

## Azure Data Factory

Azure Data Factory is a cloud-based data integration service provided by Microsoft Azure. It allows organisations to create, schedule, and manage data pipelines for moving and transforming data from various sources to destinations. Azure Data Factory enables users to build scalable data workflows that can handle batch and real-time data processing tasks.

At Ingentive, we ensure you are set up on Azure Data Factory seamlessly and securely. Our services tailor Azure Data Factory to your organisation's unique needs.



*"They're the experts in Microsoft products, we trust and utilise the Ingentive expertise and experience to digitally transform."*

**Richard McGregor, Head of Digital Performance at Cumbria Health**

### Did you know?

Data Factory is a pay-as-you-go, fully managed serverless cloud service that scales on demand for a cost-effective solution.

### Why Ingentive?



At Ingentive, our approach will always be focused on the proactive rather than reactive, helping you future-proof your tech by setting out a roadmap to ensure you're always ahead of the game.

**What sets us apart?** Our packages are definitely not a 'one size fits all' and are tailor-made based on your specific needs.



### Common Challenges



Neglecting to invest in data security exposes businesses to many common challenges. First and foremost, there is the heightened risk of data breaches, leading to the compromise of sensitive information and potential legal consequences. Without robust security measures, businesses may face disruptions due to malware attacks, ransomware, or other malicious activities, impacting operations and causing financial losses. Additionally, the lack of investment in security makes companies more susceptible to regulatory compliance issues, which can result in fines and damage to reputation.

## Azure Data Factory Features:

Azure Data Factory plays a crucial role in modern data architectures by enabling data-driven insights and decision-making processes.

### Data Orchestration

Azure Data Factory allows users to create data pipelines that orchestrate and automate the movement and transformation of data. Users can define activities such as data ingestion, data transformation,

### Data Transformation

Azure Data Factory includes capabilities for data transformation, allowing users to perform operations such as filtering, aggregation, and data enrichment as part of their data pipelines. It supports various data transformation techniques and provides built-in functions and expressions for manipulating data.

### Integration

Azure Data Factory integrates with other Azure services, enabling users to leverage additional capabilities for data processing and analytics. For example, users can integrate Azure Data Factory with Azure Machine Learning for building predictive analytics models or with Azure Data Lake Analytics for executing complex data processing tasks.

### Connectivity

Azure Data Factory supports connectivity to a wide range of data sources and destinations, including cloud services (such as Azure Blob Storage, Azure SQL Database, and Azure Data Lake Storage) and on-premises data sources (such as SQL Server, Oracle, and SAP). It also integrates with various data services within the Azure ecosystem, such as Azure Synapse Analytics and Azure Databricks.

### Monitoring & Management

Azure Data Factory provides monitoring and management capabilities to track the performance and health of data pipelines. Users can monitor pipeline execution, view activity logs, and set up alerts for monitoring data integration jobs.

### Security

Azure Data Factory provides features for enforcing data governance policies and ensuring data security and compliance. It supports encryption at rest and in transit, role-based access control (RBAC), and auditing capabilities to help organisations meet regulatory requirements and protect sensitive data.

