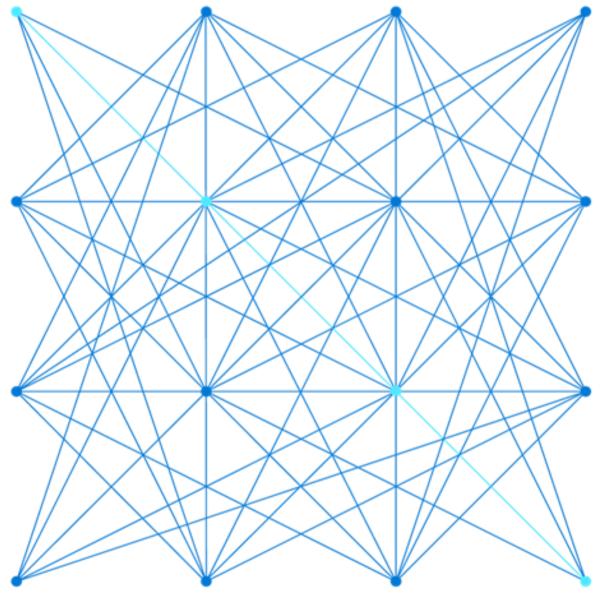


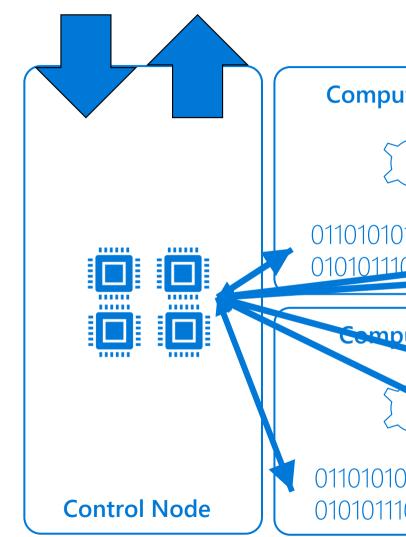
DP-203T00: Ingest and load data into the data warehouse



Lesson 01: Use data loading best practices in Azure Synapse Analytics



Dedicated SQL Pool architecture revision



Compute Node



Compute Node



Compute Node



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Compute Node



Compute Node



Compute Node



Understand data load design goals

- Where is my data coming from?
- Is the data nett new? or do you receive changes from existing datasets?
- How often is the data being refreshed, added to or replaced?
- What formats are the data coming in?
- Is the data ingestible as-is? or are transformations and cleansing tasks required?
- Which takes priority, loading or querying/analysis?

Manage singleton updates





Compute Node



Compute Node



Compute Node



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Compute Node



Compute Node

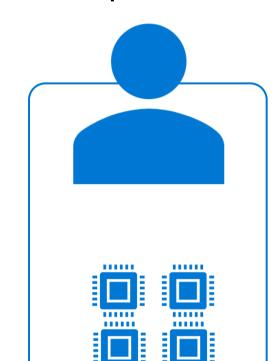


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Set-up dedicated data loading accounts



Control Node

Compute Node



Compute Node



Compute Node



Compute Node



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Compute Node



Manage concurrent access to Azure Synapse Analytics





Control Node

Compute Node



Compute Node



Compute Node



Compute Node



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Compute Node



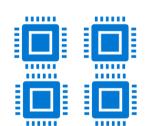
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Compute Node



Implement Workload Management





Control Node

Compute Node



Compute Node



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Compute Node



Compute Node



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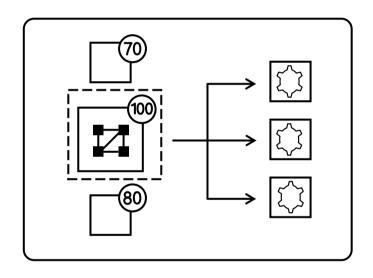
Compute Node

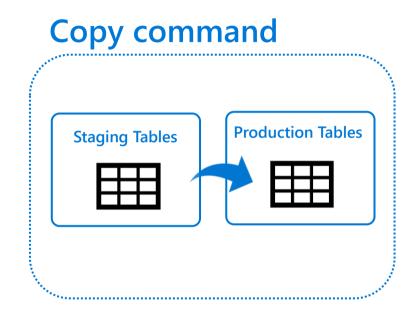


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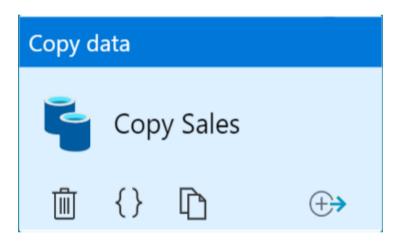
Use PolyBase, the Copy command or the Copy Activity

PolyBase

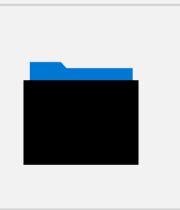




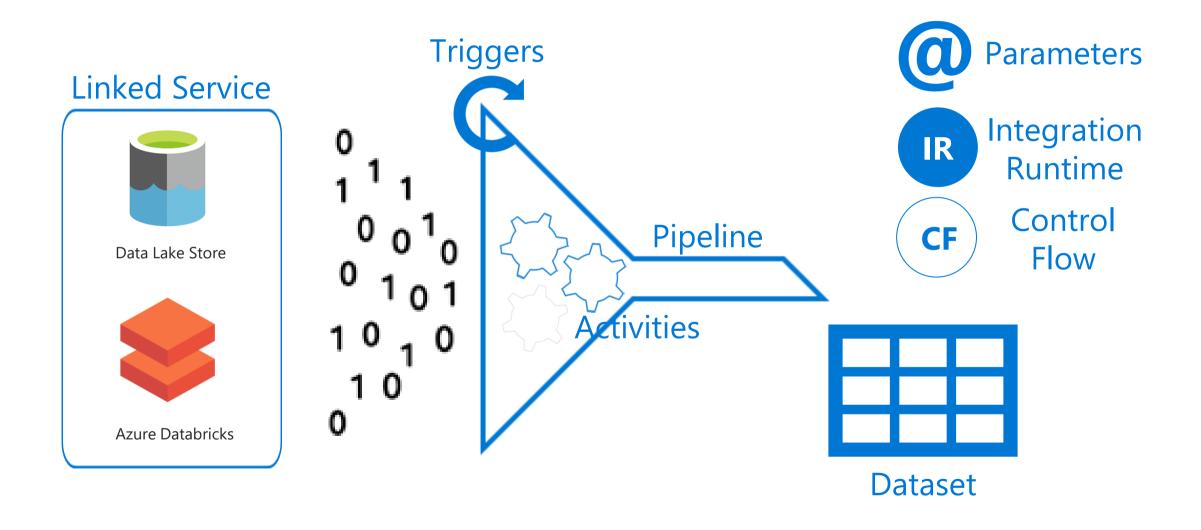
Copy data activity



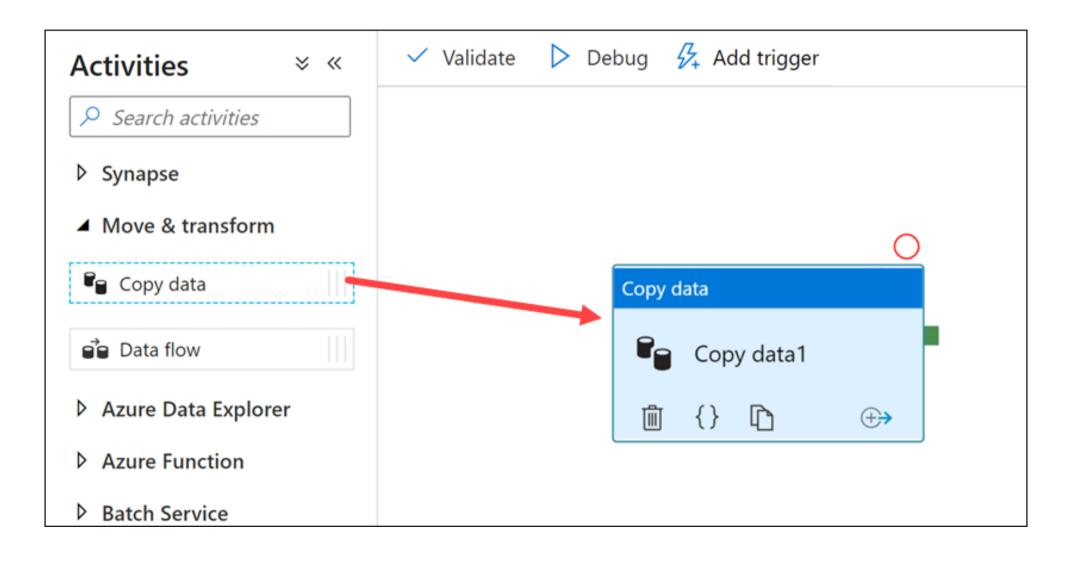
Lesson 02: Petabyte-scale ingestion with Azure Data Factory



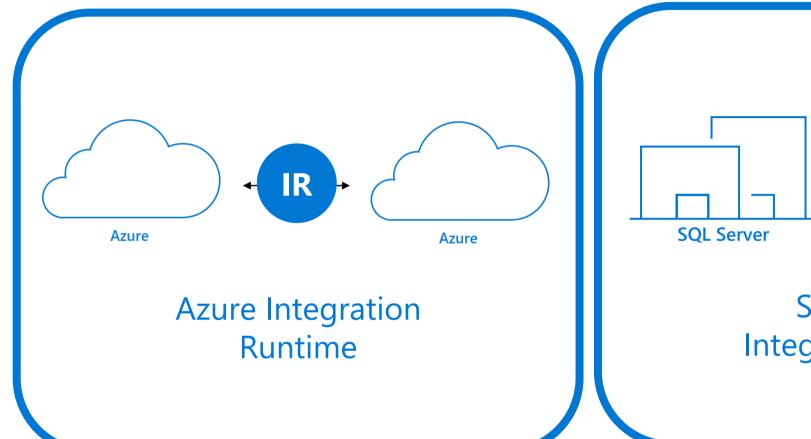
Azure Data Factory/Synapse pipeline revision

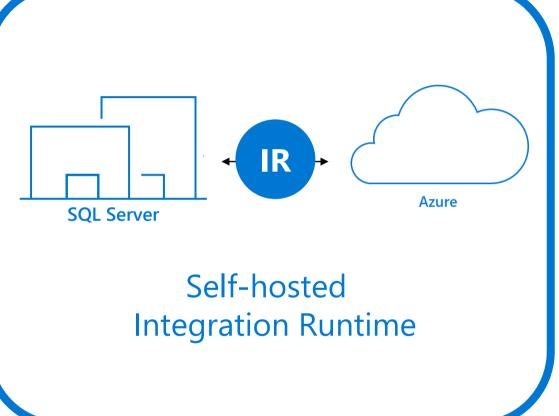


Petabyte-scale ingestion with Azure Data Factory

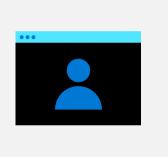


Understanding integration





Lab: Ingest and load data into the data warehouse



Lab overview

This lab teaches students how to ingest data into the data warehouse through T-SQL scripts and Synapse Analytics integration pipelines. The student will learn how to load data into Synapse dedicated SQL pools with PolyBase and COPY using T-SQL. The student will also learn how to use workload management along with a Copy activity in a Azure Synapse pipeline for petabyte-scale data ingestion.

Lab objectives

After completing this lab, you will be able to:

Use data loading best practices in Azure Synapse Analytics

Petabyte-scale ingestion with Azure Data Factory