

Azure Databricks



Service Overview

Telefónica Tech provide all setup, configuration and management of Microsoft components to design and develop secure, enterprise scale Data Warehouse and Reporting solutions providing full Data Analytics, Business Intelligence and AI capabilities. Includes the use of Databricks, Unity Catalogue, Lakehouse, Data Lakes, Purview, Data Factory, OneLake, Power BI.

Telefónica Tech has championed the Apache Spark-based Azure Databricks service since its general availability in 2018, accelerating time to value and improving performance of modern data platform and AI solutions for clients by combining the best of Databricks and Azure.

Our Data & AI practice is built around a team of over 200 data specialists, including Databricks certified engineers and Partner Champions. Telefónica Tech delivered its first Databricks solution in 2018 and has since implemented hundreds of successful deployments using our accelerated data platform framework, spanning both commercial and public sectors.

The Data & AI Platform Accelerator combines the Azure Databricks Lakehouse platform, with our team of Databricks certified engineers and Databricks Partner Champions, and over 15 years of proven data and analytics platform delivery. Azure Databricks is a cloud-based service that allows for Spark jobs to be run against large amounts of data in a notebook-based workspace. Databricks Unity Catalog provides a unified governed solution, and Data Science and AI workloads can be integrated with mlflow.

Telefónica Tech supports the roll-out of digital patient records for the UK's largest Trust, and Databricks SQL provides a self-serve data analytics platform that empowers business users to access and analyse data without technical expertise, enabling faster data-driven decisions. Databricks SQL is a cloud-based, SQL dedicated tool built on Apache Spark that allows users to query and analyse large amounts of data, with easy navigation and visualisations, and simple connections into external BI tools. Telefónica Tech is a proud strategic partner with Databricks since 2020, allowing access to advanced training and early insights into future innovation plans.

Our Azure Data & AI Platform Accelerator, built on Azure Data Factory and Databricks, supports Data Lakehouse architecture and is delivered by Databricks certified engineers and Databricks Partner Champions, combining over 15 years of proven data and analytics platform delivery. Telefónica Tech are Databricks partners and take part in the Databricks champion programme which helps to evangelise Databricks within Telefónica Tech. Databricks is our tool of choice for data science and machine learning, with excellent integrations and flexibility.

Our consultants are experienced with Databricks, delivering data engineering, analytics, machine learning, and data science solutions for clients. Telefónica Tech has delivered multiple Azure-based Trusted Research Environments for health and research organisations, combining Azure-native services with open-source technologies and architectures that support cloud portability. The Thames Valley and Surrey Secure Data Environment at Oxford University Hospitals uses Azure Data Lake Storage for scalable object storage, Azure Data Factory for orchestration, and Databricks for data transformation and analytics, with Databricks running on both Azure and AWS platforms. Our experience includes implementing Delta Lake format, an open table format based on Parquet with transaction log capabilities, and deploying infrastructure using Terraform for cloud portability.

Telefónica Tech is engaged with Microsoft on maintenance and enhancement of the Azure TRE accelerator on GitHub, positioning us to influence the project roadmap and maintain deep expertise in the reference architecture.

Our offering includes the following features:

- Native integration with other Azure services
- Reduce cost and complexity with a fully managed, cloud-native platform
- Azure Active Directory integration
- Quickly deploy a cloud based platform (CI/CD, DevOps)
- Take advantage of Telefónica Tech's cloud platform frameworks
- Flexible engagement approach - quickly deliver a POC
- Scale resources on demand
- Unified platform for Data Engineering and Data Science (AI)
- Secure by design (VNets, Private Endpoints, RBAC)

Our Deliverables:

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Why Telefónica Tech?

1. Our Propel method gets you from idea to working solution fast. This lets you unlock value quickly from your modernisation initiatives.
2. We have deep expertise across the full app stack with proven customised solutions that speed your modernisation.
3. We help you adopt change with less risk and disruption, using modular delivery that keeps compliance and quality high.

We focus on high-value apps and features that deliver clear business impact.

Additional Services to Elevate Your Business

Cloud Strategy

Scale cloud adoption for maximum business impact.

GreenOps

Measure and optimise your cloud carbon footprint, making your cloud operational sustainable.

FinOps

Optimise your cloud spending and boost financial accountability.

Multi-Cloud

Deliver workload freedom by deploying your workloads across multiple cloud providers seamlessly.

Cloud Managed Services

Expert management and support for your cloud environment.





Leading the Way in *Digital Transformation* for our Customers

Telefónica Tech unlocks the power of integrated technology, bringing together a unique combination of the best people, with the best tech and the best platforms, supported by a dynamic partner ecosystem to make a real difference to every business, every day.