



Start Innovating with Azure SQL

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Chapter 1

Leverage the right tools for your sales challenges

The cloud powers modern business and technological innovation. By using cloud data technologies, organisations can access various tools for their database management functions, including AI, big data analytics and edge computing, to enhance their innovation capabilities and create competitive advantages.

But organisations don't always have the infrastructure to handle demands on managing critical functions like security or AI workloads. They turn to the public cloud to help them develop or outsource these functionalities.

For many, the first step is to migrate workloads to the cloud to enable you to invest in AI innovation, whether that's leveraging existing services like ChatGPT, Azure OpenAI Service, Microsoft Copilot for Microsoft 365 and GitHub Copilot, or building and training models with Azure AI-optimised infrastructure.

Migrate today to take advantage of AI tomorrow.

Chapter 2

How to drive innovation with Azure

Competition and rising customer expectations demand that organisations accelerate their digital transformations. The move to cloud databases is a critical step in this direction, allowing them to control their data sprawl, strengthen security and centralise critical operations like compliance and strategy. More importantly, it enables organisations to scale at will and innovate with the latest IT tools on their terms without having to worry about managing hardware.

Prepare your organisation for AI

Discover new ways to deliver business value with AI. Intelligent cloud-native SQL databases help provide a secure, agile and AI-ready foundation to accelerate innovation so you don't get left behind in the race to innovate groundbreaking experiences.

Maximise ROI while eliminating legacy costs

Microsoft SQL Server helps you mitigate the massive costs associated with maintaining legacy infrastructure and licensing while optimising your operational capabilities with scalable cloud resources.

Stay secure and resilient across hybrid environments

Protect workloads across your cloud with intelligent security services backed by 3,500 cybersecurity professionals. Meanwhile, built-in resilience helps you avoid costly business interruptions.

Scale your applications and workloads on demand

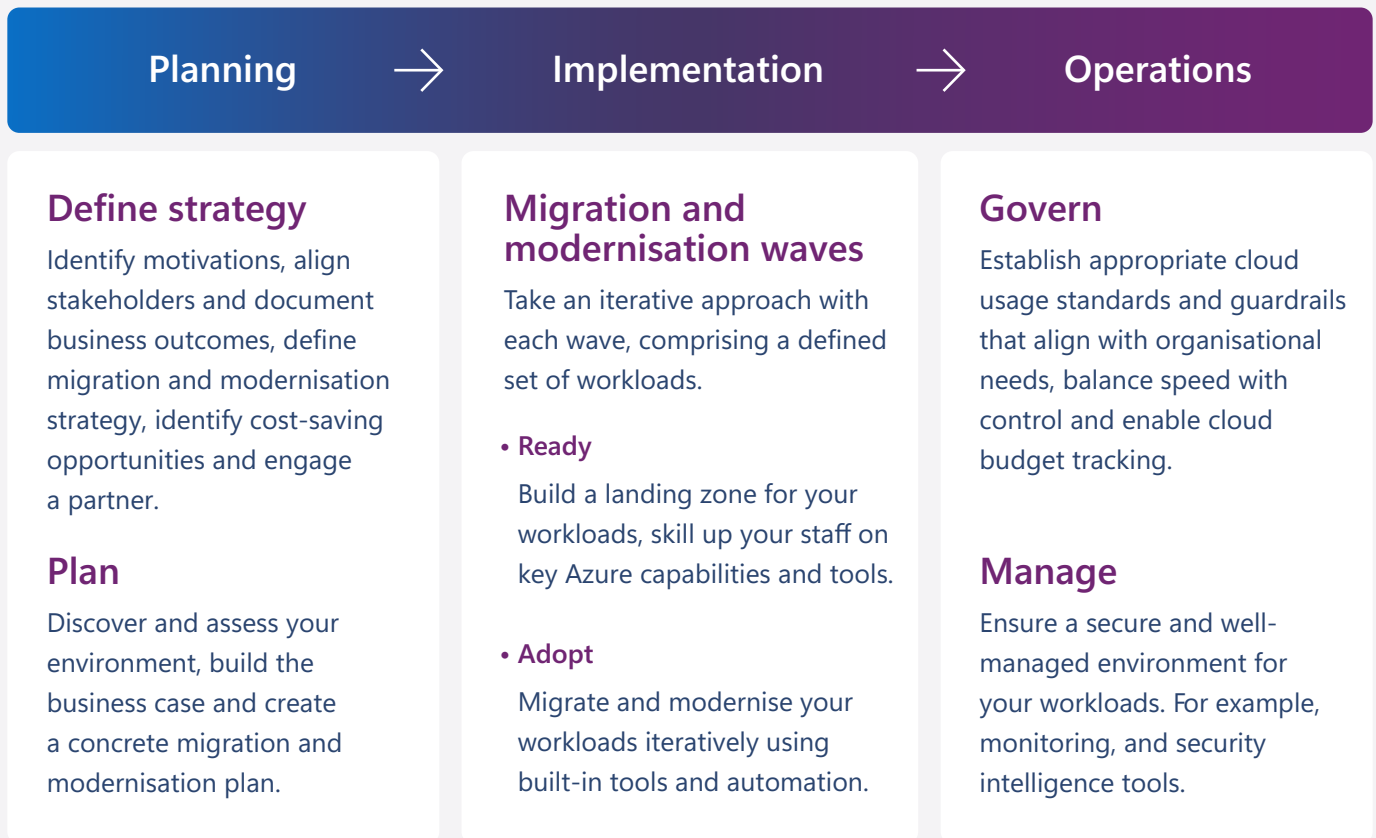
Increase agility with best-in-class Azure database technology, reduce operational burden with fully managed application and database services in Azure, and get access to near-limitless storage capacity.

The Cloud Adoption Framework for Azure

The [Microsoft Cloud Adoption Framework](#) provides guidance, best practices, tools and templates to support your adoption journey with Azure. Use this proven approach to execute your migration strategy with confidence.

The cloud adoption journey

Cloud migration involves significant organisational change management, spanning people, processes and technology. Therefore, a comprehensive approach must include extensive strategising and planning, an iterative approach to migrating and modernising database infrastructure and continuing governance and management. This will help ensure that security, resiliency and innovation remain top priorities throughout your migration.



Migrate and modernise in the cloud with Azure

Address your cloud portfolio's deployment and operation needs through scalable, modular implementation options to build out your cloud environment.

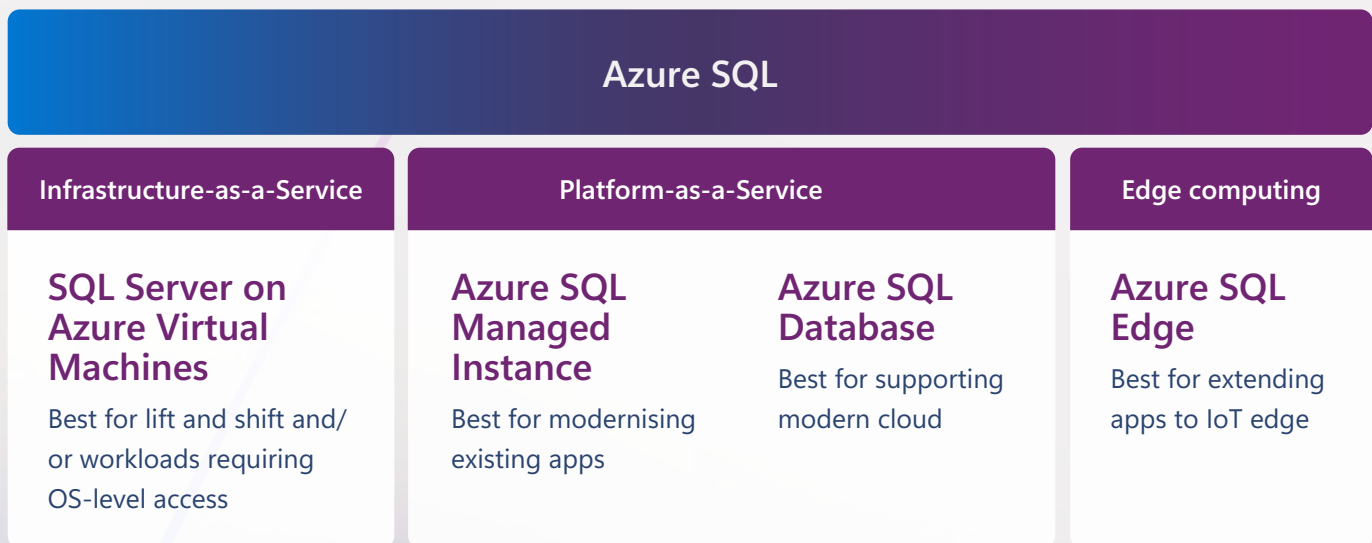
Chapter 3

Migrate to innovate and modernise

Markets are dynamic, and you need a path that offers flexibility. When it comes to migrating your data, you have a variety of options to consider. It's important to choose a path that makes the most sense for your business.

[Azure SQL](#) is a family of fully managed, trusted intelligent SQL database services with built-in insights and AI that support a wide range of application patterns. With the four Rs (Rehost, Refactor, Rearchitect, Rebuild) you can power and maintain any application in the cloud.

Because the entire Azure SQL family is built upon the same SQL Server database engine, you'll be able to better use your existing investments into skills and move them easily to the cloud. Meanwhile, the innovative features in Azure SQL help you operate more efficiently and save money along the way.



Common migration and modernisation approaches

There are many reasons to migrate to the cloud – enabling AI and IoT capabilities, improving resiliency, boosting innovation and more. These four ‘R’s of rationalisation to a digital estate will help you determine the best way to migrate or modernise each SQL workload in the cloud.

Rehost

Also known as a ‘lift-and-shift’ migration, a rehost effort moves a current state asset to the chosen cloud provider, with minimal changes to overall architecture and no changes to code. Rehosting your application enables you to:

- Move quickly into the cloud.
- Free up more data centre space.
- Migrate applications unmodified.
- Provide more infrastructure as a service options.

Refactor

Often referred to as ‘repackaging’, this approach requires minimal changes to connect to Azure. PaaS options help reduce the operational costs that are associated with many applications. Refactoring your application enables you to:

- Perform faster and shorter updates.
- Get greater cloud efficiency regarding resources, speed, cost and managed operations.
- Ease code portability.

Rearchitect

This approach focuses on modifying and extending your apps for the cloud – for example, taking monolithic legacy apps and breaking them down into microservices. Rearchitecting your application enables you to:

- Increase application scale and agility.
- Ease adoption of new cloud capabilities.
- Use a mix of technology stacks.

Rebuild

Building an application can become such a massive project it’s hard to justify further investment. Rebuilding an app means completely reconstructing it from the ground up to take advantage of Azure cloud services. Rebuilding your application enables you to:

- Accelerate innovation.
- Build applications faster.
- Reduce operational costs.

SQL Server on Azure Virtual Machines

Migrate your SQL workloads to Azure with ease while maintaining complete SQL Server compatibility and operating system-level access. Maximise the value of your current licensing investments while accelerating your migration to the cloud.

Get the performance and security of SQL Server plus the flexibility and hybrid connectivity of Azure

[Learn more about SQL Server on Azure Virtual Machines](#) >

Azure SQL Managed Instance

Modernise your existing SQL Server applications at scale with an intelligent, scalable, cloud database service that combines the broadest SQL Server engine compatibility with all the benefits of a fully managed and evergreen Platform-as-a-Service (PaaS).

Stay confident with automatic updates, upgrades and lasting support

[Learn more about Azure SQL Managed Instance](#) >

Azure AI Services

Innovate with confidence knowing that your apps can use modern AI to deploy custom copilots and generative AI solutions. Azure AI revolutionises how you understand and connect to your SQL database. This includes bolstering your knowledge-building and search capabilities, speeding up the pace at which you can deploy products to market, while still including exciting AI features into your apps.

Improved productivity and increased work output by 150% by integrating Azure AI Services¹

[Learn more about Azure AI Services](#) >

Azure SQL Database

Optimise performance and durability with an intelligent, scalable, relational database service built for the cloud. Serverless compute and Azure SQL Database storage options automatically scale resources on demand. This lets you focus on building new applications without worrying about storage size or resource management.

Experience 40% lower costs running SQL Server workloads with Azure SQL²

[Learn more about Azure SQL Database](#) >

[Learn how to architect modern applications](#) >

¹ The Total Economic Impact™ of Microsoft Azure AI, a commissioned study conducted by Forrester Consulting, April 2023. Results are for a composite organisation based on interviewed customers.

² IDC White Paper, sponsored by Microsoft, [The Business Value of Microsoft Azure for SQL Server and Windows Server Workloads](#), #US49616022, September 2022.

Chapter 4

Accelerating innovation with Azure: Five stories

1. Planned, effective and successful migration for American Airlines.

As of 2024, American Airlines is one of the largest air travel providers in the world, carrying more passengers in 2022 than any other carrier. The company wanted the most responsive and scalable database infrastructure due to its massive customer base.

The company's Customer Hub team determined they needed to shift from their existing database infrastructure and onto Azure. This, of course, would prove a challenge, as their systems couldn't be down during this change – a disruption of operationality could be devastating to their business and interactions with customers. Their move to Azure SQL Managed Instance allowed them to migrate in phases, shifting 10 terabytes of data and a transaction load of roughly 32,000 transactions per second into the cloud. Their approach ensured a smooth migration of apps and data to Azure, including automated maintenance and a modern platform fuelling innovation in customer data services and support.

[Learn more about American Airline's migration to Azure](#) >

2. Modernising environmental affairs in the UK with The Environment Agency

The Environment Agency (EA) handles land and environmental management throughout the UK, including the administration of regulations, permits and applications for both citizens and enterprises. By its own account, a combination of legacy databases and a reactive posture limited its effectiveness, and the company decided to migrate their databases to Azure.

With Azure, the company could link services like Data Factory and Azure Data Lake into apps like Power BI, Azure Synapse Analytics and Power Automate. Integrating these solutions helped the EA manage critical tasks like handling applications. Since then, employees with the EA can better manage their time and process applications more efficiently.

[Learn more about The Environment Agency's migration to Azure](#) >

3. E.ON looks to innovate analytics with deeper integration

E.ON, one of the largest energy providers in Europe, is no stranger to cloud migration. Initially, it had moved to Azure SQL Database in 2017 to help handle data and insights. However, after a few years, it became clear that the company needed to continue its migration to help fuel innovation with a new suite of tools. This meant moving to the Azure SQL Database Hyperscale tier, which could handle up to 100 terabytes of data and associated data projects through linked applications like Azure Machine Learning and Power BI.

[Learn more about E.ON's migration to Azure](#) >

4. Cube RM innovates tender management with Azure and AI

Procuring pharmaceutical supplies and medical equipment is a massive challenge for global providers and suppliers. Managing data related to that process (which is often unorganised and unstructured) is a big part of that process. Cube RM, a software provider in the industry, revolutionised how stakeholders submit tenders through a combination of Microsoft Technologies such as Azure Cognitive Services, Azure OpenAI and Power BI. These tools transformed Cube RM into an innovative organisation that can significantly increase accuracy and granularity for clients in more than 40 countries.

[Learn more about Cube RM's migration to Azure](#) >

5. Powering access to essential financial services: The World Bank and Azure Arc

In line with its name, the World Bank serves developing nations worldwide with access to necessary financial services. At first, the company's data infrastructure operated through a decentralised collection of apps and platforms, which wasn't sustainable. Without a centralised infrastructure, the World Bank wasn't able to manage costs and efficiency – a huge problem for the world's biggest lending operation. Azure Arc and SQL Server could include tools like Microsoft Defender for Cloud, Azure Monitor and Microsoft Purview to bolster security with a centralised approach. As of 2023, they had connected 25% of their SQL Server state to Azure Arc, empowering them to centrally manage their data and security while unearthing unexpected efficiencies.

[Learn more about the World Bank's migration to Azure](#) >



Chapter 5

Migrate to innovate today

The key to unlocking real innovation is by unlocking your entire data estate. Azure makes it easier to deploy from anywhere while simplifying operations and reducing costs.

- Drive innovation with intelligent cloud databases
- Support security and scalability across your organisation
- Build apps and get to market faster
- Integrate AI with database and app development services

[Create your Azure free account today](#) >

[Azure Migration and Modernisation](#) >

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