Capgemini

DRIVING SALES WITH SUPPLY-CHAIN MODERNIZATION

Automotive distributor moves to cloud for speed, agility, and reliability

Industry: Automotive

Location: North America

Technology and services:
Cloud, Microsoft Azure

Challenge

- Automotive distributor was experiencing high maintenance costs, lack of adaptability to meet business needs, and technology obsolescence with its current IT infrastructure
- Underlying IT system constraints were causing issues with its existing processes
- Needed to move away from managing on-premises data centers and reduce operational overhead

- Wanted to move to a more robust application environment that delivered high-performance, scalability, flexibility, and a rich end-user experience to drive productivity
- Upgrading existing legacy infrastructure would remediate vulnerabilities

Solution

- **Scalable architecture:**
  - Capgemini recommended a highly scalable, flexible, robust, secure solution architecture to drive speed, agility, and reliability into the current business processes
  - The solution leverages Microsoft Azure Platform-as-a-Service (PaaS) with Azure App Services and Azure Integration services, .NET Framework, ASP.NET MVC, SQL Azure, and REST API

- **Agile infrastructure:**
  - The solution reduced costs and shortened the provisioning cycles by transforming the price model from fixed on-premises to a pay-as-use cloud infrastructure
  - Modernized portal, API, and batch processes to Azure PaaS services (e.g., App Service, WebJobs, Function Apps, Azure API Management, Service Bus, and Application Insight)
  - Transformed BizTalk integrations to Azure Integration Services using Azure APIM Management and Service Bus

- **Partner integrations:**
  - Enhanced integration with MuleSoft, mainframe, and other internal and external sub-systems to validate vehicle configuration in real-time for better decision making
  - Near real-time integration with mainframe using Azure Service Bus and RESTful API
  - Migrated on-premises SQL Server to Azure SQL, and secured sensitive settings and configurations with Azure Key Vault and Azure App Configuration services

- **DevSecOps:**
  - Introduced an automated DevOps process using Azure DevOps to deploy code artifacts and Azure PaaS service infrastructure using ARM templates and app-configuration service
  - VeraCode security code scan integrated pipelines to identify security vulnerabilities
  - Integrated continuous monitoring of PaaS services and set up alerts and notifications using Azure Monitor, Azure Dashboard, and Log Analytics

Result

- The solution enabled significant IT and total cost of ownership savings over on-premises data centers
- More flexibility and agility with scalable and resilient applications hosted on Microsoft Azure PaaS as well as reduced operational overhead
- Business workflow layer migration to Microsoft Azure integration services delivers cost savings on physical servers and licensing costs
- Improved release management with a high degree of automation in the DevOps process for faster and more efficient deployment cycles
- Smooth integration with external systems leading to improved real-time flow of information and data accuracy to the business
- Better informed decisions based on enhanced reporting and simulation capabilities for business processes

Click here to learn how Capgemini can drive IT modernization with a move to the cloud.

About
Capgemini

Capgemini is a global leader in partnering with companies to transform and manage their business by harnessing the power of technology. The Group is guided everyday by its purpose of unleashing human energy through technology for an inclusive and sustainable future. It is a responsible and diverse organization of over 300,000 team members in nearly 50 countries. With its strong 50 year heritage and deep industry expertise, Capgemini is trusted by its clients to address the entire breadth of their business needs, from strategy and design to operations, fueled by the fast evolving and innovative world of cloud, data, AI, connectivity, software, digital engineering and platforms. The Group reported in 2020 global revenues of $19.3 billion.

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Note: current conversion is €1 to $1.20 (2/17/21)

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