

DP-203 Microsoft Azure Data Engineer

Day8 – Azure HDInsight

1st Aug 2021

Vinodkumar Bhovi

Data

Data Storage



Azure Storage Accounts



Azure Cosmos DB



Azure Data Lake

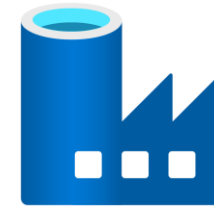


Azure SQL



Azure Synapse Analytics

Data Transformation



Azure Data Factory



Azure Stream Analytics



Azure Databricks



Azure HDInsight

Agenda

- Why Hadoop is Hard?
- Why Hadoop on cloud?
- How HDInsight makes Hadoop easy?
- Important aspects of Hadoop?
- HDInsight Architecture

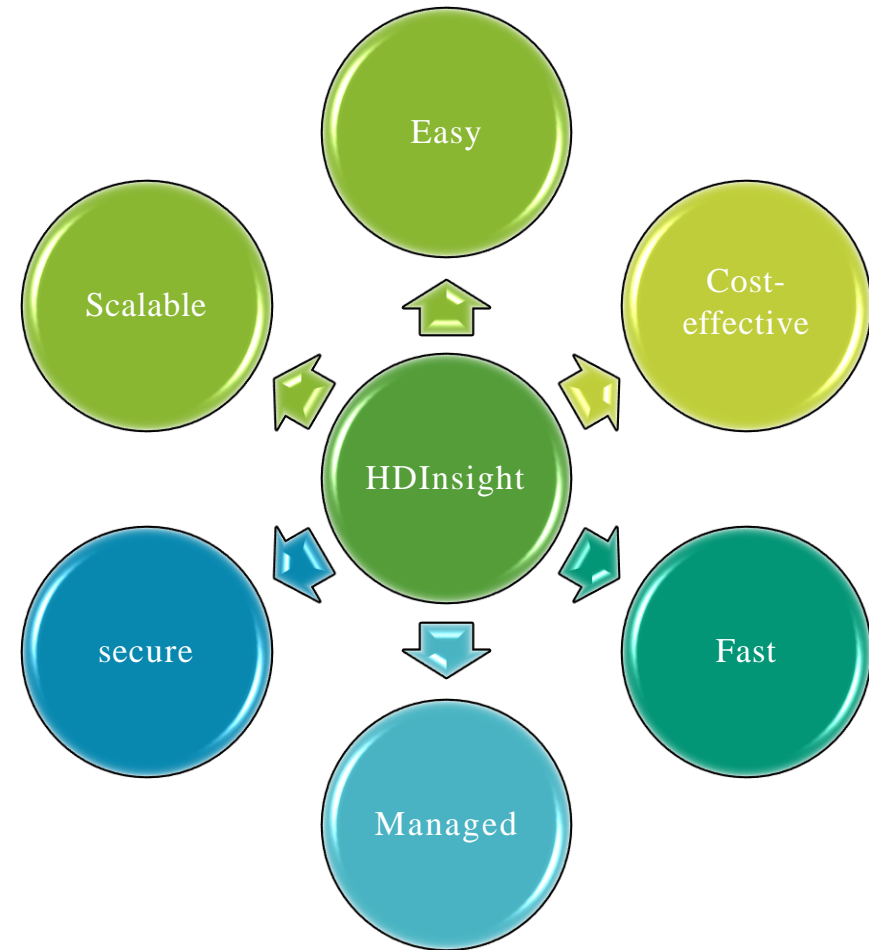
3 Challenges with Hadoop?



HDInsight makes Hadoop easy

What is Azure HDInsight?

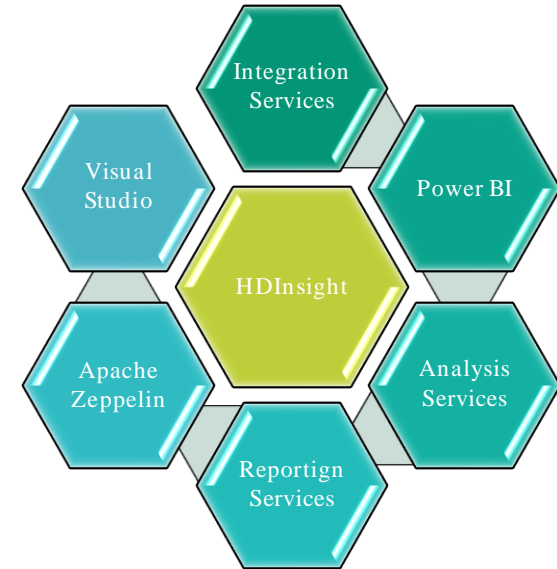
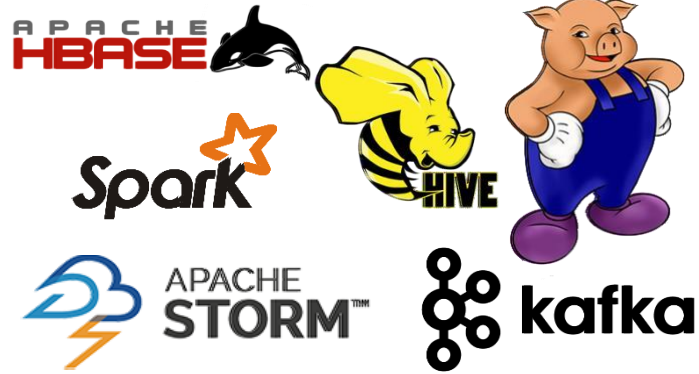
HDInsight is a
cloud distribution of
Hadoop components



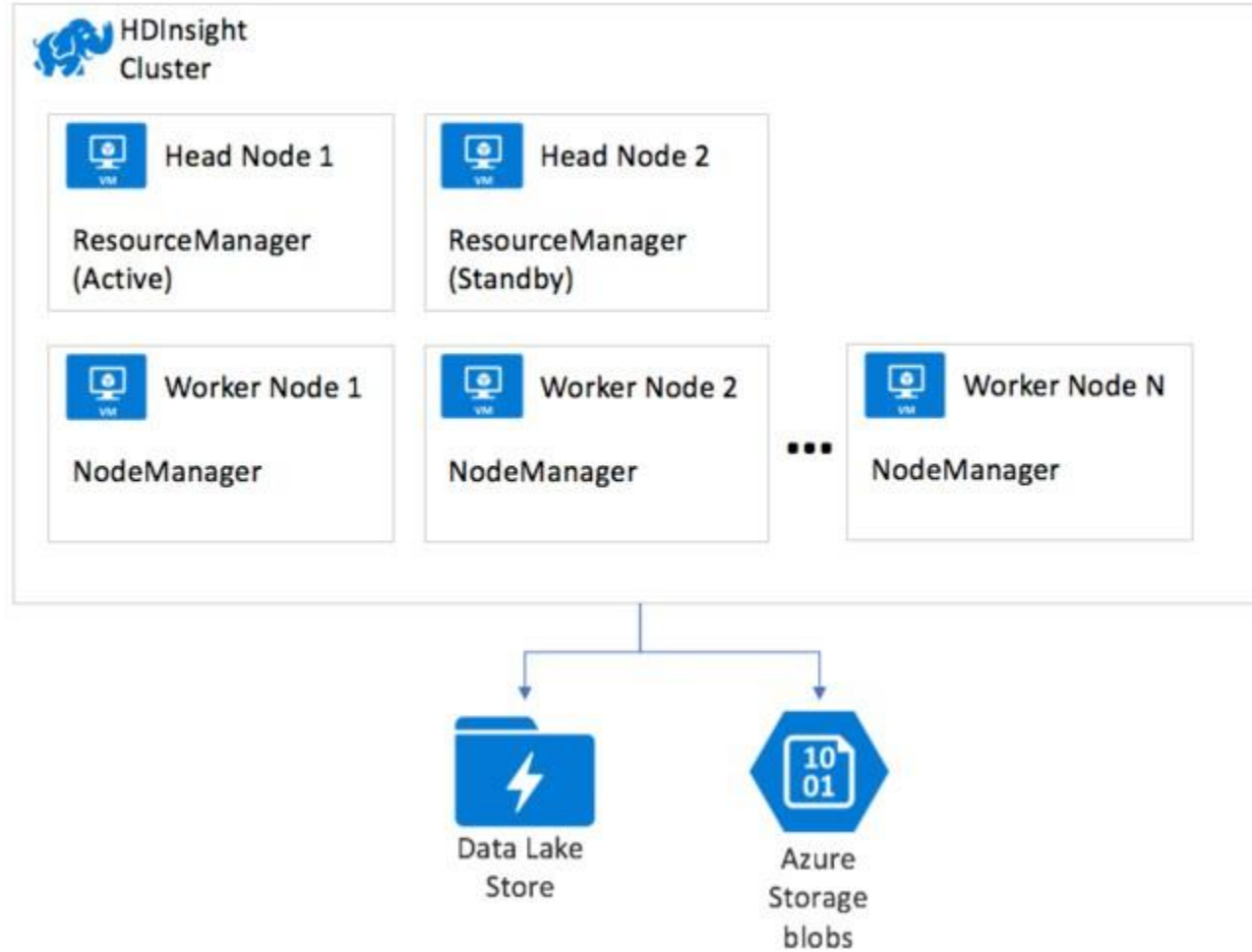
HDInsight makes Hadoop easy



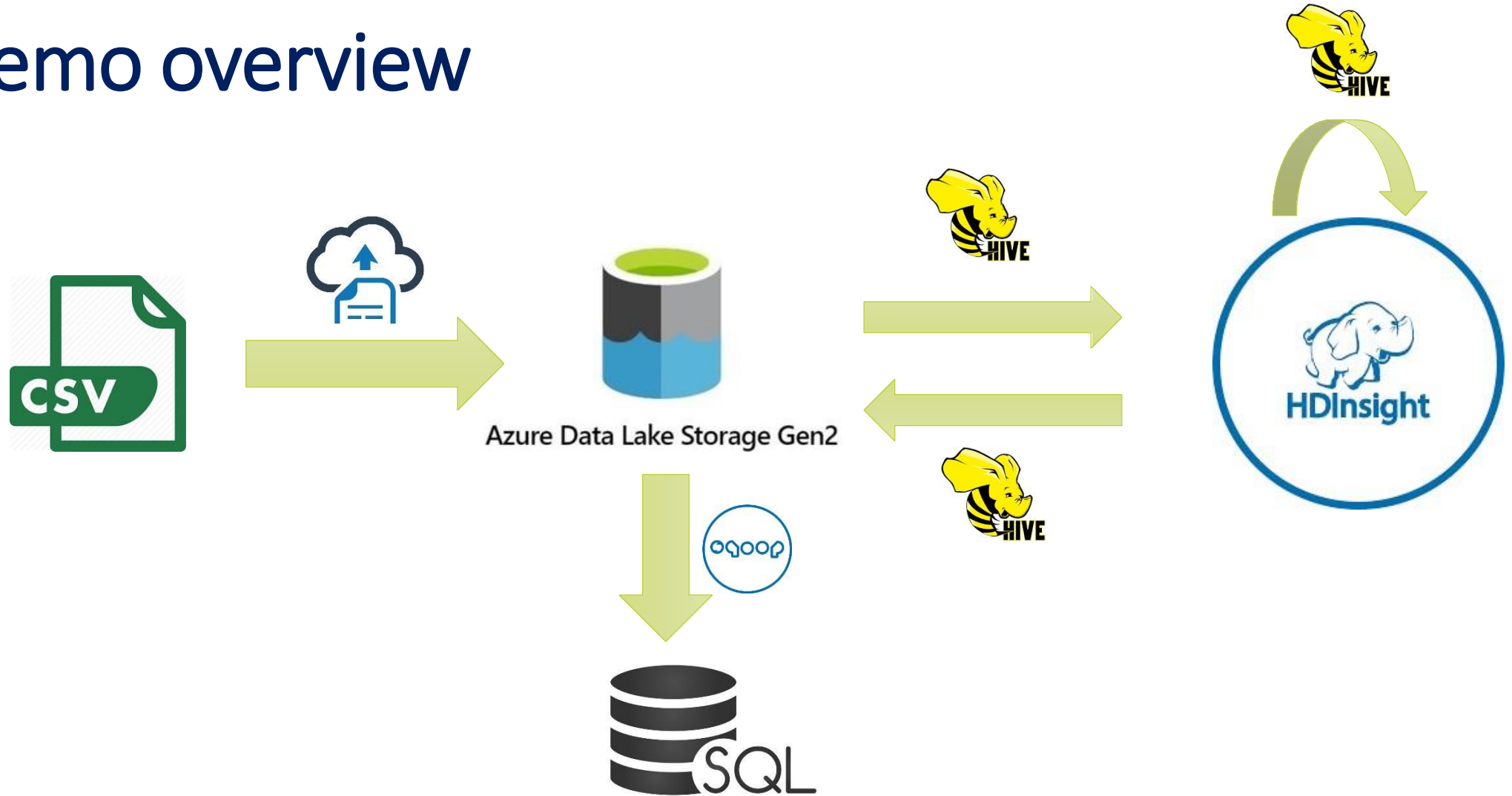
Important aspects of HDInsight



Hierarchy



Demo overview



Ambari

“Ambari is a Hadoop management platform responsible for cluster administration, monitoring and configuration”



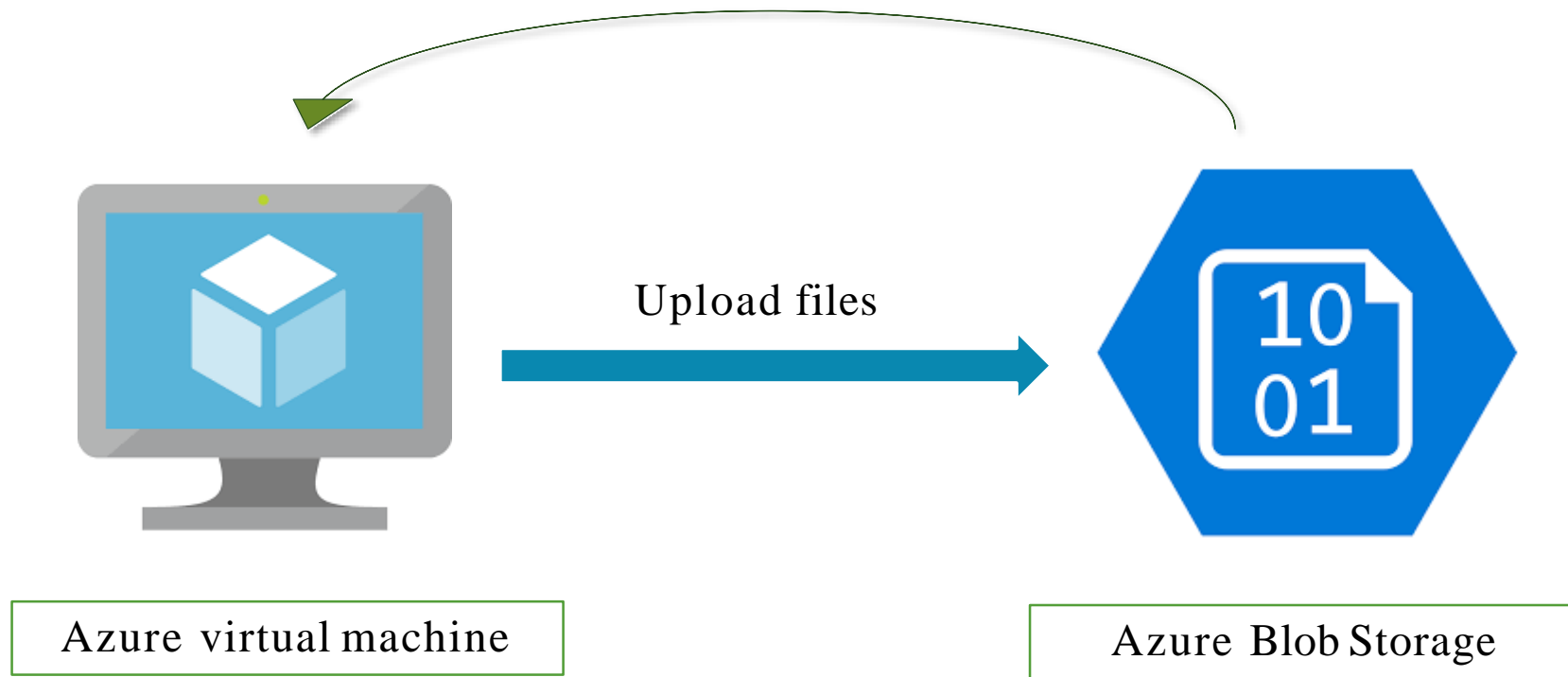
Ambari

- Visualized reports
- System monitoring
- Change configuration
- Manage authentication

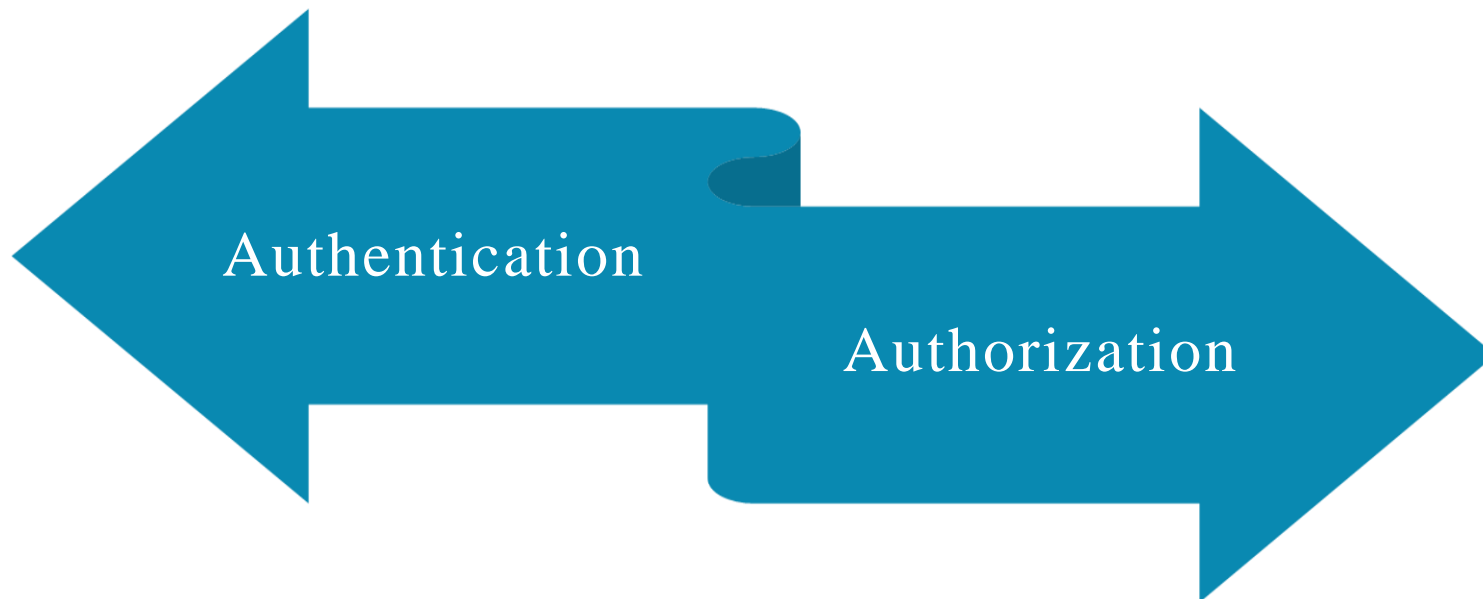
Managed Identity

*Managed identities are
used by Azure services to authenticate to other Azure services
that support Azure AD authentication.*

Managed Identity



Managed Identity – 2 steps



Two types of Managed Identity

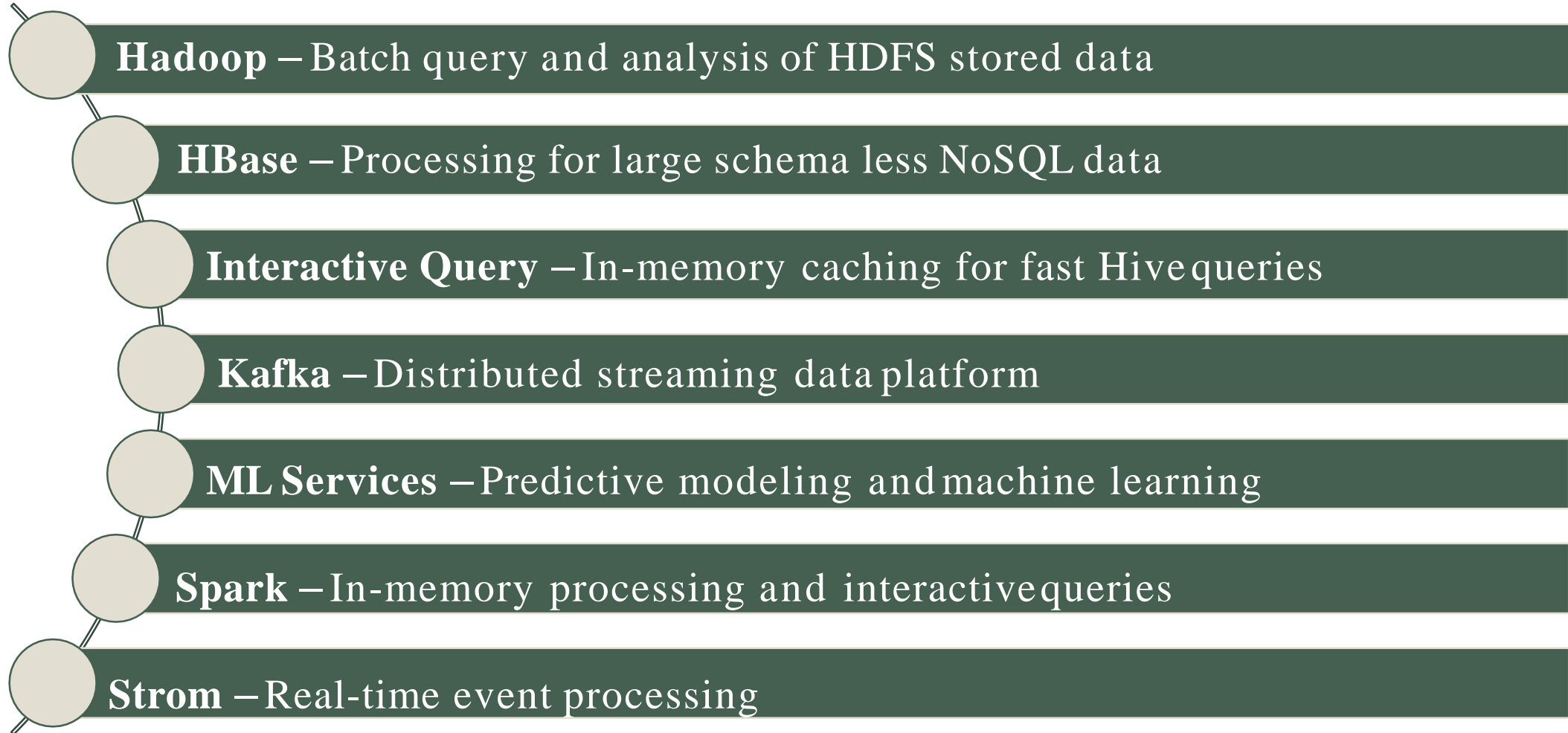
System-assigned

- Enable directly on Azure service instance
- Lifecycle is tied to service instance

User-assigned

- Created as a stand alone Azure resource
- Lifecycle managed separately

HDInsight cluster types



Thank you!