

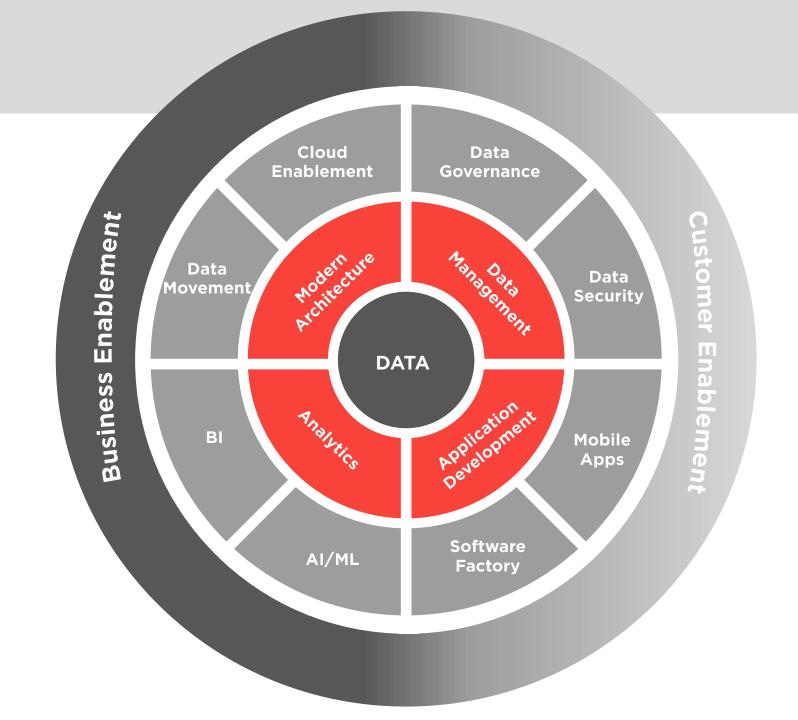




ADASTRA'S Superpowers

Data is the heartbeat of every organization - it brings strategy to life and enables great customer experiences.

For over 20 years, Adastra has been driving our customers forward leveraging Data & Al as a guiding light and business enabler.



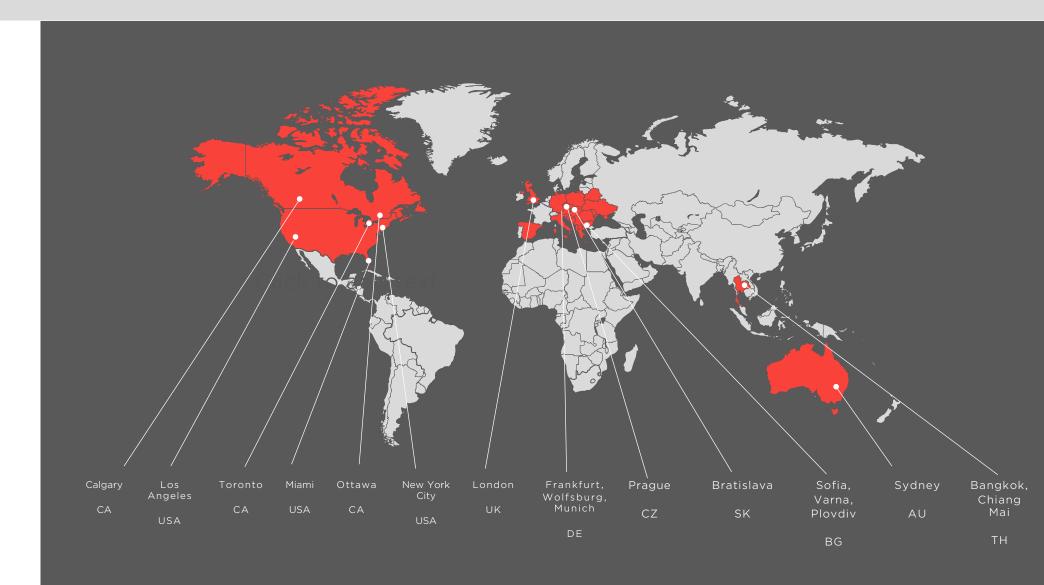


Adastra Worldwide

2600+

Data & Analytics Professionals

16
Offices in 9 countries





Azure SQL Migration Successes



































































Azure SQL Migration Success

25
SQL Servers Migrated

316

Databases Migrated

27,500

Objects Migrated

Challenge

CPA Canada had twenty-five on-premises SQL Servers instances across four locations. These instances supported critical production loads, which included vendor-based and in-house applications. Most databases were running on SQL Server 2012.

CPA Canada was looking to modernize their data estate, and simplify SQL Server administration, by migrating all SQL databases to Microsoft Azure, leveraging free extended security updates and Azure Hybrid Benefit to lower Azure run costs.

Adastra's Solution

Based on CPA Canada's requirements and key decisions made in the Technology Assessment stage Adastra:

- Migrated all the on-premises databases to Azure SQL Managed Instance for appropriate SKU size.
- Migrated all critical databases in Production and other non-development environments.
- Used the Microsoft Data Migration Assistant (DMA) tool to perform a pre-migration assessment to identify any potential issues that may prevent or disrupt the migration process.
- Post-migration the application cutover process was performed to test and validate the successful connection of applications to the target Azure databases.

Read the Entire Success Story

<u>Success Story: Cloud Infrastructure Modernization for CPA Canada through</u> Microsoft Azure Migration Program / Adastra (adastracorp.com)





Adastra: #1 Modernization / Data / Al Partner

Microsoft Impact Awards Won: Analytics, AI, Data Platform Modernization, Financial Services, Manufacturing, Commercial Microsoft Impact Awards Runner-Up: Partner of the Year, Global Analytics, Global Power BI, Migration, Customer Journey



Ability to Scale

With over 2600 GLOBAL staff, 500 CDN staff, and 500 Azure and Power Platform specialists, Adastra is ready to scale



Proven Success

Adastra has the best record, successfully driving customer Azure adoption / ROI, for over 200 organizations in the last two years



Complete Stack Delivery

Azure Infrastructure, Azure AppDev, Azure BizApps (O365 / D365), Azure BI Analytics, Azure Big Data, Azure Data Science, and Power Platform



Bestshore Delivery

Adastra's best-shore model offers 24/7 delivery and support, through our North America, Europe, and Asia based Delivery Centres



Adastra Azure Specializations

AZURE FOUNDATION

cloud adoption framework, well architected framework, tenant design, resource naming, service tag approach, network architecture, governance design, to analysis, hybrid network implementation, devops integration, azure foundation implementation, iac automation, ...

AZURE ANALYTICS

analytics assessment, analytics architecture, analytics roadmap, data zoning, enterprise model design (kimball, inmon, data vault), ETL data pipelines, persona enablement, citizen report development, trusted data as a service, ...

POWER PLATFORM

citizen development assessment, power platform governance, roles / responsibilities, environment strategy, CoE kit, canvas / model apps, power automate flows, power automate rpa, power platform dataverse, power bi datasets / reports, ...

AZURE APP / DATA

app / data assessment, app / data decisioning (lift / shift vs modernize), app / data architecture, api architecture, microservices architecture, app/ data security design, migration roadmap, migration execution, iac pipelines, devops integration, ...

AZURE LAKEHOUSE

lakehouse assessment, data lake design, Hadoop integration, pyspark data engineering, ELT pipelines, spark delta lake, spark streaming, serverless compute, devops integration, ...

AZURE DATA GOVERNANCE

data governance assessment, data catalog, data classification, data sensitivity, data use governance, data privacy, data lineage, master data management, data quality management, reference data management, ...

AZURE SECURITY

security assessment, identity strategy, role based access, secrets management, encryption, data loss protection, api management, private zone configuration, siem / soar integration, policy enforcement, security implementation ...

AZURE AI / ML

advanced analytics assessment, cognitive service integration, r&d model training / testing, mlops implementation, ai / ml pipelines, data science workbench automation, devops integration, ...

AZURE INTEGRATION PAAS

integration paas assessment, api management, logic workflows, service bus management, event grid distribution, peer to peer patterns, pubsub patterns, managed file transfers, iot telemetry streaming, iot edge device management, ...

Adastra's Azure Team

500 Azure Specialists (400 D&A, 100 CORE)

75 Azure Architects (55 D&A, 20 CORE)

50 Azure Data Scientists

250 Azure Certified Resources

275 Azure Data Engineers 125 Power Platform Specialists





The Innovation Imperative

Modern and Pressing Challenges

- Inflation pressures
- Rising costs
- Budget cuts
- Geopolitical disruptions
- Supply chain challenges
- Talent shortages
- Increasing labour costs



How Migration to Azure SQL Helps

- Reduces SQL operating costs
- Leverages existing SQL investments
- Scale up/down on demand
- Elevates data protection
- Lowers technical debt
- Reduces support team size
- Positions for growth

Enables Value

Security

6.5 trillion threat signals analyzed daily

3,500 security experts

\$1 billion per year investment in security

Innovation

Intelligent capabilities, trained on millions of DBs

Only cloud with evergreen SQL, which never needs to be patched or updated

Only fully-managed service for any .NET app

Offers

Up to 5x less expensive than AWS

Azure Hybrid Benefit

Free Extended Security Updates

Leadership in performance and scale

Built-in Hybrid



Maximizes Benefits



- "Azure Hybrid Benefit"
- Lowers Azure SQL cost by >50%
- 4X Core Coverage Multiplier



- Free security updates for SQL 2008 / 2012
- Dual use rights for 180 days



- Reserve capacity to save >30%
- Dev / Test saves >50%
- Unlimited virtualization thru Azure Dedicated Hosts



Achieves Excellence

Out of the Box Enterprise Class Governance

Automatic Security
Updates and SQL
Versioning

Threat Detection /
Remediation thru Microsoft
Defender

Implicit High Availability
Design for All Azure SQL
Form Factors

Implicit and Customizable
Backup Policy

Simple Integration with Azure Governance Ecosystem

Achieve SLA Commitments thru 99.995% Availability

Lowest Technical Debt Deployment of SQL

Single Pane of Glass
Administration and Tooling



Secures Data



Compliance: FedRAMP, HIPAA, PCI, EU Model Clauses, GDPR, UK G-Cloud, ISO



Resolves Challenges







Quickly integrate acquisitions



Urgent capacity needs



Software and hardware refresh



Security threats



Compliance



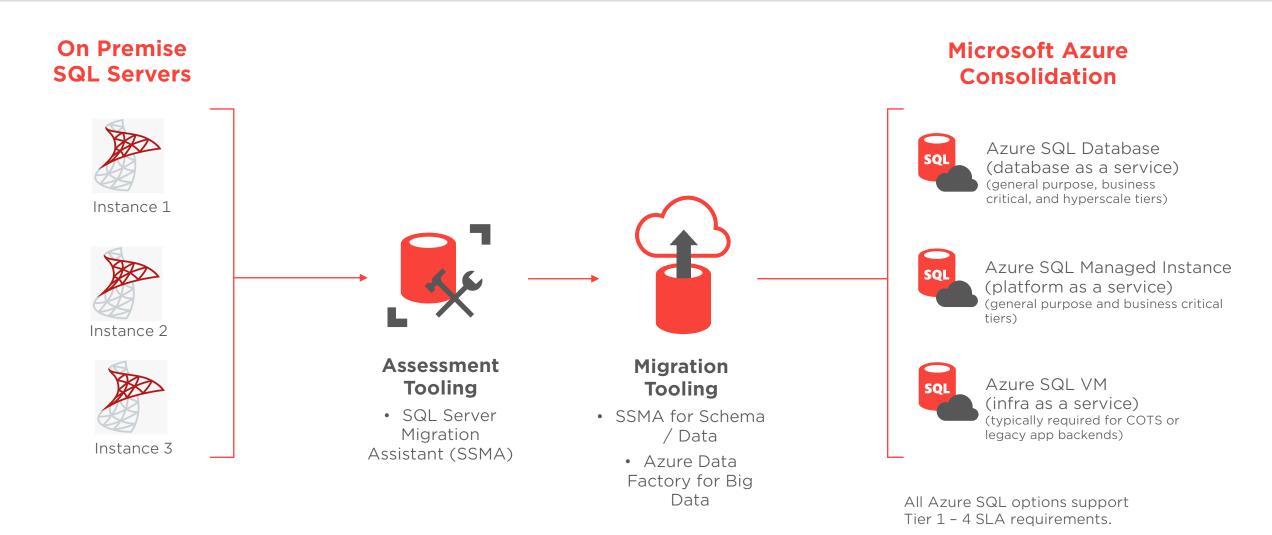
Application innovation



Software end of support



Data Migration Journey



Seamless, end to end solution | Near-zero downtime | Resilient | Migrate at-scale from multiple sources



App Migration Considerations

Azure SQL Migrations occur within the context of an end to end application ecosystem. Therefore Azure SQL Migrations often execute as part of a wider Azure Application Migration solution. Adastra has deep experience and success delivering all application ecosystem components with Azure SQL Migrations.

Managed PaaS

Web: Azure App Service

Data: Azure SQL DB / MI

Identity: Azure AD

LB: Yes (Azure Application Gateway)

HA/DR: Yes (Azure Traffic Manager)

Auto Scale: Yes (Native)

CI/CD Integrated: Manual

Complexity: Simple

Recommendation: Use for .NET / PHP

/ JAVA / PYTH Custom Web

Applications with no App / O/S

dependencies

Container PaaS

Web: Azure Kubernetes Service (IIS)

Data: Azure Kubernetes Service (SQL)

Identity: Azure AD

LB: Yes (AKS Controller)

HA/DR: Yes (Docker Repl and ATM)

Auto Scale: Yes (Native)

CI/CD Integrated: Implicit

Complexity: Medium

Recommendation: Use for any Custom Web

Applications and COTS Web Applications

approved for Docker / Kubernetes

laaS

Web: Azure Windows VM (IIS)

Data: Azure Windows VM (SQL)

Identity: AD Domain Service

LB: Yes (Azure Load Balancer)

HA/DR: Yes (ASR / ARV)

Auto Scale: Yes (Scale Sets)

CI/CD Integrated: Manual

Complexity: Medium

Recommendation: Use for COTS Web

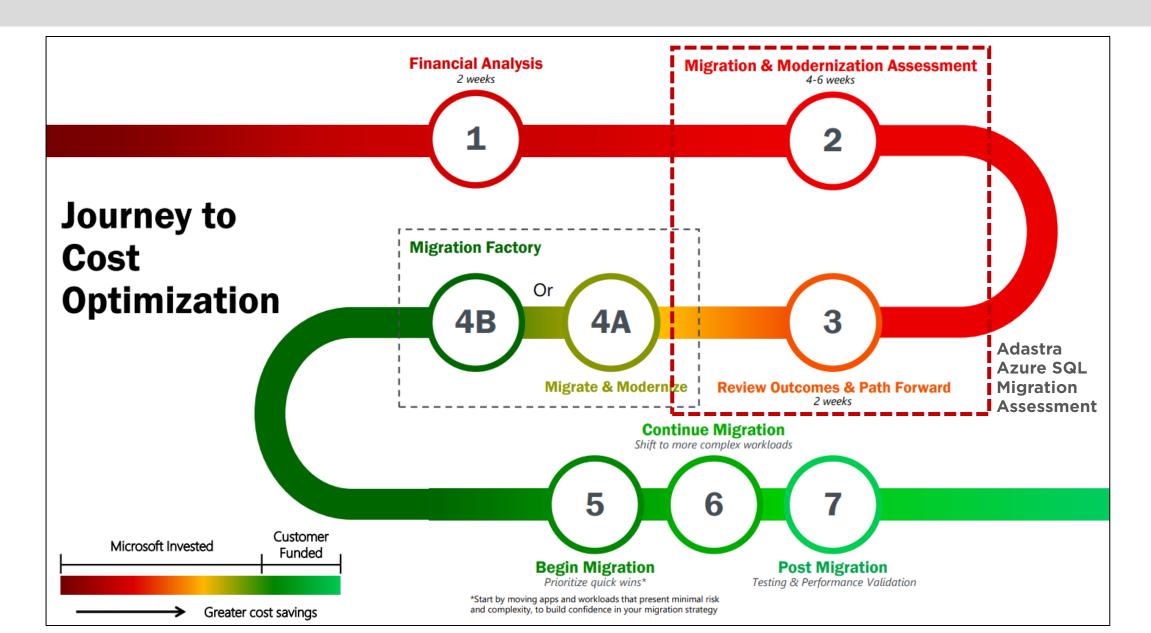
Applications not approved for Docker /

Kubernetes





Azure SQL Migration Journey





Adastra Azure SQL Migration Assessment Offer

- Perform Discovery (Data Tier or Application Focus)
- Capture Data / App Requirements:
 - Functional / Non-Functional incl. Performance
- Complete SQL Server Inventory:
 - Application Dependencies
 - Database Scope
 - Schema / Data Design
 - Programmable Objects
 - Upstream / Downstream Dependencies
- Build Prioritized Migration Backlog
 - Determine migration approach by use case
 - Modernize vs Lift / Shift vs In Place Upgrade vs ...
- Define Target Architecture:
 - Determine Required Azure SQL Tiers (Tier 1 4)
 - Azure Service / Network Architectures by Tier
 - Establish Migration Patterns (Freeze, No-Freeze)
 - Azure Sizing / Costs by Tier

- Establish Governance Patterns
 - Finops, ITOps, NetOps, SecOps, Devops perspectives
 - Roles, identity / access, encryption, secrets, siem / soar,
 recovery, audit, data loss protection, high availability, ...
- Facilitate Architecture Review Board Approval
- Perform SQL Refactoring Analysis
 - Leverage SSMA Tool to Estimate Effort
- Define Migration Roadmap:
 - Approach (incl. Testing/Validation)
 - Schedule
 - Resourcing
 - Cost
- Decommissioning Plan
- Stakeholder Review
- Pilot Migration of One Tier 3 / 4 Workload

Migration Assessment / Pilot: 6w, \$0 Cost

