

Microsoft Azure Fundamentals
Training Bootcamp

Big Data and Analytics in Azure Cloud Basics 101

Big Data and Analytics – What it is ?

- ❑ Today we are dealing with massive amounts of data, in real time; think back to IoT, data is continuously delivered
- ❑ What if you are managing data from 10.000 trucks ? What about 1 million AC devices ? Or 10m smartphones?
- ❑ What do you do with all that data ? You want to analyze it, and get FAST insights ! Outcome and Results ?
- ❑ Deliver intelligent actions that improve customer engagement, increase revenue and lower costs

Microsoft Azure – SQL Data Warehouse

- ❑ Azure SQL Data Warehouse is a cloud-based enterprise data warehouse that you can use to quickly run complex queries across petabytes of data (Exactly, PB of data 😊)
- ❑ Import data into SQL Data Warehouse and run high-performance analytics, leveraging massively parallel processing (MPP)
- ❑ More and more businesses are relying today on Big Data and Analytics solutions in order to extract real insights from the market and drive business in the right direction



SQL Data Warehouse

Microsoft Azure – Azure Databricks

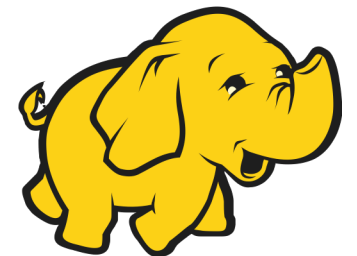
- ☐ Azure Databricks is an Apache Spark-based analytics platform optimized for the Microsoft Azure cloud platform
- ☐ Keep in mind that with Azure Databricks you analyze data and generate meaningful insights
- ☐ Where does Databricks read data from ?
 - ☐ SQL Data Warehouse
 - ☐ Azure Blob Storage
 - ☐ Azure Data Lake Storage
 - ☐ Azure Cosmos DB



Azure Databricks

Microsoft Azure – Azure HDInsight

- ❑ Azure HDInsight it's a cost-effective enterprise-grade service for open source analytics; with Azure HDInsight, I would like you to think open source
- ❑ Run popular open source frameworks – including Apache Hadoop, Spark and Kafka, process massive amounts of data and get all the benefits of the broad open source ecosystem with the global scale of Azure
- ❑ It integrates with other Azure services, for example Data Factory and Data Lake Storage



Azure HDInsight

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Thank you