Azure Modern Architecture – 1-2 Day Course Agenda

Overview

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Organisations are faced with managing multiple data types today, coming from a wide variety of sources containing large volumes and heterogeneous types of data. To deliver insights, organisations are finding they need to implement a data storage and analytics solution that offers more agility and flexibility than traditional data management systems, allowing for timely action.

This course will provide participants with an overview and walk through of Modern Data Architecture using Microsoft Azure, learning everything from navigating the Azure Portal to building an end-to-end solution of a modern data warehouse using popular technologies such as SQL Database, Data Lake, Data Factory, Data Bricks, Azure Synapse Data Warehouse and Power BI.

Target Audience

This course is aimed at participants establishing Azure Modern Architecture or looking to improve their current solution.

Learning Outcomes

At the end of this course delegates will:

- Effectively navigate the Azure Cloud Portal, and leverage alerting and monitoring features.
- Understand the suite of data products available on Azure as well as their interactions and based on use cases.
- Be able to identify best practice Azure architecture variations to suit a range of requirements.
- Develop insight into cost management strategies and options in Azure.
- Have awareness of common problems and troubleshooting options and techniques in the Azure environment.

Azure Modern Architecture – DWAZ-400

1-2 Day Course – Example Agenda

#	Topic
1.	**Introduction to Azure** • Microsoft Azure Context and Integration • Azure Data Ecosystem • Portal Security (Owner, Contributor, Reader…)
2.	**Anatomy of an Azure Modern Data Platform** • Azure Cloud Products • General Data Flow (ELT/ETL) in Azure • Orchestration, Storage, Transformation and Reporting options • Common Azure integration patterns • Security and Performance at each stage
3.	**Architecture Scenarios** • High data variety, managing source systems • Managing data volume • Data at high velocity (real time)
4.	**Catering to team skills** • Skills and training requirement • Product ownership in Azure
5.	**Cost Management and Automation in Azure** • Scaling and Integration (Azure API Management, Logic Apps…) • Common high cost mistakes in Azure • Setting up alerts and monitoring
6.	**Troubleshooting in Azure** • Log analytics • Event viewer
7.	**Summary and Close**