

ENHANCE YOUR CLOUD SKILLS WITH MICROSOFT AZURE BI TRAINING

(Power BI + Python Basics Free!)



100% Job Assistance!



Hands on Practicals



Real Time Project!

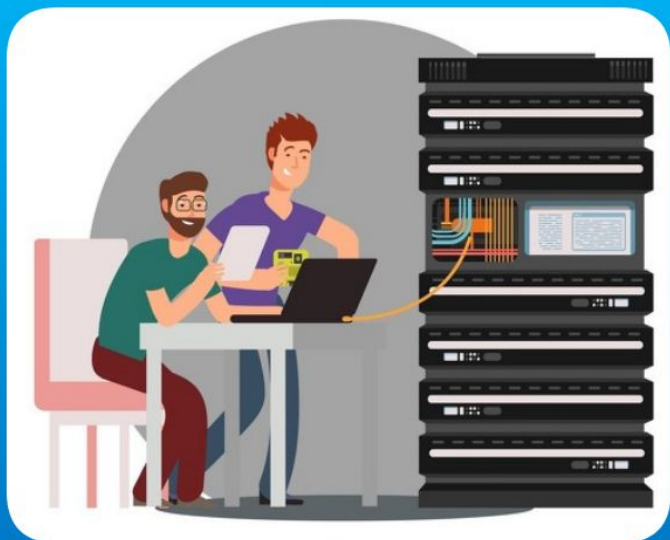


(Free Demo + DP 200 Certification Assistance)



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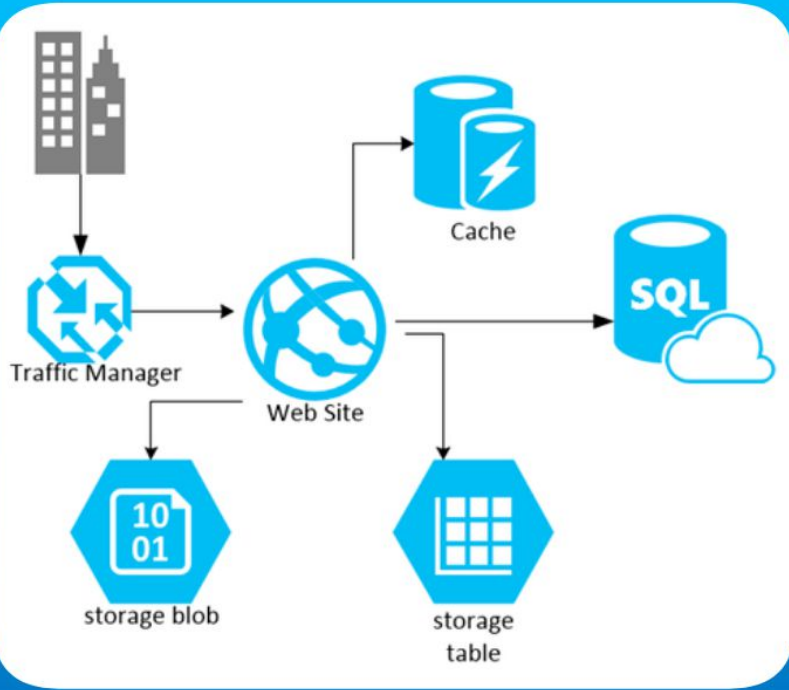
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1. Getting Started with Azure

- 1.1 Cloud Computing Fundamentals
- 1.2 Azure Overview
- 1.3 Types of Cloud deployments
- 1.4 Types of Cloud Services

1. Lab

- 1.1 How to Create Azure Account
- 1.2 Create Resources & Groups in Azure
- 1.3 Azure Resource Manager Template



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2. Getting Started with Azure

2.1 Azure Storage Account Overview

2.2 Storage Account Creation & Configuration

2.3 Account Security & Monitoring

2. Lab

2.1 How to Create Storage Account

2.2 Create Storage - Blobs, Files, Queues, Tables

2.3 Implement and manage storage



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3. Azure Compute Services

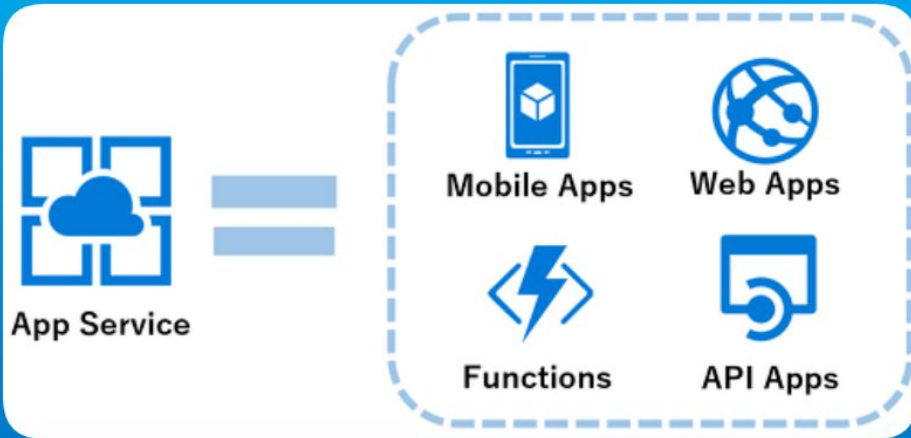
3.1 Azure Virtual Machines

3.2 Auto Scaling, Back up, Security

3.3 Virtual Networks, Load Balancer, VPN
Connectivity

3. Lab

3.1 How to Create Azure VM



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4. Azure Automation Account

- 4.1 Web Apps – Auto scaling, Security
- 4.2 Mobile Apps – API Management
- 4.3 API Apps

4. Lab

- 4.1 How to create runbooks and publish
- 4.2 How to Import runbooks
- 4.3 How to schedule the runbooks
- 4.4 How to make API calls to runbooks



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5. Azure Database Services

5.1 Azure SQL Database – Managed Instance

5.2 Different deployments of SQL in Azure

5.3 Hyper scale , Elastic Pools

5. Lab

5.1 How to create Azure SQL Server

5.2 How to Create Database in Azure SQL Server

How to Query Azure SQL Server from
On-premises SSMS and Cloud

5.4 Creation of Master key

5.5 Creation of credentials



NoSQL



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6. NoSQL Database

6.1 NoSQL Introduction

6.2 Types of NoSQL Databases

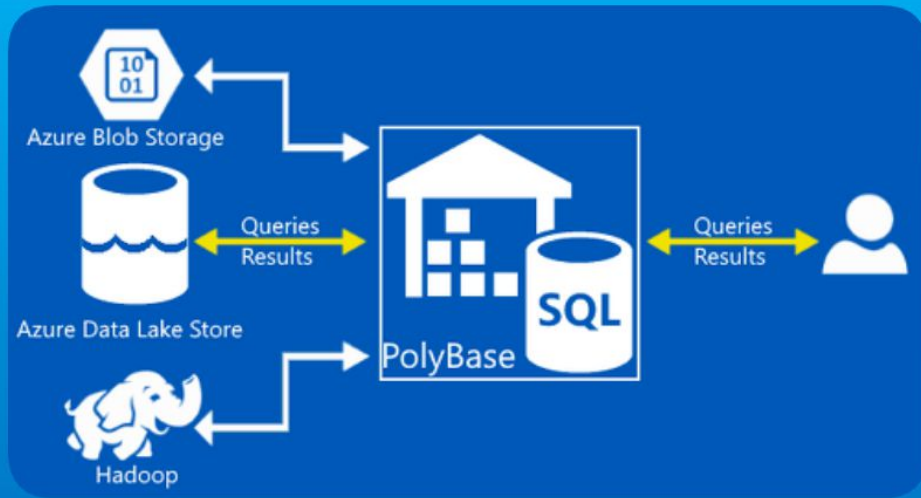
6.3 Horizontal Scaling, Flexibility

6. Lab

6.1 NoSQL brief explanation with examples.

6.2 Show types of NoSQL Databases

6.3 Horizontal Scaling, Flexibility



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7. Polybase

7.1 Polybase Introduction

7.2 External tables

7.3 Implementation in SQL Server

7. Lab

7.1 About Polybase

7.2 Install SQL Server 2018 in VM

7.3 Query data from Storage Account in SQL Server



Azure Data Lake Storage Gen2



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8. Azure Analytics Services

- 8.1 Azure Data Lake Store
- 8.2 How to store Data into data lake
- 8.3 Intro to Azure Data Lake U-SQL Batch Job
- 8.4 Data Lake Analytics
- 8.5 Azure Data warehouse

8. Lab

- 8.1 How to create ADL and ADLA
- 8.2 How to create the App Registration
- 8.3 How to Query data from data lake in SQL Server
- 8.4 Azure Active Directory
- 8.5 How to Create Azure DW

9. Azure Data Factory

9.1 Introduction to ADF

9.2 Core Concepts – Pipelines, Activity, Datasets

9.3 Linked Services, Triggers, CI/CD

9.4 Parameters, Variables, Expressions

9.5 Different kinds of integration runtimes

9.6 Configure integration runtimes

9.7 Azure Integration runtime

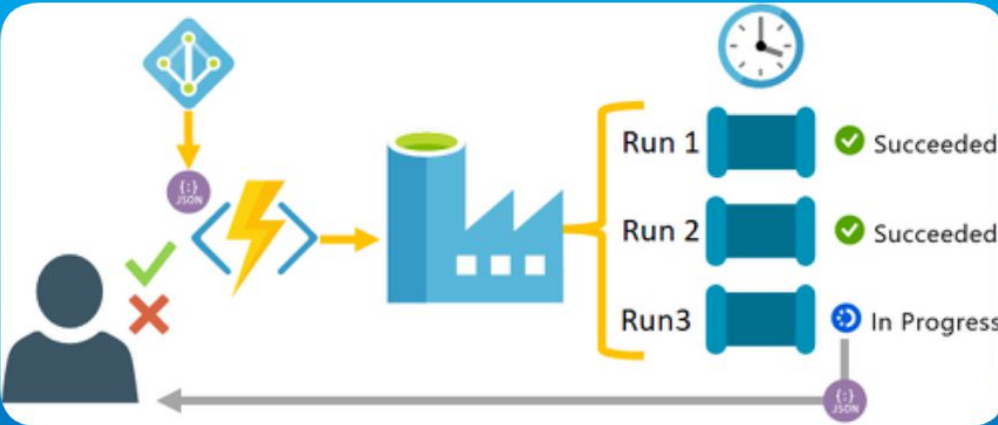
9.8 Azure Self Hosted Integration Runtime

9.9 SSIS Integration runtime.

9.10 Copy Data

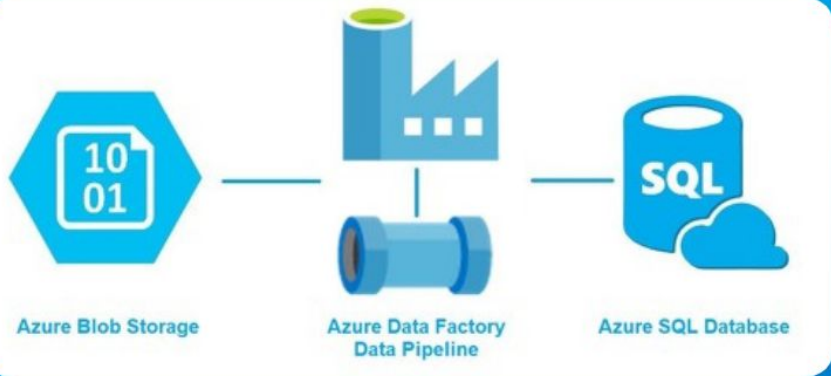
9.11 General Activities

9.12 Iterations & Conditions



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9. Lab + 3 Case Studies

9.1 Creation of Azure Data Factory

9.2 Creation - Pipelines, Activity, Datasets

9.3 Creation - Linked Services, Triggers, CI/CD

9.4 Creation - Parameters, Variables, Expressions

9.5 Creation - Different kinds of integration runtimes

9.6 Creation - Azure Self Hosted Integration Runtime

9.7 Copy Data from Azure SQL database to Blob Storage, Data Lake, and Vice Versa

10 Azure Databricks

10.1 Cloud Architecture

10.2 Clusters, Workspace, Notebooks

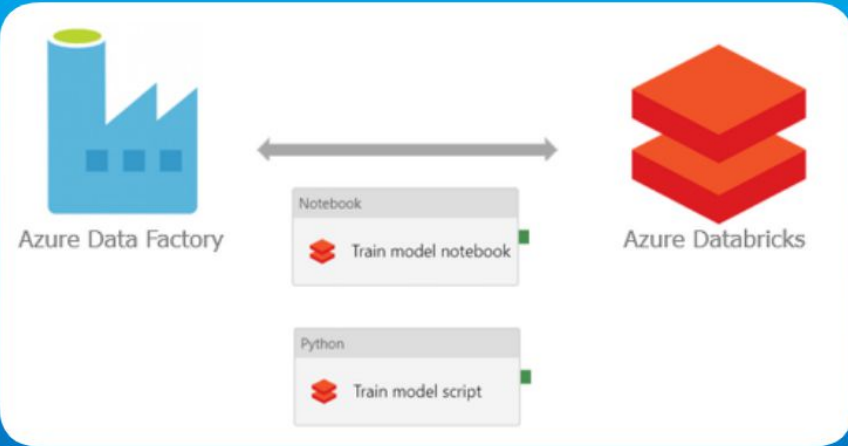
10.3 Streaming and Batch Processing

10.4 Configure data bricks

10.5 Read data from Azure Storage,

Data Lake by creating clusters & Notebooks

10.6 Write data from data bricks to Azure Storage, Data Lake with the help of Notebooks



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10 Lab + Real Time Scenarios

10.1 How to Create a cluster

10.2 How to work with Databricks File system

10.3 Notebooks Creation

10.4 Import and export Notebooks

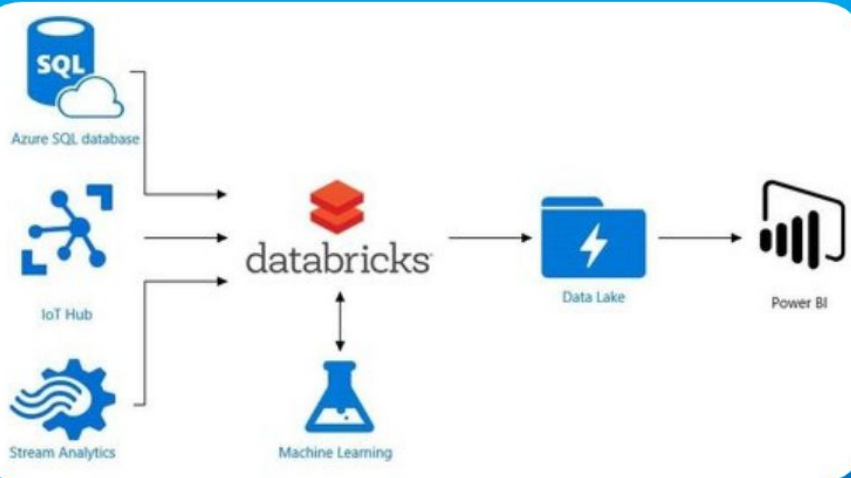
10.5 How to connect to Azure Storage, SQL DB from databricks

10.6 How to integrate databricks from Azure Data Factory

10.7 How to read, write data from clusters to Azure Storage, Data Lake

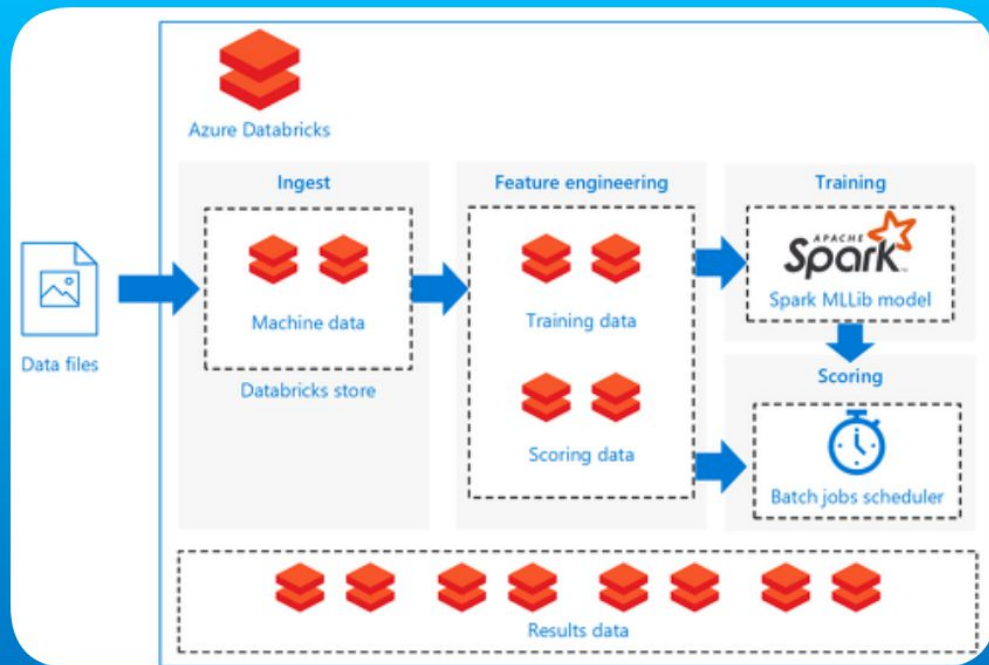
10.8 How to Transform Source data in Databricks

10.9 Key Vault Creation



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12. Spark

112.1 Introduction to Apache Spark

12.2 Spark Execution Architecture

12.3 Spark Components

12.4 Spark Transformations

12.5 Spark Actions

12.6 Spark Cluster

12.7 What is Dataframe

12.8 Different ways to create the Data Frames

11. Lab

12.1 Introduction to Spark

12.2 Components

12.3 Transformations

12.4 Dataframes



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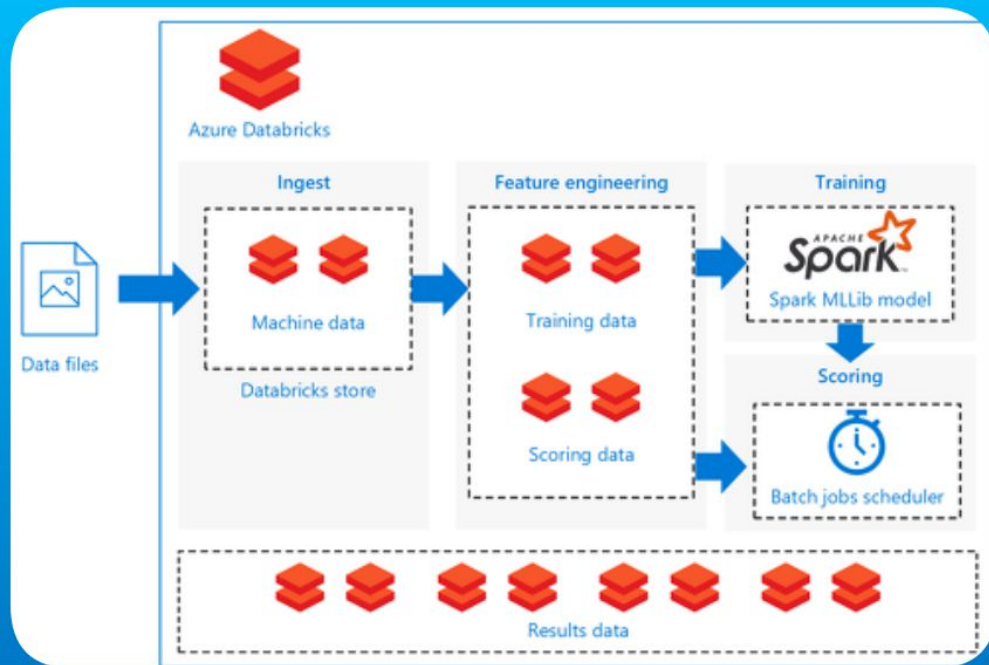
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13. Hive

- 13.1 Introduction to Apache Hive
- 13.2 Hive Basic Commands
- 13.3 Functions
- 13.4 Partitioning
- 13.5 Bucketing
- 13.6 Joins
- 13.7 Views
- 13.8 Different types of Files in Hadoop

13. Lab

- 13.1 Introduction to Apache Hive
- 13.2 Hive Basic Commands
- 13.3 Functions
- 13.4 Bucketing



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12. Spark

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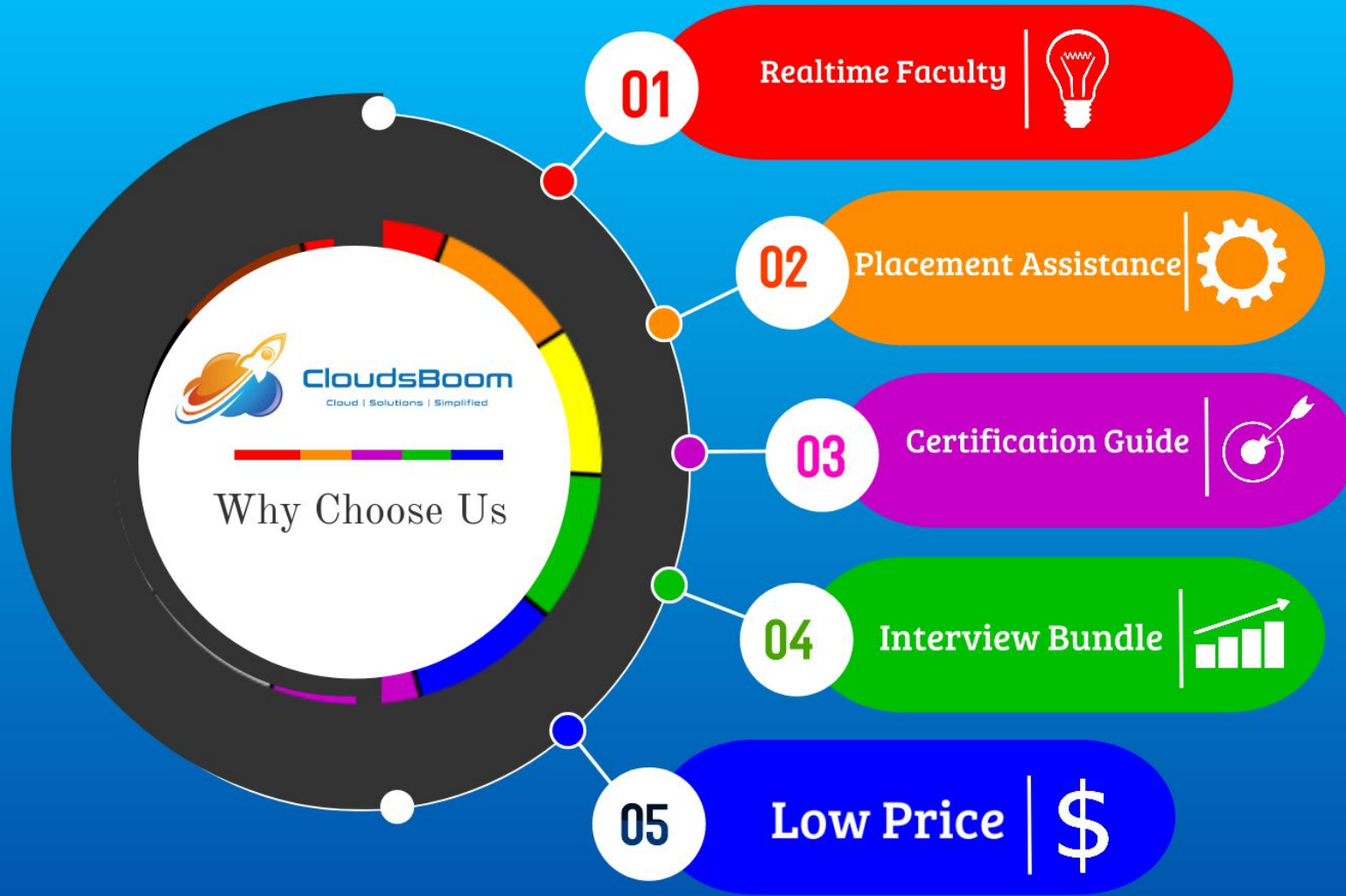
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14. Sqoop

- 14.1 Introduction to Apache Sqoop
- 14.2 Sqoop Imports
- 14.3 Sqoop File Formats
- 14.4 Jobs and Incremental Imports
- 14.5 Hive Exports

14. Lab

- 14.1 Introduction to Apache Sqoop
- 14.2 Sqoop Imports
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- 14.4 Jobs and Incremental Imports
- 14.5 Hive Exports





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