

# WorkshopPLUS - Data AI: Azure **Databricks** Essentials

## WorkshopPLUS

**Duration:** 2 days

**Focus Area:** Business/IT Alignment

**Difficulty Level:** 300

### Overview

In this workshop, you will learn Azure Databricks, how to manage Azure Databricks cluster, develop in Azure Databricks using notebooks, how to generate dashboards, and go through use cases like Data Exploration, and Modern Data Warehousing using Delta Lake

You will learn skills to accelerate big data analytics with Azure Databricks in your organization.

This workshop is targeted at Database Administrators, Developers, Data scientists, Data Engineers, and Business Analysts who can collaborate on shared projects in an interactive workspace.

### Participants

This workshop targets SQL Server Architects, Database Administrators, IT professionals, SQL Server support staff and DevOps Engineers.

### Objectives

Participants in this workshop will gain the following:

- Understand Big Data processing Basics
- Understand Azure Databricks Architecture
- Understand Azure Databricks Artifacts, Clusters, workspace, and Jobs
- Understand notebooks and dashboards
- Understand interaction with Databricks via Command Line Interface
- Understand Storage options
- Understand Security with Databricks

### Key Takeaways

- The course material explains the key topics that are necessary for anyone interacting with and managing Azure Databricks
- How to use Azure Databricks to transform Big Data architecture
- How to manage Azure Databricks workspace and clusters to get the most performant and cost-effective experience
- Understanding of how to modernize the approach to Big Data

### Hands-on Labs

- The key course concepts will be demonstrated by hands-on labs and demos.
- All participants have access to resources and labs for up to six months after completing the workshop.

### Pre-requisites

Before attending this workshop, it is highly recommended that you meet the following criteria:

- Have basic knowledge of the Microsoft Azure platform.
- Be familiar with navigating around Azure portal.
- Familiarity with Python, SQL, Big Data on Azure

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## Detail Agenda

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### Day 1

#### Module 1 – Introduction to Azure Databricks

- Introduction to Databricks
- Azure Databricks and Architecture
- Price Tiers and Workloads
- Azure Databricks Artifacts
- Azure Databricks Clusters
- Azure Databricks Workspace

#### Module 2 – Databricks Development

- Azure Databricks Notebooks and Jobs
- Working with Azure Databricks CLI
- Working with Storage Options
- Security with Azure Databricks

### Day 2

#### Module 3 – Data Exploration and Introduction to Delta Lake

- Data Exploration with Azure Databricks
- Introduction to Delta Lake

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## Hardware requirements

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- An Intel Core-i5 or greater-based PC
- USB port
- Microsoft/Windows Live ID to connect to the virtual environment
- 4 GB RAM or greater
- 128 GB HDD
- 128 GB HDD
- Windows 7 SP1 or later
- Office 2013 Professional Plus
- Internet access with 1 Mbps or greater bandwidth per student

**For more information:** To learn more about any of the Synapse offerings, contact your Microsoft Account Representative.