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

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