



SAFE-SWITCH ADVANTAGES: THE CUSTOMER VIEW

Data Intensity Oracle on Azure Solutions

INTRODUCTION: AZURE CLOUD OPTIONS FOR ORACLE WORKLOADS

Oracle® remains a database and app market leader. Forward-looking businesses continually seek to maximize Oracle workload value and spend. Cloud options are an oft-overlooked factor. Oracle is both certified and supported to run on Microsoft® Azure, yet Oracle-to-Azure migration and management concerns prevent some organizations from making the move. Backed by dual-vendor expertise and the Oracle-Azure interoperability partnership, Data Intensity's Safe-Switch methodology eliminates Oracle-to-Azure uncertainty. Safe-Switch permits flexible and efficient Azure cloud solutions for Oracle workloads. Learn more about positive Safe-Switch outcomes in these three Data Intensity customer success cases.

1
Maximized
flexibility and
budget

2
Licensing footprint
and cost reduction

3
High-availability and
cost reduction

Can you move your Oracle workloads to Azure? If so, how? In some cases, what to do with existing Oracle infrastructure causes unnecessary delay or, worse, holds up full data-center exits entirely. Budgets are wasted and transformation broken. Just a few of the myths discouraging migration of Oracle workloads to Azure include:

- Perceived lack of performance and capability
- Questions around licensing compliance and support
- Complex Oracle integrations
- Specific Oracle functionality not available in the public cloud.

Oracle is both certified and supported to run inside Azure. Plus, with the recent announcement regarding the Oracle-Azure interconnected partnership, IT now has a truly scalable cloud platform that fits with many companies' ongoing investment in Microsoft Cloud Services.

Utilizing our experience in migrating hundreds of Oracle workloads to Public Cloud, Data Intensity architects and consultants enable business-first project coordination and adoption. To ensure that the migration encompasses both business requirements and technical considerations, Data Intensity provides clients with plans that minimize risks, streamlines migrations, and depicts transparent costs. Confidence comes from our tested Azure Safe-Switch Methodology.

Oracle-on-Azure Benefits

- License optimization
- OpEx reduction
- Cost management
- Increased technical capability & flexibility
- Total ops management
- Application modernization

Safe-Switch complements the Microsoft Cloud Adoption Framework by providing businesses with the ability and processes to migrate workloads in a safe and secure manner. To alleviate concerns and identify considerations around moving business-critical applications to Azure, Data Intensity's extensive Oracle experience delivers the most cost-effective, secure, and efficient Azure migration strategies. We're able to identify the correct path for each workload, whether it be traditional Rehosting, Replatforming, or Refactoring. Here are three examples of Data Intensity Safe-Switch customer success.

1

MAXIMIZED FLEXIBILITY AND BUDGET

Cory Brothers is a leading logistics and maritime service provider, offering a seamless solution for all transportation needs. Established in the mid-1800s, the company has seen solid, continuous growth, based on shipping and customer service expertise and experience developed across three centuries.

Cory Brothers Shipping engaged Data Intensity to plan and carry out the migration of ShipTrak application environments from legacy on-premises Oracle servers to the Microsoft Azure Cloud Services platform.

“From start to finish, Data Intensity was highly professional; the design phase through to go-live ran smoothly and efficiently. A deep knowledge of both Oracle and Azure enabled the project to be successful.” – Alan Horne, Team Lead, Cory Brothers

ShipTrak is a web-based proprietary software application that enables customers to access all the essential vessel operations information they need, wherever they are, at any time.

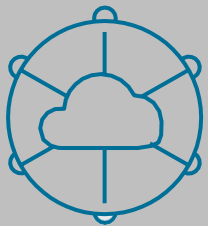
Developed in-house at Cory Brothers and designed to help monitor vessel operations across the world, ShipTrak has been made available to Cory Brothers' customers as well, to ensure that vital information and updates they need are at their fingertips, 24x7.

The ShipTrak application environment stack comprised WebLogic 10.3.30 and Oracle Database 11.2.0.1 running on Windows Server 2008R2. There were a number of production, dev/test, and customer demo environments that needed to be migrated.

As part of Data Intensity's cloud optimization strategy for Cory Brothers, the associated components also were upgraded to the supported versions of WebLogic, Oracle Database, and Windows Server as part of the migration.

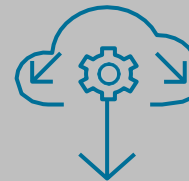
Moving to Azure with Data Intensity has enabled Cory Brothers Shipping to leverage the agility and security afforded by the platform, enabling them to meet the ever-growing demands of their customers.

Data Intensity provided highly skilled resources to Cory Brothers, which included full-stack Oracle expertise and Azure architects, guaranteeing a seamless migration to the cloud.



SAFE-SWITCH BENEFITS

- Cloud-option flexibility
- Seamless Oracle migration to Azure
- Upgrades with minimized downtime
- Trusted strategy, services, and tech partner
- Infrastructure footprint and cost reduction



THE DATA INTENSITY DIFFERENCE

- Industry validation: Third-party independence with high visibility and analysis
- Comprehensive approach: 360-degree view of tech configuration, performance, security, scalability
- Real-world experience: Deep and wide tech expertise – 2,800+ tech certifications across 10 primary tech domains with over two decades designing, implementing, and supporting full-stack enterprise app solutions

2

LICENSING FOOTPRINT AND COST REDUCTION

This global company manufactures and services fluid motion-control solutions for the world's toughest, most critical applications. To help solve the biggest flow-control challenges, customers worldwide rely on its product lines, engineering, project management, and service expertise.

Through an unmatched combination of products, engineering, and aftermarket services, this company helps customers achieve tangible business results — lower operating costs, optimized performance, prolonged equipment life, mitigated risks, and higher productivity.

“With two Azure data centers in the UK, the manufacturer could benefit by using the two for primary and DR. The company also was able to reduce its Oracle licensing footprint costs by 40%.”

The global manufacturer's data center contract was expiring and old hardware — storage, database servers, hypervisor hosts, and other technology — needed a refresh. The company also needed to reduce the number of infrastructure licenses (Solaris & VMWare) since company leadership was mandating a reduction of overall IT spend.

The company lacked a proper disaster recovery (DR) strategy and DR testing, which also was failing, involved tens of thousands of expenditures. Lastly, database version support was nearing an end, and the company needed a new solution up and running in less than eight months at the time of budget planning.

Data Intensity, alongside a trusted partner, educated the customer on the benefits of Azure and the multiple DR options offered by the solution. The customer's cloud real estate was reviewed and preference was given to the customer's cloud-lean.

The company was able to eliminate London and Manchester data center and associated contracts and assets as well as many technologies and support agreements, including Oracle Solaris OS, Oracle M5000, Dell servers, Commvault, EMC storage, VMWare, and Data Domain.

One essential requirement was to keep the data in the UK. With two Azure data centers in the UK, the manufacturer could benefit by using the two for primary and DR. The company also was able to reduce its Oracle licensing footprint costs by 40% by eliminating Oracle RAC.

This global manufacturer now benefits from having a single, highly qualified Managed Services Provider, Data Intensity, for all IT infrastructure — Azure CSP and Azure Managed Services up to the OS layer. Plus, the company has migrated its Windows servers and SQL Server instances to Azure.

Data Intensity

Safe-Switch Methodology

Oracle on Azure



Discover & Assess



Design & Re-Architect



Migrate & Optimize



Manage

3

HIGH AVAILABILITY AND COST REDUCTION

SmartestEnergy is a leading purchaser and supplier of energy generated by the independent sector. The company combines customer knowledge built up over 13 years with a uniquely flexible approach to service delivery.

Its mission is to help customers find the right energy solution for their businesses. The company offers bespoke service with a range of fixed and flexible products to meet needs of specific customers, ranging from large industrials to high-street retailers.

“SmartestEnergy was able to achieve a highly resilient architecture on-premises and incorporate a third warm DR instance without incurring the higher licensing costs...”

While it evaluated possible movement of Oracle workloads, SmartestEnergy was undertaking a data center migration to a single co-location and needed to redesign its production SQL Server architecture to incorporate on-premises resilience and provide disaster recovery (DR) capability to the cloud.

SmartestEnergy engaged Data Intensity to design and build out a hybrid SQL Server topology using SQL Server Standard Edition and Microsoft Azure. The challenge was to deliver the on-premises resilience requirement of a two-node cluster, while leveraging Azure for DR with a third node. SQL Server 2017 Standard Edition provided only basic availability groups for a single replication.

Data Intensity designed and built out a stretched three-node Windows Server 2019 Failover cluster. The cluster comprised two on-premises nodes with shared storage and a third Azure virtual machine (VM) node. A SQL 2017 Standard Edition failover instance was configured for the two on-premises nodes, meeting the on-premises resilience requirement.

The SQL Server failover instance is recognized as a single SQL Server instance, allowing the database to be mirrored to the third Azure node using basic availability groups. The application connectivity was accomplished using a single database listener associated with one of the many availability groups and stretched into Azure using Azure Load Balancer. The use of a single database listener meant that all databases had to reside on the same availability group replication and move as a collective. To achieve this, Data Intensity developed a script to check the database status and move databases by code as appropriate.

By combining two native SQL Server HA technologies, Failover Cluster Instances, and Basic Always-On Availability Groups, SmartestEnergy was able to achieve a highly resilient architecture on-premises and incorporate a third warm DR instance without incurring the higher licensing costs of Enterprise Edition. Data Intensity provided support during the migration process, scripting, and rebuilding the transactional replication post-migration.



Data Intensity is the largest independent multi-cloud services provider focused on managing mission-critical applications and services in a hybrid cloud world. Our purpose-built solutions and services focus on the life-cycle design, implementation, support, and operation of technologies and platforms that power our customers' business processes. Customers choose Data Intensity because we allow them to focus on their critical business needs while we focus on their applications and multi-cloud investments.

CONTACT US

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Work with an experienced, certified, and trusted partner with a complete portfolio and roadmap

Data Intensity is a Global Oracle Platinum and Microsoft Gold Certified Partner with more than 20 years of experience managing Oracle workloads both on-premises and in the cloud (public and private). Data Intensity delivers follow-the-sun 24x7 reactive and proactive managed services support focused on providing business value.

A progressive organization achieving results through advanced innovation, Data Intensity forges vendor partnerships that ensure we're at the forefront of cloud technology evolution, enabling your business to remain competitive through technological innovation.

“Every company must invent or reinvent their business with technology at the core — or watch while their customers defect and their markets are disrupted...” — Forrester Research