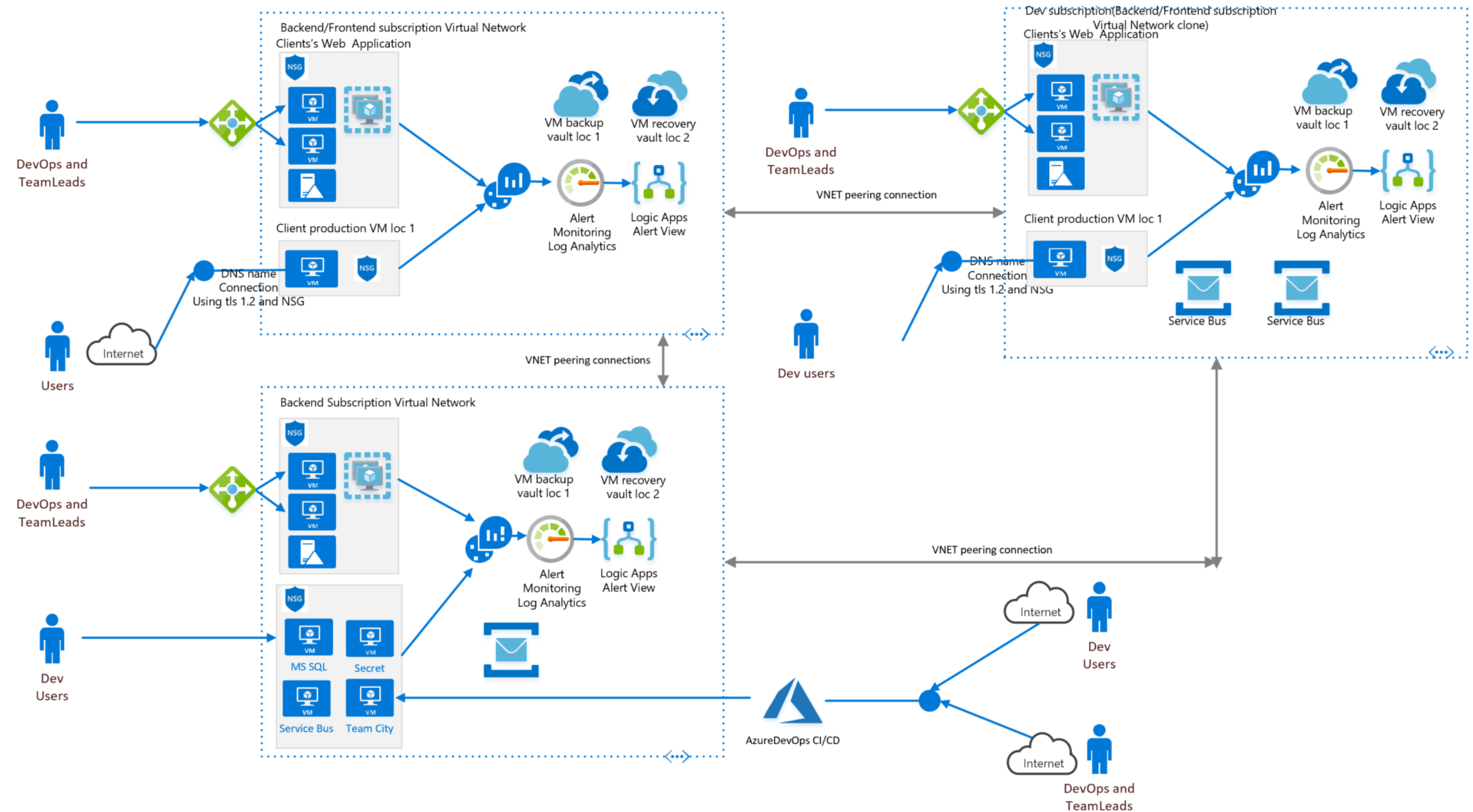


Investment Management Platform (2/2)



Technology and architecture highlights

- › Multi-tenancy
- › Azure cloud
- › Azure Key Vault for Secrets Management
- › Azure DevOps for CI/CD
- › System monitoring with Azure Log Alerts
- › Reliability with VM Backups on Azure Backup Vaults
- › Azure VNET Peering
- › .Net Stack
- › Custom configurable BI and Visualizations



Live Events Management Platform



The client is a premier technical production and event management firm that works with entertainment and marketing agencies to realize “big vision” event concepts through project management and the execution of technical elements. As full-time production managers, the client needed a software solution to help them manage live events.

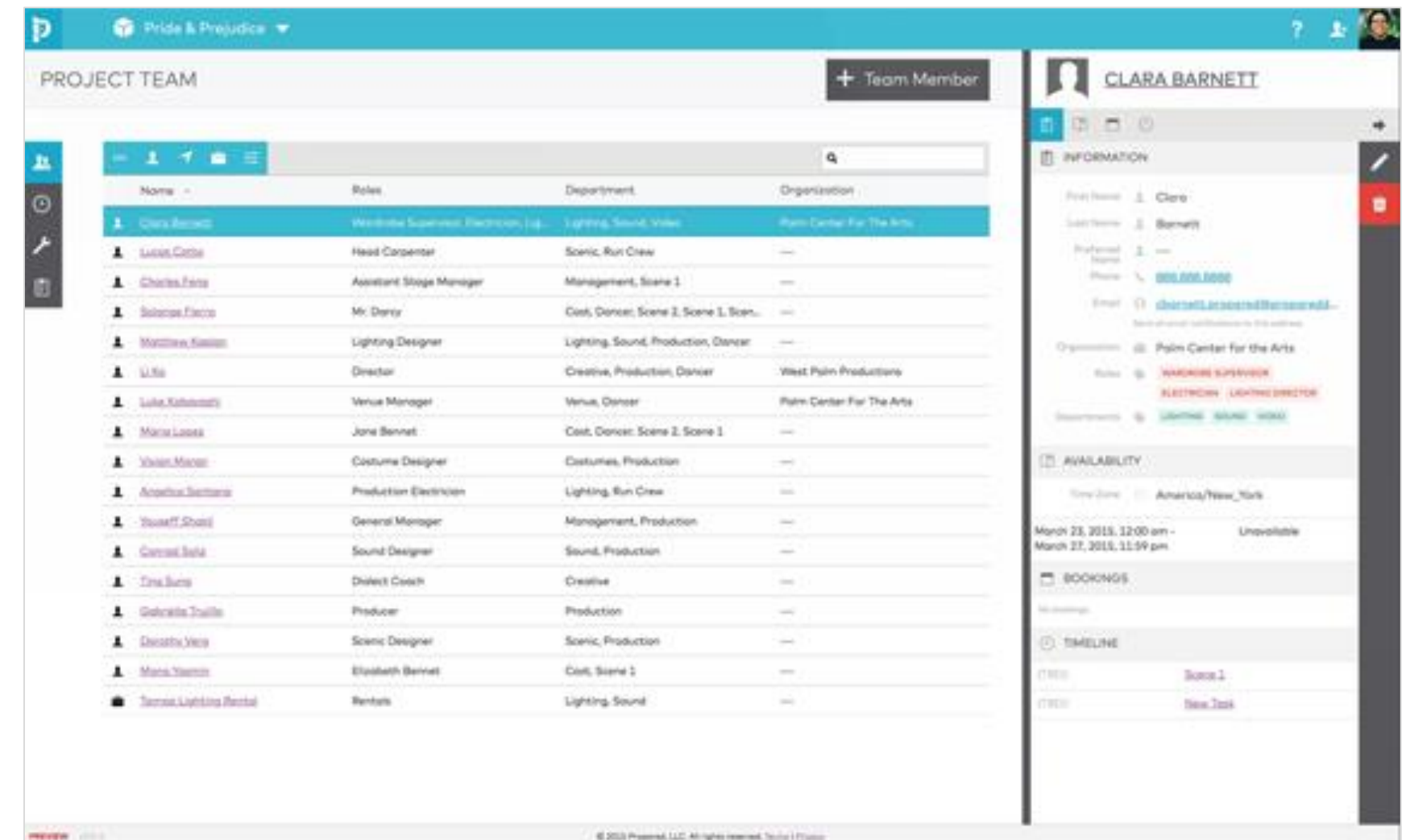
Solution

Majority of the products on the market were designed for traditional corporate project management, which is significantly different from live event project management. After exploring dozens of off-the-shelf products the Client came to DataArt for help build a custom Web-based solution encompassing all features crucial for effective live events management.

Technology

Front-end with rich UI implemented using the following technologies:

- › Backbone and Marionette
- › Styling: Bootstrap 3 and jQuery UI.
- › Precompilers: TypeScript
- › Back-end: .NET, **Azure** (SQL Database, Web-sites), EF5, ASP.NET MVC 5, WebAPI
- › Hosting on Microsoft Azure (cloud application platform)
- › Billing platform: Recurly
- › Email Solution: Sendgrid (cloud-based platform)



Software Design, Development, and Support



20+ Global Locations:

USA	EU
United Kingdom	Eastern Europe
Switzerland	Latin America



3500+
consultants & engineers



10%
staff turnover rate



95%
return clients



23 years
in operation



3500+
successfully completed
projects



Reliable
profitable, financially strong,
fully audited





DataArt