

AWS Data Engineering

Design and deliver secure, enterprise-scale data platforms and reporting solutions



Service Overview

Telefónica Tech provides full setup, configuration, and management of AWS cloud services to design and deliver secure, enterprise-scale data platforms and reporting solutions. The service enables advanced data analytics, business intelligence, and AI, using AWS-native services including Amazon S3 data lakes, AWS Glue, Amazon Redshift, Amazon Athena, Apache Spark, Amazon QuickSight, and Amazon SageMaker.

The service supports modern data architectures, including lakehouse and serverless analytics patterns, enabling organisations to ingest, process, govern, and analyse data securely at scale. Proven AWS frameworks and best practices are applied to ensure solutions are resilient, scalable, and production-ready.

Telefónica Tech Data & AI provides a full range of services related to data management, including data engineering support, change management, data governance, AI strategy, Power BI training, Power BI governance and rollout, and Power BI migration. Our Data & AI division has a long history of expertise in data platform design, development, and operations, offering operational, delivery, and advisory services related to Data & AI. Operational services include ad-hoc monitoring of data platform processes and cost/performance analysis. Delivery services cover data platform design, build, test, deployment, troubleshooting, incident triage, investigation, root-cause analysis, incremental upgrades, and feature implementation.

Advisory services include architecture and design guidance, best-practice analysis, service health checks, continuous improvement recommendations, business consulting, and data strategy, governance, envisioning, or proof-of-concept services. We offer end-to-end consultancy services, from initial assessment and planning to implementation and ongoing support, including migration of existing data infrastructure to AWS, building new data lakes, optimising data warehousing, and enhancing analytics capabilities.

Our consultants bring extensive experience in AWS services and are adept at crafting bespoke solutions tailored to each client's requirements. We provide ongoing support and optimisation services to ensure that AWS data platforms remain efficient, scalable, and aligned with evolving business needs. Data security and regulatory compliance are paramount, with consultants well-versed in AWS security best practices and compliance requirements, including GDPR. Consultancy work is requested via service-desk tickets, managed and routed by support staff to the relevant team, with assigned Data Platform Engineers ensuring continuity and expertise.

Our data engineering capabilities within the cloud consultancy teams include deep knowledge of cloud platforms (e.g., Azure, AWS, VMware, private cloud hosting) for deploying, managing, and optimising application platforms in any destination, including public cloud, using infrastructure as code. We have a dedicated team skilled in developing new applications and integrating existing ones, including APIs, microservices architectures, and containerisation technologies like Docker and Kubernetes.

We manage databases, implement data warehouses, and utilise BI and analytics tools to derive insights from data, with end-to-end support of the data platforms we design and implement. Performance monitoring and optimisation capabilities are provided, with expertise in monitoring application performance, identifying bottlenecks, and optimising resources for efficiency, cost, and scalability. We keep abreast of emerging technologies and industry trends to advise clients on innovative solutions for a competitive edge.

Our offering includes the following features:

- Unified platform for data engineering, analytics, and data science (AI)
- Ingest and consolidate data from multiple sources into a single platform
- Secure connectivity to on-premises and cloud-based data sources
- Enterprise-scale analytics supporting large and complex datasets
- Rapid deployment using CI/CD and DevOps best practices
- SQL querying across relational and non-relational data
- Integrated analytics with QuickSight, SageMaker, Spark, and lakehouse architectures
- Secure by design, using AWS networking, encryption, and identity controls

Our Deliverables:

- Prepares data, architecture, and platforms for advanced analytics and AI
- Works seamlessly with AWS analytics and BI services
- Makes trusted data available to other systems and services
- Supports complex reporting through interactive dashboards
- Provides a scalable data science and machine learning environment
- Enables performance tracking against business and customer KPIs
- Built with security and governance as standard

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.